

PROGRAM

ashp® MIDYEAR 2019

Clinical Meeting & Exhibition

**BIGGER.
BRIGHTER.
MIDYEAR**





BIGGER. BRIGHTER. MIDYEAR.

Hello, Brilliance!

Join 25,000 pharmacy professionals from all over the globe at the biggest and brightest gathering of pharmacists in the world. ASHP's Midyear Clinical Meeting is the largest and longest-running clinical meeting for pharmacists and provides valuable opportunities for professional development, networking, and education on the latest practice advancements. This December the brightest minds in pharmacy will gather for what is sure to be a record-breaking event — and the MUST-attend meeting of the year.

54th ASHP Midyear Clinical Meeting & Exhibition

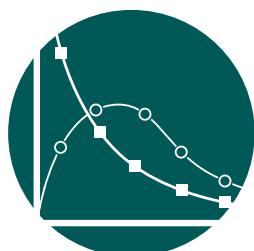
Las Vegas, NV

December 8–12, 2019

- 4** General Information
- 11** Convention Center Map
- 16** Education Information
- 19** Claiming CE Credit
- 20** Schedule-at-a-Glance
- 32** Special Events & Activities
- 40** ASHP Board Review & Recertification Events
- 46** Pre-Meeting Workshops
- 47** Resident & New Practitioner Programming
- 50** ASHP Pharmacy Student Forum Programming
- 54** Programming for Small & Rural Hospital Practitioners
- 56** Pharmacy Residency & Technician Training Activities
- 58** Roundtable Sessions
- 64** Educational Sessions
- 64** Saturday
- 64** Sunday
- 76** Monday
- 85** Tuesday
- 103** Wednesday
- 113** Thursday
- 116** Industry-Supported Symposia
- 119** Promotional Theaters
- 120** Poster Presentations
- 135** Acknowledgments
- 139** ASHP Staff in Attendance
- 141** Presenter Disclosures
- 142** Presenter Index
- 146** Shuttle Bus Schedule & Hotel Map
- 148** Color Cards for Audience Response
- 152** CE Tracking Form

ASHP's PROFESSIONAL CERTIFICATES

Visit ASHP Store and Save 10%
ashp.org/certificates



PHARMACOKINETICS

New



NUTRITION SUPPORT

New in 2019



MEDICATION SAFETY

Updated



PHARMACOGENOMICS



CLINICAL SKILLS
FOR INTERNATIONAL
PHARMACY



TEACHING FOR
PHARMACISTS



COMPOUNDED STERILE
PREPARATIONS



STERILE PRODUCT
PREPARATIONS

New in 2019 BCSCP Prep

New in 2019 PTCB-recognized



PAIN MANAGEMENT



PHARMACY
INFORMATICS



EMERGENCY MEDICINE

New in 2019

ashp



WELCOME!

A MESSAGE FROM THE PRESIDENT

Welcome to Las Vegas! It's great to be back in this electrifying city for the largest gathering of pharmacists in the world.

This year's theme is "Bigger. Brighter. Midyear." And I promise you, this year's meeting lives up to that theme. I'm excited to join you during this incredible week as we take advantage of all the wonderful opportunities for continuing professional development and networking this award-winning meeting has to offer.

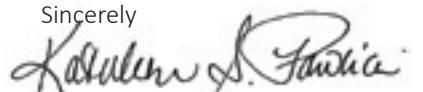
Former Secretary of State Condoleezza Rice will be kicking off the Midyear meeting with a moderated conversation during the Opening Session — and that's just the beginning! Be sure to join us on Wednesday when award-winning actress and breast-cancer survivor Julia Louis-Dreyfus will serve as ASHP's second guest plenary speaker.

This program book, along with the ASHP LIVE! app, is your day-by-day guide for everything happening this week, including specialized educational programming for students, new practitioners, pharmacy technicians, and pharmacists in all healthcare settings.

In my inaugural address at the Summer Meetings in June, I spoke about the importance of never settling—to never stop striving to do more for your practice, your patients, and even yourself. The Midyear meeting presents many opportunities to embrace that philosophy. Take the time to make meaningful connections during the many networking sessions. Check out the newest technologies in our exhibit program. Discover leading-edge science and research presented in the poster sessions. I encourage you to take every opportunity at Midyear to grow, learn, and never settle for the status quo.

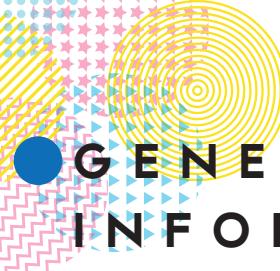
ASHP is our professional home, supporting our own needs and those of our patients. We're determined to exceed your expectations. Please let us know how we are doing. I invite you to share your thoughts with the ASHP board and staff members here in Las Vegas. Or send me an email at president@ashp.org.

Sincerely



Kathleen S. Pawlicki, M.S., R.Ph., FASHP
ASHP President





GENERAL INFORMATION

NOTE: The Mandalay Bay Convention Center includes the South Convention Center, the North Convention Center, and the Events Center. **All ASHP sessions, events, and exhibits will take place in the South Convention Center, unless otherwise noted.** To view a map of the convention center, see page 11.

Registration

Main Registration

Palm Foyer, Level 3

Preregistered Attendees and Exhibitors: Be sure to bring your registration confirmation barcode (exhibitors must type in their names) — it'll get you through the fast lane of preregistered/advance registration. Simply scan your barcode or type your name at the preregistered/advance kiosk.

NOTE: Registration orders must be paid in full, and you must present photo identification prior to badge pickup.

Hours

Saturday–Monday	7:00 a.m. – 5:30 p.m.
Tuesday	7:30 a.m. – 5:30 p.m.
Wednesday	7:30 a.m. – 5:15 p.m.
Thursday	8:30 a.m. – 12:00 p.m.

Satellite Registration

See below

Locations: Mandalay Bay Hotel, Front Desk, Casino Level; MGM Grand, Conference Center Main Lobby (by the Marquee Courtyard Doors), Level 1; Luxor Las Vegas, Atrium Level (adjacent to the Starbucks in the food court)

Preregistered Attendees: Skip the lines and pick up your registration materials as soon as you arrive. Bring your registration confirmation barcode and scan it at our satellite registration kiosks to save time.

Exhibitors: You are welcome to use the satellite registration. Just type your name, show your ID, and pick up your badge.

Hours

Saturday–Sunday	7:00 a.m. – 6:00 p.m.
Monday	7:00 a.m. – 12:00 p.m.

Onsite Registration

Attendees and Exhibitors: Assistance will be available at Customer Relations if you choose to register onsite. For exhibitor registration, visit the Exhibitor Registration Counter in the Customer Relations area.

Customer Relations

If you would like to renew your membership, check on a recent order, or update your profile, visit Customer Relations, located in the main registration area.

Hours

Saturday–Monday	7:00 a.m. – 5:30 p.m.
Tuesday	7:30 a.m. – 5:30 p.m.
Wednesday	7:30 a.m. – 5:15 p.m.
Thursday	8:30 a.m. – 12:00 p.m.

Name Badges

Badges should be worn at all times. Your badge is your admission pass for all meeting sessions, posters, the Residency Showcase™, exhibits, and events. The QR code on your badge contains your registration information. By allowing exhibitors to scan the code on your badge in the Exhibit Hall, you can request information from exhibitors and save time in completing surveys and forms. If you lose your badge, check with Meeting Info to see if it has been turned in. Lost badges can be replaced at Customer Relations for a **\$45 fee**. Badge ribbons are available from the Membership Info Center.

The letter on your badge represents your primary position as follows:

- A** Director, Associate or Assistant Director, Clinical Coordinator, Other Supervisory Position
- B** Staff Pharmacist, Clinical Pharmacist—General, Clinical Pharmacist—Specialist, Faculty
- C** Resident
- D** Student
- E** Technician, Physician, Nurse, Medication/Patient Safety Officer, Informatics/Technology Specialist, Other

PPS or @ = PPS Participant

Emergency Contact Information

An emergency contact information card is included on the reverse side of your badge. Complete this information to help ASHP staff contact someone on your behalf in the event of an emergency.

Certificate of Attendance

International attendees may pick up a certificate of attendance at the Customer Relations counter or at the Meeting Info Center.

ASHP Experience Center

Bayside Hall C&D, Level 1, Booth #1619

Make the most out of your ASHP membership! Visit the ASHP Experience Center to learn how ASHP supports your practice, your career, and your professional development. This is your opportunity to speak directly with content specialists, ASHP leadership, and pharmacy practice experts. Discover what resources and opportunities are available to you exclusively as an ASHP member, and how ASHP is working to help advance the practice of pharmacy and support the pharmacy workforce. Show your support to the ASHP Foundation and learn how your gifts fund research, education, and leadership programs. Plus, take a break with some fun and games with opportunities to win exciting prizes!

Hours

Monday–Tuesday	11:00 a.m. – 3:00 p.m.
Wednesday	11:00 a.m. – 2:00 p.m.

ASHP Headquarters Office

Surf F, Level 2

Registrants may contact ASHP staff and make general meeting inquiries.

ASHP LIVE! App Support

Bayside Foyer, Level 1

Need assistance with the ASHP LIVE! app? Visit the app support desk at the Meeting Info Center.

Hours

Saturday	2:00 p.m. – 6:30 p.m.
Sunday–Monday	7:00 a.m. – 6:00 p.m.
Tuesday	7:30 a.m. – 2:00 p.m.

ASHP Store

Mandalay Bay Foyer, Level 2

Visit the ASHP Store to learn more about and purchase ASHP's latest releases, programs, and services. Exclusively during the meeting, attendees will receive a 10% discount on ASHP products* plus FREE shipping (both domestic and international). Author meet-and-greet/signings for select titles will also take place at the Store. These special offers are only available onsite to Midyear meeting attendees.

Featured and newly released ASHP products and programs include:

- AHFS Drug Information® products and databases
- ASHP Professional Certificate Programs
- Building a Successful Ambulatory Care Practice, 2nd edition
- Get the Residency, 2nd edition
- Letters from Pharmacy Preceptors: Pearls for Success
- Pharmacy Competency Assessment Center (PCAC)
- Preceptor's Handbook for Pharmacists, 4th edition
- Preparing to Meet Accreditation Organization Standards: A Pharmacy Guide
- Specialty Board Review and Recertification Resources
- The Chapter <795>; Chapter <797>; and Chapter <800> 2nd edition Answer Books

Hours

Saturday–Sunday	7:00 a.m. – 5:30 p.m.
Monday	7:00 a.m. – 6:00 p.m.
Tuesday	7:30 a.m. – 6:00 p.m.
Wednesday	7:30 a.m. – 5:15 p.m.
Thursday	8:30 a.m. – 3:15 p.m.

*some exclusions may apply

ASHP TV

For 2019 Midyear meeting news as well as updates on other important pharmacy topics, tune in to ASHP TV at ashptv.com. Keep an eye out for the daily email with a link to the latest broadcast, sent Sunday through Thursday.

Business and Social Functions

A listing of functions, including published alumni and exhibitor events, and their locations, is available on the Midyear meeting website, on the ASHP LIVE! app, and in meeting registration bags. These functions are scheduled in conjunction with the Midyear meeting and are not part of the official ASHP program. Questions related to these functions can be directed to the company listed.

Business Center – FedEx Office

Print & Ship Center

Email: usa5528@fedex.com

Phone: 702-262-5320

Bayside Foyer

(Near Bayside A), Level 1

Hours (subject to change)

Daily	7:00 a.m. – 6:00 p.m.
-------	-----------------------

CE Info Center

Bayside Foyer, Level 1

Need help processing CE? Visit the CE Information Center or email us at [elarning@ashp.org](mailto:elearning@ashp.org).

Hours

Sunday	12:00 p.m. – 6:30 p.m.
Monday	7:00 a.m. – 6:00 p.m.
Tuesday	7:30 a.m. – 6:30 p.m.
Wednesday	7:30 a.m. – 5:15 p.m.
Thursday	8:30 a.m. – 3:15 p.m.

Childcare

MGM Grand Hotel, Room 153, Conference Center, Level 1

KiddieCorp has partnered with ASHP to provide a children's program during the Midyear meeting. The program is for children ages six months through 12 years and will be available from Sunday, December 8 to Thursday, December 12. The cost is \$10.00 per hour, per child. Each child must be registered for a minimum of two consecutive hours each day he or she attends the program.

Register at www.jotform.com/KiddieCorp/ashpkids. Space is available on a first-come, first-served basis. KiddieCorp provides snacks and water; parents are responsible for meals.

Hours

Sunday–Wednesday	7:00 a.m. – 6:00 p.m.
Thursday	7:00 a.m. – 3:30 p.m.

Coat & Baggage Check

Bayside B, Level 1

Coats, bags, and posters can be checked during the meeting. Gratuities are appreciated.

Hours

Sunday	7:00 a.m. – 5:30 p.m.
Monday	7:00 a.m. – 6:00 p.m.
Tuesday	7:30 a.m. – 6:00 p.m.
Wednesday	7:30 a.m. – 5:15 p.m.
Thursday	8:30 a.m. – 3:15 p.m.

Concierge **Front Desk, Mandalay Bay Main Lobby**

Explore the culinary wonders of Las Vegas, a global gourmet mecca. You'll find great cuisine from every part of the country and every corner of the globe, for every budget. Mandalay Bay and surrounding areas offer some of the best dining options, and Mandalay Bay's concierge can assist you with world-class dining, shopping, and entertainment arrangements. The concierge desk is located in the Mandalay Bay Hotel's main lobby and can be reached by dialing 74760 from any Mandalay Bay house phone or at 702-632-4760.

If you are looking to book for a large group, call 702-632-6783 or email nrafle@mandalaybay.com. For a listing of restaurants, visit www.mandalaybay.com/groupdiningguide.

Exhibit Hall

Bayside C&D, Level 1

Featuring some of the most innovative technologies and products, the exhibit program is a must-attend component of the Midyear Clinical Meeting. Peruse the Exhibit Hall, participate in a hands-on demonstration, and learn for yourself how these companies and their products are helping to define what is important to patient care, your practice, and your career. Build on existing relationships and make new ones with highly qualified pharmacy professionals who matter to your business.

A listing of exhibitors can be found on the ASHP LIVE! app and in the Exhibitor Directory.

Hours

Monday–Tuesday	11:00 a.m. – 3:00 p.m.
Wednesday	11:00 a.m. – 2:00 p.m.

NOTE: You must be 16 years or older to enter the Exhibit Hall.

First Aid Station

Bayside A Foyer, Level 1 (behind FedEx Office)

First aid is accessible by calling Mandalay Bay Security.

- Dispatch from any in-house phone located throughout the convention center.
- Pick up any in-house phone and dial 77911. From a cell phone, call 702-632-7911.
- Request first aid service and state your location.

Future Meetings

Bayside Foyer, Level 1

Stop by the ASHP Future Meetings area and pick up information on upcoming ASHP meetings and conferences.

Educational Session Materials

Materials will be available on the web-based itinerary planner for all registered attendees approximately two weeks before the meeting.

Download or print the materials for the sessions you plan to attend before the meeting and bring them with you. Handouts will not be provided in the session rooms. Visit www.eventsphere.com/2019/midyear for more information.

Housing (Orchid.Events)

Palm Foyer, Level 3

A representative from Orchid.Events, ASHP's official housing provider, will be available to assist registrants with hotel-related matters. Registrants may also call Orchid.Events directly at 877-505-0675. Customer Care agents are available to assist Monday through Friday from 6:00 a.m. to 5:00 p.m. PT.

Hours

Saturday–Sunday	7:00 a.m. – 5:30 p.m.
-----------------	-----------------------

Hungry? Food and Beverage Options

A food court and concession stands are available in the South Convention Center, including the Exhibit Hall during open hours. There are also a variety of restaurants located within the Mandalay Bay Hotel, the Shoppes at Mandalay Bay Place, and the Luxor Hotel, just steps away from the convention center. Check the ASHP LIVE! app for more information on dining options and hours of operation.

Lost and Found

Surf F, Level 2

Located in the ASHP Headquarters Office during official meeting days/hours. Afterward, attendees may call the convention center's Building Security non-emergency line at 702-632-7995.

Remember to mark your calendars for:



2020 ASHP Summer Meetings & Exhibition

Seattle, WA

June 6–10, 2020



25th Annual ASHP Conference for Pharmacy Leaders

Chicago Metro Area, Rosemont, IL

October 18–20, 2020

A special thank you to our future meeting city partners! See opposite page.



2020 National Pharmacy Preceptors Conference

Chicago Metro Area, Rosemont, IL

October 21–23, 2020



55th Midyear Clinical Meeting & Exhibition

New Orleans, LA

December 6–10, 2020



BROUGHT TO YOU BY:

NEW
ORLEANS
& COMPANY

WHY WEAR A
LANYARD
WHEN YOU CAN WEAR
BEADS?

Everything about meeting in New Orleans is different. The food, the culture, even what you wear around your neck. Mark your calendars for the 55 ASHP Midyear Clinical Meeting and Exhibition, December 6-10, 2020, and come indulge in delicious cuisine, shop in historic neighborhoods and dance to the music pouring into the streets.

ashp[®] **MIDYEAR** 2020
Clinical Meeting & Exhibition



ORLANDO

ORLANDO WELCOMES BACK ASHP IN 2021! YOU'RE IN FOR SOME AMAZING SURPRISES!

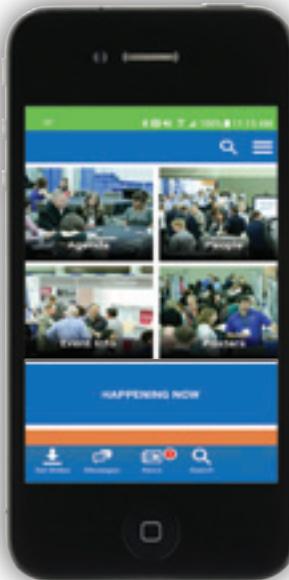
There are exciting new developments across the destination from tantalizing new restaurants, exhilarating new entertainment, and thrilling new lands at our world-class theme parks to discover.

So there's no better time to come to Orlando!

 **Orlando**
Orange County
Convention Center

VisitOrlando
Imagine the possibilities.

DOWNLOAD THE ASHP LIVE! APP



- Create your own schedule and explore detailed session and event info
- Browse presenter, poster, and attendee listings
- Access session materials and take notes directly on the slides
- Receive important updates and announcements
- Network and interact with your peers

Sponsored by



Meditation/Quiet Room

A meditation/quiet room will be available at the convention center. This room is intended to provide a quiet, calm space for attendees to meditate, pray, and spend time away from noise, lights, and other stimuli of meeting spaces. The meditation/quiet room is not available for conversations or meetings; please respect the intent of this space.

Hours

Monday–Thursday 8:00 a.m. – 5:00 p.m.

Meeting Info Center

Bayside Foyer, Level 1
Do you have a question about the Midyear meeting? Stop by the Meeting Info Center for the answer.

Hours

Saturday 7:00 a.m. – 6:00 p.m.

Sunday 7:00 a.m. – 7:00 p.m.

Monday 7:00 a.m. – 6:00 p.m.

Tuesday 7:30 a.m. – 6:30 p.m.

Wednesday 7:30 a.m. – 5:30 p.m.

Thursday 8:30 a.m. – 3:15 p.m.

Membership Info Center **Mandalay Bay Foyer, Level 2**

What does your badge say about you? Pick up your member ribbons to share your interests with fellow attendees, renew your membership to ensure another year of benefits*, and learn more about ASHP Sections and Forums. Discover unique opportunities for networking, career growth, and continuing education. Member volunteers will be available to answer your questions and help you make the most of your ASHP membership and your Midyear meeting experience.

NOTE: Member ribbons will be available for pickup at this location.

*Renew your membership onsite to receive a special gift, available while supplies last.

Hours

Saturday–Sunday	7:00 a.m. – 5:30 p.m.
Monday	7:00 a.m. – 6:00 p.m.
Tuesday	7:30 a.m. – 6:00 p.m.
Wednesday	7:30 a.m. – 5:15 p.m.
Thursday	8:30 a.m. – 3:15 p.m.

Mother's Room

A nursing mother's room will be available for use during the meeting. Seating and power outlets will be provided.

Hours

Saturday–Wednesday	8:00 a.m. – 5:00 p.m.
Thursday	8:00 a.m. – 3:00 p.m.

News & Views

Published Saturday through Thursday, *News & Views* is your source for highlights from the 2019 Midyear meeting. Our daily newspaper includes onsite coverage, features, award winners, schedules at-a-glance, and more. Look for *News & Views* each morning at bins located throughout the convention center.

Personnel Placement Service (PPS) **Shoreline, Level 2**



Personnel Placement Service

PPS is the industry's largest and most widely attended national pharmacy recruitment event. Hosting more than 3,000 pharmacy candidates and nearly 400 employers, PPS is where pharmacy residency, fellowship, and employment connections are made.

Hours

Sunday–Wednesday 7:30 a.m. – 5:00 p.m.

Press Office **Surf A, Level 2**

Hours

Saturday By appointment

Sunday 9:00 a.m. – 5:00 p.m.

Monday–Wednesday 7:30 a.m. – 5:00 p.m.

Thursday 8:00 a.m. – 12:00 p.m.

Promotional Theaters

Promotional theaters held at the Mandalay Bay Convention Center are informational or promotional in nature; their content and the opinions expressed therein are those of the sponsors or presenters and not those of ASHP. CE credit is not offered for attendance. A listing of promotional theaters and their locations will be available in advance on the ASHP meeting website and onsite via the ASHP LIVE! app or the printed insert in the meeting registration bag.

Recharging Stations

Located throughout the Mandalay Bay Convention Center. Network, relax, and recharge mobile phones, laptops, or any of your portable mobile devices.

Residency Showcase™

Bayside B, Level 1

Come by to talk to more than 800 different programs about their various residency opportunities. To find when and where a specific program will be available, visit the Midyear meeting website or browse the ASHP LIVE! app.

Hours

Monday	1:00 p.m. – 4:00 p.m.
Tuesday	8:00 a.m. – 11:00 a.m. 1:00 p.m. – 4:00 p.m.

Safety and Security

Please keep your personal belongings under your control at all times. Report any suspicious persons or activities to the convention center security. Remember that all attendees are required to wear a 2019 Midyear meeting badge when they attend any ASHP meeting activity or session, including the Exhibit Hall, Personnel Placement Service, Posters, and the Residency Showcase™.

Shuttle Bus Service

Convention Lot

(adjacent to Shark Reef)

Saturday, December 7 through Thursday, December 12

Shuttle bus service will be provided from all official Midyear Clinical Meeting hotels to the Mandalay Bay Convention Center (except for the Delano Las Vegas, Four Seasons Hotel Las Vegas, and Luxor Las Vegas,) from Saturday, December 7, through Thursday, December 12. Non-stop service will be provided from the MGM Grand and The Signature at MGM Grand. For a complete shuttle schedule, see page 146.

The shuttle schedule is subject to change based on usage, traffic, and weather. Please check the ASHP LIVE! app and News & Views for changes and updates to the schedule.

NOTE: ASHP does not provide shuttle bus service for morning or evening symposia, social events, or meetings supported by the pharmaceutical industry, universities, and other organizations.

Sorry, No Children Admitted

For health and safety considerations, children under the age of 16 are not permitted in the Exhibit Hall, Poster Sessions, Residency Showcase™, Personnel Placement Service (PPS), or educational sessions.

Speaker Preview Room

Surf D, Level 2

The Speaker Preview room has computers available for presenters who want to preview their slides prior to their presentation.

Hours

Saturday–Wednesday	7:00 a.m. – 5:00 p.m.
Thursday	8:00 a.m. – 11:00 a.m.



FREE WI-FI

Complimentary Wi-Fi access is available in the North and South Convention Center meeting rooms, public space, Shoreline and Bayside Halls A & B.

Select the network **ASHPMCM19** on your device and use the Conference Access Code **lasvegas19**

Connect on Social Media

Build your online connections and stay up-to-date with what's going on at the meeting.



Like our Facebook page: facebook.com/ASHPOfficial. We'll post daily highlights and photos during the meeting, and we look forward to you sharing your meeting highlights as well. Tag us so we'll see your mentions.



Use the hashtag **#ASHP19** on Twitter and Instagram. Tag your photos, tweets, and videos with the **#ASHP19** to share them with fellow attendees, your online friends, and colleagues.



Follow **#ASHP19** on Twitter and Instagram.

Follow us on Twitter and Instagram, **@ASHPOfficial**, where you'll get the latest scoop on meeting highlights, contests, and more.

Did we mention the best part? We'll be giving away prizes throughout the week. Follow **#ASHP19** to learn how you might win!

#ASHP19



pharmacists advancing healthcare®

REVIEW & RECERTIFICATION REWARD PROGRAM

The Right Course for Your Career

Pay \$0 for Enrollment and Exam Preparation Resources

For ASHP member residents and new practitioners seeking board certification in **Ambulatory Care***, **Critical Care**, **Geriatric***, **Pediatric Pharmacy** or in **Pharmacotherapy**, the "RRRP" offers:

- **FREE** online review course
- **FREE** additional prep activities (varies per specialty)
- **\$10 per month** access to online recertification activities for 7 years

ASHP members, take advantage of this free benefit!

Visit Booth 1619 or ASHP.org/RRRP for details.

*Also open to ACCP members. To enroll, call ASHP at 866-279-0681.

MANDALAY BAY CONVENTION CENTER OVERVIEW



MANDALAY BAY

SOUTH CONVENTION CENTER

LEVEL



Select the network **ASHPMCM19**
on your device and use the
Conference Access Code **lasvegas19**

MANDALAY BAY

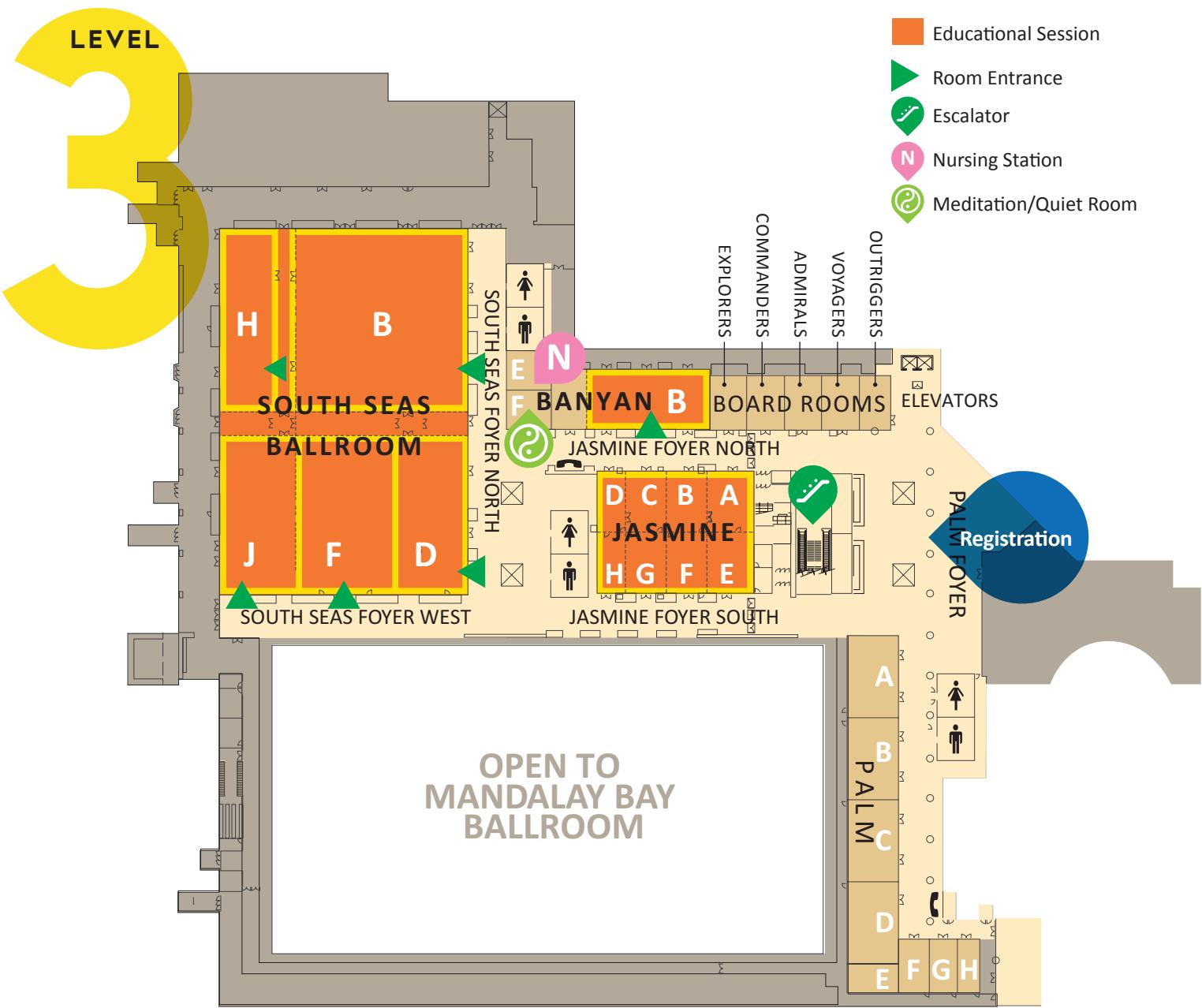
SOUTH CONVENTION CENTER

LEVEL



MANDALAY BAY

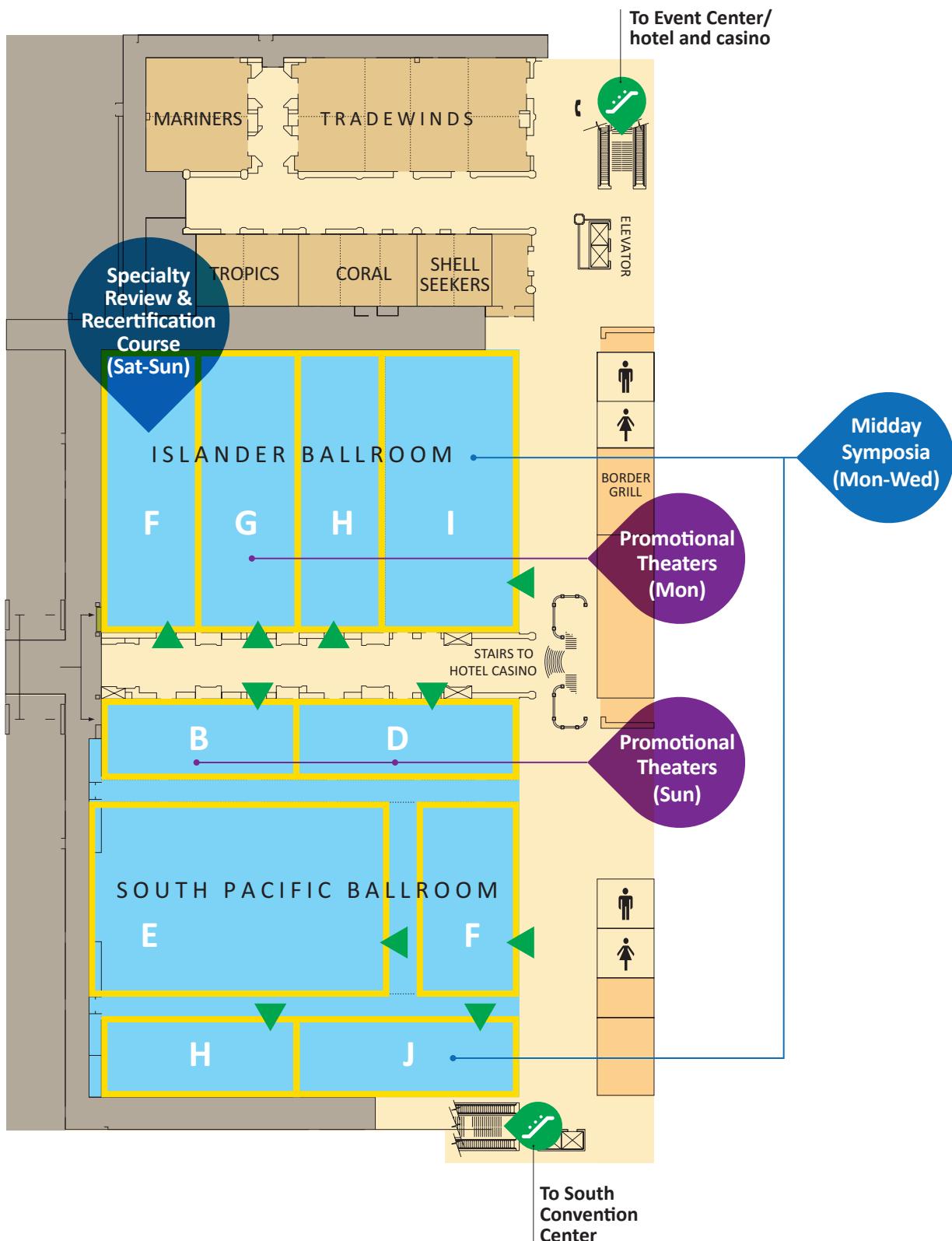
SOUTH CONVENTION CENTER



FLOOR PLANS

MANDALAY BAY

NORTH CONVENTION CENTER





EDUCATION INFORMATION



The American Society of Health-System Pharmacists is accredited by the Accreditation Council for Pharmacy Education (ACPE) as a provider of continuing pharmacy education.

Some states have special criteria for program content to meet their requirements for continuing education. Check with your state to determine if such requirements exist and to determine which Midyear Clinical Meeting educational sessions meet those requirements.

● Pharmacists

ASHP determines the number of contact hours for each session. Registrants may earn up to 30 contact hours (3.0 CEUs) at ASHP's 2019 Midyear Clinical Meeting.

● Pharmacy Technicians

Sessions specifically designed for pharmacy technicians are designated with a "T" following the ACPE number. For information on pharmacy technician certification and continuing education requirements, contact PTCB at 800-363-8012 or contact@ptcb.org.

Educational Objectives

The 2019 Midyear Clinical Meeting educational sessions are developed to maintain and enhance the knowledge, skills, and competence of pharmacists and technicians in acute and ambulatory settings. Through skill-building and active participation, the educational goal of this meeting is to provide information and instruction on a variety of topics to enable pharmacy practitioners to provide quality patient care.

Target Audience

Educational activities are planned and structured to meet either the knowledge-based or application-based educational needs of pharmacists and pharmacy technicians in a variety of settings. This includes those practicing in large and small hospitals, managed care facilities, ambulatory care settings, inpatient facilities, outpatient clinics, and home care settings, as well as in academia and the pharmaceutical industry.

Continuing Pharmacy Education

In accordance with ACPE's Accreditation Standards for Continuing Pharmacy Education, ASHP fully supports the following:

● Definition of Continuing Pharmacy Education (CPE)

CPE for the profession of pharmacy is a structured educational activity designed or intended to support the continuing development of pharmacists or pharmacy technicians to maintain and enhance their competence. CPE should promote problem-solving and critical thinking, and it should be applicable to the safe practice of pharmacy.

● Active Learning

A basic principle and best practice in adult learning, active learning means interaction with faculty and other participants to improve learning, retention, and application of new knowledge and skills. Even in large sessions, faculty

use participatory instructional techniques intended to engage you more fully as a learner.

● Learning Assessment and Feedback

Learning assessment and feedback are part of every activity; while participating in an activity, attendees will assess their own learning through various teaching formats and techniques.

● Activity Types

CPE activities at the 2019 Midyear Clinical Meeting are knowledge-based and application-based. **Knowledge-based** sessions are designed primarily for acquiring factual knowledge; **application-based** sessions primarily apply the information learned in the time allotted.

● Topic Designations

ACPE universal activity number topic designations are used by boards of pharmacy when a specific type of CPE is required for re-licensure:

01	Disease state management/drug therapy
02	AIDS therapy
03	Law
04	General pharmacy
05	Patient safety
06	Immunizations
07	Compounding, sterile and non-sterile

● Evaluations

ACPE standards require us to develop and conduct evaluations for each CPE activity. Beyond this requirement, your feedback is important to us for evaluating achievement of the learning objectives, quality of faculty, effectiveness of teaching methods and materials, and perceptions of commercial bias.

● ACCME Standards for Commercial Support

ACPE has adopted the ACCME Standards for Commercial Support, which require separation of continuing education from commercial influence. Instructional materials for CPE activities, including presentation slides, undergo peer review to ensure compliance with the Standards for Commercial Support.

● Relevant Financial Relationships Disclosure Statements

Presenters, program chairs, planners, reviewers, ASHP staff, and others with an opportunity to control CE content are required to disclose financial relationships with commercial interests. In accordance with these standards, all potential conflicts of interest have been resolved prior to the CPE activity taking place. ASHP will disclose financial relationship information to meeting attendees in the onsite program, on the mobile app, and at the beginning of the educational session. ASHP maintains disclosure information on file for six years. Poster disclosures are displayed in the lower-right corner of the poster boards.

Put ASHP's Experts to Work in Your Pharmacy

The experts at ASHP Consulting are internationally recognized practice experts with longstanding reputations for improving outcomes and who understand both the operational and financial needs of not only the pharmacy department, but also the C-suite.

ASHP Consulting offers customized analysis and assessment as well as consulting plan development and implementation, followed by presentation of formal recommendations.

Services offered include the following:

- **NEW!** Pharmacy Leadership and Executive Coaching
- USP <797> and USP <800> Compliance
- Comprehensive Pharmacy Review
- Pharmacy Clinical Services and Practice Model
- Antimicrobial Stewardship
- Specialty Pharmacy Operations Assessment, Planning, and Implementation
- Residency Program Development/Assessment
- Medication Use System Security and Drug Diversion
- Pharmacy Operations
- Ambulatory Care Practice Development or Optimization
- Ambulatory Care Billing Practices
- Pharmacy Services Integration
- Pharmacy/Health Information Technology
- Pharmacy Management

To learn more or set up a consultation with one of our experts, visit us onsite in the **ASHP Experience Center Booth 1619** or online at consulting.ashp.org.

Continuing Professional Development (CPD)

An approach to lifelong learning, CPD is a process of active participation in learning activities geared to helping individuals develop and maintain continuing competence, enhance their professional practice, and support achievement of their career goals. CPD emphasizes self-reflection as well as educational plan development, implementation, documentation, and evaluation. Educational sessions and other activities at the meeting may form part of your own CPD plan. For more information, visit www.acpe-accredit.org/continuing-professional-development.

Levels of Content

ASHP categorizes the educational content into the following levels:

- **General Interest:** No prior knowledge of the specific content is required.
- **Intermediate:** Basic knowledge of the specific content area is suggested, but extensive experience is not necessary.
- **Advanced:** General working knowledge of the specific content area is suggested; information will be provided to expand current expertise.

Educational Session Recordings

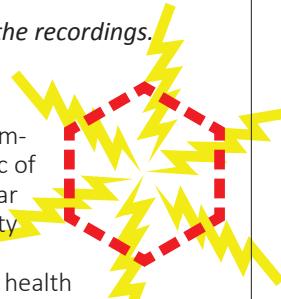
With so many educational sessions to choose from, it used to be impossible to catch them all — but not any longer. The full-meeting registration fee includes access to all available educational session recordings. Access the sessions you've missed online and attend at your leisure.

NOTE: CPE credit is not available for the recordings.

Featured Programming:

Pain Management

Participate in over 13 hours of programming dedicated to the important topic of pain management at the 2019 Midyear Clinical Meeting. Choose from a variety of sessions focusing on strategies and solutions to address this major public health crisis, including chronic pain management, minimizing inpatient opioid utilization, and reducing discharge prescribing. Featured sessions on pain management include:



- A Roadmap of Over-The-Counter (OTC) and Herbal Analgesic Therapies for Pain
- Addressing Opioid Use Disorder and the Overdose Epidemic at an Urban Academic Medical Center
- Contemporary Issues with Cannabinoids
- Does the Bud Stop Here? An Update on Legalization of Medicinal Cannabis and Impact on Pharmacy Practice
- Let's Be Blunt: Cannabis Clinical and Legal Conundrums
- Medication-Assisted Treatment for Opioid Use Disorder (OUD): Solving the Puzzle with Clinical Pharmacist Providers
- Mind the Gap: Filling in the Holes of All Things Pain
- The Cannabis Conundrum: Panacea or Pandora's Box — a Focus on Pain and Mental Health
- The Pain Debates: What ARE the Right Choices for 2020 and Beyond?
- This Won't Hurt A Bit: Applying Pharmacogenomics to Pain Management
- Treating Chronic Non-Cancer Pain (CNCP) in an Era of Guidelines and Fatal Drug Interactions

Clinical Sessions and Intensive Studies

The live Clinical Sessions and Intensive Studies are advanced-level, thought-provoking sessions that are open for all Midyear Clinical Meeting attendees. However, if you are board-certified, you must purchase the package(s) for your specialty to receive the recertification assessment and claim the recertification credit. These sessions are approved by BPS to provide recertification credit. Recertification will be applied to the year in which you pass the assessment. Purchase package(s) before December 12 at 12:00 p.m. PT for special Midyear meeting pricing.

For more information, see page 40.

Industry-Supported Symposia

ASHP Advantage, a brand of ASHP, specializes in developing customized, needs-based educational activities for pharmacists, physicians, and other healthcare professionals. You may process continuing education credit online at elearning.ashp.org for ASHP Advantage symposia presented at the ASHP Midyear Clinical Meeting.

Other industry-supported symposia have been scheduled in conjunction with the 2019 Midyear Clinical Meeting and will be held throughout the week. The symposium organizer is responsible for content, logistics, and issuing continuing education credits.

Management Case Studies

Find out how your peers are meeting today's administrative challenges by discussing actual cases in pharmacy management. Each presentation focuses on one pharmacy department's administrative steps and decision-making processes in planning and implementing a new program or resolving an administrative problem. Cases may be presented by an individual or a team and will consist of a 20-minute case summary followed by a brief period of questions, answers, and discussion.

Pearls Sessions

The object of each pearl presentation is to convey one idea, concept, or fact that has been useful in day-to-day practice and may not be widely known, understood, published, or taught. Among the categories of pearls this year are Safety and Quality, Management, Clinical, Informatics, and Emergency Medicine — and for students, Career Pearls and Clinical Pearls for Students.

Posters

Poster sessions allow attendees to informally discuss current projects in pharmacy practice with colleagues. This is your opportunity to pick up ideas from hundreds of programs that have worked in other healthcare systems.

NOTE: CPE credit is not offered for poster sessions, unless otherwise stated.

Poster Mentors

Poster mentors volunteer just a few moments of their time to provide one-on-one feedback and guidance to residents and students on their projects. The insightful feedback of practicing professionals helps the students and residents become the rising stars of our profession.

Poster mentors are welcome to volunteer onsite. Visit the poster hall on the day that you plan to volunteer or to find out more information about this important opportunity.



Claiming CE

After participating in the educational activities of this meeting, attendees can process and claim their CE credit through ASHP eLearning at elearning.ashp.org. Attendees claiming their CE online will be able to view their CE statements immediately. **All attendees must complete an evaluation and claim their CE by January 31, 2020.**

NOTE: To ensure your credit hours have been transferred to CPE Monitor, verify the accuracy of your CPE Monitor profile prior to the 60-day deadline. After 60 days, ASHP is unable to transfer your CE credit hours to CPE Monitor.

NABP's CPE Monitor

To process CE, pharmacists and pharmacy technicians must enter an NABP e-Profile ID, birth month, and date in ASHP eLearning. After you have entered this information, it is saved for future CE processing. You may obtain your e-Profile ID at nabp.pharmacy.

Florida Department of Health Continuing Education Credits

Florida-licensed pharmacists must self-report their meeting continuing pharmacy education credit hours to CE Broker. ASHP is not offering Florida Consultant Pharmacy CE at this meeting.

Claiming CE Credit

All continuing pharmacy education credits must be claimed within 60 days of the live session you attend. To be sure your CE is accepted inside of ACPE's 60-day window, **plan to process your CE before January 31, 2020.**

- 1 Log into **ASHP eLearning** at elearning.ashp.org with the email address and password that you used when registering for the Midyear meeting. *The system validates your meeting registration to grant you access to claim credit.*
- 2 Click on **Process CE for the Midyear Clinical Meeting and Exhibition.**
- 3 Enter the Attendance Codes that were announced during the sessions and click **Submit**.
- 4 Click **Claim** for any session.
- 5 Complete the Evaluation.
- 6 Once all requirements are complete, click **Claim Credit** for the appropriate profession.

- **Pharmacists and Pharmacy Technicians:** Be prepared to provide your NABP eProfile ID, birth month, and date (required in order for ASHP to submit your credits to CPE Monitor).
- **Others (international, students, etc.):** Select **ASHP Statement of Completion.**

Exhibitors

Exhibitors should complete the steps below first. If you encounter any issues with the process, stop by the Meeting Info Desk onsite or email elearning@ashp.org.

- 1 Log into www.ashp.org/ExhibitorCE with your ASHP user-name and password.
- 2 Click on the **Get Started** button.
- 3 Select the **2019 Midyear Clinical Meeting and Exhibition** from the dropdown menu.
- 4 Select your exhibiting company from the list of exhibitors. Your screen will change and you will then be logged into **ASHP eLearning**.
- 5 Follow the instructions in the section above this, starting with **Step Two**.

For symposia offered by other CE providers, or BPS Specialty Review and Intensive Courses, follow the directions given with the program materials. If you have any questions, contact the program coordinator.

NEED HELP PROCESSING CE?

Visit the CE Info Center
at Bayside Foyer, Level 1,
or email us at
elearning@ashp.org.

SCHEDULE - AT - A - GLANCE

NOTE: The Mandalay Bay Convention Center includes the South Convention Center, the North Convention Center, and the Events Center. **All ASHP sessions, events, and exhibits will take place in the South Convention Center, unless otherwise noted.** To view a map of the convention center, see page 11.

DEC
SATURDAY

Saturday

KEY

- Educational Sessions (CE)
- Special Events

Time	Event	Location
7:00 a.m. – 5:30 p.m.	Registration	Palm Foyer, Level 3
7:00 a.m. – 6:00 p.m.	Satellite Registration	Mandalay Bay Hotel, Front Desk, Casino Level; MGM Grand, Conference Center Main Lobby (by the Marquee Courtyard Doors), Level 1; Luxor Las Vegas, Atrium Level (next to the Starbucks in the food court)
7:00 a.m. – 6:00 p.m.	● Clinical Skills Competition Semi-Final Round	Banyan B, Level 3
7:30 a.m. – 6:30 p.m.	● Live Pharmacotherapy Specialty Review and Recertification Course (separate fee required)	Islander Ballroom F, Lower Level, North Convention Center
8:00 a.m. – 5:00 p.m.	(Pre-Meeting Workshop) Residency Program Design and Conduct (RPDC): (separate registration and fee required)	
	● RPDC A: PGY1 New Programs	Lagoon F, Level 2
	● RPDC B: PGY1 Existing Programs	Breakers C, Level 2
	● RPDC C: PGY2 New and Existing Programs	Lagoon L, Level 2

DEC
SUNDAY

Sunday

Time	Event	Location
7:00 a.m. – 8:30 a.m.	● Pharmacy Student Forum Advisory Group Meetings (by invitation only)	
7:00 a.m. – 5:30 p.m.	Registration	Palm Foyer, Level 3
7:00 a.m. – 6:00 p.m.	Satellite Registration	Mandalay Bay Hotel, Front Desk, Casino Level; MGM Grand, Conference Center Main Lobby (by the Marquee Courtyard Doors), Level 1; Luxor Las Vegas, Atrium Level (next to the Starbucks in the food court)
7:30 a.m. – 5:00 p.m.	Personnel Placement Service (PPS)	Shoreline, Level 2
7:30 a.m. – 6:30 p.m.	● Live Pharmacotherapy Specialty Review and Recertification Course (separate fee required)	Islander Ballroom F, Lower Level, North Convention Center
8:00 a.m. – 9:00 a.m.	● Strategies to Optimize Clinical and Financial Outcomes: The Payer Perspective	Mandalay Bay J, Level 2
8:00 a.m. – 9:30 a.m.	Concurrent Educational Sessions:	
	● Monitoring of Vancomycin: Don't Gamble on the Therapeutic Window	Oceanside C, Level 2
	● Advancing Pharmacy Practice with Strategic Clinical Leadership	Mandalay Bay L, Level 2
	● Call or Fold on Triple Therapy Post Stent? Antithrombotic Strategies to Avoid a Bust	Oceanside B, Level 2

NOTES

KEY ● Educational Sessions (CE) ● Special Events

All ASHP sessions, events, and exhibits will take place in the Mandalay Bay South Convention Center, unless otherwise noted.

Time	Event	Location
8:00 a.m. – 4:30 p.m.	Programming for Residents and New Practitioners: Career Development	South Seas F, Level 3
8:00 a.m. – 9:30 a.m.	● What They Don't Teach You in Residency: Navigating Workplace Politics	
10:00 a.m. – 11:30 a.m.	● The Problem with Procrastination: How to Peak Your Productivity	
11:30 a.m. – 1:00 p.m.	Lunch on Own	
1:00 p.m. – 2:30 p.m.	● Conversations That Connect: Verbal and Nonverbal Skills to Promote Collaboration	
3:00 p.m. – 4:00 p.m.	● Young Leaders, Big Responsibilities: Preparing New Practitioners for Antimicrobial Stewardship	
8:00 a.m. – 4:30 p.m.	Programming for Residents and New Practitioners: Clinical Development	South Seas B, Level 3
8:00 a.m. – 9:30 a.m.	● When It's OK to Fit a Square Peg into a Round Hole: Exploring the Use of Cancer Medications for Non-Cancer Indications	
10:00 a.m. – 11:00 a.m.	● Does the Bud Stop Here? An Update on Legalization of Medicinal Cannabis and Impact on Pharmacy Practice	
11:30 a.m. – 1:00 p.m.	Lunch on Own	
1:00 p.m. – 2:30 p.m.	● Mind the Gap: Filling in the Holes of All Things Pain	
3:00 p.m. – 4:30 p.m.	● A Rundown of Recent Literature: New Biologic Therapies and Guideline Updates for Asthma Management	
8:00 a.m. – 4:45 p.m.	● 340B University™ (separate registration required)	Premier Ballrooms 312–313, & 316–317, Level 3, MGM Grand
8:00 a.m. – 5:00 p.m.	● (Pre-Meeting Workshop) Basic Statistics: A Nonthreatening Approach to the Use of Statistics in Clinical Trials 2019 <i>(separate registration and fee required)</i>	South Seas J, Level 3
8:30 a.m. – 9:30 a.m.	● First-Time Attendee Welcome Event	Breakers C, Level 2
8:30 a.m. – 5:00 p.m.	ASHP Well-Being Collaborative:	Oceanside A, Level 2
8:30 a.m. – 9:00 a.m.	● Welcome and Overview	
9:00 a.m. – 10:15 a.m.	● Empowering the Healer: Results of the National Academy of Medicine (NAM) Consensus Study	
10:15 a.m. – 10:30 a.m.	● Guided Meditation	
10:30 a.m. – 11:30 a.m.	● Reactions from Interprofessional Panel Participants	
11:30 a.m. – 1:00 p.m.	Lunch on Own	
1:00 p.m. – 4:00 p.m.	● Collaborative Roundtable Discussion	
4:00 p.m. – 5:00 p.m.	● A Mindfulness-Based Approach to Mitigating Burnout in Clinical Pharmacists	
8:30 a.m. – 6:00 p.m.	● Student Programming	See listing, page 50
9:00 a.m. – 10:30 a.m.	● Roundtable and Poster Session: Pediatrics/Neonatal	Bayside B, Level 1
9:00 a.m. – 1:00 p.m.	● Promotional Theaters	See listing, page 119
9:30 a.m. – 10:00 a.m.	● (Management Case Study) Outpatient Transition of Care: Improves Revenue and Decreases Readmission	Mandalay Bay J, Level 2
10:00 a.m. – 11:00 a.m.	● CDC Update 2019: Antibiotic Stewardship in America's Hospitals	Oceanside C, Level 2
10:00 a.m. – 11:15 a.m.	● Hazardous Drug Alert! NIOSH Handling and EPA Waste Updates for 2019	Oceanside D, Level 2
10:00 a.m. – 11:30 a.m.	Concurrent Educational Sessions:	
	● Generating National Impact with the Practice Advancement Initiative (PAI) 2030	Mandalay Bay L, Level 2
	● The Birth of a Bill: Medication Histories for High-Risk Patients	Oceanside B, Level 2
10:15 a.m. – 10:45 a.m.	● (Management Case Study) Integration + Clarification = Standardization to Improve Outcomes and Goals	Mandalay Bay J, Level 2
10:45 a.m. – 12:15 p.m.	● Roundtable and Poster Session: What Is Your Organization Doing About Population Health?	Bayside B, Level 1

NOTES

Time	Event	Location
11:00 a.m. – 11:30 a.m.	● (Management Case Study) Pharmacist-Driven 72-Hour Antimicrobial Time Out	Mandalay Bay J, Level 2
11:15 a.m. – 12:15 p.m.	Concurrent Roundtable Sessions: <ul style="list-style-type: none"> ● Investigational Drug Services ● Leveraging Data to Demonstrate Pharmacist Impact on Value-Based Measures ● Residency Preceptor Skills 	Lagoon G, Level 2 Lagoon L, Level 2 Lagoon H, Level 2
11:45 a.m. – 12:15 p.m.	● (Management Case Study) Advanced Preparation of Chemotherapy to Improve Turn-Around Time in a Large Academic Cancer Center	Mandalay Bay J, Level 2
12:00 p.m. – 1:00 p.m.	● PhORCAS: How Programs Can Optimize the WebAdMIT Portal Within PhORCAS	Mandalay Bay B, Level 2
12:00 p.m. – 4:30 p.m.	Programming for Small & Rural Hospital Practitioners: <ul style="list-style-type: none"> ● Small and Rural Keynote: The Changing Landscape of Rural Hospitals ● Integrating Students and Trainees into Pharmacy Clinical Services in the Small and Rural Setting ● Small But Mighty: Improving Safety with High-Alert Medications ● The Joint Commission Update 2019: Focus on Small and Rural Hospitals 	Oceanside B, Level 2
12:30 p.m. – 1:00 p.m.	● (Management Case Study) Don't Overlook Anticoagulation Safety: Importance of DOAC Monitoring Programs	Mandalay Bay J, Level 2
12:30 p.m. – 1:30 p.m.	● Rapid Diagnostic Technologies and Antimicrobial Stewardship: Better Together	Mandalay Bay L, Level 2
12:30 p.m. – 1:30 p.m.	Concurrent Roundtable Sessions: <ul style="list-style-type: none"> ● Attaining and Maintaining Specialty Pharmacy Accreditation ● Clinical Leadership ● Compounding Practice ● Pain Management Clinical Practice Advancement: Exchanging Tools of the Trade 	Lagoon L, Level 2 Lagoon H, Level 2 Lagoon G, Level 2 Lagoon F, Level 2
12:30 p.m. – 2:00 p.m.	● Roundtable and Poster Session: Critical Care	Bayside B, Level 1
12:30 p.m. – 5:00 p.m.	i3 Integrated Informatics Institute: <ul style="list-style-type: none"> ● Informatics: The Essential Ingredient to Enable Genomic Medicine ● Pharmacy Informatics: A Strategic Business Partner and Third Pillar of Pharmacy Practice ● Interoperability: Multi-Site Connectivity Between Smart Infusion Pumps and Electronic Health Records 	Oceanside D, Level 2
1:00 p.m. – 2:00 p.m.	● New and Prospective Pharmacy Technician Training Program Directors and Instructors Meeting	Mandalay Bay D, Level 2
1:00 p.m. – 2:00 p.m.	● Getting Started and Applying for Accreditation — Finding the Pathway and Taking the Right Steps	Mandalay Bay B, Level 2
1:00 p.m. – 5:00 p.m.	The ASHP 2019 Federal Forum: <ul style="list-style-type: none"> ● Welcome Event ● Federal Forum Keynote: Advancing the Role of the Mental Health Pharmacist — Mental Health, Suicide Prevention, and Substance Abuse ● Contemporary Issues with Cannabinoids! ● Federal Forum: Meet the Researchers Poster Presentations 2019 	Oceanside C, Level 2 Bayside A, Level 1
1:00 p.m. – 3:00 p.m.	● International Information Session	Palm C, Level 3
1:00 p.m. – 3:50 p.m.	● Clinical Skills Competition Final Round Presentations	Banyan B, Level 3

KEY ● Educational Sessions (CE) ● Special Events

All ASHP sessions, events, and exhibits will take place in the Mandalay Bay South Convention Center, unless otherwise noted.

Time	Event	Location
1:15 p.m. – 1:45 p.m.	● (Management Case Study) Addressing Opioid Use Disorder and the Overdose Epidemic at an Urban Academic Medical Center	Mandalay Bay J, Level 2
2:00 p.m. – 2:30 p.m.	● (Management Case Study) Anesthesia Medication Trays: Bigger Is Not Always Better	Mandalay Bay J, Level 2
2:00 p.m. – 3:00 p.m.	● Pharmacy Technician Training: New ASHP/ACPE Pharmacy Technician Education and Training Accreditation Standards For 2020	Mandalay Bay D, Level 2
2:00 p.m. – 3:00 p.m.	● Using PharmAcademic to Support Resident Learning	Breakers C, Level 2
2:00 p.m. – 3:30 p.m.	● Treating Chronic Non-Cancer Pain (CNCP) in an Era of Guidelines and Fatal Drug Interactions	Mandalay Bay L, Level 2
2:00 p.m. – 5:00 p.m.	Satellite Symposia	See listing, page 116
2:00 p.m. – 5:00 p.m.	● State Affiliate Volunteer Conference	Lagoon L, Level 2
2:15 p.m. – 3:45 p.m.	● Roundtable and Poster Session: Emergency Medicine	Bayside B, Level 1
2:30 p.m. – 3:30 p.m.	Concurrent Roundtable Sessions:	
	● Nutrition Support	Lagoon G, Level 2
	● Infectious Diseases	Lagoon F, Level 2
2:45 p.m. – 3:15 p.m.	● (Management Case Study) Cost Containment Through Rule-Based Coding Logic for Carousel Dispensing Technology	Mandalay Bay J, Level 2
3:00 p.m. – 5:00 p.m.	● Residency Program Directors and Preceptors Town Hall: Updates from the Commission on Credentialing	Breakers C, Level 2
3:30 p.m. – 4:00 p.m.	● (Management Case Study) Engagement Drivers for Financial Success in Health-System Pharmacy: How to Drive Financial Success Through Team, Clinical, and Operational Engagement	Mandalay Bay J, Level 2
3:30 p.m. – 5:00 p.m.	● Federal Forum: Meet the Researchers Poster Presentations 2019	Bayside A, Level 1
4:00 p.m. – 5:00 p.m.	● New Practitioners Networking Session	Lagoon F, Level 2
5:00 p.m. – 6:30 p.m.	● LGBTQ Networking Reception	Breakers F, Level 2
5:00 p.m. – 7:00 p.m.	● ASHP Foundation “Midyear Masquerade” Donor Match and Appreciation Reception	Jasmine F, Level 3
5:30 p.m. – 7:00 p.m.	● ASHP Best Practices Award Poster Reception	Reef E, Level 2

Monday

Time	Event	Location
6:00 a.m. – 8:30 a.m.	● Satellite Symposia	See listing, page 116
6:30 a.m. – 9:00 a.m.	● Veterans Affairs Residency Open Forum	Mandalay Bay L, Level 2
7:00 a.m. – 12:00 p.m.	Satellite Registration	Mandalay Bay Hotel, Front Desk, Casino Level; MGM Grand, Conference Center Main Lobby (by the Marquee Courtyard Doors), Level 1; Luxor Las Vegas, Atrium Level (next to the Starbucks in the food court)
7:00 a.m. – 5:30 p.m.	Registration	Palm Foyer, Level 3
7:30 a.m. – 5:00 p.m.	Personnel Placement Service (PPS)	Shoreline, Level 2

continues >

Time	Event	Location
9:00 a.m. – 10:30 a.m.	● Opening Session (featuring Condoleezza Rice)	Events Center, Level 1
10:45 a.m. – 11:45 a.m.	● Student Posters	Bayside A, Level 1
11:00 a.m. – 3:00 p.m.	● Exhibit Hall Open	Bayside C&D, Level 1
11:15 a.m. – 12:15 p.m.	● ACPE Organizational Update and Listening Session 2019	Mandalay Bay J, Level 2
11:15 a.m. – 12:15 p.m.	Concurrent Roundtable Sessions:	
	● Ambulatory Care Pharmacotherapy: Getting with the Guidelines	Lagoon L, Level 2
	● Clinical Decision Support and Analytics	South Seas D, Level 3
	● Controversy in Cannabis: Cannabidiol Products and Health-System Approaches	South Seas J, Level 3
	● Emerging Sciences	Lagoon H, Level 2
	● Pharmacy Technicians	Lagoon F, Level 2
	● Precepting Students	Banyan B, Level 3
	● Psychiatry/Neurology	Lagoon G, Level 2
	● Women in Pharmacy Leadership	South Seas F, Level 3
11:30 a.m. – 1:00 p.m.	● Midday Symposia	See listing, page 116
11:30 a.m. – 2:30 p.m.	Promotional Theaters	See listing, page 119
11:30 a.m. – 4:15 p.m.	Student Programming	See listing, page 50
12:00 p.m. – 1:00 p.m.	Student Posters	Bayside A, Level 1
12:30 p.m. – 1:30 p.m.	ASHP-PAC Contributors Reception	Breakers F, Level 2
12:30 p.m. – 1:30 p.m.	Concurrent Roundtable Sessions:	
	● Anticoagulation	Lagoon G, Level 2
	● Clinical Applications	Lagoon F, Level 2
	● Demonstrating Innovation and Value of Pharmacy in the Ambulatory Care Setting	South Seas F, Level 3
	● Geriatrics	Lagoon H, Level 2
	● Hematology/Oncology	Banyan B, Level 3
	● Specialty Pharmacy Outcomes and Value	South Seas D, Level 3
1:00 p.m. – 4:00 p.m.	● Residency Showcase™	Bayside B, Level 1
2:00 p.m. – 2:30 p.m.	● (Management Case Study) Professionalizing the Pharmacy Technician Workforce	South Seas D, Level 3
2:00 p.m. – 3:15 p.m.	● The Technician Talent Gap: Addressing the Technician Workforce Shortage	Mandalay Bay L, Level 2
2:00 p.m. – 3:30 p.m.	Concurrent Educational Sessions:	
	● Updates in Transplantation: Immunosuppression in Special Populations — Pediatrics, Pregnancy, and Elderly	South Seas J, Level 3
	● 340B Update: Hot Topics and Practice Metrics	Lagoon F, Level 2
	● Evaluating IV Workflow Automation for Improved IV Room Safety and USP <797> Compliance	Mandalay Bay B, Level 2
	● Drug Diversion Prevention: A Health System Imperative	Mandalay Bay D, Level 2
	● Capturing the Needs of the 2030 Patient Today: Artificial Intelligence and the New Pharmacy Value Proposition	Breakers C, Level 2
	● Codes That Make You Tachycardic: Emergent Situations in Special Populations	Mandalay Bay H, Level 2
	● Cracking the Code to a Successful Career in Academic Pharmacy	South Seas F, Level 3

Time	Event	Location
2:00 p.m. – 3:30 p.m.	Live Intensive Studies and Clinical Sessions: <ul style="list-style-type: none"> ● The Use of Ketamine in Critically Ill Adults and Children ● When Life Happens: Managing Diabetes in the Older Adult Across the Continuum of Care 	Mandalay Bay J, Level 2 Oceanside C, Level 2
2:00 p.m. – 3:30 p.m.	Professional Posters	 Bayside A, Level 1
2:00 p.m. – 4:00 p.m.	Concurrent Educational Sessions: <ul style="list-style-type: none"> ● Medication Safety and Quality Pearls 2019 ● Willing to Bet You're Prepared? Don't Gamble with The Joint Commission Standards! 	Oceanside D, Level 2 Oceanside A, Level 2
2:00 p.m. – 4:30 p.m.	● Bridging Gaps and Removing Barriers: Advances and Major Challenges in International Pharmacy Practice (featuring the Donald E. Francke Medal Lecture)	Lagoon L, Level 2
2:45 p.m. – 3:15 p.m.	● (Management Case Study) Saving Money by Implementing a Medication Expiration Management Program	South Seas D, Level 3
3:00 p.m. – 5:00 p.m.	● Therapeutic Debates 2019	South Seas B, Level 3
3:30 p.m. – 4:00 p.m.	● (Management Case Study) Strategies to Increase Pharmacy Technician Retention in a Multi-State, Multi-Hospital Health System	South Seas D, Level 3
3:45 p.m. – 5:15 p.m.	● The Cannabis Conundrum: Panacea or Pandora's Box — A Focus on Pain and Mental Health	Mandalay Bay F, Level 2
4:00 p.m. – 5:00 p.m.	Concurrent Educational Sessions: <ul style="list-style-type: none"> ● Critical Skills: A Case-Based Approach to Immunotherapy-Induced Medical Emergencies in Non-Oncology Settings ● Alcohol Use Disorder: Integrating Pharmacotherapy in Transitions of Care and Primary Care ● Navigating Cost and Revenue Challenges in the Infusion Center ● Now We Got Bad Blood: Treatment of Bloodstream Infections ● Preventing Burnout Through Work Design: A Primer for Healthcare Leaders ● What Alert Fatigue? A Pharmacy-Led Medication Warning Pop-Up Reduction Program ● This Won't Hurt A Bit: Applying Pharmacogenomics to Pain Management 	South Seas J, Level 3 Mandalay Bay J, Level 2 South Seas F, Level 3 Mandalay Bay B, Level 2 Mandalay Bay D, Level 2 Breakers C, Level 2 Mandalay Bay H, Level 2
4:00 p.m. – 5:15 p.m.	● New Drug Approvals with REMS: The Pharmacist's Role in Supporting Safe Use	Mandalay Bay L, Level 2
4:15 p.m. – 4:45 p.m.	● (Management Case Study) Creating an Alternative Performance Review Process	South Seas D, Level 3
4:15 p.m. – 5:15 p.m.	● Turning Challenges into Opportunities: Dealing with Difficult Residents	Lagoon F, Level 2
4:15 p.m. – 5:15 p.m.	● Student Posters	Bayside A, Level 1
4:30 p.m. – 5:30 p.m.	● Community Pharmacy Residency Open Forum	Banyan B, Level 3
4:30 p.m. – 5:30 p.m.	● Regional Residency Conference Planners Meeting	Palm D, Level 3
4:45 p.m. – 5:45 p.m.	● International Registrants Gathering and Reception	Breakers F, Level 2

Tuesday

Time	Event	Location
5:45 a.m. – 7:45 a.m.	● Satellite Symposia	See listing, page 116
7:30 a.m. – 5:00 p.m.	Personnel Placement Service (PPS)	Shoreline, Level 2
7:30 a.m. – 5:30 p.m.	Registration	Palm Foyer, Level 3
8:00 a.m. – 8:30 a.m.	● (Management Case Study) Improving Pharmacy Workforce Wellness and Resiliency	South Seas D, Level 3
8:00 a.m. – 9:30 a.m.	Concurrent Educational Sessions:	
	● Working Through the Unimaginable: Dealing with Loss or Suicide on the Team	Oceanside B, Level 2
	● Changing Lives Over 65: Keeping It Safe with New Beers Criteria	South Seas F, Level 3
	● Innovations in Drug Information Practice and Research 2019	Lagoon L, Level 2
	● Key Policy Issues Impacting Health-System Pharmacists	Mandalay Bay L, Level 2
	● Speaking From the Heart: Great Debates in Cardiology	South Seas B, Level 3
	● The Pain Debates: What ARE the Right Choices for 2020 and Beyond?	Mandalay Bay D, Level 2
	● ALL-IN for Specialty Pharmacy: Minimizing Barriers for Successful Specialty Pharmacies	Breakers C, Level 2
	● Reviewing the Evidence Behind USP <797>	Mandalay Bay F, Level 2
	● Transitions of Care: Let's Get Innovative	Oceanside C, Level 2
	● Standardize 4 Safety (S4S): A New Standard in Medication Concentrations	Oceanside A, Level 2
8:00 a.m. – 10:00 a.m.	Live Intensive Studies and Clinical Sessions:	
8:00 a.m. – 9:00 a.m.	● Bad to the Brain: Impact of Neonatal Medication Use on the Developing Brain	Lagoon F, Level 2
8:00 a.m. – 9:30 a.m.	● Strategies to Maximize the Safety of Your Smart Pumps	Mandalay Bay H, Level 2
8:00 a.m. – 10:00 a.m.	● Hide and Go Seek: Updates in the Management of Acute, Chronic, and Refractory Immune-Related Adverse Effects of Immune Checkpoint Inhibitors	Mandalay Bay J, Level 2
8:00 a.m. – 11:00 a.m.	Residency Showcase™	Bayside B, Level 1
8:45 a.m. – 9:15 a.m.	● (Management Case Study) A Community Hospital's Journey to Combine Bedside Medication Delivery with Medication Reconciliation	South Seas D, Level 3
9:00 a.m. – 11:00 a.m.	Concurrent Educational Sessions:	
	● Pharmacy Forecast 2020: Trends That Will Shape Your Future	Mandalay Bay B, Level 2
	● Management Pearls 2019	Oceanside D, Level 2
9:30 a.m. – 10:00 a.m.	● (Management Case Study) A Student-Augmented Centralized Call Service to Improve Medication Adherence Rates	South Seas D, Level 3
9:30 a.m. – 10:45 a.m.	● Moody About Medications in Pregnancy and Lactation	Lagoon F, Level 2
9:30 a.m. – 5:30 p.m.	● Student Programming	See listing, page 50
10:00 a.m. – 11:00 a.m.	● Ask the Pharmacy Residency Accreditation Surveyors Roundtable Discussion (repeats at 2:00 p.m.)	Lagoon G, Level 2
10:00 a.m. – 11:00 a.m.	Concurrent Educational Sessions:	
	● Clostridium difficile Infection: Treatment, Fecal Microbiota Transplant (FMT), and Beyond	Lagoon L, Level 2
	● A Little Pain for a Lot of Gain: Unique Strategies to Reduce Vaccine-Preventable Diseases	South Seas F, Level 3
	● Code Silver: Are You Prepared for an Active Shooter?	Oceanside B, Level 2

continues >

Time	Event	Location
	<ul style="list-style-type: none"> ● A Roadmap of Over-The-Counter (OTC) and Herbal Analgesic Therapies for Pain ● Call Me, Beep Me If You Wanna Reach Me! Connecting with Our Patients Through Technology ● More Money! Navigating Timelines and Standards to Increase Inpatient Revenue ● Navigating Diabetes Clinical Guidelines: A Patient-Centered Roadmap ● The Pursuit of State-Level Provider Status: We Got It! Now What? ● Compounding: FDA Policy Updates 	Mandalay Bay D, Level 2 Breakers C, Level 2 Oceanside A, Level 2 Oceanside C, Level 2 Mandalay Bay L, Level 2 South Seas B, Level 3
10:00 a.m. – 11:00 a.m.	Live Intensive Studies and Clinical Sessions:	
	<ul style="list-style-type: none"> ● How Low Do You Go? Applying the 2018 American College of Cardiology/American Heart Association (ACC/AHA) Cholesterol Guidelines to Individual Patients 	Mandalay Bay H, Level 2
10:15 a.m. – 10:45 a.m.	● (Management Case Study) Three Years Later: Pharmacist Discharge Counseling Sustainability	South Seas D, Level 3
10:45 a.m. – 11:45 a.m.	Student Posters	Bayside A, Level 1
11:00 a.m. – 3:00 p.m.	● Exhibit Hall Open	Bayside C&D, Level 1
11:15 a.m. – 12:15 p.m.	Concurrent Roundtable Sessions:	
	<ul style="list-style-type: none"> ● High-Cost Medications and Organizational Decision-Making ● Immunology/Transplant ● Internal Medicine ● Pharmacoconomics and Drug Policy Development ● Small and Rural Hospitals ● Specialty Pharmacy Workforce Development 	Lagoon L, Level 2 South Seas J, Level 3 Lagoon H, Level 2 Banyan B, Level 3 Lagoon F, Level 2 South Seas F, Level 3
11:30 a.m. – 1:00 p.m.	Midday Symposia	See listing, page 116
11:30 a.m. – 2:30 p.m.	Promotional Theaters	See listing, page 119
12:00 p.m. – 1:00 p.m.	Student Posters	Bayside A, Level 1
12:30 p.m. – 1:30 p.m.	Concurrent Roundtable Sessions:	
	<ul style="list-style-type: none"> ● Cardiology ● Medication Safety ● Navigating the Reimbursement System: Learning How to Pay the Bills ● Operations and Automation 	Banyan B, Level 3 South Seas F, Level 3 South Seas J, Level 3 Lagoon L, Level 2
1:00 p.m. – 4:00 p.m.	● Residency Showcase™	Bayside B, Level 1
2:00 p.m. – 2:30 p.m.	● (Management Case Study) Standardization and Centralized Processing of Pharmacy Emergency Trays in a Multi-Hospital Integrated Healthcare System	South Seas D, Level 3
2:00 p.m. – 3:00 p.m.	● Ask the Pharmacy Residency Accreditation Surveyors Roundtable Discussion (repeat from 10:00 a.m.)	Lagoon G, Level 2
2:00 p.m. – 3:30 p.m.	Concurrent Educational Sessions:	
	<ul style="list-style-type: none"> ● Meeting the Standards for Radiopharmaceuticals in USP Chapter <825>: What You Need to Know to Get Started ● Pharmacy Technician Workforce: Advanced Credentials to Support Innovative Roles ● Keeping the Doors Open: Using Metrics and Benchmarks to Sustain Your Ambulatory Care Practice 	Lagoon L, Level 2 South Seas J, Level 3 Mandalay Bay B, Level 2

Time	Event	Location
> continued	<ul style="list-style-type: none"> ● The Safety of Intravenous Drug Delivery Systems: Update on Issues Since the 2009 Consensus Development Conference ● Ethical Prescribing in the Era of Expensive Medications and Drug Shortages ● Post ICU Care: A Patient's Perspective and an Opportunity for Pharmacists ● Influenza Treatment Updates 2019 	Lagoon F, Level 2 Mandalay Bay L, Level 2 Mandalay Bay D, Level 2 Oceanside A, Level 2
2:00 p.m. – 3:30 p.m.	Professional and Fellows Posters	Bayside A, Level 1
2:00 p.m. – 3:30 p.m.	ASHP Opioid Task Force Town Hall	Banyan B, Level 3
2:00 p.m. – 4:00 p.m.	Clinical Pearls 2019	South Seas B, Level 3
2:00 p.m. – 4:00 p.m.	Live Intensive Studies and Clinical Sessions:	
2:00 p.m. - 3:30 p.m.	<ul style="list-style-type: none"> ● Combating the #1 Killer in America: New Evidence and Guidelines for Primary Prevention of Cardiovascular Disease (2:00 p.m. – 3:30 p.m.) 	Oceanside C, Level 2
2:00 p.m. - 4:00 p.m.	<ul style="list-style-type: none"> ● Anticoagulation Therapy: Considerations in the Setting of Malignancy 	Mandalay Bay J, Level 2
2:00 p.m. – 5:15 p.m.	Afternoon of Innovation and Science:	Breakers C, Level 2
2:00 p.m. – 3:15 p.m.	<ul style="list-style-type: none"> ● Autonomous Delivery: Your Drone Has Arrived! 	
3:45 p.m. – 5:15 p.m.	<ul style="list-style-type: none"> ● How Disruptive Innovation Is Changing the Healthcare and Pharmacy Ecosystem 	
2:45 p.m. – 3:15 p.m.	<ul style="list-style-type: none"> ● (Management Case Study) Upgrading Pharmacy Carousel Technology at an Academic Medical Center 	South Seas D, Level 3
3:30 p.m. – 4:00 p.m.	<ul style="list-style-type: none"> ● (Management Case Study) Modification of Radio Frequency Identification (RFID) Tagged Medication Workflow to Avoid Waste and Improve Cost Savings 	South Seas D, Level 3
4:00 p.m. – 5:00 p.m.	Live Intensive Studies and Clinical Sessions:	
	<ul style="list-style-type: none"> ● Self-Care Considerations in Older Adults: Integrating Complementary and Alternative Medicine 	Oceanside C, Level 2
4:00 p.m. – 5:15 p.m.	Concurrent Educational Sessions:	
	<ul style="list-style-type: none"> ● The First Order: Detecting and Overcoming Resistant Hypertension in Ambulatory Care ● Managing the Crisis You Didn't Prevent: Leadership and Medication Safety ● Conflict Resolution: Strategies for the Practicing Pharmacist and Pharmacy Technician ● Home to Stay: Successful Transitions for Patients on IV Therapy ● Water, Water, Everywhere, But Not a Drop to Drink: Distribution of Intravenous Fluid Administration ● The Rise of the Biosimilars: Increasing Use on a Broad Scale ● Let's Gain Control: Update on Status Epilepticus Treatment in Adults and Pediatrics ● You Don't Know How It Feels: Empathic Communication Skills for Pharmacy Practice 	Mandalay Bay D, Level 2 South Seas J, Level 3 South Seas F, Level 3 Lagoon F, Level 2 Lagoon L, Level 2 Mandalay Bay L, Level 2 Mandalay Bay B, Level 2 Oceanside A, Level 2
4:15 p.m. – 4:45 p.m.	<ul style="list-style-type: none"> ● (Management Case Study) Centralized Electronic Prior Authorizations in a Large Healthcare System 	South Seas D, Level 3
4:15 p.m. – 5:15 p.m.	<ul style="list-style-type: none"> ● Infectious Diseases Hot Topics 2019 	Oceanside D, Level 2
4:15 p.m. – 5:45 p.m.	<ul style="list-style-type: none"> ● ASHP-PAC Happy Hour 	Breakers F, Level 2
4:30 p.m. – 5:30 p.m.	<ul style="list-style-type: none"> ● Managed Care Pharmacy Residency Open Forum 	Palm B, Level 3
5:15 p.m. – 6:15 p.m.	<ul style="list-style-type: none"> ● Gathering of Residents and Resident Preceptors, featuring past Harvey A.K. Whitney Award Recipients 	South Pacific F, Lower Level, North Convention Center
5:30 p.m. – 7:30 p.m.	<ul style="list-style-type: none"> ● Satellite Symposia 	See listing, page 116
8:00 p.m. – Midnight	<ul style="list-style-type: none"> ● Students' Night Out 	Light Nightclub, Mandalay Bay Hotel

KEY ● Educational Sessions (CE) ● Special Events

All ASHP sessions, events, and exhibits will take place in the Mandalay Bay South Convention Center, unless otherwise noted.

Wednesday

Time	Event	Location
7:30 a.m. – 5:00 p.m.	Personnel Placement Service (PPS)	Shoreline, Level 2
7:30 a.m. – 5:15 p.m.	Registration	Palm Foyer, Level 3
8:00 a.m. – 8:30 a.m.	● (Management Case Study) Using Six Sigma Methodology to Optimize Electronic Workflow for Pharmacy Charges	South Seas D, Level 3
8:00 a.m. – 9:30 a.m.	Live Intensive Studies and Clinical Sessions: ● Is Pediatric Anticoagulation Experiencing a Paradigm Shift? ● JNC8 vs. 2017 American College of Cardiology/American Heart Association (ACC/AHA) Hypertension Guidelines: Which Should We Follow?	Mandalay Bay J, Level 2 Oceanside C, Level 2
8:00 a.m. – 9:30 a.m.	Concurrent Educational Sessions: ● Medications and Increased Risk of Depression and Suicidality ● National Quality Measures: A Value Proposition ● Get Paid! Transitional Care Management, Medicare Annual Wellness, and Medication Therapy Management Services ● Results From the 2019 ASHP National Survey: The Current State of Pharmacy Practice in Hospitals and Health Systems ● What's New in Critical Care Pharmacy Practice ● ISMP Medication Safety Update for 2020 ● Measuring the Immeasurable: Clinical Pharmacy Productivity ● Emergency Medicine Pearls 2019 ● I Want That! Technology Innovation 2019 ● Artificial Intelligence Is Shaping the Future of Healthcare: Three Perspectives ● Targeting Success with USP Compounding Standards <795>, <797>, and <800>	Mandalay Bay B, Level 2 Lagoon L, Level 2 South Seas J, Level 3 Mandalay Bay L, Level 2 Mandalay Bay D, Level 2 Oceanside B, Level 2 South Seas F, Level 3 Oceanside D, Level 2 Breakers C, Level 2 Oceanside A, Level 2 Lagoon F, Level 2
8:30 a.m. – 9:30 a.m.	● Resident Posters	Bayside A, Level 1
8:45 a.m. – 9:15 a.m.	● (Management Case Study) Balancing Act: Implementation of a Proactive Sterile Compounding Environmental Monitoring Program and Action Plan Tool	South Seas D, Level 3
9:45 a.m. – 10:45 a.m.	● Wednesday Morning Conversation with Julia Louis-Dreyfus	Mandalay Bay H, Level 2
11:00 a.m. – 12:00 p.m.	● Resident Posters	Bayside A, Level 1
11:00 a.m. – 2:00 p.m.	● Exhibit Hall Open	Bayside C&D, Level 1
11:15 a.m. – 12:15 p.m.	Concurrent Roundtable Sessions: ● Caregiver Engagement and Conflict Management ● Informatics Professional Development ● Workforce Well-Being and Resilience	Banyan B, Level 3 Lagoon G, Level 2 South Seas F, Level 3
11:15 a.m. – 1:45 p.m.	● Promotional Theaters	See listing, page 119
11:30 a.m. – 1:00 p.m.	● Midday Symposia	See listing, page 116
12:30 p.m. – 1:30 p.m.	● Resident Posters	Bayside A, Level 1
2:00 p.m. – 2:30 p.m.	● (Management Case Study) Registering as a 503B Outsourcer: Journey to the Possible!	South Seas D, Level 3

Time	Event	Location
2:00 p.m. – 3:00 p.m.	● Resident Posters	Bayside A, Level 1
2:00 p.m. – 3:15 p.m.	Beyond Generational Differences: Optimizing Educational Strategies for Today's Learners	Lagoon L, Level 2
2:00 p.m. – 3:30 p.m.	Concurrent Educational Sessions: <ul style="list-style-type: none"> ● Controversies in Treating Infective Endocarditis (IE) in People Who Inject Drugs ● Let's Be Blunt: Cannabis Clinical and Legal Conundrums ● Developing Resilient Residencies to Support Preceptors and Learners ● From Insight to Action: Developing a Data-Driven Culture ● Informatics Pearls 2019: Bytes of Informatics ● Medication-Assisted Treatment for Opioid Use Disorder (OUD): Solving the Puzzle with Clinical Pharmacist Providers 	Mandalay Bay J, Level 2 Mandalay Bay D, Level 2 Mandalay Bay L, Level 2 Breakers C, Level 2 Oceanside D, Level 2 Mandalay Bay B, Level 2
2:00 p.m. – 4:00 p.m.	Live Intensive Studies and Clinical Sessions: <ul style="list-style-type: none"> ● Controversies in Treating Infective Endocarditis (IE) in People Who Inject Drugs ● Don't Sugar Coat It: Hot Topics in the Management of Type 1 and Type 2 Diabetes Mellitus 	Mandalay Bay J, Level 2 Oceanside C, Level 2
2:00 p.m. – 4:00 p.m.	● Let's Ask the Consultants: Joint Commission Medication Management Update 2020 — Strategies for Success	Oceanside A, Level 2
2:45 p.m. – 3:15 p.m.	● (Management Case Study) Justification of Pharmacy Services in a Limb Salvage Clinic	South Seas D, Level 3
3:00 p.m. – 5:00 p.m.	● Drug Reimbursement 2020: Who Are the Players and What's Involved?	Lagoon F, Level 2
3:15 p.m. – 4:15 p.m.	● Resident Posters	Bayside A, Level 1
3:30 p.m. – 4:00 p.m.	● (Management Case Study) Testing the Value of Intelligent Analytics for Drug Diversion	South Seas D, Level 3
3:45 p.m. – 5:00 p.m.	● How to Maintain Effective Preceptor-Preceptee and Mentor-Mentee Relationships	Lagoon L, Level 2
4:00 p.m. – 5:00 p.m.	Concurrent Educational Sessions: <ul style="list-style-type: none"> ● Goldilocks and Gram-Negative Resistance: Getting Stewardship Just Right ● Up in Smoke: The Facts and Fiction Surrounding Vaping ● Management of Anticoagulation in the Peri-Procedural Period (MAPPP) via App as Active Clinical Decision Support ● Here's the DIRT (Drug Investigation Response Team): Improving Diversion Detection Strategies 	South Seas F, Level 3 Mandalay Bay D, Level 2 Breakers C, Level 2 Mandalay Bay B, Level 2

KEY ● Educational Sessions (CE) ● Special Events

All ASHP sessions, events, and exhibits will take place in the Mandalay Bay South Convention Center, unless otherwise noted.

Thursday

Time	Event	Location
8:30 a.m. – 12:00 p.m.	Registration	Palm Foyer, Level 3
9:00 a.m. – 10:30 a.m.	Concurrent Educational Sessions: <ul style="list-style-type: none"> ● Make Sure the Genes Fit: Pharmacogenomics Simplified ● Stewardship Stew: More Than Just Antibiotic Gumbo 	Lagoon L, Level 2 Mandalay Bay L, Level 2
9:00 a.m. – 12:00 p.m.	● Creating and Sharing Stories to Inspire Change	Breakers C, Level 2
10:45 a.m. – 11:45 a.m.	Concurrent Educational Sessions: <ul style="list-style-type: none"> ● Updates in the Use of Direct Oral Anticoagulants (DOACs) in Special Populations ● Updates in the Management of Sepsis and Septic Shock 	Mandalay Bay J, Level 2 Mandalay Bay D, Level 2
12:00 p.m. – 1:30 p.m.	Concurrent Educational Sessions: <ul style="list-style-type: none"> ● The Inpatient with Reported Penicillin Allergy: Alternative Management Approaches ● Digging Through the Updates for Acute Ischemic Stroke: Clear as Mud? 	Lagoon L, Level 2 Mandalay Bay L, Level 2
1:00 p.m. – 3:00 p.m.	● How to Do Vulnerability in the Workplace (And It's Not How You Think)	Breakers C, Level 2
1:30 p.m. – 3:00 p.m.	● Drug Dosing in Morbid Obesity: One Size Does Not Fit All	Mandalay Bay D, Level 2
2:00 p.m. – 3:00 p.m.	● Evaluate, Expand, Evolve: Advancing Antimicrobial Stewardship Practices Across Multiple Practice Settings	Lagoon L, Level 2

FREE REGISTRATION!

Stay through the end of the Thursday sessions for a chance to win a free registration to the 2020 Midyear Clinical Meeting in New Orleans.

One lucky winner will be randomly selected

Just drop your badge in the designated locations on Thursday

SPECIAL EVENTS & ACTIVITIES

NOTE: The Mandalay Bay Convention Center includes the South Convention Center, the North Convention Center, and the Events Center. **All ASHP sessions, events, and exhibits will take place in the South Convention Center, unless otherwise noted.** To view a map of the convention center, see page 11.

● SUNDAY, DECEMBER 8

8:30 a.m. – 9:30 a.m.

Breakers C, Level 2

► First-Time Attendee Welcome Event

With some 25,000 pharmacy professionals in attendance and countless opportunities and activities, the Midyear Clinical Meeting can be especially overwhelming for first-time attendees. Join hundreds of other “first-timers” on Sunday morning for our First-Time Attendee Welcome Event. Hear from ASHP staff, leadership, and experienced members as they share insights and advice to make the most of the meeting and all of the opportunities for education and networking.

8:30 a.m. – 5:00 p.m.

Oceanside A, Level 2

► ASHP Well-Being Collaborative

Evidence-Based Solutions to Promote Well-Being: Empowering Interprofessional Teams to Advance Patient Care

Join ASHP for an innovative, interactive, and solutions-based event to kick off your 2019 Midyear meeting experience. The day will start with the release of results from a groundbreaking National Academy of Medicine (NAM) consensus study to identify evidence-based solutions to interprofessional workforce and will end with collaborative solution-building discussions.

ASHP is a sponsoring member and pharmacy voice to the National Academy of Medicine Action Collaborative on Clinician Well-Being and Resilience. This multi-year interprofessional initiative is raising the visibility of workforce burnout, improving baseline understanding of challenges to well-being, and advancing evidence-based solutions to improve patient care by caring for the caregiver. At the ASHP Well-Being Collaborative, we will build on this work and:

- Review the causes of burnout and consequences for patient care providers and patients.
- Explore components of training, composition, and function of interprofessional teams to maximize care.
- Identify evidence-based systems interventions for patient care providers to mitigate risk.
- Share recommendations with ASHP to improve patient care by supporting the well-being of the workforce.

Interprofessional panel participants from sponsoring organizations of the NAM Action Collaborative on Clinician Well-Being and Resilience will join ASHP members to foster shared solutions. The day will conclude with an ACPE-accredited session on mindfulness.

For more information, see page 66.

10:00 a.m. – 11:30 a.m.

Mandalay Bay L, Level 2

► Generating National Impact with the Practice Advancement Initiative (PAI) 2030

Nearly a decade after the initial PAI event, rising costs, changing workforce and business models, technological and therapeutic advances, evolution of practice settings, and other factors continue to disrupt healthcare. As a profession we must evaluate a new set of concepts and recommendations to meet the future demands of patient care coupled with the continued advancement of pharmacy practice. ASHP sought to critically revise the original PAI recommendations, projecting the next 10 years and beyond, to align with ASHP’s Vision that medication use will be optimal, safe, and effective for all people all of the time. This session will review and describe the new recommendations.

For more information, see page 68.

12:30 p.m. – 5:00 p.m.

Oceanside D, Level 2

► Integrated Informatics Institute

We’ve upgraded! Advances in technology connect all specialties and facets of both practice and personal life. New this year, the 2019 Midyear Clinical Meeting will feature Integrated Informatics Institute content across the meeting. The Midyear meeting will include a total of 13 sessions providing informatics- and technology-focused education. The institute will kick off on Sunday, December 8 with featured programming from 12:30 p.m. to 5:00 p.m. Gather with like-minded informatics professionals to start off your Midyear meeting experience.

For more information, see page 72.

FREE  **WI-FI**

Complimentary Wi-Fi access is available in the North and South Convention Center meeting rooms, public space, and Bayside Halls A & B. Select the network **ASHPMCM19** on your device and use the Conference Access Code **lasvegas19**



1:00 p.m. – 2:15 p.m.

Oceanside C, Level 2

► **The ASHP 2019 Federal Forum:
Welcome and Keynote**

The healthcare landscape continues to evolve. Millions of Americans, including clinicians, patients, and patients' families, are in need of new ways of providing support for pervasive healthcare issues. These issues include suicide prevention, substance abuse, and the use of cannabinoids. With substance abuse being among the leading causes of death in the United States and 11 states now having legalized either medical or recreational use of marijuana and its derivatives, there is an urgent need to educate healthcare workers and consumers as to the scientific facts surrounding these issues. Join your federal colleagues in this informative session for an in-depth look at how pharmacists can have an impact.

For more information, see page 73.

1:00 p.m. – 3:00 p.m.

Palm C, Level 3

► **International Information Session**

This session is intended for international pharmacists seeking more information about ASHP products, services, consulting, residency accreditation, or hospital pharmacy accreditation.

2:00 p.m. – 5:00 p.m.

Lagoon L, Level 2

► **State Affiliate Volunteer Leaders Conference**

All state affiliate volunteer leaders (officers, board members, staff, committee chairs, committee members, etc.) and executives are invited to participate. This year's State Affiliate Volunteer Leaders Conference is designed to provide an opportunity for state affiliate organizations to share their ideas and practices on approaches to advocacy. The conference will focus on advocacy using grassroots efforts, partnering with other organizations, and using lobbyists for those with more formal arrangements.

5:00 p.m. – 6:30 p.m.

Breakers F, Level 2

► **LGBTQ Networking Reception**

ASHP is hosting an LGBTQ professional networking event to provide meeting attendees the chance to gather, connect, and learn about ASHP's activities to promote LGBTQ patient-centered care.

5:00 p.m. – 7:00 p.m.

Jasmine F, Level 3

► **ASHP Foundation "Midyear Masquerade" Donor Match and Appreciation Reception**

Join us on Sunday, December 8 for a fun and entertaining "Midyear Masquerade" donor match and appreciation reception — and unmask the future of pharmacy.

Your gifts will ensure that students, new practitioners, experienced pharmacists, and pharmacy technicians benefit

through leadership development programs, research grants, educational tools, and access to mentors who can share a wealth of knowledge and expertise in pharmacy practice. Our corporate supporters will generously match all donations, dollar for dollar, doubling the impact of your gifts!



**SAVE 10% PLUS FREE SHIPPING
(DOMESTIC AND INTERNATIONAL)**

**ASHP STORE
& MEMBERSHIP
CENTER**

MANDALAY BAY FOYER | LEVEL 2

Visit us onsite to purchase and learn more about ASHP's latest releases, programs, and services. Exclusively during the meeting, attendees will receive special discounts and a free gift with purchase or renewal.*

Hours:

Saturday & Sunday	Wednesday
7:00 a.m.–5:30 p.m.	7:30 a.m.–5:15 p.m.
Monday	Thursday
7:00 a.m.–6:00 p.m.	8:30 a.m.–3:15 p.m.
Tuesday	
7:30 a.m.–6:00 p.m.	

*Some exclusions may apply

The event is open to all, and the Foundation welcomes donations of all sizes. Every dollar makes a difference! If you can't join us, please consider visiting apps.ashp.org/foundation to make a gift during the campaign.

5:30 p.m. – 7:00 p.m.

Reef E, Level 2

► **ASHP Best Practices Award Poster Reception**

This poster reception will honor the awardees of the 2019 ASHP Best Practices Award. The awardees will present posters of programs that have been nationally recognized to demonstrate best practices in pharmacy practice, especially in areas that significantly improve the quality of patient care. Join us for a unique opportunity to learn about best practices and to honor the award recipients during this reception.



Awarded by ASHP and sponsored by Amgen and the ASHP Foundation

OPENING SESSION

MONDAY, DECEMBER 9

9:00 a.m. - 10:30 a.m.

Events Center, Level 1

OPENING SESSION

No Higher Honor: A Conversation with Condoleezza Rice

Condoleezza Rice is currently the Denning Professor in Global Business and the Economy at the Stanford Graduate School of Business; the Thomas and Barbara Stephenson Senior Fellow on Public Policy at the Hoover Institution; and a professor of Political Science at Stanford University. She is also a founding partner of RiceHadleyGates, LLC.

From January 2005 to 2009, Rice served as the 66th Secretary of State of the United States, the second woman and first African American woman to hold the post. Rice also served as President George W. Bush's Assistant to the President for National Security Affairs (National Security Advisor) from January 2001 to 2005, the first woman to hold the position.

Rice served as Stanford University's Provost from 1993 to 1999, during which she was the institution's chief budget and academic officer. As Provost, she was responsible for a \$1.5 billion annual budget and the academic program involving 1,400 faculty members and 14,000 students. In 1997, she also served on the Federal Advisory Committee on Gender — Integrated Training in the Military.

From 1989 through March 1991, Rice served on President George H.W. Bush's National Security Council staff. She served as Director; Senior Director of Soviet and East European Affairs; and Special Assistant to the President for National Security Affairs. In 1986, while an international affairs fellow of the Council on Foreign Relations, Rice also served as Special Assistant to the Director of the Joint Chiefs of Staff.

As professor of Political Science, Rice has been on the Stanford faculty since 1981 and has won two of the highest teaching honors — the 1984 Walter J. Gores Award for Excellence in Teaching and the 1993 School of Humanities and Sciences Dean's Award for Distinguished Teaching.

She has authored and coauthored numerous books, including three bestsellers, *Democracy: Stories from the Long Road to Freedom* (2017); *No Higher Honor: A Memoir of My Years in Washington* (2011); and *Extraordinary, Ordinary People: A Memoir of Family* (2010). She also wrote *Germany Unified and Europe Transformed: A Study in Statecraft* (1995) with Philip Zelikow; *The Gorbachev Era* (1986) with Alexander Dallin; and *Uncertain Allegiance: The Soviet Union and the Czechoslovak Army* (1984).

Since 2009, Rice has served as a founding partner at RiceHadleyGates, LLC, an international strategic consulting firm based in Silicon Valley and Washington, D.C. The firm works with senior executives of major companies to implement strategic plans and expand in emerging markets. Other partners include former National Security Advisor Stephen J. Hadley and former Secretary of Defense Robert M. Gates.

Rice currently serves on the boards of Dropbox, an online-storage technology company; C3, an energy software company; and Makena Capital, a private endowment firm. In addition, she is vice chair of the board of governors of the Boys and Girls Clubs of America; a member of the board of the Foundation for Excellence in Education; and a trustee of the Aspen Institute. Previously, Rice served on various additional boards, including those of the George W. Bush Institute; the Commonwealth Club; KiOR, Inc.; the Chevron Corporation; the Charles Schwab Corporation; the Transamerica Corporation; the Hewlett-Packard Company; the University of Notre Dame; the John F. Kennedy Center for the Performing Arts; and the San Francisco Symphony Board of Governors.

In 2013, Rice was appointed to the College Football Playoff Committee, formerly the Bowl Championship Series.

Born in Birmingham, Ala., Rice earned her bachelor's degree in political science, *cum laude* and Phi Beta Kappa, from the University of Denver; her master's from the University of Notre Dame; and her Ph.D. from the Graduate School of International Studies at the University of Denver.

Rice is a Fellow of the American Academy of Arts and Sciences and has been awarded 14 honorary doctorates. She currently resides in Stanford, Calif.





Pawlicki

► Presidential Address

ASHP President **Kathleen S. Pawlicki, M.S., R.Ph., FASHP**, Vice President and Chief Pharmacist, Beaumont Health, Warren, MI

CEO Award for Staff Excellence

Presented by ASHP CEO Paul W. Abramowitz, Pharm.D., Sc.D. (Hon.), FASHP

The CEO Award for Staff Excellence recognizes an individual staff member who, in addition to performing all of his/her normal job duties with excellence, has also demonstrated exceptional initiative in contributing to ASHP. Specifically, this award recognizes a staff member who has provided an outstanding contribution by leading or developing a project of significant value for ASHP and has demonstrated sustained excellence over time to the advancement of ASHP.

Awardees:

David F. Chen, Senior Director, Section of Pharmacy Practice Leaders

Verna L. Reed, Director, Customer Relations and Materials Management

Acknowledgement of the 2019 ASHP Chief Executive Officer's Award for Courageous Service

The CEO's Award for Courageous Service recognizes individuals or groups of individuals who go beyond the call of duty to serve patients or assist pharmacists in serving patients, such as under emergency conditions or in times of natural disaster or other catastrophic events. The 2019 award honors those who engaged in specific incidents of inspiring, unselfish service under adverse conditions during Hurricanes Florence, Irma, Maria, Michael, the California Wildfires, and the tragic shootings at Mercy Hospital in Chicago.

Announcement of the 2019 ASHP National Clinical Skills Competition Winning Team

The ASHP National Clinical Skills Competition is a battle of the best and brightest showcasing their clinical skills and knowledge. 140 teams from the school-level competitions at each college of pharmacy competed in the semi-final round on Saturday. The top 10 teams advanced to compete in the final round, oral presentation, on Sunday.

Acknowledgment of the Donald E. Francke Medalist

The ASHP Board of Directors' Donald E. Francke Medal honors pharmacists who have made significant international contributions to advance pharmacy practice.

For more information, see page 37.

Albert I. Wertheimer, B.S.Pharm., Ph.D., M.B.A., Professor, Nova Southeastern University, College of Pharmacy and Visiting Professor, Touro College of Pharmacy

ASHP Board of Directors' Awards

ASHP Board of Directors Award of Honor

The ASHP Board of Directors Award of Honor recognizes individuals outside the pharmacy discipline who have made extraordinary national or worldwide contributions to the health field.

Arjun Srinivasan, M.D., CAPT, U.S. Public Health Service and Associate Director for Healthcare-Associated Infection Prevention Programs, Division of Healthcare Quality Promotion, National Center for Emerging and Zoonotic Infectious Disease, Centers for Disease Control and Prevention

Arjun Srinivasan, M.D., is Associate Director for Healthcare-Associated Infection Prevention Programs in the Division of Healthcare Quality Promotion at the Centers for Disease Control and Prevention's (CDC's) National Center for Emerging and Zoonotic Infectious Diseases in Atlanta. Srinivasan is also a captain in the U.S. Public Health Service.

An infectious disease physician, Srinivasan oversees several CDC programs aimed at eliminating healthcare-associated infections and improving antibiotic use. He leads CDC's work to improve antibiotic prescribing in hospitals and works with a team of CDC experts researching new strategies to eliminate healthcare-associated infections. His team worked with the Institute of Healthcare Improvement to develop a tool to improve antibiotic prescribing and reduce errors in healthcare facilities. He previously led the CDC's healthcare outbreak investigation unit, which helps hospitals and other healthcare facilities track down bacteria to prevent them from infecting other patients.

Before joining the CDC, Srinivasan was Assistant Professor of Medicine in the Infectious Diseases Division at the Johns Hopkins School of Medicine and a staff physician at the Johns Hopkins University Hospital. He is the founder of the Johns Hopkins Antibiotic Management Program.

Srinivasan earned his medical degree at the Vanderbilt University School of Medicine. He completed an internal medicine residency and infectious disease fellowship at the Johns Hopkins University Hospital. He is an Adjunct Assistant Professor of Medicine at Emory University Medical Center and sees patients at the Atlanta Veterans Affairs Medical Center.

Srinivasan has authored numerous articles in peer-reviewed journals on his research in health-care epidemiology, infection control, and antibiotic use and resistance. He is a member of the Infectious Diseases Society of America and the Society for Healthcare Epidemiology of America. In 2008, he received the Investigator Award from the Society for Healthcare Epidemiology, and in 2012, he was inducted into the Johns Hopkins Society of Scholars.



ASHP Board of Directors' Distinguished Leadership Award

The ASHP Board of Directors' Distinguished Leadership Award recognizes pharmacists who have achieved excellence in pharmacy practice leadership in acute and ambulatory care settings.

RADM (Ret.) Pamela Schweitzer, Pharm.D., BCACP, Assistant Surgeon General and 10th Chief Pharmacy Officer, U.S. Public Health Service

Rear Admiral (RADM) Pamela Schweitzer retired in September 2018 after a four-year term as the Assistant Surgeon General and 10th Chief Pharmacist Officer (CPO) of the U.S. Public Health Service (USPHS). She was the USPHS's first female Pharmacy CPO.

As CPO, Schweitzer was responsible for providing leadership and coordination of USPHS pharmacy programs and professional affairs for the Office of the Surgeon General and the Department of Health & Human Services.

Throughout her pharmacy career, Schweitzer has developed lasting partnerships that improved the ability of federal pharmacists to serve the missions of their respective organizations. She began her career in the Commissioned Corps with the Indian Health Service (IHS) at Pine Ridge Indian Hospital in Oglala Lakota County, S.D. She also served at the VA Medical Center in Hot Springs, S.D. Her final duty station was at the Centers for Medicare & Medicaid Services in Baltimore.

Schweitzer has received several awards in recognition of her leadership contributions, including the Surgeon General Exemplary Service Medal (2018), the National Council for Prescription Drug Program Champion Award (2017), the ASHP William A. Zellmer Lecture Award (2016), the University of California San Francisco (UCSF) Alumnus of the Year (2015), and the UCSF Excellence Award (2015). She is also a recipient of the Howard University College of Pharmacy Distinguished Pharmacy Leaders Award (2014), the American Pharmacists Association Distinguished Federal Pharmacist Award (2014), the IHS Senior Pharmacist of the Year Award (2013), and the USPHS Mary Louise Anderson Leadership Award (2012).

Schweitzer earned a bachelor's degree in biological sciences from California State University Fullerton and a doctor of pharmacy from the University of California San Francisco School of Pharmacy. She completed an Ambulatory Care/Administrative Residency at University of California Irvine Medical Center and is a Board Certified Ambulatory Care Pharmacist (BCACP). She is enrolled in the Executive Master of Health Administration Program at the University of Southern California Sol Price School of Public Policy.

ASHP Foundation 2019 Award for Sustained Contributions to the Literature

The ASHP Foundation Literature Awards Program: Award for Sustained Contributions annually recognizes a pharmacist who, over the course of his/her career, has made significant contributions to the biomedical literature. Administered by the ASHP Foundation since 1971, this program is based on the concept that recognition through awards stimulates research and innovation and fosters improvement in the quality of the biomedical literature. The Award for Sustained Contributions is made to an individual who has a track record for publishing relevant articles of consistently high quality and impact in the primary, peer-reviewed, biomedical literature over a minimum of 20 years.

Vincent H. Tam, Pharm.D., FIDA, BCPS-AQ ID, Professor, University of Houston College of Pharmacy, Houston, TX

Vincent H. Tam received a B.S. from the National University of Singapore, Singapore and his Pharm.D. from Albany College of Pharmacy in Albany, New York. He completed an infectious diseases pharmacy residency at Detroit Receiving Hospital in Detroit, Michigan and a clinical pharmacology / infectious diseases fellowship at Albany Medical College. He is currently a Professor (tenured) at the University of Houston College of Pharmacy in Houston, Texas. He is board certified in pharmacotherapy with added qualifications in infectious diseases. Dr. Tam is the (co-) author of over 160 peer-reviewed publications in antimicrobial pharmacokinetics/pharmacodynamics and infectious disease therapeutics. Since 2002, he has received continuous external research support from NIH, NSF, DTRA (Department of Defense) and various foundations/pharmaceutical companies totaling more than \$9 million dollars. He is on the Editorial Boards of *Antimicrobial Agents and Chemotherapy*, *Journal of Global Antimicrobial Resistance*, and has served as an *ad hoc* reviewer for more than 25 other journals.



● MONDAY, DECEMBER 9 CONTINUED

12:30 p.m. – 1:30 p.m.

Breakers F, Level 2

► ASHP-PAC Contributors Reception

2:00 p.m. – 4:30 p.m.

Lagoon L, Level 2

► Bridging Gaps and Removing Barriers: Advances and Major Challenges in International Pharmacy Practice

Featuring the Donald E. Francke Medal Lecture

Donald E. Francke Medalist **Dr. Albert I. Wertheimer, B.S.Pharm., Ph.D., M.B.A.**, presents “**International Pharmacy: Same Problems, but Different Solutions**” at 2:00 p.m. The educational session starts immediately after the lecture at 2:30 p.m. The ASHP Board of Directors’ Donald E. Francke Medal was established to honor pharmacists who have made significant international contributions to advance pharmacy practice.

All attendees are invited to join Dr. Wertheimer after the session to offer congratulations at a special reception for international registrants. Additionally, international registrants and invited guests will have the unique opportunity to learn about best practices from a select group of international attendees presenting posters at the reception. The reception is an opportunity to network with your friends and colleagues from around the world. Light refreshments will be served.

For more information, see page 81.

Donald E. Francke Medalist

Albert Wertheimer is Professor at the Nova Southeastern University College of Pharmacy in Fort Lauderdale, Fla., and a Visiting Professor at the Touro College of Pharmacy in New York City.

Before joining the faculty at Nova Southeastern, Wertheimer held academic positions at the University of Minnesota, Philadelphia College of Pharmacy, and Temple University. He also was a Vice President at First Health, a pharmacy benefits management company, and Director of Outcomes Research and Management at Merck & Co. He has also served as a pharmacoeconomics and outcomes research consultant for numerous companies.

Much of Wertheimer’s professional interest has been in international pharmacy. He served for four terms as President of the International Pharmaceutical Federation (FIP) Academic Section, two terms as a FIP Vice President and Council member, and two terms as Chair of the FIP Social and Administrative Section. He has also served on numerous FIP working groups, task forces, and committees. He is an Adjunct Professor at colleges of pharmacy in Mexico, Taiwan, Slovenia, China, Malta, and Turkey, and serves as an external Ph.D. dissertation reviewer in several countries, including Qatar, Kuwait, Pakistan, and New Zealand.

A sought-after speaker and consultant, Wertheimer has lectured and offered consulting services in nearly 60 countries. He is the author or editor of 43 books and an author or co-author of more than 400 articles in professional and scientific journals. He has directed 90 Ph.D. students and nearly 100 M.S. students in the discipline of Social and Administrative Pharmacy.

Wertheimer earned his bachelor’s degree in pharmacy at the University of Buffalo. He earned an M.B.A. at the State University of New York at Buffalo and a Ph.D. at Purdue University. He also completed a one-year postdoctoral research fellowship at the Department of Social Medicine at St. Thomas Medical School of the University of London.



OPENING SESSION CONTINUED

● MONDAY, DECEMBER 9 CONTINUED

4:45 p.m. – 5:45 p.m.

Breakers F, Level 2

► International Registrants Gathering and Reception

International registrants are invited to join their colleagues and friends from around the world at this special reception. International registrants and invited guests have the unique opportunity to learn about best practices from a select group of international attendees presenting posters at the reception. It is the perfect opportunity to network and enjoy light hors d'oeuvres in a casual setting.

Poster Presentations:

Country	Poster Presentations	Presenters
United Kingdom	Translating the Cleveland Clinic Pharmacy Culture to the U.K.: Mind the Gap?	Francine de Stoppelaar, Pharm.D., M.Sc.
Hong Kong	Evaluation of Pharmacists' Impact on Hematology Oncology Chemotherapy Orders	Hailey Lin, B.S. Pharm., M.Clin.Pharm.
Brazil	Pharmacotherapy in Patients with Alzheimer's Disease	Gustavo Alves, Ph.D., M.Sc.
Québec (Canada)	Practice of the Pharmaceutical Care in Québec, Canada	Nathalie Marceau, B.Pharm., M.Sc.
Belgium	Sharing of Best Practices and Mentoring at the International Level	András Süle, Pharm.D., Ph.D., B.Sc.
Canada	Patients Support a Pharmacist-Led Best Possible Medication Discharge Plan (BPMDP) via Tele-Robot in a Remote and Rural Community Hospital	Sammu Dhaliwall, Pharm.D., R.Ph.
United Kingdom	A Theory and Evidence-Based Health Service Model for Tapering Opioids in Chronic Non-Cancer Pain: A Realist Review	Hattie Whiteside, M.Pharm.
Belgium	Advanced Pharmacotherapy-Related Clinical Rules to Optimize Postoperative Pain Management	Charlotte Quintens, M.Sc. in Pharmaceutical Sciences, Master of Hospital Pharmacy, Ph.D. Researcher
Egypt	International Pharmacy Practice Residency: Challenges, Change, Hope, and Excellence	Sherif Hosny Kamal, B.S.Pharm., M.Sc. in Clinical Pharmacy
South Africa	International Acute Care Rotation for Advanced Pharmacy Practice Experiences in South Africa: Working Toward a Sustainable Clinical Pharmacy Training Model	Renier Coetze, Pharm.D, M.Pharm.
Netherlands	Assessing and Implementing Hospital Pharmacy Practice in Namibia Using Basel Statement Standards	Rob Moss, Pharm.D.

● TUESDAY, DECEMBER 10

9:00 a.m. – 11:00 a.m.

Mandalay Bay B, Level 2

► Pharmacy Forecast 2020: Trends that Will Shape Your Future

The ASHP Foundation will debut its newest issue of the *Pharmacy Forecast Report* series. This CE session will identify components of the external environment that are expected to have a major impact on hospital and health-system pharmacy practice over the next five years. Authors will also present some of the report's most important strategic recommendations, which will be helpful to pharmacists who are planning the future of their departments.

2:00 p.m. – 3:30 p.m.

Banyan B, Level 3

► ASHP Opioid Task Force Town Hall

4:15 p.m. – 5:45 p.m.

Breakers F, Level 2

► ASHP-PAC Happy Hour

5:15 p.m. – 6:15 p.m.

South Pacific F, Lower Level, North Convention Center

► Gathering of Residents and Resident Preceptors, Featuring Past Harvey A.K. Whitney Award Recipients

● WEDNESDAY, DECEMBER 11

9:45 a.m. – 10:45 a.m.

Mandalay Bay H, Level 2

► Wednesday Morning Conversation with Julia Louis-Dreyfus

Award-winning actress and breast-cancer survivor Julia Louis-Dreyfus will serve as ASHP's second guest plenary speaker at the 2019 Midyear Clinical Meeting. For the first time ever at Midyear, we are excited to offer a new special event to kick-start the last full day of the meeting.

Julia Louis-Dreyfus earned worldwide acclaim and recognition for her portrayal of Elaine Benes in the hit NBC series *Seinfeld*, as Christine Campbell in the CBS hit comedy *The New Adventures of Old Christine*, and most recently as Vice President Selina Meyer in the HBO series *Veep*. All shows combined, she has received nine Emmy awards with 22 nominations, a Golden Globe award with nine nominations, seven Screen Actors Guild awards with 16 nominations, two Television Critics Association awards with three nominations, five American Comedy Awards with 10 nominations, and the Charlie Chaplin Britannia Award for Excellence in Comedy.

Directed by Armando Iannucci, *Veep* centers on Selina Meyer, the new Vice President of the United States. Louis-Dreyfus won seven consecutive Emmy awards, a Television Critics Award, and a SAG award for this role, as well as three Golden Globe nominations.

Upcoming, Julia will produce the HBO miniseries, *Soldier Girls*. The show is based on Helen Thorpe's 2014 nonfiction book *Soldier Girls: The Battles of Three Women at Home and at War*. The book follows the lives of three friends who decided to join the National Guard shortly before 9/11, only to find themselves deployed to Afghanistan and Iraq during one the most tumultuous periods in recent military history.

Louis-Dreyfus has previously received critical acclaim for her starring role in Fox Searchlight's *Enough Said*, opposite the late James Gandolfini, Catherine Keener, and Toni Collette. Written and directed by Nicole Holofcener, the comedy follows Eva, played by Louis-Dreyfus, as she humorously tries to secretly juggle both relationships and wonders whether her new favorite friend's disastrous ex can be her cue for happiness. This role has snagged Julia a Golden Globe nomination — making her one of the elite few who have had the honor to be concurrently nominated for both a film and television role.

Previously, Louis-Dreyfus premiered *Picture Paris* on HBO, a short film written and directed by Brad Hall and co-starring Cesar Award-winner Eric Elmosnino. The short follows an ordinary suburban mom (Julia Louis-Dreyfus) whose son is leaving for college and compensates for her empty nest syndrome by carefully planning a life-changing trip to Paris. When her plans go hilariously awry, she finds herself wondering if the things we most desire — passion, revenge, love, and Paris itself — are possible in our day-to-day lives. This year, the film played at BFI London Film Festival, Tribeca Film Festival, Santa Barbara International Film Festival, and Palm Springs International Film Festival, among other festivals around the world.

Her other television credits include multiple appearances on HBO's *Curb Your Enthusiasm*, which was co-created by Larry David of *Seinfeld*, a recurring role on Matt Groening's *The Simpsons* on FOX, a recurring role in 2003 on Fox's critically acclaimed *Arrested Development*, NBC's 2002 real-time sitcom *Watching Ellie*, and the TNT animated film *Animal Farm* to which she lent her voice alongside Ian Holm, Kelsey Grammer, and Patrick Stewart. Louis-Dreyfus first made her mark on television during a three-year stint (1982-1985) on *Saturday Night Live* opposite the likes of Billy Crystal, Christopher Guest, and Eddie Murphy. She subsequently hosted the show twice, becoming the first female former cast member to return as host.

Feature film credits include Disney's *Planes*; Pixar's animated hit *A Bug's Life*; Woody Allen's Academy Award-winning *Hannah and Her Sisters*; Allen's *Deconstructing Harry*; Rob Reiner's *North*; Ivan Reitman's *Fathers' Day*; and *Jack the Bear*.

Louis-Dreyfus is a committed and steadfast defender of the environment. She serves as a member on the leadership council for the Natural Resource Defense Council (NRDC) as well as on the Board of Directors of Heal the Bay and on the Honorary Board of Heal the Ocean.

She studied theater at Northwestern University, where she was also a recipient of a Doctor of Arts in 2007. During college, she was a member of The Practical Theater Company and Chicago's famed Second City comedy troupe.



ASHP BOARD REVIEW AND RECERTIFICATION EVENTS – LIVE

ASHP offers unparalleled preparation opportunities for specialty pharmacy board examination and innovative, highly rated programs for board recertification. Our approach is multifaceted, scenario-based, and interactive — the opposite of the didactic learning norm. Our board review and recertification programs will have an immediate and lasting impact on your practice.

For additional information, visit ashp.org/boardreview2019.

NOTE: The Mandalay Bay Convention Center includes the South Convention Center, the North Convention Center, and the Events Center. **All ASHP sessions, events, and exhibits will take place in the South Convention Center, unless otherwise noted.** To view a map of the convention center, see page 11.

FOR REVIEW and RECERTIFICATION

● SATURDAY & ● SUNDAY,
DECEMBER 7-8

7:30 a.m. – 6:30 p.m. Islander Ballroom F, Lower Level,
North Convention Center

► Live Pharmacotherapy Specialty Review and Recertification Course

This two-day course provides a robust curriculum for the high-level pharmacy professional who is either planning to take the certification examination or seeking recertification credit.

Course participants follow fictional patients in real-life scenarios, including initial presentation, medical history, risk factors, and complications throughout their treatments and outcomes. Participants learn as they apply various treatment options based on national standards and guidelines. Strong emphasis is placed on the thought processes needed to solve patient care problems in each therapeutic area. As patient cases are discussed, faculty members answer your questions to illustrate key concepts.

Highlights include:

- Interesting, application-based review course approach using complex, case-based interactive learning for high-level practitioners and specialists.
- System-Based Standards and Population-Based Pharmacotherapy, which account for 20 percent of the BCPS exam.
- Coverage of public health and patient advocacy information in every topic area.
- Educational materials that can be downloaded and printed in advance as well as a practice test containing more than 100 practice questions with explained answers and references.
- Comprehensive coverage for exam preparation in only two days, saving you time away from work and home, and drastically reducing travel expenses.
- **New! Free lunchtime session to help you advance your evidence-based practice, “EBP Jeopardy.”**

During registration, select either the Review Package or the Recertification Package:

- **Review Package** includes: the live course with educational materials (PDF), recorded course, Core Therapeutic Module package*, and a practice exam.

- **Recertification Package** includes: the live course with educational materials (PDF), recorded course, recertification assessment, and the 5-hour Core Therapeutic Module Package for recertification (for those seeking BPS recertification credit only).

*Core Therapeutic Modules are on-demand, web-based activities that help identify knowledge gaps on various topics or disease states.

This Recertification Course is eligible for up to 16 Hours of recertification credit after successful completion of an online assessment, which will be available on February 5, 2020.

For more information and to register, visit ashp.org/boardreview2019.

LIVE Intensive Studies and Clinical Sessions Packages

Held annually at the Midyear Clinical Meeting, the Intensive Study and Clinical Sessions packages provide 4 to 6 hours of recertification credit for activities approved by the Board of Pharmacy Specialties (BPS).

Each activity is presented as a high-level, interactive discussion on contemporary and emerging issues within each specialty. For pharmacists who maintain more than one certification, some of these sessions provide credit for more than one specialty. See details on individual specialties below.

Registration for a Clinical Sessions or Intensive Studies package **does not** give you access to the Live Pharmacotherapy Review and Recertification Course.

Separate registration and fees are required.

Integrated Session Format

The Clinical Sessions and Intensive Studies will be held live throughout the Midyear meeting, and any meeting registrant may attend these thought-provoking and highly educational sessions. However, if you are board certified, you must purchase the package(s) for your specialty in order to receive the recertification assessment and claim the recertification credit.

Please note that the BCACP Clinical Sessions, BCGP Clinical Sessions, and BCOP Clinical Sessions are a repeat of the sessions presented in October 2019 at the ACCP Annual Meeting. Learners may claim credit only once. Clinical Sessions, while named differently, follow the same format as the Live Intensive Studies.

For pharmacists who maintain more than one certification, some of these sessions provide credit for more than one specialty.

How to Participate

During the Midyear meeting registration process, add the desired recertification package (BCACP, BCCCP, BCGP, BCOP, BCPPS, BCPS).

- Attend the live sessions at the ASHP Midyear Clinical Meeting in Las Vegas.
- Unable to attend all of the sessions at the Midyear meeting? The recertification package also provides online recorded access to all of the sessions in your selected specialty.
- After the Midyear meeting, complete and pass the recertification assessments for the desired sessions. Each session provides 1 to 2 hours of credit and features immediate pass/fail notification with real-time reporting of recertification credit to BPS.
- A range of 4 to 6 hours of credit may be earned, depending on the specialty. Clinical Sessions assessments will be available on December 18, 2019. The Intensive Studies assessments will be available online on February 5, 2020.
- Dual- or triple-certified? Passing a recertification assessment for a session with multiple certifications will provide you credit for each of your specialties. For example, by

passing the assessment for the Ketamine activity, you earn hours toward BCCCP, BCPPS, and BCPS. Sessions with multiple certifications are outlined below.

Pricing

You must be a full-time Midyear meeting registrant to purchase the Intensive Studies or Clinical Sessions packages at the reduced rate*. The price for 4 to 6 hours of recertification credit for the Live Intensive Studies and Clinical Sessions packages is \$50 per specialty for Midyear Clinical Meeting attendees. This includes the live sessions, recorded versions of the live sessions, and the recertification assessments.

* Online Clinical Sessions packages will be available for pre-sale on November 20, 2019 with content available on December 18, 2019. The online Intensive Studies package will be available for pre-sale on January 8, 2020 with content available on February 5, 2020. Both Intensive Studies and Clinical Sessions packages will be available for non-Midyear meeting attendees to purchase at the regular list price.

If you are currently enrolled in a 3-Year Recertification Plan, 1-Year Pharmacotherapy Recertification Plan, or the Review and Recertification Reward Program (RRRP), the Intensive Studies or Clinical Sessions package is included as part of your enrollment.

Live Intensive Studies Sessions

Pediatric Pharmacy

BCPPS (4 hrs.)

Critical Care Pharmacy

BCCCP (4.5 hrs.)

Pharmacotherapy

BCPS (6 hrs.)

Monday, December 9

2:00 p.m. – 3:30 p.m.

► **The Use of Ketamine in Critically Ill Adults and Children**
Mandalay Bay J, Level 2
(BCCCP, BCPPS, BCPS) 1.5 hrs.

Tuesday, December 10

8:00 a.m. – 9:00 a.m.

► **Bad to the Brain: Impact of Neonatal Medication Use on the Developing Brain**
Lagoon F, Level 2
(BCPPS) 1 hr.

8:00 a.m. – 9:30 a.m.

► **Strategies to Maximize the Safety of Your Smart Pumps**
Mandalay Bay H, Level 2
(BCCCP, BCPS) 1.5 hrs

2:00 p.m. – 3:30 p.m.

► **Combating the #1 Killer in America: New Evidence and Guidelines for Primary Prevention of Cardiovascular Disease**
Oceanside C, Level 2
(BCPS) 1.5 hrs.

Wednesday, December 11

8:00 a.m. – 9:30 a.m.

► **Is Pediatric Anticoagulation Experiencing a Paradigm Shift?**
Mandalay Bay J, Level 2
(BCPPS) 1.5 hrs.

2:00 p.m. – 3:30 p.m.

► **Controversies in Treating Infective Endocarditis (IE) in People Who Inject Drugs**
Mandalay Bay J, Level 2
(BCCCP, BCPS) 1.5 hrs.

Live Clinical Sessions

Geriatric Pharmacy

BCGP (5 hrs.)

Ambulatory Care Pharmacy

BCACP (6 hrs.)

Oncology Pharmacy

BCOP (4 hrs.)

Monday, December 9

2:00 p.m. – 3:30 p.m.

► **When Life Happens: Managing Diabetes in the Older Adult Across the Continuum of Care**

Oceanside C, Level 2

(BCACP, BCGP) 1.5 hrs.

Tuesday, December 10

10:00 a.m. – 11:00 a.m.

► **How Low Do You Go? Applying the 2018 American College of Cardiology/American Heart Association (ACC/AHA) Cholesterol Guidelines to Individual Patients**

Mandalay Bay H, Level 2

(BCACP, BCGP) 1 hr.

4:00 p.m. – 5:00 p.m.

► **Self-Care Considerations in Older Adults: Integrating Complementary and Alternative Medicine**

Oceanside C, Level 2

(BCGP) 1 hr.

8:00 a.m. – 10:00 a.m.

► **Hide and Go Seek: Updates in the Management of Acute, Chronic, and Refractory Immune-Related Adverse Effects of Immune Checkpoint Inhibitors**

Mandalay Bay J, Level 2

(BCOP) 2 hrs.

2:00 p.m. – 4:00 p.m.

► **Anticoagulation Therapy: Considerations in the Setting of Malignancy**

Mandalay Bay J, Level 2

(BCOP) 2 hrs.

Wednesday, December 11

8:00 a.m. – 9:30 a.m.

► **JNC8 vs. 2017 American College of Cardiology/American Heart Association (ACC/AHA) Hypertension Guidelines: Which Should We Follow?**

Oceanside C, Level 2

(BCACP, BCGP) 1.5 hrs.

2:00 p.m. – 4:00 p.m.

► **Don't Sugar Coat It: Hot Topics in the Management of Type 1 and Type 2 Diabetes Mellitus**

Oceanside C, Level 2

(BCACP) 2 hrs.

Ambulatory Care Pharmacy, Geriatric Pharmacy, and Oncology Pharmacy activities are developed jointly with the American College of Clinical Pharmacy (ACCP). Clinical Sessions, while named differently, follow the same format as the Live Intensive Studies.

MONDAY, DECEMBER 9

2:00 p.m. – 3:30 p.m.

Mandalay Bay J, Level 2

► **The Use of Ketamine in Critically Ill Adults and Children**

Target Audience: BCCCP, BCPPS, BCPS

This session is designed to evaluate literature and strategies for ketamine use in adult and pediatric critical care settings, focusing on pain management, opioid tolerance, and status epilepticus. The faculty will contrast adult and pediatric literature and clinical pearls so learners will be better equipped in practical applications of ketamine. During the

session, learners will apply the information to patient case scenarios using audience-response technology. New ketamine data will be discussed, providing insight into recent trials, while “behind the scenes” personal practice experiences and challenges with ketamine will be integrated throughout. Faculty will emphasize key takeaways that learners will be able to apply when they return to their practice settings.

This activity is approved for Board Certified Critical Care Pharmacist (BCCCP), Board Certified Pediatric Pharmacy Specialist (BCPPS), and Board Certified Pharmacotherapy Specialist (BCPS) recertification credit.

2:00 p.m. – 3:30 p.m.

Oceanside C, Level 2

► **When Life Happens: Managing Diabetes in the Older Adult Across the Continuum of Care**

Target Audience: BCACP, BCGP

This session is designed to provide the learner with the tools necessary to provide the best, safest care for their elderly patients. Learners will learn appropriate goals of care for their older adult patient with diabetes mellitus, pitfalls and appropriate use of diabetes pharmacotherapy, and practical solutions for avoiding common issues when these older adults transfer from one care setting to another. This interactive, case-based session will follow an older adult from independent, community-dwelling, ambulatory diabetes care through assisted living and finally long-term care. This session will also highlight issues seen across the spectrum of care as it relates to the care setting itself, as well as opportunities within care transitions.

This activity is approved for Board Certified Ambulatory Care Pharmacist (BCACP), and Board Certified Geriatric Pharmacist (BCGP) recertification credit.

● TUESDAY, DECEMBER 10

8:00 a.m. – 9:00 a.m.

Lagoon F, Level 2

► **Bad to the Brain: The Impact of Neonatal Medication Use on the Developing Brain**

Target Audience: BCPPS

Although many pharmacists do not specifically practice in the neonatal intensive care unit (NICU), they should be aware of the impact of medication selection on the developing brain of neonates, infants, and young children and the future consequences that may result. The goal of this session will be to provide an advanced discussion of agents with known negative and positive long-term neurodevelopmental effects, strategies to limit the use of medications with negative effects, and the need for additional studies of commonly used medications in the NICU. The learner will be polled on several occasions during the session to compare practices between institutions and provide opportunities for practitioners to identify new strategies to limit the negative effects of these agents.

This activity is approved for Board Certified Pediatric Pharmacy Specialist (BCPPS) recertification credit.

8:00 a.m. – 9:30 a.m.

Mandalay Bay H, Level 2

► **Strategies to Maximize the Safety of Your Smart Pumps**

Target Audience: BCCCP, BCPS

The use of “smart pumps” for IV infusions has become widely accepted as the standard of care, particularly in the critical care setting. While smart pump technology has been shown to reduce errors with IV medication administration, many facilities have not fully optimized its safety benefits. In fact, in some cases smart pumps can contribute to, rather than prevent, medication errors. In this advanced-level program, the faculty will recommend strat-

egies to maximize smart pump safety and promote best practices. Specific topics will include identifying improvement opportunities within drug libraries, managing drug shortages, administering bolus medications, reducing clinically insignificant alerts, and evaluating smart pump data. Faculty will also describe the advantages and challenges of successfully implementing smart pump-electronic medical record (EMR) interoperability.

This activity is approved for Board Certified Critical Care Pharmacist (BCCCP) and Board Certified Pharmacotherapy Specialist (BCPS) recertification credit.

8:00 a.m. – 10:00 a.m.

Mandalay Bay J, Level 2

► **(BCOP Clinical Session) Hide and Go Seek: Updates in the Management of Acute, Chronic, and Refractory Immune-Related Adverse Effects of Immune Checkpoint Inhibitors**

Target Audience: BCOP

This session is focused on how immunotherapy agents are used in oncology, the differential diagnosis and treatment of immune-related adverse effects (irAE) in both the acute care setting and the ambulatory care setting, and how intraprofessional collaboration contributes to the development of irAE treatment algorithms and survivorship plans. Using a mix of cases, demonstrations, and discussion this session will provide an interactive learning experience to help attendees update their knowledge on the use of immunotherapy agents in oncology.

This activity is approved for Board Certified Oncology Pharmacist (BCOP) recertification credit.

10:00 a.m. – 11:00 a.m.

Mandalay Bay H, Level 2

► **How Low Do You Go? Applying the 2018 American College of Cardiology/American Heart Association (ACC/AHA) Cholesterol Guidelines to Individual Patients**

Target Audience: BCACP, BCGP

The primary focus of this session is to outline the most significant concepts, recommendations, and controversies in the 2018 ACC/AHA High Blood Cholesterol Guideline, with particular emphasis on how to apply the guideline to older patients. There will be a discussion of the four patient groups for whom recommendations for therapy are provided (i.e., clinical ASCVD, severe hypercholesterolemia, diabetes, primary prevention) and analysis of how to evaluate individualized risk and develop collaborative patient care decisions. Treatment decisions in older patients will be emphasized as it relates to risk evaluation and treatment. Additionally, there will be some brief discussion on controversies and newer data that were not incorporated in the guideline. This session will include at least two to three cases highlighting critical aspects of high cholesterol therapy for older patients, where the selection of the most appropriate and evidence-based goal and treatment is discussed.

This activity is approved for Board Certified Ambulatory Care Pharmacist (BCACP), and Board Certified Geriatric Pharmacist (BCGP) recertification credit.

2:00 p.m. – 3:30 p.m.

Oceanside C, Level 2

► **Combating the #1 Killer in America: New Evidence and Guidelines for Primary Prevention of Cardiovascular Disease**

Target Audience: BCPS

Primary prevention of cardiovascular disease requires multifaceted approaches, including lifestyle modification and appropriate use of pharmacotherapy. Treatment strategies include, but are not limited to, controlling hypertension, statin-based therapy, and use of antiplatelet therapy. During the session, faculty will review new hypertension, cholesterol, and aspirin guidelines, as well as the most relevant evidence guiding these recommendations. Using audience-response technology, learners will have the opportunity to engage actively with advanced, complex case discussions. Upon completion of this session, learners will be better prepared to provide evidence-based pharmacotherapy therapy for primary prevention patients, aligned with current clinical practice guidelines.

This activity is approved for Board Certified Pharmacotherapy Specialist (BCPS) recertification credit.

2:00 p.m. – 4:00 p.m.

Mandalay Bay J, Level 2

► **(BCOP Clinical Session) Anticoagulation Therapy: Considerations in the Setting of Malignancy**

Target Audience: BCOP

This session is focused on patients with active cancer and their increased risk of thromboembolism, bleeding complications, medication-related adverse events, and drug-drug interactions. Most specifically this session will focus on what is new in the prevention and treatment of primary venous thromboembolism (VTE) in patients with cancer. Included in this session will be a discussion of the use of direct oral anticoagulants (DOACs) in this patient population and how new evidence in both efficacy and safety data may be causing a shift in the care of patients.

This activity is approved for Board Certified Oncology Pharmacist (BCOP) recertification credit.

4:00 p.m. – 5:00 p.m.

Oceanside C, Level 2

► **Self-Care Considerations in Older Adults: Integrating Complementary and Alternative Medicine**

Target Audience: BCGP

The use of complementary and alternative medicine (CAM) has been increasing, especially in the older adult population, with many surveys indicating at least half of those aged 65 years and older have tried a CAM therapy or practice. Many older adults use these practices believing that they are generally safer and without consequence, resulting in most patients not disclosing CAM use to healthcare providers. It is important for geriatric healthcare providers

to acknowledge the increasing use of CAM therapies to have an understanding as to why older adults are accessing CAM for their healthcare needs. This session will review the current trends of CAM therapy among older adults and discuss the perceived benefits among this population. This session will also highlight some of the more prevalent chronic conditions affecting the older adult and discuss the evidence surrounding the efficacy and safety of common CAM therapies used in their management.

This activity is approved for Board Certified Geriatric Pharmacist (BCGP) recertification credit.

● **WEDNESDAY, DECEMBER 11**

8:00 a.m. – 9:30 a.m.

Mandalay Bay J, Level 2

► **Is Pediatric Anticoagulation Experiencing a Paradigm Shift?**

Target Audience: BCPPS

This session will focus on recent developments in the approach to managing pediatric anticoagulation. The faculty will address the appropriate use and selection of anti-coagulant medications and reversal agents, potential expanded use of direct oral anticoagulants (DOACs) in pediatric patients, and anticoagulant selection for patients receiving extracorporeal membrane oxygenation (ECMO) therapy. During the session, attendees will apply what they learn to complicated patient case scenarios using audience-response technology.

This activity is approved for Board Certified Pediatric Pharmacy Specialist (BCPPS) recertification credit.

8:00 a.m. – 9:30 a.m.

Oceanside C, Level 2

► **JNC8 vs. 2017 American College of Cardiology/American Heart Association (ACC/AHA) Hypertension Guidelines: Which Should We Follow?**

Target Audience: BCACP, BCGP

The purpose of this session is to evaluate the literature that led to the development of the current hypertension guidelines and how to apply these recommendations in practice, with a particular focus on the geriatric patient population. The presenters will provide a better understanding of the reasons behind the recommendations proposed in the latest hypertension guidelines while building confidence in practice through a case-based format. This will be accomplished by discussing the current hypertension guidelines including similarities and differences, the evidence that created the proposed recommendations, and example patient cases. New landmark trials published in the last year will also be discussed.

This activity is approved for Board Certified Ambulatory Care Pharmacist (BCACP) and Board Certified Geriatric Pharmacist (BCGP) recertification credit.

2:00 p.m. – 3:30 p.m.

Mandalay Bay J, Level 2

► **Controversies in Treating Infective Endocarditis (IE) in People Who Inject Drugs**

Target Audience: BCCCP, BCPS

Intravenous (IV) drug use is one of the most highly attributable risk factors for the development of infective endocarditis. In recent years, the United States has experienced a dramatic increase in IV drug use and, accordingly, rates of infectious diseases, including infective endocarditis (IE), are on the rise. However, when these patients present to the healthcare system, determining optimal management poses clinical dilemmas when long courses of therapy are needed. The purpose of this session is to provide pharmacists with practical information beyond the guidelines to effectively and safely treat IE in patients who inject drugs (PWID). The session will focus on acute management of these critically ill patients, followed by a transition to oral antimicrobial treatment or outpatient parenteral antibiotic therapy (OPAT) with an emphasis on the PWID population. This information will be contrasted with the recommendations of the 2015 American Heart Association (AHA) and Infectious Diseases Society of America (IDSA) infective endocarditis guidelines. During the session, attendees will apply what they learn to complicated patient case scenarios using audience-response technology.

This activity is approved for Board Certified Critical Care Pharmacist (BCCCP) and Board Certified Pharmacotherapy Specialist (BCPS) recertification credit.

2:00 p.m. – 4:00 p.m.

Oceanside C, Level 2

► **Don't Sugar Coat It: Hot Topics in the Management of Type 1 and Type 2 Diabetes Mellitus**

Target Audience: BCACP

This session is designed to provide an evidence-based update regarding hot topics in Type 1 and Type 2 diabetes. This two-hour session will focus on three primary issues in diabetes: cardiovascular outcomes, renal outcomes, and non-insulin therapy. These case-based presentations will allow the learner to critically evaluate the literature while designing a patient-specific therapeutic plan. The first two presentations within this session will review the evidence for cardiovascular and renal outcomes for glucagon peptide-1 receptor agonist, dipeptidyl peptidase-IV inhibitors, and sodium-glucose cotransporter-2 inhibitors in patients with Type 2 diabetes. The third presentation will focus on the evidence behind non-insulin therapies as a benefit to patients with Type 1 diabetes.

This activity is approved for Board Certified Ambulatory Care Pharmacist (BCACP) recertification credit.

FOLLOW & TAG

Tag your photos, tweets, and videos with **#ASHP19**.



PRE-MEETING WORKSHOPS

Get a jump-start on learning — participate in a workshop. You must be a full Midyear Clinical Meeting registrant and pay a separate fee to attend pre-meeting workshops. Registration fees for full-day workshops include lunch and refreshments during breaks.

Enrollment is limited and workshops fill quickly, so register soon. Registration must be received on or before **December 2**.

ASHP reserves the right to cancel a pre-meeting workshop for reasons that make it impractical or unreasonable to conduct. If that occurs, each registrant will be issued a full refund.

SATURDAY, DECEMBER 7

8:00 a.m. – 5:00 p.m.

Residency Program Design and Conduct (RPDC)

Workshop Fee: \$390 (Lunch and break included)

NOTE: CE credit will not be offered for this workshop.

In this workshop, attendees will review accreditation standards for the design and conduct of a pharmacy residency program, including requirements related to program purpose, competency areas, goals and objectives, program structure, learning experiences, orientation, use of preceptor roles, evaluation, resident development plans, and continuous residency program improvement. Attendees may bring materials from their program for review during the workshop. Take advantage of the opportunity to get your questions answered and share ideas for meeting accreditation requirements.

You must select one of the following areas when registering:

- **RPDC A: PGY1 New Programs** **Lagoon F, Level 2**
(limit: 80 participants)
- **RPDC B: PGY1 Existing Programs** **Breakers C, Level 2**
(limit: 100 participants)
- **RPDC C: PGY2 New and Existing Programs** **Lagoon L, Level 2**
(limit: 80 participants)

Workshop Faculty:

Kate Farthing, Pharm.D., BCPS, FASHP, Pharmacy Manager, Legacy Salmon Creek Medical Center, Portland, OR

Susan D. Francis, Pharm.D., Accreditation Services Associate, ASHP, Bethesda, MD

Andrea W. Haron, Pharm.D., Accreditation Services Associate, ASHP, Bethesda, MD

Kimberly Mattox, Pharm.D., Associate Chief of Pharmacy for Clinical and Educational Programs, James A. Haley Veterans' Hospital, Tampa, FL

Mary Kate McGinty, B.S.Pharm., M.S., Accreditation Services Associate, ASHP, Bethesda, MD

William A. Miller, Pharm.D., M.S., Pharmacy Consultant, Miller Associates, Charleston, SC

Steven Pass, Pharm.D., BCPS, FASHP, FCCM, FCCP, Professor, Vice Chair for Residency Programs, Dallas Campus Regional Dean, Texas Tech University Health Sciences Center School of Pharmacy, Dallas, TX

Beth Phillips, Pharm.D., BCACP, BCPS, FASHP, FCCP, Rite

NOTE: The Mandalay Bay Convention Center includes the South Convention Center, the North Convention Center, and the Events Center. **All ASHP sessions, events, and exhibits will take place in the South Convention Center, unless otherwise noted.** To view a map of the convention center, see page 11.

Aid Professor, University of Georgia, Athens, GA

Harminder Sikand, Pharm.D., FASHP, FCCP, FCSHP,

Director of Clinical Services and Residency Programs, Scripps Health, Poway, CA

SUNDAY, DECEMBER 8

8:00 a.m. – 5:00 p.m.

South Seas J, Level 3

► **Basic Statistics: A Nonthreatening Approach to the Use of Statistics in Clinical Trials 2019**

ACTIVITY #: 0204-0000-19-335-L04-P

7.50 CONTACT HOURS | APPLICATION-BASED

Workshop Fee: \$390 (Lunch and break included; limit: 40 participants)

Learn how to apply basic statistical tests to research reports typically seen in medical literature. This workshop explores the most commonly used tests, including t-tests, analysis of variance, tests for equivalence, Z-test of proportions, odds ratios and relative risk ratios, chi-square, correlation, and linear regression. Practical examples and problems drawn from scientific research will be used to illustrate statistical concepts and mathematical procedures. Emphasis is on the appropriate use of statistics and the interpretation of their results.

Learning Objectives:

- Define statistical terms commonly encountered in the literature.
- List various graphic and numeric methods for presenting descriptive statistics.
- Discuss the major types of variables and define the general rule of probability in inferential statistics.
- Select the appropriate statistical test given the type of data presented.
- Evaluate example problems to identify the type of variables involved and the most appropriate statistical test(s) to use.

Workshop Faculty: James E. DeMuth, B.S.Pharm., Ph.D., M.S., Professor Emeritus, University of Wisconsin, Madison, WI

8:00 a.m. – 4:45 p.m.

Premier Ballrooms 312–313, & 316–317, Level 3, MGM Grand

► **340B University™**

8.00 CONTACT HOURS | KNOWLEDGE-BASED

Breakfast and lunch are included. Breakfast served at 7:00 a.m. Midyear Clinical Meeting registration not required (limit: 350 participants).

340B University is an award-winning education program that is planned and offered by Apexus, the Health Resources and Services Administration's dedicated 340B program Prime Vendor.

For more information and to register, visit www.eiseverywhere.com/ehome/473783.



RESIDENT AND NEW PRACTITIONER PROGRAMMING

Educational Session Materials

Materials will be available on the web-based itinerary planner for all registered attendees to download or print approximately two weeks prior to the meeting. Download or print the materials for the sessions you plan to attend before the meeting and bring them with you. Handouts will not be provided in the session rooms. Visit www.eventsbridge.com/2019/midyear for more information.

Are you in your first five years of pharmacy practice? You're probably still finding your way — and your concerns, needs, and interests aren't the same as those of your more seasoned colleagues.

ASHP developed this programming to address the unique needs of residents and new practitioners at the Midyear meet-

ing. Explore workplace challenges, mentorship, and clinical issues in an encouraging and motivational atmosphere.

Best of all, entry into this programming is included in your full Midyear registration fee.

Ensure your success. Spend your weekend with other residents and new practitioners, and see your way to a great future.

Career Development

Learn tips and tricks that your colleagues have used successfully to grow and advance their careers.

Clinical Development

You've earned the right to be a member of the health-care team. On a day-to-day basis, you must demonstrate you are competent, professional, intelligent, and credible. Learn ways to improve your clinical skills, regardless of your area of practice.

SUNDAY, DECEMBER 8

	South Seas F, Level 3	South Seas B, Level 3
8:30 a.m. – 9:30 a.m.	CAREER DEVELOPMENT ● What They Don't Teach You in Residency: Navigating Workplace Politics	CLINICAL DEVELOPMENT ● When It's OK to Fit a Square Peg into a Round Hole: Exploring the Use of Cancer Medications for Non-Cancer Indications
10:00 a.m. – 11:30 a.m.	● The Problem with Procrastination: How to Peak your Productivity	● Does the Bud Stop Here? An Update on Legalization of Medicinal Cannabis and Impact on Pharmacy Practice
11:30 a.m. – 1:00 p.m.	LUNCH ON OWN	
1:00 p.m. – 2:30 p.m.	● Conversations That Connect: Verbal and Nonverbal Skills to Promote Collaboration	● Mind the Gap: Filling in the Holes of All Things Pain
3:00 p.m. – 4:30 p.m.	● Young Leaders, Big Responsibilities: Preparing New Practitioners for Antimicrobial Stewardship	● A Rundown of Recent Literature: New Biologic Therapies and Guideline Updates for Asthma Management
4:00 p.m. – 5:00 p.m.	NEW PRACTITIONER NETWORKING SESSION	

8:00 a.m. – 9:30 a.m.

South Seas F, Level 3

► What They Don't Teach You in Residency: Navigating Workplace Politics

ACTIVITY #: 0204-0000-19-220-L04-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

TRACK: CAREER DEVELOPMENT

Learning Objectives:

- Identify strategies to develop positive intra-departmental relationships.
- Evaluate strategies to manage the relationship with your boss.
- Explain the ideal preceptor-resident relationship.
- Apply techniques for communicating with a residency program director.

Program Chair, Moderator: Carolyn A. Magee, Pharm.D., BCCCP, Medical Surgical ICU Clinical Pharmacy Specialist, Medical University of South Carolina, Charleston, SC

Presenters:

Aaron M. Cook, Pharm.D., BCCCP, BCPS, FCCP, FKSHP, FNCS, Clinical Coordinator, UKHealthcare, University of Kentucky, Lexington, KY
Christina E. DeRemer, Pharm.D., BCACP, BCPS, FASHP, Clinical Associate Professor, University of Florida College of Pharmacy, Gainesville, FL
Meghan D. Swarthout, Pharm.D., M.B.A., BCPS, Division Director, Ambulatory and Care Transitions Pharmacy, The Johns Hopkins Health System, Baltimore, MD

8:00 a.m. – 9:30 a.m.

South Seas B, Level 3

► When It's OK to Fit a Square Peg into a Round Hole: Exploring the Use of Cancer Medications for Non-Cancer Indications

Planned in cooperation with ASHP Section of Clinical Specialists and Scientists

ACTIVITY #: 0204-0000-19-224-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

TRACK: CLINICAL DEVELOPMENT

Learning Objectives:

- Recognize the appropriate use of cancer medications for non-cancer indications.
- Discuss implications from third-party payers when using cancer medications for non-cancer indications.
- Identify tools and resources available for managing patients on cancer therapies for non-cancer indications.
- Develop the tools needed for ensuring the safe and appropriate use of cancer therapies for non-cancer indications.
- Describe best practices surrounding USP <800> and safe handling around hazardous and non-hazardous medications.

Program Chair: Elizabeth Dow-Hillgartner, Pharm.D., BCOP, BCPS, Clinical Pharmacist, Hematology/Oncology, UW Health, Madison, WI

Moderator: Carolyn J. Oxencis, Pharm.D., BCOP, Clinical Pharmacy Specialist – Hematology/Oncology, Froedtert & the Medical College of Wisconsin Cancer Center, Clinical Assistant Professor, Medical College of Wisconsin School of Pharmacy, Milwaukee, WI

Presenters:

Cassia Griswold, Pharm.D., Clinical Pharmacist, Hematology/Oncology, Mayo Clinic, Phoenix, AZ

Emily Hennes, Pharm.D., Clinical Pharmacist, Pharmaceutical Research Center, UW Health, Madison, WI

FEATURED PROGRAMMING: PAIN MANAGEMENT

10:00 a.m. – 11:00 a.m.

South Seas B, Level 3

► Does the Bud Stop Here? An Update on Legalization of Medicinal Cannabis and Impact on Pharmacy Practice

ACTIVITY #: 0204-0000-19-225-L03-P

1.00 CONTACT HOURS | APPLICATION-BASED

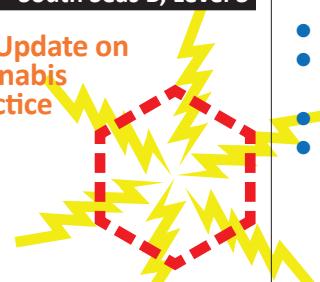
EDUCATIONAL LEVEL: GENERAL INTEREST

TRACK: CLINICAL DEVELOPMENT

Learning Objectives:

- Summarize updated information for medicinal cannabis.
- Discuss updates in medicinal cannabis legislation across the United States.
- Compare divergent state laws regarding medicinal marijuana.
- Evaluate the pharmacy's role in managing "patient own" medicinal marijuana including storage within the hospital setting.

Program Chair, Moderator: Marianne Pop, Pharm.D., BCPS, Clinical Assistant Professor, Emergency Medicine Clinical Pharmacist, University of Illinois College of Pharmacy, Rockford, IL



Presenters:

Marianne Pop, Pharm.D., BCPS, Clinical Assistant

Professor, Emergency Medicine Clinical Pharmacist, University of Illinois College of Pharmacy, Rockford, IL

Andrew P. Smith, Pharm.D., BCCCP, BCPS, Assistant Clinical Professor, PGY2 Emergency Medicine Pharmacy Residency Program Director, Touro College of Pharmacy, New York, NY

10:00 a.m. – 11:30 a.m.

South Seas F, Level 3

► The Problem with Procrastination: How to Peak your Productivity

ACTIVITY #: 0204-0000-19-221-L04-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

TRACK: CAREER DEVELOPMENT

Learning Objectives:

- Describe the pitfalls of procrastination.
- Explain the necessity for optimizing productivity.
- Apply strategies to maximize the three critical elements of productivity: time, attention, and energy.
- Develop a plan to integrate strategies to optimize time use and increase productivity.

Program Chair, Moderator: Michael Wolcott, Pharm.D., Ph.D., BCIDPS, BCPS, Director of Educational Resources

and Scholarship, Assistant Professor, UNC Adams School of Dentistry, UNC Eshelman School of Pharmacy, Durham, NC

Presenter: Laura Meleis, Pharm.D., M.S., BCPS, Assistant Director, Quality, Compliance, and Regulatory Affairs, Massachusetts General Hospital, Boston, MA

1:00 p.m. – 2:30 p.m.

South Seas F, Level 3

► Conversations That Connect: Verbal and Nonverbal Skills to Promote Collaboration

ACTIVITY #: 0204-0000-19-222-L04-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

TRACK: CAREER DEVELOPMENT

Learning Objectives:

- Recognize verbal and non-verbal communication barriers.
- Discuss the importance of a concise message in communication.
- List non-verbal techniques that improve communication.
- Practice communication techniques in the management of conflict.

Program Chair, Moderator: Kellie L.E. Musch, Pharm.D., M.S., Pharmacy Manager, Freestanding Emergency Departments, OhioHealth, Columbus, OH

Presenters:

Megan Elavsky, Pharm.D., BCGP, BCPS, WVU Medicine Department of Family Medicine Clinical Specialist, WVU College of Pharmacy Assistant Professor, WVU Medicine Department of Family Medicine, Morgantown, WV

Carolyn A. Magee, Pharm.D., BCCCP, Medical Surgical ICU Clinical Pharmacy Specialist, Medical University of South Carolina, Charleston, SC

FEATURED PROGRAMMING: PAIN MANAGEMENT

1:00 p.m. – 2:30 p.m.

South Seas B, Level 3

► Mind the Gap: Filling in the Holes of All Things Pain

Planned in cooperation with ASHP Section of Ambulatory Care Practitioners

ACTIVITY #: 0204-0000-19-226-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

TRACK: CLINICAL DEVELOPMENT



Learning Objectives:

- Distinguish common opioid and non-opioid options for pain management.
- Analyze common disease states associated with complex pain management.
- Illustrate regulatory issues surrounding treatments for substance use disorder.
- Practice opioid conversion calculations between drugs and with various routes and formulations.

Program Chair, Moderator: Maria Foy, Pharm.D., BCPS,

CPE, Pharmacy Care Coordinator, Palliative Care, Abington Hospital Jefferson Health, Elkins Park, PA

Presenters:

Lee Kral, Pharm.D., CPE, Clinical Assistant Professor, The University of Iowa Carver College of Medicine, Iowa City, IA

Tanya J. Uritsky, Pharm.D., CPE, Clinical Pharmacy Specialist Pain Medication Stewardship, Hospital of the University of Pennsylvania, Philadelphia, PA

3:00 p.m. – 4:00 p.m.

South Seas F, Level 3

► Young Leaders, Big Responsibilities: Preparing New Practitioners for Antimicrobial Stewardship

ACTIVITY #: 0204-0000-19-223-L04-P

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

TRACK: CAREER DEVELOPMENT

Learning Objectives:

- Describe the foundational characteristics of an antimicrobial stewardship program.
- Examine the role of the pharmacist leader in antimicrobial stewardship programs.
- Identify ways new practitioners can design and implement antimicrobial stewardship initiatives.
- Apply effective communication strategies to gain success with antimicrobial stewardship initiatives.

Program Chair: Erin K. McCreary, Pharm.D., BCIDP, BCPS,

Infectious Diseases/Antimicrobial Stewardship Clinical Pharmacist, University of Pittsburgh Medical Center, Pittsburgh, PA

Moderator: Brandon K. Hill, Pharm.D., BCPS, Clinical Pharmacist – Infectious Diseases/Antimicrobial Stewardship, University of Virginia Health System, Charlottesville, VA

Presenters:

Brandon K. Hill, Pharm.D., BCPS, Clinical Pharmacist – Infectious Diseases/Antimicrobial Stewardship, University of Virginia Health System, Charlottesville, VA

Erin K. McCreary, Pharm.D., BCIDP, BCPS, Infectious Diseases/Antimicrobial Stewardship Clinical Pharmacist, University of Pittsburgh Medical Center, Pittsburgh, PA

For presenter disclosures, see page 141.

3:00 p.m. – 4:30 p.m.

South Seas B, Level 3

► A Rundown of Recent Literature: New Biologic Therapies and Guideline Updates for Asthma Management

Planned in cooperation with ASHP Section of Ambulatory Care Practitioners

ACTIVITY #: 0204-0000-19-227-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

TRACK: CLINICAL DEVELOPMENT

Learning Objectives:

- Evaluate recent landmark studies available for asthma management.
- Determine implications for patient management in asthma management based on landmark studies.
- Evaluate recent biologic therapies approved for asthma management.
- Discuss updates to the Global Initiative for Asthma (GINA) and U.S. guidelines for asthma management.
- Select specific treatment options for asthma.

Program Chair, Moderator: Amber Lanae Martirosov, Pharm.D., BCACP, BCPS

Clinical Pharmacy Specialist, Ambulatory Care, Henry Ford Health Systems, Clinical Assistant Professor, Department of Pharmacy Practice, Eugene Applebaum College of Pharmacy and Health Sciences, Wayne State University, Detroit, MI

Presenters:

Claudia Hanni, Pharm.D., BCPS, Clinical Pharmacy Specialist Anticoagulation/Internal Medicine, Beaumont Hospital – Royal Oak, Royal Oak, MI

Melissa Lipari, Pharm.D., BCACP, Clinical Assistant Professor, Eugene Applebaum College of Pharmacy and Health Sciences, Wayne State University, Detroit, MI

Amber Lanae Martirosov, Pharm.D., BCACP, BCPS, Clinical Pharmacy Specialist, Ambulatory Care, Henry Ford Health Systems, Clinical Assistant Professor, Department of Pharmacy Practice, Eugene Applebaum College of Pharmacy and Health Sciences, Wayne State University, Detroit, MI

4:00 p.m. – 5:00 p.m.

Lagoon F, Level 2

New Practitioner Networking Session

- What keeps you up at night?
- What professional challenges do you face that are complex and multifaceted, with no clear-cut answers?
- What personal or professional development problems would you like to solve with help from peers who've successfully maneuvered out of similar circumstances?

We encourage you to stick around for a New Practitioner Networking Session designed to help you connect with peers and share information, resources, and ideas you're looking for to tackle your most pressing issues. New practitioners face many challenges as they begin their careers, from seeking board certification to becoming student and resident preceptors, and navigating personal and professional development throughout career transitions. This interactive session will result in new connections, better engagement, and takeaways to improve your practice and pursuit of work-life integration.

ASHP PHARMACY STUDENT FORUM PROGRAMMING

NOTE: The Mandalay Bay Convention Center includes the South Convention Center, the North Convention Center, and the Events Center. **All ASHP sessions, events, and exhibits will take place in the South Convention Center, unless otherwise noted.** To view a map of the convention center, see page 11.

● SATURDAY, DECEMBER 7

7:00 a.m. – 6:00 p.m.

Banyan B, Level 3

Clinical Skills Competition Semi-Final Round

(closed session)

It's the battle of the best and brightest. Winning teams from the preliminary round (school-level) competitions at each college of pharmacy will compete in the semi-final round at the national level, showcasing their clinical skills and knowledge.

Sponsored by the ASHP Foundation and supported by Wolters Kluwer Health

● SUNDAY, DECEMBER 8

7:00 a.m. – 8:30 a.m.

Pharmacy Student Forum Advisory Group Meetings

(by invitation only)

8:30 a.m. – 10:00 a.m.

Lagoon L, Level 2

SSHP Leaders Workshop

Current officers or emerging leaders in Student Societies of Health-System Pharmacy (SSHP) will join other student leaders from across the nation to network, share, and reapply best practices from fundraising to programming.

Moderators:

Jeffrey F. Clark, Pharm.D. Candidate 2021, Vice Chair, Pharmacy Student Forum Executive Committee, Philadelphia College of Osteopathic Medicine – Georgia Campus (PCOM-GA), Suwanee, GA

Jenny Nguyen, Pharm.D. Candidate 2020, Massachusetts College of Pharmacy and Health Sciences University – Boston, Boston, MA

9:00 a.m. – 10:00 a.m.

Mandalay Bay D, Level 2

Student Advocacy Workshop

This session will provide an overview of the components of political advocacy as well as background on key issues affecting pharmacy students.

Moderator: Sara A. Scott, University of North Carolina Eschelman School of Pharmacy, Chapel Hill, NC

Speakers:

Melinda (Mindy) J. Burnworth, Pharm.D., BCPS, FASHP, FAzPA, Professor, Department of Pharmacy, Midwestern University College of Pharmacy – Glendale, Glendale, AZ

John Hertig, Pharm.D., M.S., CPPS, Associate Director, Purdue Center for Medication Safety Advancement, Indianapolis, IN

10:00 a.m. – 11:20 a.m.

Mandalay Bay H, Level 2

Pharmacy Student Forum Opening Session

Join your fellow ASHP Pharmacy Student Forum members to kick off the Midyear meeting. This session will start with a lot of excitement as the top 10 finalist teams from the national Clinical Skills Competition are announced.

Moderator: Sara Bonenfant, Pharm.D. Candidate 2020, Northeast Ohio Medical University, College of Pharmacy, and Chair, Pharmacy Student Forum Executive Committee, Columbia Station, OH

Featured Speaker: Theo Tsaousides, Ph.D., ABPP

Smashing the Brainblocks: How to Overcome the 7 Hidden Barriers to Success

Neuropsychologist Dr. Theo Tsaousides, in a playful and instructive presentation, reveals the brain science that differentiates dreamers from achievers. Dreamers talk about the things they want to do; achievers get them done. Dr. Theo will show you the seven ways in which your brain blocks you from achieving your goals, and how you can free yourself from these dream-killing barriers. Learn how to build confidence, boost your creativity, and pave your way into the league of achievers.



Dr. Theo Tsaousides is a neuropsychologist and author of the book *Brainblocks: Overcoming the 7 Hidden Barriers to Success*, a guide on how to defeat common habits that prevent us from achieving our goals. His expertise is in brain training for cognitive and emotional fitness. Using techniques to improve left-brain logic and right-brain creativity, he helps his clients develop the mental skills they need to overcome their fears, meet their challenges, and reach their goals.

As a clinical assistant professor at the Mount Sinai School of Medicine in New York, Dr. Theo is involved in developing and testing rehabilitation interventions to improve functioning and quality of life after brain injury. His last name is hard to read but really easy to say!

11:30 a.m. – 12:30 p.m.

Mandalay Bay H, Level 2

Mysteries of the Match

Learn how the pharmacy residency matching service works, learn strategies to successfully navigate through the Match, and receive tips on what to do if you don't match.

Moderator: Jenny Nguyen, Pharm.D. Candidate 2020, Massachusetts College of Pharmacy and Health Sciences University – Boston, Boston, MA

Speakers:

Lea S. Eiland, Pharm.D., BCPPS, BCPS, FASHP, FPPAG, Clinical Professor and Associate Department Head, Auburn University Harrison School of Pharmacy, Auburn, AL

Mary Hess, Pharm.D., FASHP, FCCM, FCCP, Associate Dean, Student Affairs, Jefferson College of Pharmacy, Thomas Jefferson University, Philadelphia, PA

1:00 p.m. – 3:50 p.m.

Banyan B, Level 3

Clinical Skills Competition Final Round Presentations

It's the battle of the best and brightest. On Saturday, winning teams from the preliminary round (school-level) competitions at each college of pharmacy competed in the semi-final round at the national level, showcasing their clinical skills and knowledge. Now the top 10 finalist teams defend their case to be crowned champion. Enjoy the range of presentations at this impressive session, and stick around following the presentations for the case review with the national case writer.

Sponsored by the ASHP Foundation and supported by Wolters Kluwer Health

1:30 p.m. – 2:30 p.m.

Mandalay Bay H, Level 2

PhORCAS: The Centralized Application System for Pharmacy Residencies

Learn about PhORCAS and the process for submitting residency applications, including tips to help you through the process. You'll also have the opportunity to ask questions about the service.

Moderator: **Nicholas Nicholas Tomlinson**, Pharm.D. Candidate 2020, University of Colorado Skaggs School of Pharmacy and Pharmaceutical Sciences, and ASHP Pharmacy Student Forum, Executive Committee Member, Aurora, CO

Speakers:

Deborah Erdner, M.S., Vice President, Account Management, Liaison International, LLC, Watertown, MA
Nicole Iarossi, Customer Solutions Manager, Liaison International, LLC, Watertown, MA

2:30 p.m. – 3:30 p.m.

Mandalay Bay H, Level 2

Effective CV Writing and Self-Marketing

Getting ready to enter the pharmacy workforce? Before you know it, potential employers will start requesting your CV. Get real-world advice on how to market your skills effectively, and learn important tips about preparing your CV and how to appropriately market yourself to potential employers.

Moderator: **Jeffrey F. Clark**, Pharm.D. Candidate 2021, Vice Chair, Pharmacy Student Forum Executive Committee, Philadelphia College of Osteopathic Medicine – Georgia Campus (PCOM-GA), Suwanee, GA

Speaker: **Long D. Trinh, Pharm.D., M.S., M.B.A., BCPS**, Regional Director of Pharmacy Operation and Compliance, Oregon, Providence Health & Services, Portland, OR

3:30 p.m. – 4:45 p.m.

Mandalay Bay H, Level 2

Strategies for Personal and Professional Success

Be inspired and motivated to take action in achieving your personal and professional career goals. Panelists of pharmacy leaders will provide examples of how to successfully learn and incorporate skills including work-life integration, emotional intelligence, self-assessment, and mentor-coach-sponsor relationships.

Moderator: **Jeffrey F. Clark**, Pharm.D. Candidate 2021, Vice Chair, Pharmacy Student Forum Executive Committee, Philadelphia College of Osteopathic Medicine – Georgia Campus (PCOM-GA), Suwanee, GA

Speakers:

Joshua Blackwell, Pharm.D., M.S., Clinical Pharmacy Manager, Johns Hopkins Home Care Group, Baltimore, MD
Mark S. Skildum, Pharm.D., BCPS, DPLA, Clinical Pharmacy Manager, United Hospital – part of Allina Health, Saint Paul, MN

5:00 p.m. – 6:00 p.m.

Bayside B, Level 1

Student Society Showcase

Join us as we recognize and celebrate the accomplishments of our ASHP student leaders. Student Societies of Health-System Pharmacy (SSHPs) will spotlight their achievements in the annual Student Society Showcase. Take this opportunity to learn about best practices from SSHPs across the nation, and find out how you can reapply their successful events on your campus.

MONDAY, DECEMBER 9

7:30 a.m. – 5:00 p.m.

Shoreline, Level 2

Personnel Placement Service (PPS)

9:00 a.m. – 10:30 a.m.

Events Center, Level 1

Opening Session

10:45 a.m. – 11:45 a.m.

Bayside A, Level 1

Student Poster Session

11:00 a.m. – 3:00 p.m.

Bayside CD, Level 1

Exhibit Program

11:30 a.m. – 1:00 p.m.

Oceanside B, Level 2

Career Pearls for Students

Undecided about your career path? From clinical to specialty pharmacy, informatics to ambulatory care — the options seem endless. Hear from pharmacists who work in various pharmacy practice settings to learn more about what a day in the life is like. Take away information about careers you have interest in but never took the time to learn about — you may even find something you never knew existed.

Moderator: **Sara A. Scott**, University of North Carolina Eschelman School of Pharmacy, Chapel Hill, NC

11:35 a.m. – 12:15 p.m.

Group 1

Infectious Diseases

Wesley D. Kufel, Pharm.D., AAHIVP, BCIDP, BCPS, Clinical Assistant Professor, Binghamton University School of Pharmacy and Pharmaceutical Sciences, Binghamton, NY

Oncology

Brandon Shank, Pharm.D., M.P.H., BCOP, Clinical Pharmacy Specialist, University of Texas MD Anderson Cancer Center, Houston, TX

Pain Management

Lindsay B. Wells, Pharm.D., Clinical Pharmacy Specialist – Pain Management, Lexington VA Health Care System, Lexington, KY

Residency Showcase™

Bayside B, Level 1

Monday, December 3	1:00 p.m. – 4:00 p.m.
Tuesday, December 4	8:00 a.m. – 11:00 a.m. 1:00 p.m. – 4:00 p.m.

The Residency Showcase is for individuals pursuing residency positions in 2020-21. Make the rounds all in one place — and save time and money. The Residency Showcase is designed for your convenience, allowing you to meet with representatives from hundreds of programs across the country. The showcase is continued on Tuesday, but each program will be available during only one of the three time slots, so plan ahead. Business attire is recommended.

For those students interested in visiting the Residency Showcase but who will not be pursuing a residency in 2020, please wait until the second half to enter the showcase. Be courteous — do not engage programs in a discussion at this point, as this prevents them from talking to those pursuing residency positions next year. We recommend attending the student educational sessions on Monday and Tuesday, which are designed exclusively for P1-P3 students:

- Effective CV Writing and Self-Marketing
- Fundamental Strategies to Secure a Residency: Getting a Head Start as a P1-P3
- Research Fundamentals
- What to Do When the Unexpected Happens

Pediatrics

Amy Holmes, Pharm.D., BCPPS, Clinical Pharmacy Specialist, Novant Health Forsyth Medical Center, Winston Salem, NC

Informatics

Barry M. McClain, Pharm.D., M.S., Director, Pharmacy Information Systems, Aurora Health Care, Aurora, WI

12:20 p.m. – 1:00 p.m.

Group 2

Emergency Medicine

David E. Zimmerman, Pharm.D., BCCCP, BCPS, Associate Professor of Pharmacy, Duquesne University School of Pharmacy, Pittsburgh, PA

Small/Rural Hospital Practice

Todd Lemke, Pharm.D., Director of Pharmacy, CentraCare Health Paynesville, Paynesville, MN

Specialty Pharmacy

Megan Johnson, Pharm.D., Clinical Pharmacist – Oncology, Trellis Rx, Medina, OH

Ambulatory Care

Amber Lanae Martirosov, Pharm.D., BCACP, BCPS, Clinical Pharmacy Specialist, Ambulatory Care, Henry Ford Health Systems, Clinical Assistant Professor, Department of Pharmacy Practice, Eugene Applebaum College of Pharmacy and Health Sciences, Wayne State University, Detroit, MI

Medication Safety

Michael C. Dejos, Pharm.D., BCPS, System Medication Safety Officer, Methodist Le Bonheur Healthcare, Memphis, TN

12:00 p.m. – 1:00 p.m.

Bayside A, Level 1

Student Poster Session

1:30 p.m. – 3:00 p.m.

Oceanside B, Level 2

Fundamental Strategies to Secure a Residency: Getting a Head Start as a P1-P3

In the tough competition for postgraduate positions, how do you stand out? This presentation will provide fundamental tips, a timeline, and answers to some of the questions you may have. You will receive candid advice and guidance that will be directly applicable to your hunt for a postgraduate residency or fellowship, and create an outline of what you will need to do as a student during the P1 to P3 years to successfully prepare yourself for the residency or fellowship application process.

Moderator: **Jeffrey F. Clark, Pharm.D.** Candidate 2021, Vice Chair, Pharmacy Student Forum Executive Committee, Philadelphia College of Osteopathic Medicine – Georgia Campus (PCOM-GA), Suwanee, GA

Speaker: **Joshua Caballero, Pharm.D., BCPP, FCCP**, Associate Professor, Professor and Chair, Department of Clinical and Administrative Sciences, Larkin University, College of Pharmacy, Miami, FL

3:15 p.m. – 4:15 p.m.

What to Do When the Unexpected Happens

Oceanside B, Level 2

This session will discuss strategies for achieving your personal and professional career goals when the unexpected seems to derail you.

Moderator: **Sara Bonenfant, Pharm.D.** Candidate 2020, Northeast Ohio Medical University, College of Pharmacy, and Chair, Pharmacy Student Forum Executive Committee, Columbia Station, OH

Speakers:

Alexandra Angel, Pharm.D., Pharmacy Resident, West Kendall Baptist Health, Miami, FL

Gabe Hinojosa, Pharm.D., PGY2 Hematology Oncology Pharmacy Resident, Northside Hospital, Atlanta, GA

4:15 p.m. – 5:15 p.m.

Bayside A, Level 1

Student Poster Session

● TUESDAY, DECEMBER 10

7:00 a.m. – 9:00 a.m.

Palm C, Level 3

SSHP Faculty Advisor Breakfast Workshop

(by invitation only)

7:30 a.m. – 5:00 p.m.

Shoreline, Level 2

Personnel Placement Service (PPS)

8:00 a.m. – 11:00 a.m.

Bayside B, Level 1

Residency Showcase™

9:30 a.m. – 10:30 a.m.

South Seas J, Level 3

Research Fundamentals

This session is designed to provide foundational knowledge and considerations for completing and sharing the results of a research project. Attendees will learn about the components of research and will hear about how students and new practitioners can engage in research. Students, residents, and new practitioners interested in research or new to research will benefit from this session.

Moderator: **Kelsie Ellis**, Pharm.D. Candidate 2021, The University of Texas at Austin College of Pharmacy, Austin, TX

Speaker: **Jeffrey F. Barletta, Pharm.D., B.S., FCCM**, Professor and Vice Chair of Pharmacy Practice, Midwestern University, College of Pharmacy, Glendale, AZ

10:45 a.m. – 11:45 a.m.

Bayside A, Level 1

Student Poster Session

11:00 a.m. – 3:00 p.m.

Bayside CD, Level 1

Exhibit Program

12:00 p.m. – 1:00 p.m.

Bayside A, Level 1

Student Poster Session

1:00 p.m. – 4:00 p.m.

Bayside B, Level 1

Residency Showcase™

1:00 p.m. – 2:00 p.m.

Oceanside B, Level 2

Personal Financial Management

The days of living off student loans and fast food are coming to an end. You are entering the real world of working professionals — and the real world of mortgages, debt, bills, and investment opportunities. This session will help you manage your finances and learn strategies to handle your current responsibilities while planning for the future.

Moderator: **Sara Bonenfant**, Pharm.D. Candidate 2020, Northeast Ohio Medical University, College of Pharmacy, and Chair, Pharmacy Student Forum Executive Committee, Columbia Station, OH

Speaker: **Shane Westhoelter, AEP, CLU, LUTCF**, President/CEO, Gateway Financial Advisors, Inc., Dublin, CA

2:00 p.m. – 3:15 p.m.

Oceanside B, Level 2

Workforce Well-Being and Resilience

The healthcare workforce is reporting alarming rates of depression, post-traumatic stress disorder, and poor work-life balance, leading to clinician burnout. At the individual clinician level, it presents as emotional exhaustion, depersonalization, and a low sense of accomplishment. At the healthcare system level, it is associated with medical errors and loss of productivity. This presentation will frame the problem of burnout as both a patient care and healthcare workforce problem and introduce attendees to the National Academy of Medicine (NAM) Action Collaborative on Clinical Well-Being and Resilience. ASHP is a sponsor of this Action

Collaborative and working to identify mechanisms that support and ensure a thriving and stable pharmacy workforce. Attendees will also learn simple practices to experience the benefits of meditation.

Moderator: **Jeffrey F. Clark**, Pharm.D. Candidate 2021, Vice Chair, Pharmacy Student Forum Executive Committee, Philadelphia College of Osteopathic Medicine – Georgia Campus (PCOM-GA), Suwanee, GA

Speakers:

Jennie B. Jarrett, Pharm.D., BCPS, M.Med.Ed., Assistant Professor, University of Illinois at Chicago, Chicago, IL

Broanna McQuade, Pharm.D., BCACP, Academic and Family Medicine Research Fellow, University of Illinois at Chicago College of Pharmacy, Chicago, IL

3:15 p.m. – 4:15 p.m.

Oceanside B, Level 2

Diversity, Inclusion, and Cultural Sensitivity

This session will guide students through various scenarios they may encounter throughout their career to demonstrate the need for awareness and understanding of diverse populations.

Moderator: **Nicholas Tomlinson**, Pharm.D. Candidate 2020, University of Colorado Skaggs School of Pharmacy and Pharmaceutical Sciences, and ASHP Pharmacy Student Forum, Executive Committee Member, Aurora, CO

Speakers:

Lindsey R. Kelley, Pharm.D., M.S., FASHP, Director of Ambulatory and Oncology Pharmacy Services, Adjunct Clinical Assistant Professor, University of Michigan College of Pharmacy Residency Program Director, PGY1 Community Pharmacy Residency, University of Michigan Health System, Michigan Medicine, Ann Arbor, MI

Tate N. Trujillo, Pharm.D., BCPS, FASHP, FCCM, Director of Pharmacy and Clinical Nutrition, Director of Post-Graduate Training, Pharmacy, and Program Director, PGY1 Pharmacy Residency & PGY2 Health-System Pharmacy Administration and Leadership Residency, Indiana University Health Adult Academic Health Center, Indianapolis, IN

4:30 p.m. – 5:30 p.m.

Oceanside B, Level 2

Clinical Pearls for Students

Based on the popular Clinical Pearls session for practicing pharmacists, this session is custom-tailored for a student audience. Come hear new practitioners as they share clinical pearls and valuable lessons learned that can help you prepare for residency training or entering practice. This session is planned in collaboration with the New Practitioners Forum Clinical Practice Advisory Group.

8:00 p.m. – midnight Light Nightclub, Mandalay Bay Hotel

► Students' Night Out

Party with a purpose! Join pharmacy students from across the country for a fun night out. Students will have exclusive access from 8:00 p.m. to 10:00 p.m. You must be 21 years or older with proper ID and ASHP meeting badge to enter. Shuttle service will not be provided. For more details, check the ASHP LIVE! app.

PROGRAMMING FOR SMALL & RURAL HOSPITAL PRACTITIONERS

NOTE: The Mandalay Bay Convention Center includes the South Convention Center, the North Convention Center, and the Events Center. **All ASHP sessions, events, and exhibits will take place in the South Convention Center, unless otherwise noted.** To view a map of the convention center, see page 11.

Educational Session Materials

Materials will be available on the web-based itinerary planner for all registered attendees to download or print approximately two weeks prior to the meeting. Download or print the materials for the sessions you plan to attend before the meeting and bring them with you. Handouts will not be provided in the session rooms. Visit www.eventsribe.com/2019/midyear for more information.

SUNDAY, DECEMBER 8

Small and Rural Keynote

12:00 p.m. – 1:15 p.m.

Oceanside B, Level 2

The Changing Landscape of Rural Hospitals

Planned in cooperation with ASHP Section of Inpatient Care Practitioners Advisory Group on Small and Rural Hospitals

ACTIVITY #: 0204-0000-19-340-L04-P

ACTIVITY #: 0204-0000-19-340-L04-T

1.00 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Don't miss the special welcomes and updates from ASHP and Section Advisory Group leaders. CE credit is not available for the welcome portion of this session. Learn about trends in small and rural healthcare and current factors that are driving change. Hear about innovative initiatives in providing care to patients who live in rural communities. New models of care and updates on where pharmacists can positively impact patient care will be discussed.

Learning Objectives:

- Describe factors driving healthcare services provided in small and rural hospitals.
- Discuss issues and trends in rural hospitals impacting pharmacy services provided to patients in rural settings.

Program Chair, Moderator: **Erika Thomas, B.S.Pharm., M.B.A.**, Director, Section of Inpatient Care Practitioners, ASHP, Bethesda, MD

Presenter: **Brock Slabach, M.P.H., FACHE**, Senior Vice President, National Rural Health Association, Leawood, KS



1:15 p.m. – 2:15 p.m.

Oceanside B, Level 2

Integrating Students and Trainees into Pharmacy Clinical Services in the Small and Rural Setting

Planned in cooperation with ASHP Section of Inpatient Care Practitioners

ACTIVITY #: 0204-0000-19-215-L04-P

ACTIVITY #: 0204-0000-19-215-L04-T

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Explain the need for standardization among direct patient activities offered by the pharmacy department.
- Evaluate successful strategies used to integrate pharmacy technicians and trainees into clinical pharmacy services.
- Analyze ways to create a culture of resiliency among pharmacy personnel in the small and rural setting.

Program Chair, Moderator: **Jonathan C. Cho, Pharm.D., M.B.A., BCIDP, BCPS**, Clinical Associate Professor, The University of Texas at Tyler Fisch College of Pharmacy, Tyler, TX

Presenters:

Nathan A. Cookson, Pharm.D., BCPS, Clinical Pharmacist, Alamance Regional Medical Center, Burlington, NC

Kimberly Kelly, Pharm.D., BCPS, Clinical Assistant Professor of Pharmacy Practice, Campbell University, Buies Creek, NC

2:30 p.m. – 3:30 p.m.

Oceanside B, Level 2

Small But Mighty: Improving Safety with High-Alert Medications

Planned in cooperation with ASHP Section of Inpatient Care Practitioners

ACTIVITY #: 0204-0000-19-217-L05-P

ACTIVITY #: 0204-0000-19-217-L05-T

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Based on a national self-assessment, list three categories of high-alert medications with low safe practice implementation rates in small or rural hospitals.
- Describe at least three effective strategies to reduce errors with specific high-alert medications.
- Create a plan to improve the safe use of a category of high-alert medications in the small or rural hospital setting.

Program Chair, Moderator: **Christina Michalek, B.S., R.Ph., FASHP**, Medication Safety Specialist, Institute for Safe Medication Practices, Horsham, PA

Presenters:
Christina Michalek, B.S., R.Ph., FASHP, Medication Safety Specialist, Institute for Safe Medication Practices, Horsham, PA
Deborah Sadowski, M.H.A., B.S., R.Ph., Director of Pharmacy Services, Deborah Heart and Lung Center, Browns Mills, NJ

3:30 p.m. – 4:30 p.m.

Oceanside B, Level 2

► **The Joint Commission Update 2019:
Focus on Small and Rural Hospitals**

*Planned in cooperation with ASHP Section of Inpatient
Care Practitioners*

ACTIVITY #: 0204-0000-19-218-L03-P

ACTIVITY #: 0204-0000-19-218-L03-T

1.00 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

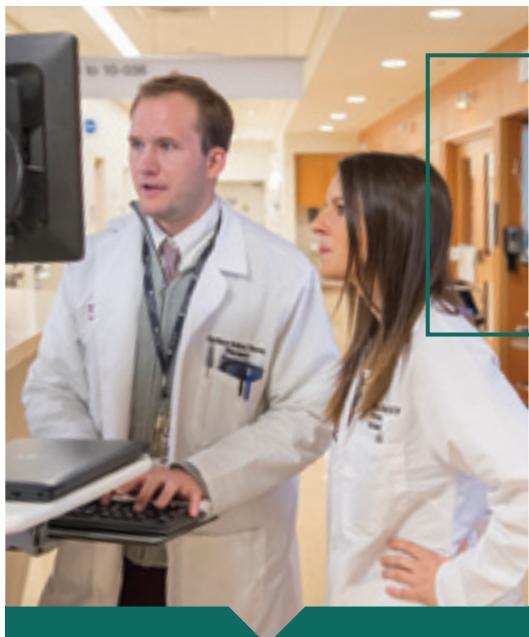
- Describe the most problematic medication standards for small and rural hospitals.

- List strategies to address compliance with the top scored standards.
- Identify new changes to the medication standards that are expected in 2020.

Program Chair, Moderator: **Debra L. Cowan, Pharm.D., B.S.Pharm., FASHP**, Pharmacy Director, Angel Medical Center, Franklin, NC

Presenter:

Jeannell Mansur, Pharm.D., R.Ph., CJCP, FASHP, FSMSO, Principal Consultant, Medication Management and Safety, Joint Commission Resources/Joint Commission International, Chicago, IL



3-YEAR RECERTIFICATION PLANS

The Right Course for Your Career

Affordable, Unlimited, Online

Set your course for recertification by enrolling in an ASHP 3-Year Recertification Plan. Each plan include online access to the entire catalog of recertification activities available for that particular specialty - for only \$12 per month.

\$12/month

(non-members \$24/month)

Visit Booth 1619

or enroll online at

ashpcertifications.org

ashp
pharmacists advancing healthcare®



PHARMACY RESIDENCY & TECHNICIAN TRAINING ACTIVITIES

NOTE: The Mandalay Bay Convention Center includes the South Convention Center, the North Convention Center, and the Events Center. **All ASHP sessions, events, and exhibits will take place in the South Convention Center, unless otherwise noted.** To view a map of the convention center, see page 11.

Pharmacy Technician Training Program Directors and Instructors

● SUNDAY, DECEMBER 8

1:00 p.m. – 2:00 p.m.

Mandalay Bay D, Level 2

New and Prospective Pharmacy Technician Training Program Directors and Instructors Meeting

This session is a must for those thinking about starting a new pharmacy technician training program or for anyone who has recently submitted an application and has not yet had an accreditation site visit. Common questions about the accreditation and survey processes will be discussed. Come and learn the essentials for getting your pharmacy technician training program off to a good start!

2:00 p.m. – 3:00 p.m.

Mandalay Bay D, Level 2

Pharmacy Technician Training: New ASHP/ACPE Pharmacy Technician Education and Training Accreditation Standards For 2020

New ASHP/ACPE accreditation standards are mandatory as of January 1, 2020. This is a must-attend meeting for all parties interested in developing a program or who currently have an ASHP/ACPE-accredited pharmacy technician education and training program. You'll learn about the innovative modifications and changes to the standards, which will prepare pharmacy technicians in entry-level and advanced roles for today and the future.

Representatives from ASHP and ACPE will present the new standards and will answer all questions regarding development of the standards, implementation, and more. This is an interactive session.

Residency Program Directors and Preceptors

● SUNDAY, DECEMBER 8

12:00 p.m. – 1:00 p.m.

Mandalay Bay B, Level 2

PhORCAS: How Programs Can Optimize the WebAdMIT Portal Within PhORCAS

WebAdMIT, the selection portal for PhORCAS, is an amazing tool integrated into the system to make the process of sorting out resident information by residency program directors and preceptors much more efficient and less labor intensive than in the past! Come learn how WebAdMIT can help your program improve the efficiency of the residency selection process for the current application season.

1:00 p.m. – 2:00 p.m.

Mandalay Bay B, Level 2

Getting Started and Applying for Accreditation — Finding the Pathway and Taking the Right Steps

This session is a must for those who are thinking about starting a new residency program. The discussion will cover the application process including the difference between "pre-candidate" and "candidate" designations, core program requirements including residency program director and preceptor qualifications, timeline from application to accreditation, information about the accreditation site visit, and more. Come and learn the essentials for getting your program off to a good start!

2:00 p.m. – 3:00 p.m.

Breakers C, Level 2

Using PharmAcademic to Support Resident Learning

PharmAcademic is a web-based program developed by the McCreadie Group to assist programs with organizing and maintaining certain aspects of residency training. The goal of this session is to help residency program directors, preceptors, and residents understand the structure, use, and features of PharmAcademic to support residency training. Various features of PharmAcademic will be discussed and demonstrated, which may assist programs in the design, implementation, and optimization of PharmAcademic.

3:00 p.m. – 5:00 p.m.

Breakers C, Level 2

Residency Program Directors and Preceptors Town Hall: Updates from the Commission on Credentialing

The Residency Program Directors and Preceptors Town Hall, led by Janet Silvester, Vice President, ASHP Accreditation Services Office, and Jamie Kalus, Chair of the Commission on Credentialing (COC), will provide attendees with the latest updates related to residency accreditation from ASHP and the COC. The forum also provides attendees the opportunity to give input on current issues with residency accreditation and suggestions for future changes. This is a forum not to be missed! All current and future residency programs, preceptors, and residents are encouraged to attend.

● MONDAY, DECEMBER 9

6:30 a.m. – 9:00 a.m.

Mandalay Bay L, Level 2

Veterans Affairs Residency Open Forum

This open forum will provide an opportunity for residency program directors and preceptors to discuss issues related to residency training in the VA system. Representatives from Veterans Affairs, ASHP's Commission on Credentialing, and ASHP Accreditation Services Office will be available for the discussion. Come join your colleagues for an opportunity to network, share best practices, and have your questions answered!

1:00 p.m. – 4:00 p.m.

Bayside B, Level 1

Residency Showcase™

Attention 2020 Graduates! Make the rounds all in one place — and save money and time. The Residency Showcase is the perfect venue for you to begin your residency journey. There are multiple Showcase sessions and each includes a different group of programs, so be sure to review the schedule carefully to plan your visit. Showcase listings will be available in mid-November on the 2019 Midyear Clinical Meeting website and also available at the meeting. For more information, visit midyear.ashp.org/Residency-Showcase. Dress for success — business attire is a must!

The Showcase can be crowded! While the Showcase is open to all students, we ask those who are not graduating in 2020 to schedule their visit during the last hour of the showcase to allow students who are actively pursuing a residency position for the 2020-2021 residency year time to meet with program representatives.

4:30 p.m. – 5:30 p.m.

Banyan B, Level 3

Community Pharmacy Residency Open Forum

This open forum will provide an opportunity for residency program directors and preceptors to discuss issues related to community-based pharmacy residency training with representatives from the ASHP Accreditation Services Office and APhA. Come join your colleagues for an opportunity to network, share best practices, and have your questions answered!

4:30 p.m. – 5:30 p.m.

Palm D, Level 3

Regional Residency Conference Planners Meeting

Come join your fellow residency conference planners from around the country for this informal get-together to share best practices and develop solutions to common challenges in conference planning. Staff from ASHP's Accreditation Services Office will also be on hand to answer your questions.

● TUESDAY, DECEMBER 10

8:00 a.m. – 11:00 a.m.

Bayside B, Level 1

Residency Showcase™

Attention 2020 Graduates! Make the rounds all in one place — and save money and time. The Residency Showcase is the perfect venue for you to begin your residency journey. There are multiple Showcase sessions and each includes a different group of programs, so be sure to review the schedule carefully to plan your visit. Showcase listings will be available in mid-November on the 2019 Midyear Clinical Meeting website and also available at the meeting. For more information, visit midyear.ashp.org/Residency-Showcase. Dress for success — business attire is a must!

The Showcase can be crowded! While the Showcase is open to all students, we ask those who are not graduating in 2020 to schedule their visit during the last hour of the showcase to allow students who are actively pursuing a residency position for the 2020-2021 residency year time to meet with program representatives.

10:00 a.m. – 11:00 a.m.

Lagoon G, Level 2

Ask the Pharmacy Residency Accreditation Surveyors Roundtable Discussion

Lead staff surveyors from the ASHP Accreditation Services Office will be available to answer your questions about starting a residency training program, getting ready for an accreditation survey visit, and more. Join us for a great session where you can speak one-on-one with lead surveyors to get the information that you need. There are two sessions, 10:00 to 11:00 a.m. and 2:00 to 3:00 p.m., to accommodate the busy schedules of those exhibiting at the Residency Showcase™.

1:00 p.m. – 3:00 p.m.

Bayside B, Level 1

Residency Showcase™

Attention 2020 Graduates! Make the rounds all in one place — and save money and time. The Residency Showcase is the perfect venue for you to begin your residency journey. There are multiple Showcase sessions and each includes a different group of programs, so be sure to review the schedule carefully to plan your visit. Showcase listings will be available in mid-November on the 2019 Midyear Clinical Meeting website and also available at the meeting. For more information, visit midyear.ashp.org/Residency-Showcase. Dress for success — business attire is a must!

The Showcase can be crowded! While the Showcase is open to all students, we ask those who are not graduating in 2020 to schedule their visit during the last hour of the showcase to allow students who are actively pursuing a residency position for the 2020-2021 residency year time to meet with program representatives.

2:00 p.m. – 3:00 p.m.

Lagoon G, Level 2

Ask the Pharmacy Residency Accreditation Surveyors Roundtable Discussion

Lead staff surveyors from the ASHP Accreditation Services Office will be available to answer your questions about starting a residency training program, getting ready for an accreditation survey visit, and more. Join us for a great session where you can speak one-on-one with lead surveyors to get the information that you need. There are two sessions, 10:00 to 11:00 a.m. and 2:00 to 3:00 p.m., to accommodate the busy schedules of those exhibiting at the Residency Showcase™.

4:30 p.m. – 5:30 p.m.

Palm B, Level 3

Managed Care Pharmacy Residency Open Forum

This open forum will provide an opportunity for pharmacy residency program directors and preceptors to discuss issues related to managed care pharmacy residency with representatives from ASHP's Commission on Credentialing, the ASHP Accreditation Services Office, and AMCP. A facilitated discussion regarding the recently updated managed care standard (2017) and competency areas, goals, and objectives (2018) will also be provided. Come join your colleagues for an opportunity to network, share best practices, and have your questions answered!

ROUNDTABLE SESSIONS

NOTE: The Mandalay Bay Convention Center includes the South Convention Center, the North Convention Center, and the Events Center. **All ASHP sessions, events, and exhibits will take place in the South Convention Center, unless otherwise noted.** To view a map of the convention center, see page 11.

● SUNDAY, DECEMBER 8

9:00 a.m. – 10:30 a.m.

Bayside B, Level 1

► Roundtable and Poster Session: Pediatrics/Neonatal

Hosted by the ASHP Section of Clinical Specialists and Scientists

Facilitator: Valerie Nolt, Pharm.D., General Pediatrics Clinical Pharmacist Specialist, Melrose Wakefield Healthcare, Ann Arbor, MI

Discussion Topics:

- Policies/protocols/practice related to the use of Zolgensma for spinal muscular atrophy
- Pediatric pharmacy in the ambulatory care clinic and specialty pharmacy settings
- Implementation of vancomycin AUC-based monitoring
- Opioid use in children and stewardship principles for pediatric patients
- Precepting best practices, topic discussions for students and residents, and multi-site residency projects

10:45 a.m. – 12:15 p.m.

Bayside B, Level 1

► Roundtable and Poster Session: What Is Your Organization Doing About Population Health?

Hosted by the ASHP Section of Ambulatory Care Practitioners

Facilitator: Yvette Grando Holman, Pharm.D., BCPS, FASHP, Clinical Pharmacist, Legacy Health, Portland, OR

Discussion Topics:

- Population health and its drivers in your organization
- Health-system successes in population health models
- Populations identified that benefit from care by a pharmacist provider
- Engaging pharmacy in organizations' population health initiatives

11:15 a.m. – 12:15 p.m.

Lagoon G, Level 2

► Roundtable: Investigational Drug Services

Hosted by the ASHP Section of Inpatient Care Practitioners

Facilitator: Nicole Clark, Pharm.D., M.H.A., BCPS, FASHP, FMSHP, Clinical Practice and Education Manager, University of Michigan, Michigan Medicine, C.S. Mott Children's Hospital, Ann Arbor, MI

Discussion Topics:

- Managing sponsor expectations in a unified manner
- Incorporation of USP <800> and investigational drugs that are not NIOSH rated
- Process of handling cellular and gene therapies
- Moving to a paperless system

11:15 a.m. – 12:15 p.m.

Lagoon L, Level 2

► Roundtable: Leveraging Data to Demonstrate Pharmacist Impact on Value-Based Measures

Hosted by the ASHP Section of Pharmacy Practice Leaders

Facilitator: Mary-Haston Leary, Pharm.D., M.S., BCPS, Clinical Manager, UNC Health Care, Chapel Hill, NC

Discussion Topics:

- Process for selection of quality measures for pharmacy value-based performance
- Strategies for data utilization to show performance on key value-based measures

11:15 a.m. – 12:15 p.m.

Lagoon H, Level 2

► Roundtable: Residency Preceptor Skills

Hosted by the ASHP Section of Clinical Specialists and Scientists

Facilitator: Sharon Jones, Pharm.D., B.S.Pharm., BCPS, Clinical Pharm Coordinator, RPD, St. Mary's Medical Center, Huntington, WV

Discussion Topics:

- Building wellness and resiliency into your program/teaching style
- Engaging learners to provide constructive feedback to preceptors
- Strategies for teaching critical thinking and practical application
- Managing under-performing students with foundational deficits
- Optimizing a layered learning model with multi-generational learners

12:30 p.m. – 2:00 p.m.

Bayside B, Level 1

► Roundtable and Poster Session: Critical Care

Hosted by the ASHP Section of Clinical Specialists and Scientists

Facilitator: James Gilmore, Pharm.D., BCCCP, BCPS, Pharmacy Manager, Critical Care and ED, Cedars-Sinai, Los Angeles, CA

Discussion Topics:

- Managing drug shortages
- Practical use of big-ticket therapies
- Burnout experiences and prevention strategies for ICU pharmacists

12:30 p.m. – 1:30 p.m.

Lagoon H, Level 2

► Roundtable: Clinical Leadership

Hosted by the ASHP Section of Clinical Specialists and Scientists

Facilitator: **Marybeth Kazanas, Pharm.D., BCPS**, System Director, Clinical Pharmacy Services, MedStar Health, Elkridge, MD

Discussion Topics:

- Pharmacogenomics and how it will impact current clinical practice
- Opioid stewardship at the health system or site level
- Creating and maintaining robust clinical career ladders at the health system and site level
- Managing high-cost medication

12:30 p.m. – 1:30 p.m.

Lagoon G, Level 2

► Roundtable: Compounding Practice

Hosted by the ASHP Section of Inpatient Care Practitioners

Facilitator: **Kevin N. Hansen, Pharm.D., M.S., BCPS**, Assistant Director of Pharmacy, Sterile Products, Special Formulations, Perioperative Services, Moses H. Cone Memorial Hospital, Greensboro, NC

Discussion Topics:

- Compliance strategies with USP <797> and <800>
- Sterile compounding best practices
- Compounding automation and technology
- Drug shortage mitigation for sterile injectables

12:30 p.m. – 1:30 p.m.

Lagoon F, Level 2

► Roundtable: Pain Management Clinical Practice Advancement: Exchanging Tools of the Trade

Hosted by the ASHP Section of Ambulatory Care Practitioners

Facilitator: **Lindsay Wells, Pharm.D., BCPS**, Clinical Pharmacy Specialist Pain Management, PGY2 Pain Management and Palliative Care Residency Director, Lexington VA Health Care System, Lexington, KY

Discussion Topics:

- Post-discharge pain management strategies
- Potential for gabapentin as a federal controlled substance
- Strategies to decrease opioid used in chronic pain
- CDC 2019 letter update on opioid prescribing guidelines

12:30 p.m. – 1:30 p.m.

Lagoon L, Level 2

► Roundtable: Attaining and Maintaining Specialty Pharmacy Accreditation

Hosted by the ASHP Section of Specialty Pharmacy Practitioners

Facilitator: **Denise Scarpelli, Pharm.D.**, Executive Director of Ambulatory Pharmacy and Business Development

Discussion Topics:

- Unique aspects of the different accrediting bodies for specialty pharmacy
- Best practices and requirements to attain specialty pharmacy accreditation
- Requirements for maintaining accreditation
- How to prepare for reaccreditation

2:15 p.m. – 3:45 p.m.

Bayside B, Level 1

► Roundtable and Poster Session: Emergency Medicine

Hosted by the ASHP Section of Clinical Specialists and Scientists

Facilitators: **Heather Tilley, Pharm.D.**, Emergency Medicine Clinical Pharmacist, Children's National, Washington, DC; **Emily Wiener, Pharm.D.**, Massachusetts General Hospital, Brookline, MA

Discussion Topics:

- Format of resident and student research projects
- Discharge prescription review
- Pros and cons to using automation
- Updates in stroke management

2:30 p.m. – 3:30 p.m.

Lagoon F, Level 2

► Roundtable: Infectious Diseases

Hosted by the ASHP Section of Clinical Specialists and Scientists

Facilitator: **Wesley Kufel, Pharm.D., AAHIVP, BCIDP, BCPS**, Clinical Assistant Professor, Binghamton University School of Pharmacy and Pharmaceutical Sciences, Binghamton, NY

Discussion Topics:

- Implementation of vancomycin AUC-based monitoring
- Duration of therapy considerations for Gram-negative bacteremia
- The pharmacist's role in penicillin skin testing in the inpatient and outpatient setting
- Antimicrobial stewardship initiatives for asymptomatic bacteriuria

2:30 p.m. – 3:30 p.m.

Lagoon G, Level 2

► Roundtable: Nutrition Support

Hosted by the ASHP Section of Clinical Specialists and Scientists

Facilitator: **Brandon Bailey, Pharm.D., BCPS**, Clinical Pharmacy Coordinator, Sharp HealthCare, San Diego, CA

Discussion Topics:

- Current status of alternative intravenous lipids emulsions
- ASPEN standards for nutrition support in hospitalized adults
- Prevention and management of hyperglycemia with parenteral nutrition

MONDAY, DECEMBER 9

11:15 a.m. – 12:15 p.m.

Lagoon L, Level 2

► Roundtable: Ambulatory Care Pharmacotherapy: Getting with the Guidelines

Hosted by the ASHP Section of Ambulatory Care Practitioners

Facilitator: Cassie Heffern, Pharm.D., BCACP, Ambulatory Care Pharmacy Specialist/PGY2 Residency Program Director, CoxHealth, Springfield, MO**Discussion Topics:**

- ADA: Patient-specific antihyperglycemic selection
- GINA: Rescue inhaler therapy
- ACC/AHA: Intensifying lipid control
- Aspirin Therapy: Weighing the risks

11:15 a.m. – 12:15 p.m.

South Seas D, Level 3

► Roundtable: Clinical Decision Support and Analytics

Hosted by the ASHP Section of Pharmacy Informatics and Technology

Facilitator: Calvin "Clay" Daniels, Pharm.D., Ph.D., BCPPS, Clinical Pharmacist, Medication Safety and Informatics, St. Jude Children's Research Hospital, Memphis, TN**Discussion Topics:**

- Artificial intelligence and machine learning in healthcare
- Analytics and dashboard development
- Best informatics practices in pharmacogenomics

11:15 a.m. – 12:15 p.m.

South Seas J, Level 3

► Roundtable: Controversy in Cannabis: Cannabidiol Products and Health-System Approaches

Hosted by the ASHP Section of Pharmacy Practice Leaders

Facilitator: David Hager, Pharm.D., BCPS, Director, Clinical Pharmacy Services, UW Health, Madison, WI**Discussion Topics:**

- Organizational challenges to crafting a cannabidiol (CBD) policy
- Process for handling patients on CBD prior to admission
- Patient and provider education strategies for organizational CBD policy

11:15 a.m. – 12:15 p.m.

Lagoon H, Level 2

► Roundtable: Emerging Sciences

Hosted by the ASHP Section of Clinical Specialists and Scientists

Facilitator: Alex Shillingburg, Pharm.D., BCOP, Clinical Pharmacist, LCI, Charlotte, NC**Discussion Topics:**

- Biomarkers
- Therapeutic biosimilars
- Pharmacogenomics
- Digital medicine, wearables, and care of the "e-patient"

11:15 a.m. – 12:15 p.m.

Banyan B, Level 3

► Roundtable: Precepting Students

Hosted by the ASHP Section of Inpatient Care Practitioners

Facilitator: Allison King, Pharm.D., IDS Pharmacist, PGY1 Coordinator, Children's Mercy Hospital, Kansas City, MO**Discussion Topics:**

- Incorporating IPPE students into the workflow
- Technology and social media use during rotations
- Preventing student and resident burnout
- Preventing preceptor burnout

11:15 a.m. – 12:15 p.m.

Lagoon F, Level 2

► Roundtable: Pharmacy Technicians

Hosted by the ASHP Pharmacy Technician Forum

Facilitator: Tara L. McNulty, CPhT, RPhT, Project Manager, Pharmacy-Quality Improvement, WellCare Health Plans, Inc., Odessa, FL**Discussion Topics:**

- Professional and career ladder development
- Certification efforts and state challenges
- Advanced pharmacy technician models and new strategic initiatives
- Retention and job satisfaction

11:15 a.m. – 12:15 p.m.

Lagoon G, Level 2

► Roundtable: Psychiatry/Neurology

Hosted by the ASHP Section of Clinical Specialists and Scientists

Facilitator: Kayla Johnson, Pharm.D., BCPS, Clinical Pharmacist, Vanderbilt University Medical Center, Nashville, TN**Discussion Topics:**

- Incorporation of non-traditional delivery methods into clinical practice settings
- Incorporation of mental health first aid training into student education
- Management of patients amidst drug shortages
- Calcitonin gene-related peptide (CGRP) inhibitors in the treatment of migraine disorders

11:15 a.m. – 12:15 p.m.

South Seas F, Level 3

► Roundtable: Women in Pharmacy Leadership

Facilitators:**Sara J. White, M.S., FASHP**, Mountain View, CA;
Jennifer E. Tryon, Pharm.D., M.S., FASHP, Executive Director of Pharmacy, Wake Forest Baptist Medical Center, Winston-Salem, NC**Discussion Topics:**

- Empowerment and collaboration
- Authentic and intentional leadership
- Integrating personal and career life
- Engaging advocates: support and success for men and women

12:30 p.m. – 1:30 p.m.

Lagoon G, Level 2

► Roundtable: Anticoagulation

Hosted by the ASHP Section of Clinical Specialists and Scientists

Facilitator: James Lee, Pharm.D., BCACP, Clinical Assistant Professor, University of Illinois at Chicago, Chicago, IL

Discussion Topics:

- Direct oral anticoagulant (DOAC) management: meeting the Joint Commission National Patient Safety Goal and management at the patient and organizational levels
- DOAC reversal
- DOAC use in special populations
- Anticoagulant laboratory monitoring

12:30 p.m. – 1:30 p.m.

Lagoon F, Level 2

► Roundtable: Clinical Applications

Hosted by the ASHP Section of Pharmacy Informatics and Technology

Facilitator: Hesham Mourad, Pharm.D., BCPS, BCPPS, CPHIMS, Medication Management Informaticist, Assistant Professor of Pharmacy, Mayo Clinic, Jacksonville, FL

Discussion Topics:

- Best informatics practices on interoperability
- Pharmacy accountability measures and incorporation into the EHR
- Blockchain definition and uses for pharmacy

12:30 p.m. – 1:30 p.m.

South Seas F, Level 3

► Roundtable: Demonstrating Innovation and Value of Pharmacy in the Ambulatory Care Setting

Hosted by the ASHP Section of Pharmacy Practice Leaders

Facilitator: Brad Myers, Pharm.D., M.B.A., BCPS, Executive Director Pharmacy and Laboratory, University of Missouri Health Care, Columbia, MO

Discussion Topics:

- Managing the changing payer market within infusion centers and retail/specialty pharmacy
- Innovative approaches to managing increased prior authorization responsibilities
- Organizational management of high-cost medication utilization in hospital-owned physician clinics

12:30 p.m. – 1:30 p.m.

Lagoon H, Level 2

► Roundtable: Geriatrics

Hosted by the ASHP Section of Clinical Specialists and Scientists

Facilitator: John Roefaro, Pharm.D., FASHP, Clinical Pharmacy Specialist-Geriatrics, PGY2 Geriatrics-Pharmacy Residency Program Director, VA Boston Healthcare System, Boston, MA

Discussion Topics:

- Statins for primary cardiovascular protection in older adults
- Deprescribing acetylcholinesterase inhibitors and memantine
- Managing the behavioral symptoms of dementia
- Potential career paths for geriatric pharmacists

12:30 p.m. – 1:30 p.m.

Banyan B, Level 3

► Roundtable: Hematology/Oncology

Hosted by the ASHP Section of Clinical Specialists and Scientists

Facilitator: Marco Martino, Pharm.D., M.B.A., BCOP, BCPS, Clinical Pharmacist (Hematology/Oncology), Northwestern Medicine, Chicago, IL

Discussion Topics:

- White bag medication challenges
- Compassionate use medication challenges
- USP <800> implementation
- Using monoclonal antibodies in the inpatient setting

12:30 p.m. – 1:30 p.m.

South Seas D, Level 3

► Roundtable: Specialty Pharmacy Outcomes and Value

Hosted by the ASHP Section of Specialty Pharmacy Practitioners

Facilitator: J. Stuart Deal, Pharm.D., R.Ph., Vice President and General Manager, Summa Health Specialty Pharmacy, Trellis Rx, Akron, OH

Discussion Topics:

- Systems, processes, and resources used to collect, analyze, and share outcomes and value measures
- Benchmarking metrics — third party (accrediting bodies or networks), primary literature
- Pros and cons of partnership collection methods of outcomes and values measures

● TUESDAY, DECEMBER 10

11:15 a.m. – 12:15 p.m.

South Seas J, Level 3

► Roundtable: Immunology/Transplant

Hosted by the ASHP Section of Clinical Specialists and Scientists

Facilitator: Amanda Condon, Pharm.D., BCPS, Transplant Pharmacist, University of New Mexico Hospitals, Albuquerque, NM

Discussion Topics:

- Managing drug shortages
- Treating diabetes in the SGLT2i and GLP-1 era
- Telemedicine: expanding services without taking clinic space
- Leveraging learners to extend and create unique services

11:15 a.m. – 12:15 p.m.

Lagoon L, Level 2

► Roundtable: High-Cost Medications and Organizational Decision Making

Hosted by the ASHP Section of Pharmacy Practice Leaders

Facilitator: Karen Craddick, Pharm.D., MHA, BCPS, Assistant Director Pharmacy, UW Medicine/Northwest Hospital and Medical Center, Seattle, WA

Discussion Topics:

- Organizational decision-making onsite of care to administer high-cost medications
- Organizational decisions surrounding “ultra” high-cost medications

ROUNDTABLE SESSIONS CONTINUED

11:15 a.m. – 12:15 p.m.

Lagoon H, Level 2

► Roundtable: Internal Medicine

Hosted by the ASHP Section of Clinical Specialists and Scientists

Facilitator: **Branden Nemecek, Pharm.D., BCPS**, Associate Professor of Pharmacy Practice, Duquesne University, Pittsburgh, PA

Discussion Topics:

- Staying up-to-date with literature as an internal medicine clinician
- Insulin therapy transitions of care
- Adjuvant pain therapies across the spectrum of care
- Mentoring students outside of their comfort zone

11:15 a.m. – 12:15 p.m.

Banyan B, Level 3

► Roundtable: Pharmacoeconomics and Drug Policy Development

Hosted by the ASHP Section of Clinical Specialists and Scientists

Facilitator: **Megan Holsopple, Pharm.D., BCPS**, Clinical Coordinator and PGY2 DI Program Director, Froedtert & the Medical College of Wisconsin, Milwaukee, WI

Discussion Topics:

- P&T Committees and formulary management: biosimilars and breakthrough therapies
- Price transparency tools at the point-of-prescribing
- Stewardship programs and success metrics
- Adoption of new ASHP competency standards for the PGY2 Medication-Use Safety and Policy Pharmacy Residency

11:15 a.m. – 12:15 p.m.

Lagoon F, Level 2

► Roundtable: Small and Rural Hospitals

Hosted by the ASHP Section of Inpatient Care Practitioners

Facilitator: **Deborah Sadowski, M.H.A., B.S.Pharm.**, Director of Pharmacy Services, Deborah Heart and Lung Center, Browns Mills, NJ

Discussion Topics:

- Leadership development and succession planning
- Balancing clinical and dispensing activities
- Technology challenges and opportunities
- Staffing challenges

11:15 a.m. – 12:15 p.m.

South Seas F, Level 3

► Roundtable: Specialty Pharmacy Workforce Development

Hosted by the ASHP Section of Specialty Pharmacy Practitioners

Facilitator: **Ashley, Kappenman, Pharm.D., M.S., BCPS**, Pharmacy Supervisor, University of Utah Health, Murray, UT

Discussion Topics:

- Pharmacist and resident training and credentialing in specialty pharmacy
- Technician training and credentialing in specialty pharmacy
- Student awareness of specialty pharmacy career path
- Emerging business roles in specialty workforce

12:30 p.m. – 1:30 p.m.

Banyan B, Level 3

► Roundtable: Cardiology

Hosted by the ASHP Section of Clinical Specialists and Scientists

Facilitator: **Frank Rigelsky, Pharm.D., BCPS**, Clinical Specialist Cardiovascular, Cleveland Clinic Hillcrest Hospital, Mayfield Heights, OH

Discussion Topics:

- Direct oral anticoagulants (DOACs) reversal strategies
- PCSK9 inhibitors, the 2018 American Diabetes Association (ADA) Standards of Care guidelines changes, and improvements on patient care
- Board Certified Cardiology Pharmacist (BCCP) exam

12:30 p.m. – 1:30 p.m.

South Seas F, Level 3

► Roundtable: Medication Safety

Hosted by the ASHP Section of Inpatient Care Practitioners

Facilitator: **Katayoon “Kathy” Ghomeshi, Pharm.D., M.B.A., BCPS, CPPS**, Medication Safety Officer, UCSF Medical Center, San Francisco, CA

Discussion Topics:

- Smart pump and electronic health record integration/interoperability
- Cannabidiol (CBD) use in healthcare facilities
- Adopting Standardize for Safety (S4S) national standard concentrations

12:30 p.m. – 1:30 p.m.

South Seas J, Level 3

► Roundtable: Navigating the Reimbursement System: Learning How to Pay the Bills

Hosted by the ASHP Section of Ambulatory Care Practitioners

Facilitator: **Lyndsay Carlson, Pharm.D., BCACP**, Ambulatory Care Clinical Pharmacy Specialist, United Health Services, Johnson City, NY

Discussion Topics:

- Use of facility charges, professional charges, and “incident-to” billing codes
- Generating revenue without using “incident-to” billing codes
- DSMT/E, Medicare AWV, TCM, CCM
- Use of MTM codes

12:30 p.m. – 1:30 p.m.

Lagoon L, Level 2

► Roundtable: Operations and Automation

Hosted by the ASHP Section of Pharmacy Informatics and Technology

Facilitator: **Dennison Lim, Pharm.D.**, Medication Management Informaticist, Southwest Rochester, MN

Discussion Topics:

- USP <800>: Informatics solutions and best practices
- Batch preparation and robotics
- Diversion monitoring and ADC oversight

● WEDNESDAY, DECEMBER 11

11:15 a.m. – 12:15 p.m.

Banyan B, Level 3

► Roundtable: Caregiver Engagement and Conflict Management

Hosted by the ASHP Section of Pharmacy Practice Leaders

Facilitator: Jason T. Wong, Pharm.D., M.B.A., CPPS, DPLA, Perioperative & Controlled Substances Operations Manager, Pharmacy Services, Oregon Health & Science University, Portland, OR

Discussion Topics:

- Being-Knowing-Doing (BKD) Model and tools to encourage and support employee engagement
- Leader preparation for and resolution of conflicts to maintain team engagement

11:15 a.m. – 12:15 p.m.

Lagoon G, Level 2

► Roundtable: Informatics Professional Development

Hosted by the ASHP Section of Pharmacy Informatics and Technology

Facilitator: Marc Willner, Pharm.D., CPHIMS, Lead Pharmacy Informatics Specialist, Residency Program

Director, PGY2 Pharmacy Informatics, Cleveland Clinic, Cleveland, OH

Discussion Topics:

- Implications of PAI 2030 in education of current and future informaticists
- Development of learning experiences for PGY2 informatics programs
- Best practices in teaching project and change management

11:15 a.m. – 12:15 p.m.

South Seas F, Level 3

► Roundtable: Workforce Well-Being and Resilience

Facilitator: Nicole J. Clark, Pharm.D., M.H.A., BCPS, FASHP, FMSHP, Pharmacy Clinical Practice and Education Manager, MelroseWakefield Healthcare, Melrose, MA

Discussion Topics:

- Reflect on NAM consensus study findings and translation to pharmacy practice
- Identify strategies for advancing pharmacy workforce well-being and resilience
- Converse on interprofessional, team-based solutions to improve well-being and resilience



EDUCATIONAL SESSIONS

NOTE: The Mandalay Bay Convention Center includes the South Convention Center, the North Convention Center, and the Events Center. **All ASHP sessions, events, and exhibits will take place in the South Convention Center, unless otherwise noted.** To view a map of the convention center, see page 11.

Educational Session Materials

Materials will be available on the web-based itinerary planner for all registered attendees to download or print approximately two weeks prior to the meeting. Download or print the materials for the sessions you plan to attend before the meeting and bring them with you. Handouts will not be provided in the session rooms.

Visit www.eventsphere.com/2019/midyear for more information.

All educational sessions listed here are available for continuing pharmacy education unless otherwise noted. This program is preliminary and subject to change. For the most current information, visit the meeting website.



Integrated Informatics Institute: Sessions featuring informatics- and technology-focused education.

SATURDAY, DECEMBER 7

8:00 a.m. – 5:00 p.m.

► Pre-Meeting Workshop

Separate registration and fee required. For more information, see page 46.

► Residency Program Design and Conduct (RPDC)

- RPDC A: PGY1 New Programs **Lagoon F, Level 2**
- RPDC B: PGY1 Existing Programs **Breakers C, Level 2**
- PRDC C: PGY2 New and Existing Programs **Lagoon L, Level 2**

SUNDAY, DECEMBER 8

8:00 a.m. – 4:45 p.m. **Premier Ballrooms
312–313, 316–317, Level 3, MGM Grand**

► 340B University™

Separate registration required. For more information, see page 46.

8:00 a.m. – 5:00 p.m. **South Seas J, Level 3**

► Pre-Meeting Workshop

Basic Statistics: A Nonthreatening Approach to the Use of Statistics in Clinical Trials 2019

Separate registration and fee required. For more information, see page 46.

8:00 a.m. – 9:00 a.m. **Mandalay Bay J, Level 2**

► Strategies to Optimize Clinical and Financial Outcomes: The Payer Perspective

ACTIVITY #: 0204-0000-19-219-L04-P

ACTIVITY #: 0204-0000-19-219-L04-T

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

Learning Objectives:

- Compare and contrast formulary management tools and their effect on overall spending, with a focus on generics, rebates, new-to-the-market block, and drug exclusions.
- Analyze opportunities and challenges in using formulary management tools across the healthcare continuum — from patient to plan level.
- Apply best practices to ensure both clinical and financial outcomes for all relevant stakeholders, including patients.
- Identify future enhancements of formulary management tools focused on improving quality care.

Presenter: **Patty Taddei-Allen, Pharm.D., M.B.A., BCACP, BCGP,** Senior Director, Clinical Analytics, WellDyneRx, Lakeland, FL

8:00 a.m. – 9:30 a.m.

Oceanside C, Level 2

► Monitoring of Vancomycin: Don't Gamble on the Therapeutic Window

ACTIVITY #: 0204-0000-19-207-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Summarize the recommendations from the Therapeutic Monitoring of Vancomycin: A Revised Consensus Guideline.
- Identify special patient populations who require additional consideration when monitoring vancomycin.
- Appraise how the revised guidelines will be implemented in pharmacy practice.
- Given a scenario, select appropriate monitoring strategies for vancomycin based on the patient's demographics and disease state.

Program Chair: **Anna Legreid Dopp, Pharm.D.,** Director, Clinical Guidelines & Quality Improvement, ASHP, Bethesda, MD

Presenters:

Jennifer Le, Pharm.D., M.A.S., Professor of Clinical Pharmacy, University of California San Diego Skaggs School of Pharmacy, La Jolla, CA

Thomas Lodise, Pharm.D., Ph.D., Professor, Pharmacy Practice, Albany College of Pharmacy and Health Sciences, Albany, NY

Michael J. Rybak, Pharm.D., M.P.H., Ph.D., Professor of Pharmacy and Medicine, Director, Anti-Infective Research Laboratory, Eugene Applebaum College of Pharmacy and Health Science, Wayne State University, Detroit, MI

8:00 a.m. – 9:30 a.m.

Mandalay Bay L, Level 2

► Advancing Pharmacy Practice with Strategic Clinical Leadership

ACTIVITY #: 0204-0000-19-208-L04-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

Learning Objectives:

- Define strategic clinical leadership in health-system pharmacy practice.
- Integrate clinical leadership awareness into pharmacy enterprise strategy for achieving broader organizational goals and objectives.
- Synthesize a development plan for strategic clinical leadership.
- Identify skills that make a clinician successful in an administrative leadership position.
- Discuss why a clinically trained pharmacy leader is well suited to head departments outside of pharmacy.

Program Chair, Moderator: **Eric M. Tichy, Pharm.D., M.B.A., BCPS, FAST, FCCP**, Vice-Chair – Pharmacy/Formulary, Mayo Clinic, Rochester, MN

Presenters:

Nancy Palamara, Pharm.D., R.P., Director of Pharmacy Services, Infusion Therapy and MS Center, Holy Name Medical Center, Teaneck, NJ

Daryl Schiller, Pharm.D., BCPS-AQ ID, FASHP, Director of Pharmacy Services, Montefiore Nyack Hospital, Nyack, NY

Eric M. Tichy, Pharm.D., M.B.A., BCPS, FAST, FCCP, Vice-Chair – Pharmacy/Formulary, Mayo Clinic, Rochester, MN

8:00 a.m. – 9:30 a.m.

Oceanside B, Level 2

► Call or Fold on Triple Therapy Post Stent? Antithrombotic Strategies to Avoid a Bust

Planned in cooperation with ASHP Section of Clinical Specialists and Scientists

ACTIVITY #: 0204-0000-19-213-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

Learning Objectives:

- Discuss the current guideline recommendations for using dual antiplatelet therapy following drug-eluting stent implantation.
- Evaluate contemporary guideline recommendations on the use of anti-thrombotic agents in acute coronary syndrome (ACS) patients with atrial fibrillation.
- Interpret risk of bleeding vs. ischemic events found in randomized controlled trials utilizing anti-thrombotic agents to treat atrial fibrillation in patients receiving percutaneous coronary intervention (PCI).
- Design an evidence-based anti-thrombotic regimen in a complex patient with atrial fibrillation following drug-eluting stent implantation.

Program Chair, Moderator: **Christopher Betz, Pharm.D., BCPS, FASHP, FKSHP**, Professor, Department of Clinical and Administrative Sciences, Sullivan University College of Pharmacy, Louisville, KY

Presenters:

Christopher Betz, Pharm.D., BCPS, FASHP, FKSHP, Professor, Department of Clinical and Administrative Sciences, Sullivan University College of Pharmacy, Louisville, KY
Snehal H. Bhatt, Pharm.D., AACC, BCPS-AQ Cardiology, FASHP, Professor of Pharmacy Practice, MCPHS University, Framingham, MA

8:00 a.m. – 9:30 a.m.

South Seas F, Level 3

► What They Don't Teach You in Residency: Navigating Workplace Politics

ACTIVITY #: 0204-0000-19-220-L04-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

NOTE: This session is intended for residents and new practitioners.

Learning Objectives:

- Identify strategies to develop positive intra-departmental relationships.
- Evaluate strategies to manage the relationship with your boss.
- Explain the ideal preceptor-resident relationship.
- Apply techniques for communicating with a residency program director.

Program Chair, Moderator: **Carolyn A. Magee, Pharm.D., BCCCP**, Medical Surgical ICU Clinical Pharmacy Specialist, Medical University of South Carolina, Charleston, SC

Presenters:

Aaron M. Cook, Pharm.D., BCCCP, BCPS, FCCP, FKSHP, FNCS, Clinical Coordinator, UKHealthcare, University of Kentucky, Lexington, KY

Christina E. DeRemer, Pharm.D., BCACP, BCPS, FASHP, Clinical Associate Professor, University of Florida College of Pharmacy, Gainesville, FL

Meghan D. Swarthout, Pharm.D., M.B.A., BCPS, Division Director, Ambulatory and Care Transitions Pharmacy, The Johns Hopkins Health System, Baltimore, MD

**YOUR
CLAIM
CREDIT**

All continuing pharmacy education credits must be claimed within 60 days of the live session you attend. To be sure your CE is accepted inside of ACPE's 60-day window, **plan to process your CE before**

January 31, 2020

8:00 a.m. – 9:30 a.m.

South Seas B, Level 3

► When It's OK to Fit a Square Peg into a Round Hole: Exploring the Use of Cancer Medications for Non-Cancer Indications

Planned in cooperation with ASHP Section of Clinical Specialists and Scientists

ACTIVITY #: 0204-0000-19-224-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

NOTE: This session is intended for residents and new practitioners.

Learning Objectives:

- Recognize the appropriate use of cancer medications for non-cancer indications.

- Discuss implications from third-party payers when using cancer medications for non-cancer indications.
- Identify tools and resources available for managing patients on cancer therapies for non-cancer indications.
- Develop the tools needed for ensuring the safe and appropriate use of cancer therapies for non-cancer indications.
- Describe best practices surrounding USP <800> and safe handling around hazardous and non-hazardous medications.

Program Chair: **Elizabeth Dow-Hillgartner, Pharm.D., BCOP, BCPS**, Clinical Pharmacist, Hematology/Oncology, UW Health, Madison, WI

Moderator: **Carolyn J. Oxencis, Pharm.D., BCOP**, Clinical Pharmacy Specialist – Hematology/Oncology, Froedtert & the Medical College of Wisconsin Cancer Center, Clinical Assistant Professor, Medical College of Wisconsin School of Pharmacy, Milwaukee, WI

● ASHP Well-Being Collaborative

All sessions will take place in Oceanside A, Level 2

8:30 a.m. – 5:00 p.m.

Evidence-Based Solutions to Promote Well-Being: Empowering Interprofessional Teams to Advance Patient Care

Join ASHP for an innovative, interactive, and solutions-based day to kick off your 2019 Midyear meeting experience. The day will start with the release of results from a groundbreaking National Academy of Medicine (NAM) consensus study to identify evidence-based solutions to interprofessional workforce issues and will end with collaborative solution-building discussions.

ASHP is a sponsoring member and pharmacy voice to the National Academy of Medicine Action Collaborative on Clinician Well-Being and Resilience. This multi-year interprofessional initiative is raising the visibility of workforce burnout, improving baseline understanding of challenges to well-being, and advancing evidence-based solutions to improve patient care by caring for the caregiver. At the ASHP Well-Being Collaborative, we will build on this work and:

- Review the causes of burnout and consequences for patient care providers and patients.
- Explore components of training, composition, and function of interprofessional teams to maximize care.
- Identify evidence-based systems interventions for patient care providers to mitigate risk.
- Share recommendations with ASHP to improve patient care by supporting the well-being of the workforce.

Interprofessional panel participants from sponsoring organizations of the NAM Action Collaborative on Clinician Well-Being and Resilience will join ASHP members to foster shared solutions. Conclude the day with an ACPE-accredited session on mindfulness.

Moderator:

Jennifer E. Tryon, Pharm.D., M.S., FASHP, Executive Director of Pharmacy, Wake Forest Baptist Medical Center, Winston-Salem, NC

8:30 a.m. – 9:00 a.m.

Welcome and Overview

Kathleen S. Pawlicki, M.S., R.Ph., FASHP, Vice President and Chief Pharmacist, Beaumont Health, Warren, MI

9:00 a.m. – 10:15 a.m.

► Empowering the Healer: Results of the National Academy of Medicine (NAM) Consensus Study

ACTIVITY #: 0204-0000-19-202-L04-P

ACTIVITY #: 0204-0000-19-202-L04-T

1.25 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Explain the purpose of the National Academy of Medicine (NAM) Consensus Study: Systems Approaches to Improve Patient Care by Supporting Clinician Well-Being.
- Describe the results of the NAM consensus study.
- List barriers to implementation of processes to improve clinician well-being.
- Identify strategies for pharmacy leaders to improve clinician well-being.

Program Chair: **Christina Y. Martin, Pharm.D., M.S.**, Director, New Practitioners Forum, ASHP, Bethesda, MD

Presenters:

Laura Aiuppa, M.S., Senior Program Officer, National Academies of Sciences, Engineering, and Medicine, Washington, DC

M. Lynn Crismon, Pharm.D., BCPP, DABCP, FCCP, Dean, James T. Doluisio Regents Chair & Behrens Centennial Professor of Pharmacy, College of Pharmacy, The University of Texas at Austin, Austin, TX

Presenters:

Cassia Griswold, Pharm.D., Clinical Pharmacist, Hematology/Oncology, Mayo Clinic, Phoenix, AZ

Emily Hennes, Pharm.D., Clinical Pharmacist, Pharmaceutical Research Center, UW Health, Madison, WI

9:30 a.m. – 10:00 a.m.

Mandalay Bay J, Level 2

► **(Management Case Study) Outpatient Transition of Care: Improves Revenue and Decreases Readmission**

ACTIVITY #: 0204-0000-19-350-L04-P

0.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe the steps in developing a transitions-of-care team within a hospital-based outpatient pharmacy.

- Identify methods to overcome barriers for providing medications before patient discharge.
- Outline the process to determine the transitions-of-care teams' impact on hospital readmission rates.

Moderator: **Chun-Shien Lee, Pharm.D., BCOP, BCPS**, Assistant Professor, St. John's University, Queens, NY

Presenter: **Cynthia Coffey, Pharm.D.**, Pharmacy Manager, Cardinal Health Inc. & Riverside Regional Medical Center, Newport News, VA

Co-Author: **Victoria Sisitka, B.S.**, Manager, Process Improvement, Riverside Health System, Newport News, VA

10:15 a.m. – 10:30 a.m.

► **Guided Meditation**

Lisa Hanlon Wilhelm, B.S.Pharm., R.Ph., Medication Safety and Compliance Specialist, Penn State Milton S. Hershey Medical Center, Department of Pharmacy, Hershey, PA

10:30 a.m. – 11:30 a.m.

► **Reactions from Interprofessional Panel Participants**

ACTIVITY #: 0204-0000-19-346-L04-P

ACTIVITY #: 0204-0000-19-346-L04-T

1.00 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe interdisciplinary reactions to the National Academy of Medicine (NAM) consensus study.
- Recognize interventions needed to support clinician well-being and resilience.
- Identify areas of agreement on evidence-based systems interventions for patient care for clinicians to apply in team-based care models.

Presenters:

Eileen Barrett, M.D., M.P.H., FACP, FHM, Associate Professor of Medicine, University of New Mexico, Albuquerque, NM

Marie Brown, M.D., MACP, Senior Physician Advisor, American Medical Association, Chicago, IL

Arlene Chung, M.D., FACEP, MACM, Residency Program Director, Maimonides Medical Center, Brooklyn, NY

11:30 a.m. – 1:00 p.m.

Lunch on Own

1:00 p.m. – 4:00 p.m.

► **Collaborative Roundtable Discussion**

This session will provide an interactive opportunity to dissect and digest the NAM consensus study results.

4:00 p.m. – 5:00 p.m.

► **A Mindfulness-Based Approach to Mitigating Burnout in Clinical Pharmacists**

Activity #: 0204-0000-19-212-L04-P

1.00 Contact Hours | Application-based

Educational Level: General Interest

Learning Objectives:

- Describe the current landscape of clinical pharmacist burnout.
- Define mindfulness and its utility in mitigating burnout.
- Apply mindfulness strategies to everyday clinical practice scenarios.
- Demonstrate a mindfulness exercise.

Program Chair, Moderator: **Brianna McQuade, Pharm.D., BCACP**, Academic and Family Medicine Research Fellow, University of Illinois at Chicago College of Pharmacy, Chicago, IL

Presenter: **Jennie B. Jarrett, Pharm.D., BCPS, M.Med.Ed.**, Assistant Professor, University of Illinois at Chicago, Chicago, IL

FEATURED PROGRAMMING: PAIN MANAGEMENT

10:00 a.m. – 11:00 a.m.

South Seas B, Level 3

► **Does the Bud Stop Here?**

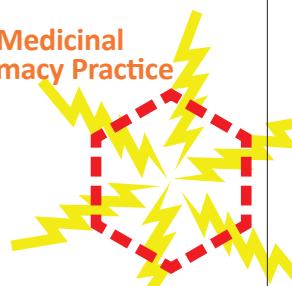
An Update on Legalization of Medicinal Cannabis and Impact on Pharmacy Practice

ACTIVITY #: 0204-0000-19-225-L03-P

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

NOTE: This session is intended for residents and new practitioners.



Learning Objectives:

- Summarize updated information for medicinal cannabis.
- Discuss updates in medicinal cannabis legislation across the United States.
- Compare divergent state laws regarding medicinal marijuana.
- Evaluate the pharmacy's role in managing "patient own" medicinal marijuana including storage within the hospital setting.

Program Chair, Moderator: **Marianne Pop, Pharm.D., BCPS**

Clinical Assistant Professor, Emergency Medicine Clinical Pharmacist

University of Illinois College of Pharmacy, Rockford, IL

Presenters:

Marianne Pop, Pharm.D., BCPS, Clinical Assistant Professor, Emergency Medicine Clinical Pharmacist, University of Illinois College of Pharmacy, Rockford, IL

Andrew P. Smith, Pharm.D., BCCCP, BCPS, Assistant Clinical Professor, PGY2 Emergency Medicine Pharmacy Residency Program Director, Touro College of Pharmacy, New York, NY

10:00 a.m. – 11:00 a.m.

Oceanside C, Level 2

► **CDC Update 2019: Antibiotic Stewardship in America's Hospitals**

ACTIVITY #: 0204-0000-19-337-L04-P

1.00 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Describe the implementation of the Centers for Disease Control and Prevention (CDC) core elements in U.S. hospitals.
- Explain the use of the standardized antimicrobial administration ratio (SAAR) as a tool to guide stewardship efforts.
- List key focus areas for hospital stewardship programs.

Presenter: **Arjun Srinivasan, M.D., CAPT, FSHEA, USPHS**, Associate Director for Healthcare Associated Infection Prevention Programs, Division of Healthcare Quality Promotion, Centers for Disease Control and Prevention, Atlanta, GA

10:00 a.m. – 11:15 a.m.

Oceanside D, Level 2

► **Hazardous Drug Alert! NIOSH Handling and EPA Waste Updates for 2019**

ACTIVITY #: 0204-0000-19-206-L03-P

ACTIVITY #: 0204-0000-19-206-L03-T

1.25 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Distinguish between the National Institute for Occupational Safety and Health (NIOSH) classification of hazardous drugs and the Environmental Protection Agency (EPA) classification of hazardous drugs.
- Given an example, evaluate the process and criteria used to develop the NIOSH list of antineoplastic and hazardous drugs.
- Given a scenario, interpret the new EPA pharmaceutical waste final rule as it applies to health-system pharmacies and handling of hazardous waste.

Program Chair, Moderator: **Michael Ganio, Pharm.D., M.S., BCPS, FASHP**, Director, Pharmacy Practice and Quality, ASHP, Bethesda, MD

Presenters:

Jerald L. Ovesen, Ph.D., Pharmacologist, Centers for Disease Control and Prevention & The National Institute for Occupational Safety and Health (NIOSH), Cincinnati, OH

Charlotte A. Smith, M.S., B.S., R.Ph., Senior Regulatory Advisor, PharmEcology Services, WM Sustainability Services, Wauwatosa, WI

10:00 a.m. – 11:30 a.m.

Mandalay Bay L, Level 2

► **Generating National Impact with the Practice Advancement Initiative (PAI) 2030**

ACTIVITY #: 0204-0000-19-209-L04-P

ACTIVITY #: 0204-0000-19-209-L04-T

1.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

As the decade mark of the initial PAI event approaches, continuing disruption in healthcare such as rising costs, changing workforce and business models, technological and therapeutic advances, and evolution of practice settings require the profession to evaluate a new set of concepts and recommendations. This is necessary to meet the future demands of patient care coupled with the continued advancement of the pharmacy profession. ASHP sought to critically revise the original sets of PAI recommendations to project the next 10 years and beyond in order to align with ASHP's Vision that medication use will be optimal, safe, and effective for all people all of the time. This session will review and describe the new recommendations.

Learning Objectives:

- Describe the history of the Practice Advancement Initiative (PAI) and its future direction.
- Summarize the process of engaging leaders, key constituents, and broader public comment to inform the revision of the PAI recommendations.
- Discuss major themes associated with the PAI 2030 Recommendations.
- Describe how the use of the revised recommendations can be applied to your practice setting to assist with advancing pharmacy practice.

Program Chair, Moderator: **Eric M. Maroyka, Pharm.D., BCPS**, Director, Center on Pharmacy Practice Advancement, ASHP, Bethesda, MD

Presenters:

John S. Clark, Pharm.D., M.S., BCPS, FASHP, Associate Chief Pharmacy Officer, Clinical Associate Professor, Michigan Medicine, University of Michigan College of Pharmacy, Ann Arbor, MI

Julie F. Lanza, CPhT, CSPT, Pharmacy Compliance Specialist, Beth Israel Deaconess Medical Center, Boston, MA

Joseph Lassiter, Pharm.D., M.S., BCPS, CPHIMS, President, The Robertson Group, Portland, OR

Meghan D. Swarthout, Pharm.D., M.B.A., BCPS, Division Director, Ambulatory and Care Transitions Pharmacy, The Johns Hopkins Health System, Baltimore, MD

10:00 a.m. – 11:30 a.m.

Oceanside B, Level 2

► **The Birth of a Bill: Medication Histories for High-Risk Patients**

Planned in cooperation with ASHP Section of Inpatient Care Practitioners

ACTIVITY #: 0204-0000-19-214-L04-P

ACTIVITY #: 0204-0000-19-214-L04-T

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Identify evidence related to errors in medication lists for high-risk patients.
- Given a case study, analyze the legislative process used for Senate Bill 1254 in California.
- Given a scenario, evaluate the training process for pharmacy staff to obtain an accurate medication list.
- Explain the key quality assurance processes to ensure staff competency.
- Describe lessons learned in the development and implementation of the requirement to obtain medication lists for high-risk patients.

Program Chair, Moderator: **Sarah Stephens, Pharm.D., BCPS, CPPS**, Medication Safety Coordinator, Kaweah Delta Health Care District, Visalia, CA

Presenters:

Sarah A. Bajorek, Pharm.D., BCACP, Pharmacy Supervisor – Transitions of Care and Medication Reconciliation, UC Davis Health, Sacramento, CA

Mithu Molla, M.D., M.B.A., FACP, Section Chief, Hospital Medicine, UC Davis Health, Sacramento, CA

Rita Shane, Pharm.D., FASHP, FCSHP, Chief Pharmacy Officer and Professor of Medicine, Cedars-Sinai Medical Center, Los Angeles, CA

10:00 a.m. – 11:30 a.m.

South Seas F, Level 3

► **The Problem with Procrastination: How to Peak your Productivity**

ACTIVITY #: 0204-0000-19-221-L04-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

NOTE: This session is intended for residents and new practitioners.

Learning Objectives:

- Describe the pitfalls of procrastination.
- Explain the necessity for optimizing productivity.
- Apply strategies to maximize the three critical elements of productivity: time, attention, and energy.
- Develop a plan to integrate strategies to optimize time use and increase productivity.

Program Chair, Moderator: **Michael Wolcott, Pharm.D., Ph.D., BCIDPS, BCPS**, Director of Educational Resources and Scholarship, Assistant Professor, UNC Adams School of Dentistry, UNC Eshelman School of Pharmacy, Durham, NC

Presenter: **Laura Meleis, Pharm.D., M.S., BCPS**, Assistant Director, Quality, Compliance, and Regulatory Affairs, Massachusetts General Hospital, Boston, MA

10:15 a.m. – 10:45 a.m.

Mandalay Bay J, Level 2

► **(Management Case Study) Integration + Clarification = Standardization to Improve Outcomes and Goals**

ACTIVITY #: 0204-0000-19-351-L04-P

0.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe a method to integrate critical care clinical decision-making across the health system.
- Outline key components of a new committee charter that may clarify scope and responsibilities.
- Describe successes in health system standardization of clinical practice.

Moderator: **Jason Williamson, Pharm.D., BCPS, CPPS**, Clinical Pharmacy Manager, PGY1 Residency Program Director, Ascension Genesys Hospital, Grand Blanc, MI

Presenter: **Amanda Hansen, Pharm.D., M.H.A., FACHE**, Assistant Director of Pharmacy, Cleveland Clinic, Medina, OH

Co-Author: **Sneha Shah, Pharm.D., BCPS**, Clinical Specialist, Cleveland Clinic, Chagrin Falls, OH

11:00 a.m. – 11:30 a.m.

Mandalay Bay J, Level 2

► **(Management Case Study) Pharmacist-Driven 72-Hour Antimicrobial Time Out**

ACTIVITY #: 0204-0000-19-352-L04-P

0.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Explain the importance of an antimicrobial time out process.
- Describe how to incorporate an antimicrobial time out process into pharmacist workflow.
- Discuss the process of training pharmacists with documentation tools within an electronic medical record.

Moderator: Daniel Pons, Pharm.D., PGY1 Pharmacy

Resident, Children's Mercy, Kansas City, MO

Presenters:

Laura Butkiewich, Pharm.D., M.H.A., MSHI, BCPS, System Pharmacy Clinical Manager, University of Missouri Health Care, Columbia, MO

Journey McCarty, Pharm.D., PGY2 Ambulatory Care Pharmacy Resident, CoxHealth, Searcy, AR

11:45 a.m. – 12:15 p.m.

Mandalay Bay J, Level 2

► **(Management Case Study) Advanced Preparation of Chemotherapy to Improve Turn-around Time in a Large Academic Cancer Center**

ACTIVITY #: 0204-0000-19-353-L04-P

0.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe the workflow advantages for preparing chemotherapy products in advance.
- Discuss steps to successfully implement advanced preparation of chemotherapy (APC).
- Review data-driven results following implementation of APC.

Moderator:

Maggie Randazzo, Pharm.D., BCPS, Pharmacy Clinical Coordinator, Shore Medical Center, Somers Point, NJ

Presenter: James S. Blackmer, Pharm.D., M.P.A., M.S., Pharmacy Manager, Johns Hopkins Hospital, Baltimore, MD

Co-Author: Anthony Boyd, Pharm.D., BCPS, Pharmacy Manager, Cleveland Clinic, Cleveland, OH



12:30 p.m. – 1:00 p.m.

Mandalay Bay J, Level 2

► **(Management Case Study) Don't Overlook Anticoagulation Safety: Importance of DOAC Monitoring Programs**

ACTIVITY #: 0204-0000-19-354-L04-P

0.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

TRACK: EDUCATIONAL SESSIONS

Learning Objectives:

- Describe the importance of DOAC management to ensure safe and effective anticoagulation management.
- Outline the types of clinical surveillance required and interventions encountered for patients on DOAC medications.
- Discuss the resources required and potential cost savings of a DOAC management program.

Moderator: Bridget Gegorski, Pharm.D., M.S., Medication Safety Officer, University Hospitals, Cleveland, OH

Presenter: Antonia DeQuevedo, Pharm.D., CACP, Clinical Coordinator of Anticoagulation, MelroseWakefield Healthcare, Melrose, MA

Co-Author: Nicole J. Clark, Pharm.D., M.H.A., BCPS, FASHP, FMSHP, Pharmacy Clinical Practice and Education Manager, MelroseWakefield Healthcare, Melrose, MA

12:30 p.m. – 1:30 p.m.

Mandalay Bay L, Level 2

► **Rapid Diagnostic Technologies and Antimicrobial Stewardship: Better Together**

Planned in cooperation with ASHP Section of Clinical Specialists and Scientists

ACTIVITY #: 0204-0000-19-210-L01-P

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

Learning Objectives:

- Evaluate current rapid diagnostic technologies available to enhance antimicrobial stewardship.
- Recommend rapid diagnostic technology investments most appropriate and beneficial for a stewardship program.
- Develop a multidisciplinary algorithm for implementation and evaluation of rapid diagnostic technologies.

Program Chair, Moderator: Brandon K. Hill, Pharm.D., BCPS, Clinical Pharmacist – Infectious Diseases/Antimicrobial Stewardship, University of Virginia Health System, Charlottesville, VA

Presenters:

Brandon K. Hill, Pharm.D., BCPS, Clinical Pharmacist – Infectious Diseases/Antimicrobial Stewardship, University of Virginia Health System, Charlottesville, VA

Katherine T. Lusardi, Pharm.D., BCIDP, BCPS-AQ ID, Clinical Pharmacy Specialist, ID & Antimicrobial Stewardship, UAMS Medical Center, Little Rock, AR

12:00 p.m. – 4:30 p.m.

Oceanside B, Level 2

Programming for Small and Rural Hospital Practitioners

12:00 p.m. – 1:15 p.m.

Oceanside B, Level 2

► Small and Rural Keynote: The Changing Landscape of Rural Hospitals

Planned in cooperation with ASHP Section of Inpatient Care Practitioners Advisory Group on Small and Rural Hospitals

ACTIVITY #: 0204-0000-19-340-L04-P

ACTIVITY #: 0204-0000-19-340-L04-T

1.00 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST



Don't miss the special welcomes and updates from ASHP and Section Advisory Group leaders. CE credit is not available for the welcome portion of the session.

Learn about trends in small and rural healthcare and current factors that are driving change. Hear about innovative initiatives in providing care to patients who live in rural communities. New models of care and updates on where pharmacists can positively impact patient care will be discussed.

Learning Objectives:

- Describe factors driving healthcare services provided in small and rural hospitals.
- Discuss issues and trends in rural hospitals impacting pharmacy services provided to patients in rural settings.

Program Chair, Moderator: **Erika Thomas, B.S.Pharm., M.B.A.**, Director, Section of Inpatient Care Practitioners, ASHP, Bethesda, MD

Presenter: **Brock Slabach, M.P.H., FACHE**, Senior Vice President, National Rural Health Association, Leawood, KS

1:15 p.m. – 2:15 p.m.

Oceanside B, Level 2

► Integrating Students and Trainees into Pharmacy Clinical Services in the Small and Rural Setting

Planned in cooperation with ASHP Section of Inpatient Care Practitioners

ACTIVITY #: 0204-0000-19-215-L04-P

ACTIVITY #: 0204-0000-19-215-L04-T

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Explain the need for standardization among direct patient activities offered by the pharmacy department.
- Evaluate successful strategies used to integrate pharmacy technicians and trainees into clinical pharmacy services.
- Analyze ways to create a culture of resiliency among pharmacy personnel in the small and rural setting.

Program Chair, Moderator: **Jonathan C. Cho, Pharm.D., M.B.A., BCIDP, BCPS**, Clinical Associate Professor, The University of Texas at Tyler Fisch College of Pharmacy, Tyler, TX

Presenters:

Nathan A. Cookson, Pharm.D., BCPS, Clinical Pharmacist,

Alamance Regional Medical Center, Burlington, NC
Kimberly Kelly, Pharm.D., BCPS, Clinical Assistant Professor of Pharmacy Practice, Campbell University, Buies Creek, NC

2:30 p.m. – 3:30 p.m.

Oceanside B, Level 2

► Small But Mighty: Improving Safety with High-Alert Medications

Planned in cooperation with ASHP Section of Inpatient Care Practitioners

ACTIVITY #: 0204-0000-19-217-L05-P

ACTIVITY #: 0204-0000-19-217-L05-T

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Based on a national self-assessment, list three categories of high-alert medications with low safe practice implementation rates in small or rural hospitals.
- Describe at least three effective strategies to reduce errors with specific high-alert medications.
- Create a plan to improve the safe use of a category of high-alert medications in the small or rural hospital setting.

Program Chair, Moderator: **Christina Michalek, B.S., R.Ph., FASHP**, Medication Safety Specialist, Institute for Safe Medication Practices, Horsham, PA

Presenters:
Christina Michalek, B.S., R.Ph., FASHP, Medication Safety Specialist, Institute for Safe Medication Practices, Horsham, PA
Deborah Sadowski, M.H.A., B.S., R.Ph., Director of Pharmacy Services, Deborah Heart and Lung Center, Browns Mills, NJ

3:30 p.m. – 4:30 p.m.

Oceanside B, Level 2

► The Joint Commission Update 2019: Focus on Small and Rural Hospitals

Planned in cooperation with ASHP Section of Inpatient Care Practitioners

ACTIVITY #: 0204-0000-19-218-L03-P

ACTIVITY #: 0204-0000-19-218-L03-T

1.00 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe the most problematic medication standards for small and rural hospitals.
- List strategies to address compliance with the top scored standards.
- Identify new changes to the medication standards that are expected in 2020.

Program Chair, Moderator: **Debra L. Cowan, Pharm.D., B.S.Pharm., FASHP**, Pharmacy Director, Angel Medical Center, Franklin, NC

Presenter: **Jeannell Mansur, Pharm.D., R.Ph., CJCP, FASHP, FMSMO**, Principal Consultant, Medication Management and Safety, Joint Commission Resources/Joint Commission International, Chicago, IL

12:30 p.m. – 5:00 p.m.

Oceanside D, Level 2

● Integrated Informatics Institute



We've upgraded! Advances in technology connect all specialties and facets of both practice and personal life. New this year, the 2019 Midyear Clinical Meeting will feature Integrated Informatics Institute content across the meeting. The Midyear meeting will include a total of 13 sessions providing informatics- and technology-focused education. The institute will kick off on Sunday, December 8 with featured programming from 12:30 p.m. to 5:00 p.m. Gather with like-minded informatics professionals to start off your Midyear meeting experience.

12:30 p.m. – 2:00 p.m.

Oceanside D, Level 2

► Informatics: The Essential Ingredient to Enable Genomic Medicine

Planned in cooperation with ASHP Section of Pharmacy Informatics and Technology

ACTIVITY #: 0204-0000-19-203-L04-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

This program is approved for up to 1.50 continuing education (CE) hours for use in fulfilling the continuing education requirements of the Certified Professional in Healthcare Information & Management Systems (CPHIMS) or the Certified Associate in Healthcare Information and Management Systems (CAHIMS).

Learning Objectives:

- Develop a strategy to integrate pharmacogenomic information into the electronic health record (EHR) with clinical decision support.
- Given the type of pharmacogenomic data available, recommend informatics resources and tools to enable the interpretation and use of pharmacogenomic data in the EHR.
- Evaluate emerging technologies and standards that manage and enable the use of pharmacogenomic information for patient care.

Program Chair, Moderator: **James M. Hoffman, Pharm.D., M.S., BCPS, FASHP**, Chief Patient Safety Officer, Associate Member, Pharmaceutical Sciences, St. Jude Children's Research Hospital, Memphis, TN

Presenters:

Allen J. Flynn, Pharm.D., Ph.D., Assistant Professor, University of Michigan Medical School, Ann Arbor, MI

Marylyn D. Ritchie, Ph.D., M.S., B.S., Director, Center for Translational Bioinformatics, University of Pennsylvania, Philadelphia, PA

2:15 p.m. – 3:45 p.m.

Oceanside D, Level 2

► Pharmacy Informatics: A Strategic Business Partner and Third Pillar of Pharmacy Practice

Planned in cooperation with ASHP Section of Pharmacy Informatics and Technology

ACTIVITY #: 0204-0000-19-204-L04-P

ACTIVITY #: 0204-0000-19-204-L04-T

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

This program is approved for up to 1.50 continuing education (CE) hours for use in fulfilling the continuing education requirements of the Certified Professional in Healthcare Information & Management Systems (CPHIMS) or the Certified Associate in Healthcare Information and Management Systems (CAHIMS).

Learning Objectives:

- Identify current and future technology trends impacting pharmacy practice.
- Describe the roles and responsibilities of pharmacy informatics to create a third practice pillar to pharmacy departments.
- Develop strategies to effectively integrate pharmacy informatics into practice.
- Given a scenario, apply appropriate information to propose design concepts for a health-system pharmacy informatics team.

Program Chair, Moderator: **Mark H. Siska, B.S.Pharm., R.Ph., M.B.A. Technology Management**, Chief Pharmacy Informatics Officer, Mayo Clinic, Rochester, MN

Presenters:

Sylvia Belford, Pharm.D., M.S., CPHIMS, FASHP, Operations Administrator, Mayo Clinic, Rochester, MN

Jeffrey Chalmers, Pharm.D., Director, Pharmacy Informatics and Technology, Cleveland Clinic Health System, Cleveland, OH

Steve G. Peters, M.D., Chief Medical Information Officer, Mayo Clinic, Rochester, MN

4:00 p.m. – 5:00 p.m.

Oceanside D, Level 2

► Interoperability: Multi-Site Connectivity Between Smart Infusion Pumps and Electronic Health Records

Planned in cooperation with ASHP Section of Pharmacy Informatics and Technology

ACTIVITY #: 0204-0000-19-205-L04-P

ACTIVITY #: 0204-0000-19-205-L04-T

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

This program is approved for up to 1.00 continuing education (CE) hours for use in fulfilling the continuing education requirements of the Certified Professional in Healthcare Information & Management Systems (CPHIMS) or the Certified Associate in Healthcare Information and Management Systems (CAHIMS).

Learning Objectives:

- Describe the various components involved in interoperability projects.
- List the benefits of interoperability between smart pumps and electronic health records.
- Given a scenario, evaluate challenges and roadblocks in interoperability projects.
- Describe solutions to challenges in interoperability.
- Discuss career growth opportunities available for pharmacists and technicians in interoperability projects.

Presenter: **Ghalib Abbasi, Pharm.D., M.S., M.B.A.**, System Director, Pharmacy Informatics, Houston Methodist Health System, Houston, TX

The ASHP 2019 Federal Forum

The healthcare landscape continues to evolve. Millions of Americans, including clinicians, patients, and patients' families, are in need of new ways of providing support for pervasive healthcare issues. These issues include suicide prevention, substance abuse, and the use of cannabinoids. With substance abuse being among the leading causes of death in the United States and 11 states now having legalized either medical or recreational use of marijuana and its derivatives, there is an urgent need to educate healthcare workers and consumers as to the scientific facts surrounding these issues. Join your federal colleagues in this informative session for an in-depth look at how pharmacists can have an impact.

Moderator: Lieutenant Colonel Christopher Ellison, Pharm.D., U.S. Army Deputy Director, Operations Defense Health Agency Immunization Healthcare Branch, Falls Church, VA

1:00 p.m. – 1:15 p.m.

Oceanside C, Level 2

Welcome Event

1:15 p.m. – 2:15 p.m.

Oceanside C, Level 2

► Federal Forum Keynote: Advancing the Role of the Mental Health Pharmacist — Mental Health, Suicide Prevention, and Substance Abuse

ACTIVITY #: 0204-0000-19-332-L04-P

1.00 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe the responsibilities and opportunities for pharmacy leaders in addressing mental health, substance abuse, and suicide prevention.
- Give examples of strong practice models that have successfully expanded the pharmacist role in these three practice areas.
- Summarize data that demonstrate success in these practice areas.
- Evaluate methods used by federal agencies to expand clinical pharmacist roles in these three practice areas.

Program Chair: William M. (Mike) Heath, M.B.A., R.Ph., President and CEO, Heath Healthcare Consulting, Lexington, KY

Presenters:

CAPT Ted Hall, Pharm.D., U.S. Public Health Service, Advanced Practice Pharmacist and Psychiatric Pharmacist Prescriber, Public Health Service Mental Health Team 2, Lead Administrative Officer, Indian Health Service Heroin, Opioids and Pain Efforts (HOPE) Committee, Office of the Assistant Secretary – National Pain Strategy (NPS) Workgroup, Baraboo, WI

Christopher Thomas, Pharm.D., BCPP, BCPS, Clinical Pharmacy Specialist in Psychiatry and Residency Director for PGY1 and PGY2 (Psychiatry) Residencies, Chillicothe VA Medical Center, Chillicothe, OH

FEATURED PROGRAMMING: PAIN MANAGEMENT

2:15 p.m. – 3:15 p.m.

Oceanside C, Level 2

► Contemporary Issues with Cannabinoids!

ACTIVITY #0204-0000-19-333-L01-P

1.00 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe the current data on the pharmacology of cannabinoids.
- Describe the current data on the potential adverse events and drug interactions of cannabinoids.
- Discuss some of the scientific evidence compiled on the use of these agents as a therapeutic option in numerous disease states.
- Summarize important legal regulatory issues pertaining to federal employees and use of these agents in different states.

Program Chair: William M. (Mike) Heath, M.B.A., R.Ph., President and CEO, Heath Healthcare Consulting, Lexington, KY

Presenters:

Anthony P. Morreale, Pharm.D., M.B.A., BCPS, FASHP, Associate Chief Consultant for Clinical Pharmacy Services and Policy, Pharmacy Benefits Management, Department of Veterans Affairs, Central Office, San Diego, CA

Jill Simonian, Pharm.D., Pharmacist/Marketing Officer/CBD Product Development, Price Rite Pharmacy Carlsbad, CA

3:30 p.m. – 5:00 p.m.

Bayside A, Level 1

► Federal Forum: Meet the Researchers Poster Presentations 2019

ACTIVITY #: 0204-0000-19-345-L04-P

ACTIVITY #: 0204-0000-19-345-L04-T

1.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Identify emerging issues in the profession of pharmacy.
- Discuss current and cutting-edge research.
- Describe key elements to evaluate a research project.

Program Chair: William M. (Mike) Heath, M.B.A., R.Ph., President and CEO, Heath Healthcare Consulting, Lexington, KY

1:00 p.m. – 2:30 p.m.

South Seas F, Level 3

► **Conversations That Connect: Verbal and Nonverbal Skills to Promote Collaboration**

ACTIVITY #: 0204-0000-19-222-L04-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

NOTE: This session is intended for residents and new practitioners.

Learning Objectives:

- Recognize verbal and non-verbal communication barriers.
- Discuss the importance of a concise message in communication.
- List non-verbal techniques that improve communication.
- Practice communication techniques in the management of conflict.

Program Chair, Moderator: **Kellie L.E. Musch, Pharm.D., M.S.**, Pharmacy Manager, Freestanding Emergency Departments, OhioHealth, Columbus, OH

Presenters:

Megan Elavsky, Pharm.D., BCGP, BCPS, WVU Medicine Department of Family Medicine Clinical Specialist, WVU College of Pharmacy Assistant Professor, WVU Medicine Department of Family Medicine, Morgantown, WV

Carolyn A. Magee, Pharm.D., BCCCP, Medical Surgical ICU Clinical Pharmacy Specialist, Medical University of South Carolina, Charleston, SC

FEATURED PROGRAMMING: PAIN MANAGEMENT

1:00 p.m. – 2:30 p.m.

South Seas B, Level 3

► **Mind the Gap: Filling in the Holes of All Things Pain**

Planned in cooperation with ASHP Section of Ambulatory Care Practitioners

ACTIVITY #: 0204-0000-19-226-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

NOTE: This session is intended for residents and new practitioners.

Learning Objectives:

- Distinguish common opioid and non-opioid options for pain management.
- Analyze common disease states associated with complex pain management.
- Illustrate regulatory issues surrounding treatments for substance use disorder.
- Practice opioid conversion calculations between drugs and with various routes and formulations.

Program Chair, Moderator: **Maria Foy, Pharm.D., BCPS, CPE**, Pharmacy Care Coordinator, Palliative Care, Abington Hospital Jefferson Health, Elkins Park, PA

Presenters:

Lee Kral, Pharm.D., CPE, Clinical Assistant Professor, The University of Iowa Carver College of Medicine, Iowa City, IA
Tanya J. Uritsky, Pharm.D., CPE, Clinical Pharmacy Specialist Pain Medication Stewardship, Hospital of the University of Pennsylvania, Philadelphia, PA

FEATURED PROGRAMMING: PAIN MANAGEMENT

1:15 p.m. – 1:45 p.m.

Mandalay Bay J, Level 2

► **(Management Case Study) Addressing Opioid Use Disorder and the Overdose Epidemic at an Urban Academic Medical Center**

ACTIVITY #: 0204-0000-19-355-L04-P

0.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe the foundational elements necessary to catalyze a successful organization-wide initiative to combat opioid use disorder and the overdose epidemic.
- List the steps a pharmacy department can take to reduce inpatient opioid utilization.
- Explain the process a pharmacy department may use to affect discharge prescribing practices.
- Identify steps that emergency department-based pharmacy services can take to combat opioid use disorder and the overdose epidemic.

Moderator: **Christine McLellan, Pharm.D., M.H.A.**,

Pharmacy Clinical Coordinator, Emerson Hospital, Concord, MA

Presenter: **Kevin J. Horbowicz, Pharm.D., BCPS**, Associate Director - Inpatient Clinical Pharmacy Services, Boston Medical Center, Boston, MA

2:00 p.m. – 2:30 p.m.

Mandalay Bay J, Level 2

► **(Management Case Study) Anesthesia Medication Trays: Bigger Is Not Always Better**

ACTIVITY #: 0204-0000-19-356-L04-P

ACTIVITY #: 0204-0000-19-356-L04-T

0.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Identify common medications used by anesthesia providers available in a ready-to-use form.
- Discuss a strategy to perform a gap analysis relative to medication safety in the perioperative area.
- Identify commonly used compounded infusions by anesthesia providers.
- List suggestions to provide a timely pharmacy-prepared product.

Moderator: **Tyler Vest, Pharm.D., M.S., BCPS**, Pharmacy Manager, Automated Dispensing Cabinetry and Controlled Substances, Duke University Hospital, Durham, NC

Presenter: **Paul A. Workman, Pharm.D.**, Clinical Pharmacist Generalist, Michigan Medicine Mott Children's Hospital, Manchester, MI

Co-Author: **Deborah Wagner, Pharm.D., FASHP**, Pediatric Safety Coordinator, Clinical Professor of Pharmacy, Clinical Professor of Anesthesiology, Michigan Medicine, Ann Arbor, MI

FEATURED PROGRAMMING: PAIN MANAGEMENT

2:00 p.m. – 3:30 p.m.

Mandalay Bay L, Level 2

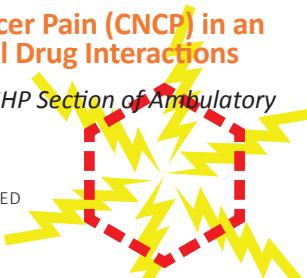
► Treating Chronic Non-Cancer Pain (CNCP) in an Era of Guidelines and Fatal Drug Interactions

Planned in cooperation with ASHP Section of Ambulatory Care Practitioners

ACTIVITY #: 0204-0000-19-211-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED



Learning Objectives:

- Describe the impact that the Centers for Disease Control and Prevention (CDC) Guideline for Prescribing Opioids for Chronic Pain has on chronic opioid therapy (COT) for chronic non-cancer pain (CNCP).
- Identify the flaws in calculations for equianalgesic opioid doses.
- Review the emerging and potentially fatal drug interaction involving gabapentinoids and opioid medications.
- Evaluate the use of the Risk Index for Overdose or Serious Opioid-Induced Respiratory Depression (RioSORD) program for determining opioid overdose risk.

Program Chair, Moderator: Ernest J. Dole, Pharm.D., FASHP, Clinical Pharmacist, University of New Mexico Hospitals, Albuquerque, NM

Presenters:

Ernest J. Dole, Pharm.D., FASHP, Clinical Pharmacist, University of New Mexico Hospitals, Albuquerque, NM
 Jeffrey Fudin, Pharm.D., DAIPM, FASHP, FCCP, FFSMB, Chief Executive Officer, Remitigate, LLC, Delmar, NY

2:45 p.m. – 3:15 p.m.

Mandalay Bay J, Level 2

► (Management Case Study) Cost Containment Through Rule-Based Coding Logic for Carousel Dispensing Technology

ACTIVITY #: 0204-0000-19-357-L04-P

ACTIVITY #: 0204-0000-19-357-L04-T

0.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Evaluate the value of medication waste minimization to a healthcare system.
- Describe a strategy to reduce medication redispenses from a pharmacy carousel system.
- Define a process to assess operational impact of multidose item redispense suppression.

Moderator: Ogechukwu Amaka, Pharm.D., PGY2 Health-System Pharmacy Administration Resident, Harris Health System, Houston, TX

Presenter: Niaz Deyhim, Pharm.D., Health-System Pharmacy Administration and Leadership Resident, Houston Methodist Hospital, Houston, TX

Co-Author: Sunny Bhakta, Pharm.D., M.S., BCPS, Pharmacy Operations Manager, Houston Methodist Hospital, Houston, TX

3:00 p.m. – 4:00 p.m.

South Seas F, Level 3

► Young Leaders, Big Responsibilities: Preparing New Practitioners for Antimicrobial Stewardship

ACTIVITY #: 0204-0000-19-223-L04-P

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

NOTE: This session is intended for residents and new practitioners.

Learning Objectives:

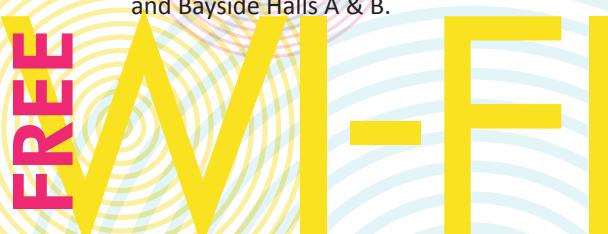
- Describe the foundational characteristics of an antimicrobial stewardship program.
- Examine the role of the pharmacist leader in antimicrobial stewardship programs.
- Identify ways new practitioners can design and implement antimicrobial stewardship initiatives.
- Apply effective communication strategies to gain success with antimicrobial stewardship initiatives.

Program Chair: Erin K. McCreary, Pharm.D., BCIDP, BCPS, Infectious Diseases/Antimicrobial Stewardship Clinical Pharmacist, University of Pittsburgh Medical Center, Pittsburgh, PA

Moderator: Brandon K. Hill, Pharm.D., BCPS, Clinical Pharmacist – Infectious Diseases/Antimicrobial Stewardship, University of Virginia Health System, Charlottesville, VA

Presenters:
 Brandon K. Hill, Pharm.D., BCPS, Clinical Pharmacist – Infectious Diseases/Antimicrobial Stewardship, University of Virginia Health System, Charlottesville, VA
 Erin K. McCreary, Pharm.D., BCIDP, BCPS, Infectious Diseases/Antimicrobial Stewardship Clinical Pharmacist, University of Pittsburgh Medical Center, Pittsburgh, PA

Complimentary Wi-Fi access is available in the North and South Convention Center meeting rooms, public space, Shoreline and Bayside Halls A & B.



Select the network **ASHPMCM19** on your device and use the Conference Access Code **lasvegas19**

3:00 p.m. – 4:30 p.m.

South Seas B, Level 3

► **A Rundown of Recent Literature: New Biologic Therapies and Guideline Updates for Asthma Management**

Planned in cooperation with ASHP Section of Ambulatory Care Practitioners

ACTIVITY #: 0204-0000-19-227-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

NOTE: This session is intended for residents and new practitioners.

Learning Objectives:

- Evaluate recent landmark studies available for asthma management.
- Determine implications for patient management in asthma management based on landmark studies.
- Evaluate recent biologic therapies approved for asthma management.
- Discuss updates to the Global Initiative for Asthma (GINA) and U.S. guidelines for asthma management.
- Select specific treatment options for asthma.

Program Chair, Moderator: **Amber Lanae Martirosov, Pharm.D., BCACP, BCPS**, Clinical Pharmacy Specialist, Ambulatory Care, Henry Ford Health Systems, Clinical Assistant Professor, Department of Pharmacy Practice, Eugene Applebaum College of Pharmacy and Health Sciences, Wayne State University, Detroit, MI

Presenters:

Claudia Hanni, Pharm.D., BCPS, Clinical Pharmacy Specialist Anticoagulation/Internal Medicine, Beaumont Hospital – Royal Oak, Royal Oak, MI

Melissa Lipari, Pharm.D., BCACP, Clinical Assistant Professor, Eugene Applebaum College of Pharmacy and Health Sciences, Wayne State University, Detroit, MI

Amber Lanae Martirosov, Pharm.D., BCACP, BCPS, Clinical Pharmacy Specialist, Ambulatory Care, Henry Ford Health Systems, Clinical Assistant Professor, Department of Pharmacy Practice, Eugene Applebaum College of Pharmacy and Health Sciences, Wayne State University, Detroit, MI

3:30 p.m. – 4:00 p.m.

Mandalay Bay J, Level 2

► **(Management Case Study) Engagement Drivers for Financial Success in Health-System Pharmacy: How to Drive Financial Success Through Team, Clinical, and Operational Engagement**

ACTIVITY #: 0204-0000-19-358-L04-P

ACTIVITY #: 0204-0000-19-358-L04-T

0.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Identify key areas of engagement that are critical for inpatient hospital pharmacy departments.
- Explain the effects of an engaged workforce related to avoidable costs.
- Describe how to leverage relationships to accomplish clinical initiatives through physicians/providers.

Moderator: **Sean Chantarapanont, Pharm.D., BCPS**, Clinical Pharmacy Manager, Community Healthcare System Community Hospital, Munster, IN

Presenter: **Clint Pentz, Pharm.D., M.B.A., BCPS**, Director of Pharmacy, Wellspan Health, Chambersburg, PA

● **MONDAY, DECEMBER 9**

11:15 a.m. – 12:15 p.m.

South Seas B, Level 3

ACPE Organizational Update and Listening Session 2019

Planned in cooperation with The Accreditation Council for Pharmacy Education (ACPE)

NOTE: CE credit will not be offered for this session. This session will provide a general update on the Accreditation Council for Pharmacy Education (ACPE) activities. In addition, input from attendees will be solicited on topics related to ACPE.

Presenters:

Lori Duke, Pharm.D., Assistant Dean for Experience Programs, Interim Lead, Curricular Affairs, UGA College of Pharmacy, Division of Experience Programs, Athens, GA
Janet P. Engle, Pharm.D., Ph.D. (Hon.), FAPhA, FCCP, FNAP, Executive Director, Accreditation Council for Pharmacy Education (ACPE), Chicago, IL

2:00 p.m. – 2:30 p.m.

South Seas D, Level 3

► **(Management Case Study) Professionalizing the Pharmacy Technician Workforce**

ACTIVITY #: 0204-0000-19-359-L04-P

ACTIVITY #: 0204-0000-19-359-L04-T

0.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe the business impact of implementing advanced roles for pharmacy technicians on overall job performance, culture (job satisfaction and retention rates), and recruiting.
- List the five certificate programs for pharmacy technicians that would allow the pharmacist more time for direct patient care.
- Describe the lessons learned from the implementation of the pharmacy technician career ladder.

Moderator: **Miriam Mobley Smith, Pharm.D., B.S.Pharm.**, Evaluation Consultant, Accreditation Council for Pharmacy Education, Chicago, IL

Presenters:

Lindsey Clark, Pharm.D., M.B.A., Pharmacy Manager, Transitions of Care and Emergency Services, Michigan Medicine, Department of Pharmacy Services, Ann Arbor, MI

Ryan S. Mills, Pharm.D., M.H.A., M.B.A., BCPS, Pharmacy Manager, Novant Health, Winston-Salem, NC

2:00 p.m. – 3:15 p.m.

Mandalay Bay L, Level 2

► **The Technician Talent Gap:
Addressing the Technician Workforce Shortage**

ACTIVITY #: 0204-0000-19-237-L04-P

ACTIVITY #: 0204-0000-19-237-L04-T

1.25 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe the cause of technician workforce shortages.
- Describe the impact of technician workforce shortages.
- Examine three solutions that have worked in addressing technician workforce shortages.
- Given a scenario, devise a plan for addressing technician shortages.
- Justify the financial benefits of using recruitment, referral, and retention bonuses.

Program Chair, Moderator: **Kavish J. Choudhary, Pharm.D., M.S.**, Senior Director, Inpatient and Infusion Pharmacy Services, University of Utah Health, Salt Lake City, UT

Presenters:

Ashley Bowden, Pharm.D., M.S., BCPS, Pharmacy Manager, University of Utah Health, Salt Lake City, UT

David Hager, Pharm.D., BCPS, Director – Clinical Pharmacy Services, UW Health, Madison, WI

Kate M. Schaafsma, Pharm.D., M.S., M.B.A., Director of Pharmacy, Froedtert & the Medical College of Wisconsin, Menomonee Falls, WI

2:00 p.m. – 3:30 p.m.

South Seas J, Level 3

► **Updates in Transplantation:
Immunosuppression in Special Populations —
Pediatrics, Pregnancy, and Elderly**

ACTIVITY #: 0204-0000-19-229-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

Learning Objectives:

- Evaluate differences in pharmacokinetics that may alter the approach to immunosuppression in pediatric, pregnant, and elderly transplant recipients.
- Assess the advantages and disadvantages of minimization of immunosuppression in pediatric or elderly transplant recipients.
- Given a description of a patient, design a personalized immunosuppression regimen for a transplant recipient with altered pharmacokinetic and pharmacodynamic properties.

Program Chair, Moderator:

Rochelle S. Liverman, Pharm.D., Transplant Pharmacist Specialist and Residency Program Director, Children's Healthcare of Atlanta, Atlanta, GA

Presenters:

Nicole Alvey, Pharm.D., BCPS, FAST, Associate Professor of Clinical Sciences, Roosevelt University College of Pharmacy, Schaumburg, IL

Jillian P. Casale, Pharm.D., Transplant Clinical Pharmacy Specialist, University of Maryland Medical Center, Baltimore, MD

Rochelle S. Liverman, Pharm.D., Transplant Pharmacist Specialist and Residency Program Director, Children's Healthcare of Atlanta, Atlanta, GA

For presenter disclosures, see page 141.

Don't forget

YOUR
CE
CREDIT

All continuing pharmacy education credits must be claimed within 60 days of the live session you attend. To be sure your CE is accepted inside of ACPE's 60-day window, plan to process your CE before

January 31, 2020

2:00 p.m. – 3:30 p.m.

Mandalay Bay J, Level 2

► **The Use of Ketamine in Critically Ill
Adults and Children**

ACTIVITY #: 0204-0000-19-233-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

TARGET AUDIENCE: BCCCP, BCPPS, BCPS

NOTE: This session is part of the Live Intensive Studies and Clinical Sessions Packages. All attendees may attend these thought-provoking and highly educational sessions. However, if you are board certified, you must purchase the package(s) for your specialty in order to receive the recertification assessment and claim the recertification credit.

Learning Objectives:

- Apply recent literature and logistical considerations in the use of ketamine in cases involving critically ill adult and pediatric patients.
- Develop strategies for the effective use of ketamine for pain management and attenuation or reversal of opioid tolerance in patients in the emergency department or intensive care unit.
- Explain the role of ketamine in adult and pediatric patients with status epilepticus.
- Compare and contrast the use of ketamine for pain management, attenuation of opioid tolerance, and treatment of status epilepticus, between adult and pediatric patients.

Program Chair, Moderator: **Kaitlin M. Hughes, Pharm.D., BCPPS**, Clinical Pharmacist Pediatric Intensive Care, Riley Hospital for Children at IU Health, Indianapolis, IN

Presenters:

James Gilmore, Pharm.D., BCCCP, BCPS, Pharmacy Manager, Critical Care & Emergency Department, Cedars-Sinai Medical Center, Los Angeles, CA

Kaitlin M. Hughes, Pharm.D., BCPPS, Clinical Pharmacist Pediatric Intensive Care, Riley Hospital for Children at IU Health, Indianapolis, IN

For more information, see page 40.

EDUCATIONAL SESSIONS Monday, December 9 CONTINUED

2:00 p.m. – 3:30 p.m.

Lagoon F, Level 2

► 340B Update: Hot Topics and Practice Metrics

Planned in cooperation with ASHP Section of Clinical Specialists and Scientists

ACTIVITY #: 0204-0000-19-235-L04-P

ACTIVITY #: 0204-0000-19-235-L04-T

1.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Summarize current 340B policy.
- Identify key topics in the marketplace.
- Discuss metrics that are currently available for assessing program performance.
- Describe examples of unique practices related to metrics.
- Identify areas to target at your facility for improvement.

Program Chair: Sarah Lee, Pharm.D., M.S., Manager, Education and Compliance Support, Apexus, Irving, TX

Moderator: Christopher A. Hatwig, M.S., R.Ph., FASHP, President, Apexus, Irving, TX

Presenters:

Ashley Mains Espinosa, Pharm.D., M.S., CPHIMS, System Pharmacy Manager, SCL Health, Denver, CO

Amanda R. Grego, Pharm.D., M.S., 340B ACE, 340B Program Manager, Johns Hopkins Home Care Group, Baltimore, MD

Christopher A. Hatwig, M.S., R.Ph., FASHP, President, Apexus, Irving, TX

Sarah Lee, Pharm.D., M.S., Manager, Education and Compliance Support, Apexus, Irving, TX

2:00 p.m. – 3:30 p.m.

Mandalay Bay B, Level 2

► Evaluating IV Workflow Automation for Improved IV Room Safety and USP <797> Compliance

Planned in cooperation with ASHP Section of Pharmacy Informatics and Technology

ACTIVITY #: 0204-0000-19-238-L07-P

ACTIVITY #: 0204-0000-19-238-L07-T

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE



This program is approved for up to 1.50 continuing education (CE) hours for use in fulfilling the continuing education requirements of the Certified Professional in Healthcare Information & Management Systems (CPHIMS) or the Certified Associate in Healthcare Information and Management Systems (CAHIMS).

Learning Objectives:

- Outline safety features of IV workflow management systems.
- Describe new documentation requirements for compounded sterile preparations (CSPs) in the revised USP <797> guidelines.
- Evaluate strategies for the selection of an IV workflow management system.

Program Chair, Moderator: John P. Barickman, B.S.Pharm., M.B.A., FACHE, Senior Pharmacist Consultant, IV Solutions, Omnicell, Mountain View, CA

Presenters:

Eric S. Kastango, B.S.Pharm., M.B.A., FASHP, President and Chief Executive Officer, Clinical IQ, LLC and CriticalPoint, LLC, Madison, NJ

Arpit Mehta, Pharm.D., M.P.H., Director of Pharmacy, Allegheny General Hospital, Pittsburgh, PA

Mark Neuenschwander, B.A., Founder, Director, The THRIV Coalition, Bellevue, WA

2:00 p.m. – 3:30 p.m.

Mandalay Bay D, Level 2

► Drug Diversion Prevention: A Health System Imperative

Planned in cooperation with ASHP Section of Pharmacy Practice Leaders

ACTIVITY #: 0204-0000-19-240-L04-P

ACTIVITY #: 0204-0000-19-240-L04-T

1.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Define four elements of an effective drug diversion program for a multi-hospital health system.
- Identify gaps in your practice site's drug diversion program.
- List five characteristics of surveillance software.

Program Chair, Moderator: Bonnie Levin, Pharm.D., M.B.A., FASHP, Assistant Vice President, Pharmacy Services, MedStar Health, Columbia, MD

Presenters:

Stan Kent, M.S., FASHP, Chief Pharmacy Officer, Michigan Medicine – University of Michigan, Ann Arbor, MI

Bonnie Levin, Pharm.D., M.B.A., FASHP, Assistant Vice President, Pharmacy Services, MedStar Health, Columbia, MD

Debbie H. Simonson, Pharm.D., B.S., Vice President Pharmacy, Ochsner Health system, New Orleans, LA



2:00 p.m. – 3:30 p.m.

Breakers C, Level 2

► Capturing the Needs of the 2030 Patient Today: Artificial Intelligence and the New Pharmacy Value Proposition

ACTIVITY #: 0204-0000-19-242-L04-P

ACTIVITY #: 0204-0000-19-242-L04-T

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE



This program is approved for up to 1.50 continuing education (CE) hours for use in fulfilling the continuing education requirements of the Certified Professional in Healthcare Information & Management Systems (CPHIMS) or the Certified Associate in Healthcare Information and Management Systems (CAHIMS).

Learning Objectives for Pharmacists:

- Given a scenario of a patient's journey with heart disease, recommend where and how the pharmacist may best be inserted to provide maximal patient value through leveraging artificial intelligence (AI) and data collection.
- Interpret how to leverage key healthcare consumer market trends and AI-driven technology platforms.
- Discuss AI-driven technology platforms that seek to create new value for the pharmacist.
- Given a case scenario, develop an outline of a sustainable business plan for a chronic disease patient management service that integrates AI-driven technology to optimize patient outcomes.

Learning Objectives for Pharmacy Technicians:

- Interpret how to leverage key healthcare consumer market trends and AI-driven technology platforms.
- Discuss AI-driven technology platforms that seek to create new value for the pharmacist.
- Given a case scenario, develop an outline of a sustainable business plan for a chronic disease patient management service that integrates AI-driven technology to optimize patient outcomes.

Presenter: Aaron S. Sihota, B.Sc.Pharm., B.Sc., R.Ph., Primary Care Pharmacist and Clinical Instructor, University of British Columbia, Urgent Primary Care Center Vancouver, Vancouver, British Columbia, Canada

2:00 p.m. – 3:30 p.m.

Oceanside C, Level 2

► When Life Happens: Managing Diabetes in the Older Adult Across the Continuum of Care

Planned in cooperation with American College of Clinical Pharmacy

ACTIVITY #: 0204-9999-19-246-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

TARGET AUDIENCE: BCGP, BCACP

NOTE: This session is part of the Live Intensive Studies and Clinical Sessions Packages. All attendees may attend these thought-provoking and highly educational sessions. However, if you are board certified, you must purchase the package(s) for your specialty in order to receive the recertification assessment and claim the recertification credit.

Learning Objectives:

- Design a treatment regimen for an older adult with diabetes mellitus taking into consideration therapeutic goals and other patient-related variables.
- Develop a care plan for an older adult patient with diabetes mellitus who is making the transition from one geriatric care setting to another.
- Summarize the safety and administration concerns with diabetes medications that should be communicated to patients, caregivers, and related healthcare providers across the spectrum of geriatric care settings.
- Evaluate the evidence base for the use of diabetic medications in the older adult.
- Generate practical advice for the use of these agents in this patient population.

Program Chair, Moderator: Amie Blaszczyk, Pharm.D., BCGP, BCPS, FASCP, Associate Professor & Division Head – Geriatrics, Texas Tech University HSC School of Pharmacy, Dallas, TX

Presenters:

Amie Blaszczyk, Pharm.D., BCGP, BCPS, FASCP, Associate Professor & Division Head – Geriatrics, Texas Tech University HSC School of Pharmacy, Dallas, TX

Dana Carroll, Pharm.D., BCGP, BCPS, CDE, Clinical Professor, Auburn University Harrison School of Pharmacy, Northport, AL

For more information, see page 40.

2:00 p.m. – 3:30 p.m.

Mandalay Bay H, Level 2

► Codes That Make You Tachycardic: Emergent Situations in Special Populations

Planned in cooperation with ASHP Section of Clinical Specialists and Scientists

ACTIVITY #: 0204-0000-19-248-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

Learning Objectives:

- Recommend a guideline-supported medication regimen for a pediatric patient with pulseless ventricular tachycardia.
- Develop an appropriate rapid sequence intubation regimen for an obese patient with acute hypoxic respiratory failure.
- Design an appropriate regimen for the initial resuscitation of a hemodynamically unstable pregnant patient.

Program Chair, Moderator: Christopher J. Edwards, Pharm.D., BCPS, Assistant Professor, The University of Arizona College of Pharmacy, Tucson, AZ

Presenters:

Nicole M. Acquisto, Pharm.D., FCCP, BCCCP, Emergency Medicine Clinical Pharmacy Specialist, Department of Pharmacy, Associate Professor, Department of Emergency Medicine, University of Rochester Medical Center, Rochester, NY

Christopher J. Edwards, Pharm.D., BCPS, Assistant Professor, The University of Arizona College of Pharmacy, Tucson, AZ

Brian L. Erstad, Pharm.D., BCPS, FASHP, FCCP, MCCC, Professor and Head, Pharmacy Practice and Science, The University of Arizona College of Pharmacy, Tucson, AZ

2:00 p.m. – 3:30 p.m.

South Seas F, Level 3

► Cracking the Code to a Successful Career in Academic Pharmacy

Planned in cooperation with ASHP Section of Ambulatory Care Practitioners

ACTIVITY #: 0204-0000-19-254-L04-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Identify trends in pharmacy education that are shaping the workforce of the pharmacy profession.
- Outline the potential benefits, opportunities, and challenges associated with a career in academia.
- Given a case study, analyze the requirements for promotion and tenure that are relevant for clinician educators.
- Develop strategies to enhance one's professional career in an academic setting.

Program Chair, Moderator: Michelle L. Hilaire, Pharm.D., BCACP, BCPS, CDE, FCCP, Clinical Professor, University of Wyoming, Laramie, WY

Presenters:

Meghan N. Jeffres, Pharm.D., Associate Professor, University of Colorado Skaggs School of Pharmacy and Pharmaceutical Sciences, Aurora, CO

Cynthia A. Sanoski, Pharm.D., Department Chair, Jefferson College of Pharmacy, Philadelphia, PA

Todd D. Sorensen, Pharm.D., FACP, FAPhA, Professor and Associate Dean for Strategic Initiatives and Innovation, University of Minnesota College of Pharmacy, Minneapolis, MN

2:00 p.m. – 4:00 p.m.

Oceanside D, Level 2

► Medication Safety and Quality Pearls 2019

Planned in cooperation with ASHP Section of Inpatient Care Practitioners

ACTIVITY #: 0204-0000-19-244-L05-P

ACTIVITY #: 0204-0000-19-244-L05-T

2.00 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe three examples of interventions that have improved the safety or quality of patient care in health systems.
- List steps for implementation of at least one safety improvement program.
- Explain how to apply three strategies to prevent patient harm.

Program Chair, Moderator: Michael C. Dejos, Pharm.D., BCPS, System Medication Safety Officer, Methodist Le Bonheur Healthcare, Memphis, TN

Presenters:

Implementation of a Pharmacy-Focused Morbidity, Mortality, and Improvement Conference
Johlee S. Odinet, Pharm.D., BCPS, Medication Safety Officer, Ochsner Medical Center, New Orleans, LA

Evolution of a Pharmacist-Initiated Strategy to Conserve IV Narcotics at a Community Hospital
Jodie Fink, Pharm.D., Pharmacy Clinical Specialist, University Hospitals Ahuja Medical Center, Beachwood, OH

● **IV Workflow Technology Implementation and Maintenance — Good and Bad**

Natalie Kuchik, Pharm.D., Medication Safety Coordinator, UH Rainbow Babies and Children's Hospital, Cleveland, OH

● **Pharmacy Dashboard: How Healthy Is Your Clinical and Safety Program?**

Hayley Burgess, Pharm.D., BCPP, CPPS, Assistant Vice President, Clinical Pharmacy and Medication Safety, HCA, Nashville, TN

● **Medication Error Reduction Plan (MERP): A Map for Safety Improvement**

Katayoon Kathy Ghomeshi, Pharm.D., M.B.A., BCPS, CPPS, Medication Safety Officer, UCSF Medical Center, San Francisco, CA

● **Using Grant Funds to Catalyze Medication Safety Initiatives**

Elora Hilmas, Pharm.D., BCPS, Clinical Coordinator, Nemours/Alfred I. DuPont Hospital for Children, Wilmington, DE

● **Improving Adverse Drug Reaction Reporting**

Mario Giulietti, Pharm.D., PGY1 Pharmacy Resident, Nemours/Alfred I. DuPont Hospital for Children, Wilmington, DE

● **Applying Pharmacogenetics: More Risk or Reward?**

Benjamin Q. Duong, Pharm.D., Clinical Pharmacogenomics Service Manager, Nemours Children's Health System, Wilmington, DE

● **A Harsh Reality: The Second Victim Phenomenon**

Jina Patel, Pharm.D., PGY2 Pharmacy Resident, Penn State Health Milton S. Hershey Medical Center, Camden-Wyoming, DE

● **A Scoring System: Impact of Pharmacist Interventions**

Dana H. Manning, Pharm.D., LDN, RD, Associate Professor, Wilkes University, Wilkes-Barre, PA

● **Minimizing Errors in Pediatric Patients Receiving Home Parenteral Nutrition at Transitions of Care**

Kathleen M. Gura, Pharm.D., BCNSP, FASHP, FASPPN, FMSHP, FPPAG, Clinical Research Program Manager, Boston Children's Hospital, Boston, MA

● **Considerations for Ordering IV and Oral Solutions for Pediatric Patients**

Calvin C. Daniels, Pharm.D., Ph.D., BCPPS, Clinical Pharmacist, Medication Safety and Informatics, St. Jude Children's Research Hospital, Memphis, TN

● **Lions and Tigers and Opioids, Oh My! — Ambulatory Care Opioid Stewardship Amidst a National Crisis**

Jenny Panic, Pharm.D., PGY2 Pharmacy Resident, Medication Use Safety and Policy, Marshfield Clinic, Marshfield, WI

● **Maintaining Medication Safety Through Biosimilar Implementation**

Margaret Kronz, Pharm.D., Pharmacist, University Hospitals, Cleveland, OH

● **Best Practices and Resources for Medication Safety Committees**

Kristin A. Tuiskula, Pharm.D., Clinical Coordinator, Medication Safety, Massachusetts General Hospital, Boston, MA

- **Quality Improvement and Informatics Collaborative: A Vital Partnership for Adverse Drug Events Reduction**
Lindsay Kalata, Pharm.D., Clinical Informatics Pharmacist, Nationwide Children's Hospital, Columbus, OH
- **Oral Chemotherapy Safety Practices**
Oxana Megherea, Pharm.D., PGY2 Oncology Pharmacy Resident, The Johns Hopkins Hospital, Baltimore, MD
- **Modern Patient Advocacy: Engaging a Family After a Healthcare System Breakdown**
Liz Hess, Pharm.D., M.S., FISMP, Pharmacy Program Coordinator Medication Use Safety & Quality, UK HealthCare, Lexington, KY
- **Informatics Pharmacists Role for Safety in Anesthesia**
Juste Munezero, Pharm.D., Medication Management Informaticist, Mayo Clinic, Rochester, MN

2:00 p.m. – 4:00 p.m.

Oceanside A, Level 2

► **Willing to Bet You're Prepared? Don't Gamble with The Joint Commission Standards!**

ACTIVITY #: 0204-0000-19-247-L03-P

ACTIVITY #: 0204-0000-19-247-L03-T

2.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Identify gaps in accreditation preparation.
- Summarize the most important compliance issues associated with the top medication-related deficiencies cited in Joint Commission surveys.
- Discuss the importance of identifying problematic areas prior to surveys.
- Explain how to develop a successful action plan for compliance.
- Justify the importance of implementing a reporting culture.
- Assess the positive effects of a reporting culture on medication safety.

Program Chair, Moderator: **Robert C. Jordin, B.S.Pharm., R.Ph.**, Director, Accreditation and Medication Safety, Cardinal Health Innovative Delivery Solutions, Houston, TX

Presenters:

Robert C. Jordin, B.S.Pharm., R.Ph., Director, Accreditation and Medication Safety, Cardinal Health Innovative Delivery Solutions, Houston, TX

Patricia C. Kienle, B.S.Pharm., M.P.A., FASHP, Director, Accreditation and Medication Safety, Cardinal Health Innovative Delivery Solutions, Wilkes-Barre, PA

Lee B. Murdaugh, B.S.Pharm., Ph.D., Director, Accreditation and Medication Safety, Cardinal Health Innovative Delivery Solutions, Knoxville, TN

Natasha Nicol, Pharm.D., FASHP, Director, Global Patient Safety Affairs, Cardinal Health Innovative Delivery Solutions, Pawleys Island, SC

2:00 p.m. – 4:30 p.m.

Lagoon L, Level 2

► **Bridging Gaps and Removing Barriers: Advances and Major Challenges in International Pharmacy Practice (featuring the Donald E. Francke Medal Lecture)**

ACTIVITY #: 0204-0000-19-228-L04-P

ACTIVITY #: 0204-0000-19-228-L04-T

2.00 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

The Donald E. Francke medalist will present at 2:00 p.m. The educational session starts immediately after the lecture at 2:30 p.m. The ASHP Board of Directors' Donald E. Francke Medal was established to honor pharmacists who have made significant international contributions to advance pharmacy practice.

All attendees of this session are invited to join the medalist after the session to offer congratulations at a special reception for international registrants. Additionally, international registrants and invited guests will have the unique opportunity to learn about best practices from a select group of international attendees presenting posters at the reception. The reception is an opportunity to network with your friends and colleagues from around the world. Light refreshments will be served.

Learning Objectives:

- Discuss diverse international pharmacy practice models.
- Explain the impact of diverse pharmacy practices on patient care.
- Describe the variation in the availability, type, and quality of pharmacy services within and between countries.
- Identify the opportunities for pharmacy to support public health goals to diminish disparities and inequities in access to care.

Program Chair, Moderator: **Eric M. Maroyka, Pharm.D., BCPS**, Director, Center on Pharmacy Practice Advancement, ASHP, Bethesda, MD

Presenters:

Mohamed Hisham Basheer, Pharm.D., BCCCP, Clinical Staff Pharmacist, Cleveland Clinic Abu Dhabi, Abu Dhabi, United Arab Emirates

Michael J. Dooley, B.Pharm., Ph.D., GradDipHospPharm, AdvPractPharm, Director of Pharmacy, Professor of Clinical Pharmacy, Alfred Health, Melbourne, Victoria, Australia

Petr Horak, Pharm.D., President, European Association of Hospital Pharmacists, Brussels, Belgium

David J. Wright, B.Pharm. (Hons.), Ph.D., PGCE, Professor of Pharmacy Practice, University of East Anglia, Norwich, England, United Kingdom

Esteban Zavaleta, Pharm.D., M.S.M., Director of Pharmacy, Hospital Clinica Biblica, San Jose, Costa Rica

Bo Zhang, M.S., Director of Pharmacy, Peking Union Medical College Hospital, Beijing, China

EDUCATIONAL SESSIONS Monday, December 9 CONTINUED

2:45 p.m. – 3:15 p.m.

South Seas D, Level 3

► (Management Case Study) Saving Money by Implementing a Medication Expiration Management Program

ACTIVITY #: 0204-0000-19-360-L04-P

ACTIVITY #: 0204-0000-19-360-L04-T

0.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Identify the best way to harvest data to quantify expired and near-expiration medications at a hospital pharmacy.
- Define a future state of workflow that can combine the effort to rotate expiring soon medications along with the medication restocking process.
- Explain the elements of a medication rotation effort to refine the process and establish value elements.

Moderator: Matthew Piskun, Pharm.D., M.B.A., Director of Pharmacy, Shore Medical Center, Somers Point, NJ

Presenter: Rebekah M. Stottlemeyer, CPhT, Pharmacy Technician, Ohiohealth, Columbus, OH

3:00 p.m. – 5:00 p.m.

South Seas B, Level 3

► Therapeutic Debates 2019

Planned in cooperation with ASHP Section of Clinical Specialists and Scientists

ACTIVITY #: 0204-0000-19-245-L01-P

2.00 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: ADVANCED

Learning Objectives:

- Explain why therapeutic controversies might occur in clinical practice.
- Identify three therapeutic areas in which controversies may exist.
- Discuss the pros and cons of selected therapeutic issues.

Program Chair, Moderator: Christi Jen, Pharm.D., BCPS, FAzPA, Clinical Pharmacy Manager, Honor Health Deer Valley Medical Center, Phoenix, AZ, and Clinical Assistant Professor, The University of Arizona College of Pharmacy, Pharmacy Practice and Science, Tucson, AZ

Debate Topics:

● Ketamine vs. Other Agents for Non-Opioid Pain Management

Pro: Megan Corrigan, Pharm.D., M.P.H., BCPS, Clinical Pharmacy Manager, Advocate Good Samaritan Hospital, Downers Grove, IL

Con: Katelyn R. Dervay, Pharm.D., M.P.H., BCPS, FASHP, Pharmacotherapy Specialist – Emergency Medicine and Director, PGY2 Emergency Medicine Residency, Tampa General Hospital, Tampa, FL

● Angiotensin II for Vasodilatory Shock

Pro: Lisa M. Voigt, Pharm.D., B.S., BCCCP, BCPS, Clinical Pharmacy Coordinator/Critical Care, Buffalo General Medical Center, Buffalo, NY

Con: Jason A. Ferreira, Pharm.D., BCCCP, BCPS, Critical Care Pharmacy Specialist, University of Florida Health, Jacksonville, FL

● Single- vs. Dual-Antiplatelet Therapy in Acute Phase of Stroke/TIA

Pro: Jessica Starr, Pharm.D., BCPS, FCCP, Associate Clinical Professor, Auburn University, Homewood, AL

Con: Jeffrey Mucksavage, Pharm.D., BCPS, Clinical Assistant Professor Clinical Pharmacist – Neurocritical Care, University of Illinois at Chicago College of Pharmacy, Chicago, IL

3:30 p.m. – 4:00 p.m.

South Seas D, Level 3

► (Management Case Study) Strategies to Increase Pharmacy Technician Retention in a Multi-State, Multi-Hospital Health System

ACTIVITY #: 0204-0000-19-361-L04-P

ACTIVITY #: 0204-0000-19-361-L04-T

0.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Identify three strategies for increasing pharmacy technician retention.
- Explain the importance of pharmacy technician engagement to create positive impact.
- Describe common role dissatisfiers for pharmacy technicians.

Moderator: Miriam Mobley Smith, Pharm.D., B.S.Pharm., Evaluation Consultant, Accreditation Council for Pharmacy Education, Chicago, IL

Presenter: Christina C. Andros, Pharm.D., M.B.A., BCPS, Director of Pharmacy, Advocate Aurora Health, Sheboygan, WI

Co-Author: Arlene Igar, B.S.Pharm., M.S., FASHP, Vice President, Pharmacy Operations, Advocate Aurora Health, Milwaukee, WI

FEATURED PROGRAMMING: PAIN MANAGEMENT

3:45 p.m. – 5:15 p.m.

Mandalay Bay F, Level 2

► The Cannabis Conundrum: Panacea or Pandora's Box — a Focus on Pain and Mental Health

ACTIVITY #: 0204-0000-19-250-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Given a case study, evaluate the harms and benefits of tetrahydrocannabinol and cannabidiol when used for therapeutic purposes.
- Examine the role, based on evidence, of cannabinoids in chronic pain and mental health disorders.
- Compare the different pharmacokinetic profiles based on the route or method of consumption of cannabis.
- Examine the difference between cannabis regulation of medical products compared to the regulation of pharmaceutical products.
- Summarize the research gaps present in the study of cannabis.

Program Chair, Moderator: Vikas Parihar, Pharm.D., B.Sc. Pharm., Clinical Pharmacist, Hamilton Health Sciences – Michael G. DeGroote Pain Clinic, Hamilton, Ontario, Canada

Presenters:

Karen Ng, Pharm.D., B.Sc.Phm., ACPR, Clinical Pharmacist, Toronto Academic Pain Medicine Institute, Women's College Hospital, Toronto, Ontario, Canada

Maria Zhang, Pharm.D., B.Sc.Phm., M.Sc., R.Ph., Clinician Educator, Centre for Addiction and Mental Health, Toronto, Ontario, Canada



CE POWER HOUR

It's amazing what you can learn in a short period of time. Don't miss out on the final hour of programming. Rev up your learning with these Power Hour choices.

4:00 p.m. – 5:00 p.m.

South Seas J, Level 3

1 Critical Skills: A Case-Based Approach to Immunotherapy-Induced Medical Emergencies in Non-Oncology Settings

Planned in cooperation with ASHP Section of Clinical Specialists and Scientists

ACTIVITY #: 0204-0000-19-230-L01-P

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

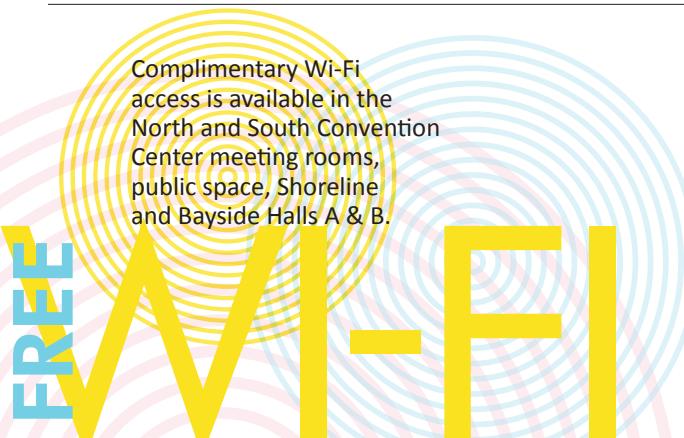
Learning Objectives:

- Differentiate the adverse effect profile and underlying mechanism of immune checkpoint inhibitors from traditional chemotherapy.
- Given a scenario, devise a triage and initial treatment plan for an oncology patient presenting with an emergency due to a suspected immune-related adverse event.
- Given a case study, design standardized supportive care interventions for oncology patients receiving treatment for immunotherapy adverse reactions.
- Given examples, formulate a management plan for severe immune-related adverse effects in acute care settings.

Program Chair, Moderator: Carolyn J. Oxencis, Pharm.D., BCOP, Clinical Pharmacy Specialist – Hematology/Oncology, Froedtert & the Medical College of Wisconsin Cancer Center, Clinical Assistant Professor, Medical College of Wisconsin School of Pharmacy, Milwaukee, WI

Presenters:

Jessica L. Elefritz, Pharm.D., BCCCP, Pharmacy Specialist, The Ohio State University Wexner Medical Center, Columbus, OH
Brandon Shank, Pharm.D., M.P.H., BCOP, Clinical Pharmacy Specialist, University of Texas MD Anderson Cancer Center, Houston, TX



4:00 p.m. – 5:00 p.m.

Mandalay Bay J, Level 2

1 Alcohol Use Disorder: Integrating Pharmacotherapy in Transitions of Care and Primary Care

Planned in cooperation with ASHP Section of Ambulatory Care Practitioners

ACTIVITY #: 0204-0000-19-232-L01-P

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Evaluate the psychopharmacology of the medications used for the treatment of alcohol use disorder.
- Interpret the clinical use of pharmacotherapy for alcohol use disorder.
- Outline the various barriers for successful treatment with pharmacotherapy.
- Recommend alcohol use disorder pharmacotherapy in transitional care and primary care settings.

Program Chair: Kong Wong, Pharm.D., BCACP, Mental Health Clinical Pharmacist, VA Medical Center, Washington, DC

Moderator: Jasmine Carpenter, Pharm.D., BCPP, BCPS, PACT/Mental Health Clinical Pharmacy Specialist, VA Medical Center, Washington, DC

Presenters:

Jasmine Carpenter, Pharm.D., BCPP, BCPS, PACT/Mental Health Clinical Pharmacy Specialist, VA Medical Center, Washington, DC

Kong Wong, Pharm.D., BCACP, Transitional Care Clinical Pharmacist, Kaiser Permanente Mid-Atlantic, Alexandria, VA

4:00 p.m. – 5:00 p.m.

South Seas F, Level 3

1 Navigating Cost and Revenue Challenges in the Infusion Center

Planned in cooperation with ASHP Section of Pharmacy Practice Leaders

ACTIVITY #: 0204-0000-19-234-L04-P

ACTIVITY #: 0204-0000-19-234-L04-T

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

Learning Objectives:

- Define accountability for infusion center revenue cycle functions.
- Summarize the benefits of pharmacy-led drug revenue cycle to an executive audience.
- Describe ways of preventing and managing financial toxicity among infusion center patients.
- Given a scenario, design process strategies to ensure revenue capture through robust revenue cycle operations.

Program Chair, Moderator: David Chen, B.S.Pharm., M.B.A., Senior Director, Section of Pharmacy Practice Leaders, ASHP, Bethesda, MD

Presenters:

Lindsey B. Amerine, Pharm.D., M.S., BCPS, Interim Regional Director of Pharmacy, University of North Carolina Medical Center, Chapel Hill, NC

Lindsay Conway, B.S., M.S.Ed., Managing Director, Advisory Board, Washington, DC

4:00 p.m. – 5:00 p.m.

Mandalay Bay B, Level 2

**⌚ Now We Got Bad Blood:
Treatment of Bloodstream Infections**

Planned in cooperation with ASHP Section of Clinical Specialists and Scientists

ACTIVITY #: 0204-0000-19-239-L01-P

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

Learning Objectives:

- Given a case study, evaluate patients with bloodstream infections (BSIs) who are candidates for shorter durations of therapy.
- Given a case study, analyze the role of carbapenems vs. carbapenem-sparing regimens in the treatment of Gram-negative BSIs.
- Given a case study, evaluate the literature supporting the use of oral antibiotics to treat BSIs.

Program Chair, Presenter: **Monica V. Mahoney, Pharm.D., BCIDP, BCPS-AQ ID**, Clinical Pharmacy Specialist, Outpatient ID Clinics & OPAT, Beth Israel Deaconess Medical Center, Boston, MA

Moderator: **Katherine T. Lusardi, Pharm.D., BCIDP, BCPS-AQ ID**, Clinical Pharmacy Specialist, ID & Antimicrobial Stewardship, UAMS Medical Center, Little Rock, AR

4:00 p.m. – 5:00 p.m.

Mandalay Bay D, Level 2

**⌚ Preventing Burnout Through Work Design:
A Primer for Healthcare Leaders**

ACTIVITY #: 0204-0000-19-241-L04-P

ACTIVITY #: 0204-0000-19-241-L04-T

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe work redesign according to the Job Characteristics Model, including core characteristics and the work-related outcomes.
- Given a work scenario, analyze areas of person-work mismatch that may be amenable to redesign.
- Given a work scenario, evaluate work redesign strategies to increase employee engagement and reduce burnout.

Presenter: **Brent N. Reed, Pharm.D., BCCP**, Associate Professor, University of Maryland School of Pharmacy, Baltimore, MD

4:00 p.m. – 5:00 p.m.

Breakers C, Level 2

⌚ What Alert Fatigue? A Pharmacy-Led Medication Warning Pop-Up Reduction Program

Planned in cooperation with ASHP Section of Pharmacy Informatics and Technology

ACTIVITY #: 0204-0000-19-243-L04-P

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE



This program is approved for up to 1.00 continuing education (CE) hours for use in fulfilling the continuing education requirements of the Certified Professional in Healthcare Information & Management Systems (CPHIMS) or the Certified Associate in Healthcare Information and Management Systems (CAHIMS).

Learning Objectives:

- Describe the current problem with drug-dosing and duplicate therapy pop-up alerting.
- Discuss the advantages of a medication monitoring system compared to pop-up alerting at the time of ordering.
- Analyze the advantages of a medication alerting dashboard.

Presenter: **Pieter J. Helmons, Pharm.D., Ph.D.**, Hospital Pharmacist and Chief Pharmacy Informatics Officer, St. Jansdal Hospital, Harderwijk, The Netherlands

FEATURED PROGRAMMING: PAIN MANAGEMENT

4:00 p.m. – 5:00 p.m.

Mandalay Bay H, Level 2

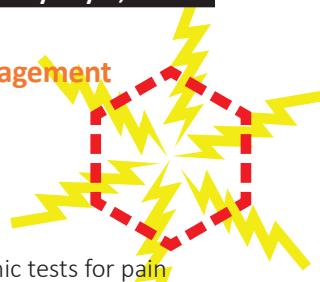
⌚ This Won't Hurt A Bit: Applying Pharmacogenomics to Pain Management

ACTIVITY #: 0204-0000-19-249-L01-P

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

TRACK: EDUCATIONAL SESSIONS



Learning Objectives:

- Evaluate the results of pharmacogenomic tests for pain management scenarios.
- Given a case scenario, use evidence-based guidelines and literature to recommend pharmacotherapy for pain management.
- Evaluate various stages to implement pharmacogenomics in pain management.

Program Chair, Moderator: **Jordan Baye, Pharm.D., M.A., BCPS**, Assistant Professor, South Dakota State University College of Pharmacy and Allied Health Professions, Sioux Falls, SD

Presenters:
Jordan Baye, Pharm.D., M.A., BCPS, Assistant Professor, South Dakota State University College of Pharmacy and Allied Health Professions, Sioux Falls, SD
Natasha J. Petry, Pharm.D., BCACP, Assistant Professor of Practice, Pharmacogenetics Clinical Pharmacist, North Dakota State University, Sanford Health, Fargo, ND

Don't forget YOUR CLAIM

All continuing pharmacy education credits must be claimed within 60 days of the live session you attend.

To be sure your CE is accepted inside of ACPE's 60-day window, **plan to process your CE before**

January 31, 2020

4:00 p.m. – 5:15 p.m.

Mandalay Bay L, Level 2

● New Drug Approvals with REMS: The Pharmacist's Role in Supporting Safe Use

ACTIVITY #: 0204-0000-19-329-L05-P

1.25 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Identify the safety concerns that required a risk evaluation and mitigation strategy (REMS) for select new drug approvals.
- Identify resources for practitioners for the safe-use conditions for each product.
- Describe the role of REMS in new drug approval and post-marketing safety.

Presenters:

Somya Dunn, M.D., U.S. Food and Drug Administration, Silver Spring, MD

Selena Ready, Pharm.D., Senior Risk Management Analyst, U.S. Food and Drug Administration, Silver Spring, MD

4:15 p.m. – 4:45 p.m.

South Seas D, Level 3

● (Management Case Study) Creating an Alternative Performance Review Process

ACTIVITY #: 0204-0000-19-362-L04-P

ACTIVITY #: 0204-0000-19-362-L04-T

0.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe the challenges of a traditional performance review system.
- Explain alternative methods that may be used to provide staff feedback.
- List Joint Commission requirements for performance reviews.

Moderator: Leza Hassett, M.B.A., R.Ph., Senior Director, Corporate Compliance, Comprehensive Pharmacy Services, Memphis, TN

Presenter:

Rachel Root, Pharm.D., M.S., BCPS, Pharmacy Manager, Abbott Northwestern Hospital, part of Allina Health, Minneapolis, MN

4:15 p.m. – 5:15 p.m.

Lagoon F, Level 2

● Turning Challenges into Opportunities: Dealing with Difficult Residents

ACTIVITY #: 0204-0000-19-236-L04-P

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Discuss growing skills needed for PGY1 and PGY2 residency preceptors.
- Compare and contrast a behavior that makes a resident difficult.
- Given a case study, identify approaches to handling difficult residents.

Program Chair, Moderator: Sarah L. Anderson, Pharm.D., BCACP, BCPS, FCCP, Associate Professor, University of Colorado Skaggs School of Pharmacy and Pharmaceutical Sciences, Aurora, CO

Presenters:

Sarah L. Anderson, Pharm.D., BCACP, BCPS, FCCP, Associate Professor, University of Colorado Skaggs School of Pharmacy and Pharmaceutical Sciences, Aurora, CO

Joel C. Marrs, Pharm.D., BCACP, BCCP, BCPS, CLS, FAHA, FASHP, FCCP, FNLA, Associate Professor, University of Colorado Skaggs School of Pharmacy and Pharmaceutical Science, Aurora, CO

● TUESDAY, DECEMBER 10

8:00 a.m. – 8:30 a.m.

South Seas D, Level 3

► (Management Case Study) Improving Pharmacy Workforce Wellness and Resiliency

ACTIVITY #: 0204-0000-19-363-L04-P

ACTIVITY #: 0204-0000-19-363-L04-T

0.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe the framework of a pharmacy well-being and resiliency program across the pharmacy enterprise.
- Explain the design of an inter-departmental meeting to foster collaboration and resiliency among the pharmacy enterprise.
- List the impact of assessment tools for identification of factors causing staff burnout.
- Explain the development of targeted interventions to increase resiliency.

Moderator:

Daniel Pons, Pharm.D., PGY1 Pharmacy Resident, Children's Mercy, Kansas City, MO

Presenter: Jason T. Wong, Pharm.D., M.B.A., CPPS, DPLA, Inpatient Operations Manager, Oregon Health & Science University, Lake Oswego, OR

Co-Author: Dorela Priftanji, Pharm.D., M.B.A., BCPS, Pediatric Operations Manager, The Johns Hopkins Hospital, Baltimore, MD



8:00 a.m. – 9:00 a.m.

Lagoon F, Level 2

► **Bad to the Brain: The Impact of Neonatal Medication Use on the Developing Brain**

ACTIVITY #: 0204-0000-19-256-L01-P

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

TARGET AUDIENCE: BCPPS

NOTE: This session is part of the **Live Intensive Studies and Clinical Sessions Packages**. All attendees may attend these thought-provoking and highly educational sessions. However, if you are board certified, you must purchase the package(s) for your specialty in order to receive the recertification assessment and claim the recertification credit.

Learning Objectives:

- Categorize sedative, analgesic, and anesthetic agents associated with negative or positive effects on neurodevelopment when used during the neonatal period.
- Compare and contrast neurodevelopmental outcomes from the use of phenobarbital, levetiracetam, or other antiepileptic agents for treatment of neonatal seizures.
- Evaluate recent literature addressing the effects of corticosteroid use during the neonatal period on neurodevelopmental outcomes.
- Develop a list of medications used in the neonatal intensive care unit (NICU) for which additional long-term neurodevelopmental follow-up data are needed to ensure safety.

Program Chair, Moderator: **Jamie L. Miller, Pharm.D., BCPPS, BCPS**, Associate Professor, University of Oklahoma College of Pharmacy, Oklahoma City, OK

Presenters:

Jamie L. Miller, Pharm.D., BCPPS, BCPS, Associate Professor, University of Oklahoma College of Pharmacy, Oklahoma City, OK

Keliana O'Mara, Pharm.D., NICU Clinical Pharmacy Specialist, UF Health, Gainesville, FL

For more information, see page 40.

8:00 a.m. – 9:30 a.m.

Oceanside B, Level 2

► **Working Through the Unimaginable: Dealing with Loss or Suicide on the Team**

ACTIVITY #: 0204-0000-19-201-L04-P

ACTIVITY #: 0204-0000-19-201-L04-T

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Discuss experiences related to loss due to death or suicide.
- Describe how to show empathy and support in the workplace.
- Given a scenario, choose appropriate actions during times of crisis.
- Recommend actions that could be taken in response to loss due to death or suicide.

Program Chair, Moderator: **Ashley Mains Espinosa, Pharm.D., M.S., CPHIMS**, System Pharmacy Manager, SCL Health, Denver, CO

Presenters:

Chris Bell, Pharm.D., M.S., Pharmacy Director, University of Kansas Health System, Kansas City, KS

Pamela S. Moore, Pharm.D., BCPS, Clinical Lead Pharmacist – Pain & Palliative Care, Summa Health System, Akron, OH

8:00 a.m. – 9:30 p.m.

South Seas F, Level 3

► **Changing Lives Over 65: Keeping It Safe with New Beers Criteria**

Planned in cooperation with ASHP Section of Ambulatory Care Practitioners

ACTIVITY #: 0204-0000-19-231-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

Learning Objectives:

- Evaluate five new elements of the 2018 American Geriatric Society (AGS) Beers Criteria you can incorporate into your practice.
- Create an action plan and timeline to incorporate published deprescribing methods into your practice.
- Given a patient case, develop three practice changes to improve geriatric medication use in your practice.

Program Chair: **Michelle A. Fritsch, Pharm.D., BCACP, BCGP**, Chief Executive Officer, Meds MASH, LLC, Monkton, MD

Presenters:

Melanie A. Dodd, Pharm.D., Ph.C., BCPS, FASHP, Associate Dean for Clinical Affairs and Associate Professor, The University of New Mexico College of Pharmacy, Albuquerque, NM

Michelle A. Fritsch, Pharm.D., BCACP, BCGP, Chief Executive Officer, Meds MASH, LLC, Monkton, MD

Mollie A. Scott, Pharm.D., BCACP, CPP, FASHP, Regional Associate Dean, UNC Eshelman School of Pharmacy, Asheville, NC

8:00 a.m. – 9:30 a.m.

Lagoon L, Level 2

► Innovations in Drug Information Practice and Research 2019

ACTIVITY #: 0204-0000-19-251-L04-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Recommend new services and methods used by drug information specialists and centers.
- Design a system to apply such new services and methods in your practice setting.
- Evaluate the importance of new methods in your practice environments.

Program Chair, Moderator: **Patrick M. Malone, Pharm.D., FASHP**, Associate Dean of Internal Affairs, University of Findlay, Findlay, OH

Presenters:

Stacy L. Haber, Pharm.D., Professor, Midwestern University College of Pharmacy-Glendale, Glendale, AZ

Wesley Lindsey, Pharm.D., Associate Clinical Professor, Auburn University, Auburn, AL

Patrick Reilly, M.S.A., PA, Chief Executive Officer, phactMI, Destin, FL

Zara Risoldi Cochrane, Pharm.D., M.S., FASCP, Director, Center for Drug Information & Evidence-Based Practice, Creighton University, Omaha, NE

8:00 a.m. – 9:30 a.m.

Mandalay Bay L, Level 2

► Key Policy Issues Impacting Health-System Pharmacists

ACTIVITY #: 0204-0000-19-253-L03-P

ACTIVITY #: 0204-0000-19-253-L03-T

1.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Identify current federal regulatory and legislative issues impacting health-system pharmacists in a variety of settings.
- Discuss current regulatory and legislative issues in the states that impact health-system pharmacists.
- Describe critical issues facing health-system pharmacists in 2020.

Program Chair, Moderator: **Tom Kraus, J.D.**, Vice President, Government Relations, ASHP, Bethesda, MD

Presenters:

Nicholas Gentile, B.A., Director, State Grassroots Advocacy and Political Action, ASHP, Bethesda, MD

Douglas Huynh, J.D., Director, Federal Legislative Affairs, ASHP, Bethesda, MD

Jillanne Schulte Wall, J.D., Director, Federal Regulatory Affairs, ASHP, Bethesda, MD

8:00 a.m. – 9:30 a.m.

South Seas B, Level 3

► Speaking From the Heart: Great Debates in Cardiology

Planned in cooperation with ASHP Section of Clinical Specialists and Scientists

ACTIVITY #: 0204-0000-19-258-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

For presenter disclosures, see page 141.

Learning Objectives:

- Given a scenario, evaluate the role of aspirin for primary prevention of cardiovascular disease.
- Given a scenario, analyze the benefits and risks of tolvaptan when used for volume management in heart failure.
- Given a scenario of a patient with diabetes mellitus, compare and contrast the cardiovascular benefits associated with the use of GLP-1 agonists vs. SGLT2 inhibitors.

Program Chair, Moderator: **Theodore J. Berei, Pharm.D., M.B.A., BCCP, BCPS**, Clinical Specialist, Advanced Heart Failure, University of Wisconsin Hospitals and Clinics, Fitchburg, WI

Panelists:

William L. Baker, Pharm.D., FACC, FAHA, FCCP, Associate Professor, University of Connecticut School of Pharmacy, Storrs, CT

Christopher Betz, Pharm.D., BCPS, FASHP, FKSHP, Professor, Department of Clinical and Administrative Sciences, Sullivan University College of Pharmacy, Louisville, KY

Snehal H. Bhatt, Pharm.D., AACC, BCPS-AQ Cardiology, FASHP, Professor of Pharmacy Practice, MCPHS University, Framingham, MA

Matthew P. Lillyblad, Pharm.D., BCCCP, BCPS-AQ Cardiology, Clinical Pharmacy Coordinator – Cardiology/Critical Care, Abbott Northwestern Hospital, part of Allina Health, Minneapolis, MN

Brent N. Reed, Pharm.D., BCCP, Associate Professor, University of Maryland School of Pharmacy, Baltimore, MD

FEATURED PROGRAMMING: PAIN MANAGEMENT

8:00 a.m. – 9:30 a.m.

Mandalay Bay D, Level 2

► The Pain Debates: What ARE the Right Choices for 2020 and Beyond?

Planned in cooperation with ASHP Section of Ambulatory Care Practitioners

ACTIVITY #: 0204-0000-19-260-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Given a patient case, analyze the implications of opioid use including risk management and appropriateness of dosing limitations in a cancer patient.
- Given a patient case, compare the advantages and disadvantages of using benzodiazepines in a patient with anxiety.
- Given a patient case, evaluate the efficacy and safety concerns related to cannabis use.

Program Chair, Moderator: **Lee Kral, Pharm.D., CPE**, Clinical Assistant Professor, The University of Iowa Carver College of Medicine, Iowa City, IA

Presenters:

Timothy J. Atkinson, Pharm.D., BCPS, CPE, Clinical Pharmacy Specialist, Pain Management, VA Tennessee Valley Healthcare System, Murfreesboro, TN

Ernest J. Dole, Pharm.D., FASHP, Clinical Pharmacist, University of New Mexico Hospitals, Albuquerque, NM

Jeffrey Fudin, Pharm.D., DAIPM, FASHP, FCCP, FFSMB, Chief Executive Officer, Remitigate, LLC, Delmar, NY

EDUCATIONAL SESSIONS Tuesday, December 10 CONTINUED

8:00 a.m. – 9:30 a.m.

Breakers C, Level 2

► ALL-IN for Specialty Pharmacy: Minimizing Barriers for Successful Specialty Pharmacies

Planned in cooperation with ASHP Section of Pharmacy Practice Leaders and ASHP Section of Specialty Pharmacy Practitioners

ACTIVITY #: 0204-0000-19-263-L04-P

ACTIVITY #: 0204-0000-19-263-L04-T

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

Learning Objectives:

- Recommend strategies to obtain commercial payer access.
- Develop strategic approaches to limited distribution drug access.
- Given a scenario, evaluate attributes of high-performing health-system specialty pharmacies.

Program Chair, Moderator: **Stephen J. Davis, Pharm.D., M.S., FASHP**, Director, Health System Strategy, Shields Health Solutions, Houston, TX

Presenters:

Stephen J. Davis, Pharm.D., M.S., FASHP, Director, Health System Strategy, Shields Health Solutions, Houston, TX

Jacob A. Jolly, Pharm.D., CSP, Director, Specialty Pharmacy Strategy and Market Access, Vanderbilt University Medical Center, Nashville, TN

Meghan D. Swarthout, Pharm.D., M.B.A., BCPS, Division Director, Ambulatory and Care Transitions Pharmacy, The Johns Hopkins Health System, Baltimore, MD

8:00 a.m. – 9:30 a.m.

Mandalay Bay F, Level 2

► Reviewing the Evidence Behind USP <797>

ACTIVITY #: 0204-0000-19-266-L07-P

ACTIVITY #: 0204-0000-19-266-L07-T

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Define the regulatory requirements incorporated in USP <797> and related standards.
- Given an example, illustrate the essential, evidence-based science behind the elements of USP <797>.
- Given a case study, analyze the facility design components required for safe and effective sterile compounding.
- Given a case study, develop the components of a comprehensive staff training and monitoring program.

Program Chair, Moderator: **Patricia C. Kienle, B.S.Pharm., M.P.A., FASHP**, Director, Accreditation and Medication Safety, Cardinal Health Innovative Delivery Solutions, Wilkes-Barre, PA

Presenters:

Eric S. Kastango, B.S.Pharm., M.B.A., FASHP, President and Chief Executive Officer, Clinical IQ, LLC and CriticalPoint, LLC, Madison, NJ

Patricia C. Kienle, B.S.Pharm., M.P.A., FASHP, Director, Accreditation and Medication Safety, Cardinal Health Innovative Delivery Solutions, Wilkes-Barre, PA

8:00 a.m. – 9:30 a.m.

Oceanside C, Level 2

► Transitions of Care: Let's Get Innovative

ACTIVITY #: 0204-0000-19-267-L04-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Summarize essential components of innovative transitions of care (TOC) programs.
- Identify outcome measures to evaluate the success of TOC programs.
- Evaluate strategies to implement and optimize TOC programs.

Program Chair, Moderator: **Nancy C. MacDonald, Pharm.D., BCPS, FASHP**, Transitions of Care Coordinator, Henry Ford Hospital, Washington Township, MI

Presenters:

Ana Maria Bienvenida, Pharm.D., PGY2 Emergency Medicine Pharmacy Resident, University of Wisconsin Health, Madison, WI

Leigh Efird, Pharm.D., M.P.H., Pharmacy Director, Ambulatory Care, NewYork-Presbyterian, New York, NY

Joshua N. Raub, Pharm.D., BCPS, Clinical Pharmacist Specialist – Internal Medicine, Residency Program Director – PGY1, Detroit Receiving Hospital, Detroit Medical Center, Detroit, MI

8:00 a.m. – 9:30 a.m.

Oceanside A, Level 2

► Standardize 4 Safety (S4S): A New Standard in Medication Concentrations

ACTIVITY #: 0204-0000-19-268-L05-P

ACTIVITY #: 0204-0000-19-268-L05-T

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Discuss the risk of medication error when non-standardized medication concentrations are used.
- Describe the process used to develop the Standardize 4 Safety initiative (S4S)'s recommended concentration lists.
- Given a case study, select a concentration recommendation based on example background information provided.
- Explain challenges to implementing standardized concentrations from the S4S recommendations.
- Apply strategies to overcome challenges when implementing standardized concentrations.

Program Chair, Moderator: **Michael Ganio, Pharm.D., M.S., BCPS, FASHP**, Director, Pharmacy Practice and Quality, ASHP, Bethesda, MD

Presenters:

Scott L. Ciarkowski, Pharm.D., M.B.A., Manager of Quality & Safety, Michigan Medicine, Ann Arbor, MI

Rhonda Liberto, Pharm.D., B.S.Pharm., CPPS, System Medication Safety Officer, Ochsner Health System, New Orleans, LA

FREE

Complimentary Wi-Fi access is available in the North and South Convention Center meeting rooms, public space, Shoreline and Bayside Halls A & B.

Select the network **ASHPMCM19** on your device and use the Conference Access Code **lasvegas19**

8:00 a.m. – 9:30 a.m.

Mandalay Bay H, Level 2

► **Strategies to Maximize the Safety of Your Smart Pumps**

ACTIVITY #: 0204-0000-19-269-L04-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

TARGET AUDIENCE: BCCP, BCPS

NOTE: This session is part of the Live Intensive Studies and Clinical Sessions Packages. All attendees may attend these thought-provoking and highly educational sessions. However, if you are board certified, you must purchase the package(s) for your specialty in order to receive the recertification assessment and claim the recertification credit.

This program is approved for up to 1.50 continuing education (CE) hours for use in fulfilling the continuing education requirements of the Certified Professional in Healthcare Information & Management Systems (CPHIMS) or the Certified Associate in Healthcare Information and Management Systems (CAHIMS).

Learning Objectives:

- Analyze strategies to maximize smart pump safety.
- Devise methods for evaluating smart pump data.
- Develop an action plan for establishing interoperability between smart pumps and the electronic medical record (EMR).

Program Chair, Moderator: **Jennifer Robertson, Pharm.D.**, BCPS, Medication Outcomes & Safety Officer, St. Jude Children's Research Hospital, Memphis, TN

Presenters:

Jennifer Robertson, Pharm.D., BCPS, Medication Outcomes & Safety Officer, St. Jude Children's Research Hospital, Memphis, TN

Calvin C. Daniels, Pharm.D., Ph.D., BCPPS, Clinical Pharmacist, Medication Safety and Informatics, St. Jude Children's Research Hospital, Memphis, TN

For more information, see page 40.



8:00 a.m. – 10:00 a.m.

Mandalay Bay J, Level 2

► **(BCOP Clinical Session) Hide and Go Seek: Updates in the Management of Acute, Chronic, and Refractory Immune-Related Adverse Effects of Immune Checkpoint Inhibitors**

Planned in cooperation with American College of Clinical Pharmacy

ACTIVITY #: 0217-9999-19-172-L01-P

2.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

TARGET AUDIENCE: BCOP

NOTE: This session is part of the Live Intensive Studies and Clinical Sessions Packages. All attendees may attend these thought-provoking and highly educational sessions. However, if you are board certified, you must purchase the package(s) for your specialty in order to receive the recertification assessment and claim the recertification credit.

Learning Objectives:

- Describe the mechanism of action of CTLA-4, PD-1, and PD-L1 inhibitors and how their differences contribute to their respective immune-related adverse event (irAE) profile.
- Evaluate the safety and efficacy data available for current FDA-approved immunotherapy agents and treatment regimens.
- Design a customized treatment plan for a patient presenting to the acute care inpatient service with a severe or life-threatening irAE.
- Design a customized treatment plan for a patient presenting to an ambulatory outpatient clinic with a chronic or steroid refractory irAE.
- Recommend effective approaches to care coordination and survivorship planning for patients who experience irAE across a healthcare system.

Moderator: **Eve Segal, Pharm.D., BCOP**, Lead Clinical Pharmacist, University of Washington Medical Center/Seattle Cancer Care Alliance, Clinical Instructor, University of Washington School of Pharmacy, Seattle, WA

Presenters:

Joseph S. Bubalo, Pharm.D., BCOP, BCPS, Oncology Clinical Pharmacy Specialist, OHSU Hospital and Clinics, Portland, OR
Carolyn J. Oxencis, Pharm.D., BCOP, Clinical Pharmacy Specialist – Hematology/Oncology, Froedtert & the Medical College of Wisconsin Cancer Center, Clinical Assistant Professor, Medical College of Wisconsin School of Pharmacy, Milwaukee, WI

For more information, see page 40.

8:45 a.m. – 9:15 a.m.

South Seas D, Level 3

► (Management Case Study) A Community Hospital's Journey to Combine Bedside Medication Delivery with Medication Reconciliation

ACTIVITY #: 0204-0000-19-364-L04-P

ACTIVITY #: 0204-0000-19-364-L04-T

0.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Discuss the benefits of incorporating pharmacy services during admission and discharge.
- Describe a process to hand off the patient's information to ensure no patients "slip through the cracks."
- Explain ways to keep track of metrics involved with both the medication reconciliation and medication delivery services.

Moderator: Kelly Bach, Pharm.D., BCCCP, BCGP, BCPS, Assistant Professor of Pharmacy Practice, Albany College of Pharmacy and Health Sciences, Albany, NY

Presenters:

Derek Frost, Pharm.D., M.B.A., BCPS, Clinical Pharmacist, University Hospitals Portage Medical Center, Ravenna, OH

Scott Naples, Pharm.D., M.B.A., Pharmacy Manager, University Hospitals Portage Medical Center, Ravenna, OH

9:00 a.m. – 11:00 a.m.

Mandalay Bay B, Level 2

► Pharmacy Forecast 2020: Trends That Will Shape Your Future

ACTIVITY #: 0204-0000-19-262-L04-P

ACTIVITY #: 0204-0000-19-262-L04-T

2.00 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Identify five or more trends in the external environment that will have a significant impact on health-system pharmacy practice over the next five years.
- Discuss the strategic advice of national authorities to the specific needs of a particular practice setting.
- Identify three or more ways to apply knowledge of key trends toward improving patient care.

Program Chair, Moderator: Lee C. Vermeulen, B.S.Pharm., M.S., FCCP, FFIP, Professor of Medicine and Pharmacy, University of Kentucky, Lexington, KY

Presenters:

Erin R. Fox, Pharm.D., BCPS, FASHP, Senior Director, Drug Information and Support Services, University of Utah Health, Salt Lake City, UT

James M. Hoffman, Pharm.D., M.S., BCPS, FASHP, Chief Patient Safety Officer, Associate Member, Pharmaceutical Sciences, St. Jude Children's Research Hospital, Memphis, TN

Scott J. Knoer, M.S., Pharm.D., FASHP, Chief Pharmacy Officer, Cleveland Clinic, Cleveland, OH

Rita Shane, Pharm.D., FASHP, FCSHP, Chief Pharmacy Officer and Professor of Medicine, Cedars-Sinai Medical Center, Los Angeles, CA

Lee C. Vermeulen, B.S.Pharm., M.S., FCCP, FFIP, Professor of Medicine and Pharmacy, University of Kentucky, Lexington, KY

9:00 a.m. – 11:00 a.m.

Oceanside D, Level 2

► Management Pearls 2019

Planned in cooperation with ASHP Section of Pharmacy Practice Leaders

ACTIVITY #: 0204-0000-19-265-L04-P

2.00 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Identify one initiative that will improve pharmacy services at your organization.
- Describe one performance improvement activity that can be used to improve operational efficiency in the pharmacy.
- List two healthcare environment factors that require pharmacy departments to adapt operations to meet changing health-system priorities.

Program Chair, Moderator: Kate M. Schaafsma, Pharm.D., M.S., M.B.A., Director of Pharmacy, Froedtert & the Medical College of Wisconsin, Menomonee Falls, WI

Presentations:

- **How to Follow the \$\$\$ with CAR-T (and Other High-Cost) Therapies**

Heather Jones, Pharm.D., M.S., Pharmacy Manager, Oncology Services, University of Wisconsin Health, Madison, WI

- **The Quest for Less-Automated Dispensing Cabinets**

Bryan C. McCarthy, Pharm.D., M.S., M.J., BCPS, Director of Adult Inpatient Pharmacy Services, University of Chicago Medical Center, Chicago, IL

- **No Pain All Gain: Structuring Quality Into Daily Practice**

Kuldip R. Patel, Pharm.D., Associate Chief Pharmacy Officer, Duke University Hospital, Durham, NC

- **Show Me the Money: Establishing a Culture of Pharmacy Financial Vigilance Oversight**

Ryan J. Haumschild, Pharm.D., M.S., M.B.A., Director of Pharmacy, Ambulatory, Emory Healthcare, Atlanta, GA

- **Battle of the Secondary Engineering Control (SEC) — Writing Standards with Facilities for Ideal IV Room Design**

Chad Smith, Pharm.D., M.B.A., BCPS, Vice President Pharmacy Operations – PGY1/2 Health-System Pharmacy Administration and Leadership Residency Director, AdvocateAurora Health, Milwaukee, WI

- **USP Compliance: A Health-System Approach Toward Cleanroom Compliance**

Lilit Smith, Pharm.D., M.B.A., Operations Supervisor, Baptist Health South Florida, Miami, FL

- **Control Your Substances: Engaging with Controlled Substances Consultants**

Ashley L. Pappas, Pharm.D., M.H.A., Director of Pharmacy, Medication Use Policy, Optimization, and Analytics, UNC Health Care System, Chapel Hill, NC

- **Accessible Records for System Services: Electronic Storage of Investigational Drug Services Documents**

Andrew Thorne, Pharm.D., M.S., System Clinical Manager, Investigational Drug Services, UNC Health Care, Chapel Hill, NC

- **Better Together: Pharmacy Professional Governance**
Amber Zaniewski, Pharm.D., System Associate Director, Clinical Pharmacy Services, Yale New Haven Health, New Haven, CT
- **Getting Together to Get It Done — An Enterprise-Wide Approach to Managing Critical Care Pharmacy Practice**
Amanda Hansen, Pharm.D., M.H.A., FACHE, Assistant Director of Pharmacy, Cleveland Clinic, Medina, Ohio
- **From Chaos to Consistency: Creating Pharmacy Systemness Within a Health System**
Jason Chou, Pharm.D., M.S., System Assistant Vice President – Pharmacy Operations, Ochsner Health System, New Orleans, LA
- **Telling a (Consistent) Pharmacy Value Story Through a System Data Governance Model**
Mary-Haston Leary, Pharm.D., M.S., BCPS, Clinical Manager, Analytics, Outcomes, and Impact, UNC Health Care, Chapel Hill, NC
- **My Favorite Meeting of the Month: Creating a Leadership Development Series for Front Line Managers**
Travis B. Dick, Pharm.D., M.B.A., BCPS, Associate Director of Pharmacy and PGY1 Pharmacy Residency Director, University of Rochester Medical Center – Strong Memorial Hospital, Rochester, NY
- **Let's Talk with Data: Empowering Staff to Improve Discharge Care Coordination**
Pei Jen Lin, Pharm.D., M.S., BCPS, Pharmacy Manager, Froedtert & the Medical College of Wisconsin, Milwaukee, WI
- **Big Data, Big Solutions**
Sean Chantarapanont, Pharm.D., BCPS, Clinical Pharmacy Manager and PGY1 Residency Program Director, Community Healthcare System – Community Hospital, Munster, IN
- **Optimizing the Patients' Infusion Experience in a Cancer Center Through Development of a Data-Driven Solution: Lessons Learned**
Anthony Boyd, Pharm.D., BCPS, Pharmacy Manager, Cleveland Clinic, Cleveland, Ohio

9:30 a.m. – 10:00 a.m.

South Seas D, Level 3

► **(Management Case Study) A Student-Augmented Centralized Call Service to Improve Medication Adherence Rates**

ACTIVITY #: 0204-0000-19-365-L04-P
0.50 CONTACT HOURS | KNOWLEDGE-BASED
EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe the importance of medication adherence and how it relates to Medicare Star Ratings.
- Identify methods to improve medication adherence.
- Discuss how a student-augmented service can be implemented to improve adherence rates and Star Ratings.

Moderator: **Cher Enderby, Pharm.D., BCNSP, BCPS**, Coordinator, Education & Staff Development, PGY1 Residency Director, Mayo Clinic, Jacksonville, FL

Presenter: **Bradley Carqueville, Pharm.D.**, Clinical Pharmacy Specialist, Ambulatory Care, Community Health Network, Indianapolis, IN

Co-Author: **Megan Dorrell, Pharm.D., BCACP**, Director of Ambulatory Clinical Pharmacy Services, Community Health Network, Indianapolis, IN

9:30 a.m. – 10:45 a.m.

Lagoon F, Level 2

► **Moody About Medications in Pregnancy and Lactation**

ACTIVITY #: 0204-0000-19-257-L01-P
1.25 CONTACT HOURS | APPLICATION-BASED
EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Evaluate the most commonly used medications for maternal mood disorders.
- Analyze the risk of exposure to the baby of when psychotropic medications are used in pregnancy and lactation.
- Compare and contrast the medication safety profiles of psychotropic medications during lactation.
- Demonstrate the ability to teach patients about effects of common anti-depressants on the fetus and breast milk production.

Program Chair, Moderator: **Amber J. Lucas, Pharm.D., M.B.A., BCPS, FASHP**, Pharmacy Operations Manager, Obstetrics-Neonatal Specialist, Olathe Medical Center, Olathe, KS

Presenters:

Amy Hornig, Pharm.D., Service Leader for Pharmacy, Methodist Women's Hospital, Omaha, NE

Amber J. Lucas, Pharm.D., M.B.A., BCPS, FASHP, Pharmacy Operations Manager, Obstetrics-Neonatal Specialist, Olathe Medical Center, Olathe, KS



10:00 a.m. – 11:00 a.m.

Lagoon L, Level 2

► Clostridium difficile Infection: Treatment, Fecal Microbiota Transplant (FMT), and Beyond

Planned in cooperation with ASHP Section of Clinical Specialists and Scientists

ACTIVITY #: 0204-0000-19-252-L01-P

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

Learning Objectives:

- Describe the current status of Clostridium difficile (C. diff) infections.
- List risk factors associated with severe C. diff infection and recurrence.
- Evaluate the current diagnostic challenges of C. diff infection.
- Describe the role of fecal microbiota transplantation (FMT).
- Explain current treatment recommendations for C. diff infection.
- Apply antimicrobial stewardship and infection control strategies for the prevention of C. diff infection.

Presenter: Lynne C. Krop, Pharm.D., B.S., BCPS-AQ ID, Clinical Coordinator, Infectious Diseases Pharmacy Specialist, BayCare Health, Morton Plant Hospital, Clearwater, FL

10:00 a.m. – 11:00 a.m.

South Seas F, Level 3

► A Little Pain for a Lot of Gain: Unique Strategies to Reduce Vaccine-Preventable Diseases

Planned in cooperation with ASHP Section of Ambulatory Care Practitioners

ACTIVITY #: 0204-0000-19-255-L04-P

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Evaluate two immunization delivery services that meet a public health need.
- Develop a model of care for immunization delivery that bridges the gap between community pharmacy-based immunizations and those given in ambulatory care clinics.
- Identify gaps in immunization services.

Program Chair, Moderator: Jaime R. Hornecker, Pharm.D., BCPS, CDE, DPLA, Clinical Professor of Pharmacy Practice, University of Wyoming School of Pharmacy, Casper, WY

Presenters:

Jaime R. Hornecker, Pharm.D., BCPS, CDE, DPLA, Clinical Professor of Pharmacy Practice, University of Wyoming School of Pharmacy, Casper, WY

Shanna K. O'Connor, Pharm.D., Assistant Professor, Idaho State University, Pocatello, ID

10:00 a.m. – 11:00 a.m.

Oceanside B, Level 2

► Code Silver: Are You Prepared for an Active Shooter?

ACTIVITY #: 0204-0000-19-259-L04-P

ACTIVITY #: 0204-0000-19-259-L04-T

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe active shooter profiles.
- Discuss lessons learned from active shooter incidents.
- Apply ALICE (Alert, Lockdown, Inform, Counter, Evacuate) principles to identify proactive responses to an active shooter threat.
- Compare potential solutions to at least one potential impact an active shooter threat may have on pharmacy operations in a health-system setting.

Program Chair, Moderator: Allison Naso, Pharm.D., M.B.A., BCPS, Director of Pharmacy, Cleveland Clinic Medina Hospital, Medina, OH

Presenters:

Michael J. Long, M.A.C.J., Police Corporal, Cleveland Clinic Police Department, Strongsville, OH

Allison Naso, Pharm.D., M.B.A., BCPS, Director of Pharmacy, Cleveland Clinic Medina Hospital, Medina, OH

FEATURED PROGRAMMING: PAIN MANAGEMENT

10:00 a.m. – 11:00 a.m.

Mandalay Bay D, Level 2

► A Roadmap of Over-The-Counter (OTC) and Herbal Analgesic Therapies for Pain

Planned in cooperation with ASHP Section of Ambulatory Care Practitioners

ACTIVITY #: 0204-0000-19-261-L01-P

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

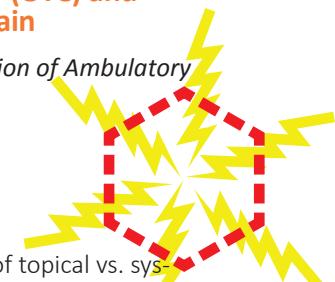
- Discuss the possible risks and benefits of topical vs. systemic over-the-counter (OTC) product formulations.
- Summarize the possible risks and benefits of OTC herbal analgesics.
- Design a safe and effective OTC analgesic regimen for a patient presenting with osteoarthritis of the hand.

Program Chair, Moderator: Tanya J. Uritsky, Pharm.D., CPE, Clinical Pharmacy Specialist Pain Medication Stewardship, Hospital of the University of Pennsylvania, Philadelphia, PA

Presenters:

Christopher Herndon, Pharm.D., BCACP, FASHP, Professor, Southern Illinois University Edwardsville, Edwardsville, IL

Tanya J. Uritsky, Pharm.D., CPE, Clinical Pharmacy Specialist Pain Medication Stewardship, Hospital of the University of Pennsylvania, Philadelphia, PA



FOLLOW #ASHP19 & TAG

We'll be giving away

PRIZES

throughout the week.

Follow #ASHP19 to learn
how you might win!



10:00 a.m. – 11:00 a.m.

Breakers C, Level 2

► Call Me, Beep Me If You Wanna Reach Me! Connecting with Our Patients Through Technology

Planned in cooperation with ASHP Section of Pharmacy Informatics and Technology and ASHP Section of Pharmacy Practice Leaders

ACTIVITY #: 0204-0000-19-264-L04-P

ACTIVITY #: 0204-0000-19-264-L04-T

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE



This program is approved for up to 1.00 continuing education (CE) hours for use in fulfilling the continuing education requirements of the Certified Professional in Healthcare Information & Management Systems (CPHIMS) or the Certified Associate in Healthcare Information and Management Systems (CAHIMS).

Learning Objectives:

- Describe the benefits of telehealth programs to improve access to pharmacists' care.
- Evaluate barriers to implementing innovative technology services.
- Recommend strategies to incorporate innovative telepharmacy services into your practice.

Program Chair, Moderator: Heather Jones, Pharm.D., M.S., Pharmacy Manager, Oncology Services, University of Wisconsin Health, Middleton, WI

Facilitator: Daniel A. Lewis, Pharm.D., BCPS, Pharmacy Manager, Cleveland Clinic Main Campus, Cleveland, OH

Presenters:

Heather Jones, Pharm.D., M.S., Pharmacy Manager, Oncology Services, University of Wisconsin Health, Middleton, WI

Lucianne West, Pharm.D., BCCP, Heart Failure and Heart Transplant Clinical Pharmacist, Cleveland Clinic, Broadview Heights, OH

10:00 a.m. – 11:00 a.m.

Mandalay Bay H, Level 2

► How Low Do You Go? Applying the 2018 American College of Cardiology/American Heart Association (ACC/AHA) Cholesterol Guidelines to Individual Patients

Planned in cooperation with American College of Clinical Pharmacy

ACTIVITY #: 0204-9999-19-270-L01-P

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

TARGET AUDIENCE: BCGP, BCACP

*NOTE: This session is part of the **Live Intensive Studies and Clinical Sessions Packages packages**. All attendees may attend these thought-provoking and highly educational sessions. However, if you are board certified, you must purchase the package(s) for your specialty in order to receive the recertification assessment and claim the recertification credit.*

Learning Objectives:

- Compare and contrast the therapeutic goals in the 2013 and 2018 American College of Cardiology/American Heart Association (ACC/AHA) guidelines for management of blood cholesterol.
- Evaluate a patient's risk of cardiovascular disease using traditional means and taking into consideration "risk-enhancing factors."
- Design patient-centered cholesterol treatment plans in complex patients with dyslipidemia.

Presenter: Eric J. MacLaughlin, Pharm.D., BCPS, FASHP, FCCP, Professor and Chair, Texas Tech University Health Sciences Center, Amarillo, TX

For more information, see page 40.

10:00 a.m. – 11:00 a.m.

Oceanside A, Level 2

► More Money! Navigating Timelines and Standards to Increase Inpatient Revenue

Planned in cooperation with ASHP Section of Pharmacy Practice Leaders

ACTIVITY #: 0204-0000-19-330-L04-P

ACTIVITY #: 0204-0000-19-330-L04-T

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Describe the Centers for Medicare & Medicaid Services (CMS) process and cycle for evaluating new drugs for potential add-on payments.
- Evaluate three drugs for formulary inclusion that qualify for additional add-on payment in FY 2020.
- Design an end-of-month report using a patient tracking tool to present the cost and revenue for new drugs eligible for add-on payments.

Program Chair, Moderator: Agatha Nolen, Ph.D., D.Ph., FASHP, Assistant Vice President, HCA Healthcare, Nashville, TN

Presenters:

Emily Brinser, Pharm.D., Senior Pharmacy Billing Consultant, HCA Healthcare, Nashville, TN

Adrienne Maxine Friemel, Pharm.D., M.S., BCPS, Manager, Revenue Integrity Pharmacy and Oncology, SCL Health, Broomfield, CO

EDUCATIONAL SESSIONS **Tuesday, December 10** CONTINUED

10:00 a.m. – 11:00 a.m.

Oceanside C, Level 2

► **Navigating Diabetes Clinical Guidelines: A Patient-Centered Roadmap**

Planned in cooperation with ASHP Section of Ambulatory Care Practitioners

ACTIVITY #: 0204-0000-19-331-L01-P

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

Learning Objectives:

- Review recent landmark cardiovascular outcome trials and impact on national guidelines.
- Evaluate individualized patient factors that influence treatment decisions.
- Design an evidence-based, patient-centered pharmacotherapeutic plan for a patient with Type 2 diabetes and comorbidities.

Program Chair: **Melody L. Hartzler, Pharm.D., BCACP, BC-ADM**, Clinical Pharmacist and Chronic Care Management Coordinator, Western Medicine, Inc., Fairborn, OH

Moderator: **Kristi W. Kelley, Pharm.D., BCACP, BC-ADM, BCPS, CDE**, Clinical Professor, Clinical Pharmacist, Auburn University Harrison School of Pharmacy/Brookwood Baptist Health, Birmingham, AL

Presenters:

Diana Isaacs, Pharm.D., BCACP, BC-ADM, BCPS, CDE, Endocrine Clinical Pharmacy Specialist, Cleveland Clinic Diabetes Center, Cleveland, OH

Kristi W. Kelley, Pharm.D., BCACP, BC-ADM, BCPS, CDE, Clinical Professor, Clinical Pharmacist, Auburn University Harrison School of Pharmacy/Brookwood Baptist Health, Birmingham, AL

10:00 a.m. – 11:00 a.m.

Mandalay Bay L, Level 2

► **The Pursuit of State-Level Provider Status: We Got It! Now What?**

Planned in cooperation with ASHP Section of Pharmacy Practice Leaders

ACTIVITY #: 0204-0000-19-334-L03-P

1.00 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe the components of an effective legislative action initiative.
- Identify current state and organization readiness for pharmacist provider status.
- Describe components of an optimized health system strategy for leveraging state-level pharmacist provider status.

Program Chair, Moderator: **Erick Sokn, Pharm.D., M.S., BCPS**, Assistant Director, Population Health/Transitions of Care, Cleveland Clinic, Cleveland, OH

Presenters:

Antonio Ciaccia, Director of Government & Public Affairs, Ohio Pharmacists Association, Columbus, OH

Erick Sokn, Pharm.D., M.S., BCPS, Assistant Director, Population Health/Transitions of Care, Cleveland Clinic, Cleveland, OH

10:00 a.m. – 11:00 a.m.

South Seas B, Level 3

► **Compounding: FDA Policy Updates**

ACTIVITY #: 0204-0000-19-342-L07-P

ACTIVITY #: 0204-0000-19-342-L07-T

1.00 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Review FDA's 2019 compounding policy priorities.
- Discuss recent compounding policy documents issued by FDA.
- Review current good manufacturing practice and FDA's proposed policies for compounders registered as outsourcing facilities.

Program Chair, Moderator: **Jillanne Schulte Wall, J.D.**,

Director, Federal Regulatory Affairs, ASHP, Bethesda, MD

Presenters:

Marci Kiester, Pharm.D., MSHS, RAC, Senior Policy Analyst, Food and Drug Administration, Silver Spring MD

Tracy A. Rupp, Pharm.D., M.P.H., RD, Consumer Safety Officer, Food and Drug Administration, Silver Spring, MD

10:15 a.m. – 10:45 a.m.

South Seas D, Level 3

► **(Management Case Study) Three Years Later: Pharmacist Discharge Counseling Sustainability**

ACTIVITY #: 0204-0000-19-366-L04-P

0.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- List change concepts that support a successful transitions-of-care program implementation.
- Identify metrics that can be used to justify sustainability of the discharge counseling service.
- Describe program changes identified through a PDSA (Plan Do Study Act) cycle that led to improved efficiency.

Moderator: **Allison King, Pharm.D.**, Investigational Drug Service Pharmacist, Children's Mercy Hospital, Kansas City, MO

Presenter:

Elora Hilmas, Pharm.D., BCPS, Clinical Coordinator, Nemours/Alfred I. DuPont Hospital for Children, Wilmington, DE

2:00 p.m. – 2:30 p.m.

South Seas D, Level 3

► **(Management Case Study) Standardization and Centralized Processing of Pharmacy Emergency Trays in a Multi-Hospital Integrated Healthcare System**

ACTIVITY #: 0204-0000-19-367-L04-P

ACTIVITY #: 0204-0000-19-367-L04-T

0.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe design of a universal emergency tray layout for a multi-hospital integrated delivery network.
- List the challenges and best practices for a multidisciplinary tray standardization committee.
- Describe how to implement a central processing model for emergency tray distribution at a multi-hospital integrated delivery network.

Moderator: Peter Martin, B.S., Student Pharmacist Intern, Texas A&M University Rangel School of Pharmacy, Kingsville, TX

Presenter: Kriss Petrovskis, Pharm.D., M.S., Clinical Manager, Pharmacy Supply Management, UNC Healthcare, Durham, NC

Co-Author: Mark Lyons, M.S., R.Ph., Executive Director, Integrated Pharmacy Supply Management, UNC Healthcare, Durham, NC

2:00 p.m. – 3:30 p.m.

Lagoon L, Level 2

► **Meeting the Standards for Radiopharmaceuticals in USP Chapter <825>: What You Need to Know to Get Started**

ACTIVITY #: 0204-0000-19-271-L03-P

ACTIVITY #: 0204-0000-19-271-L03-T

1.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Discuss the standards for radiopharmaceuticals found in USP <825>.
- Describe the role health-system pharmacists play in helping a nuclear medicine department achieve compliance with USP <825>.
- Identify five actions the pharmacy department can take to aid the nuclear medicine department in preparing for accreditation.
- List the five commonly used radiopharmaceuticals and their clinical indication.

Program Chair, Moderator: Richard L. Green, R.Ph., BCNP, FAPhA, Director of Radiopharmacy Practice, Cardinal Health Nuclear & Precision Health Solutions, Dublin, OH

Presenters:

Allegra DePietro, B.S.Pharm., M.S., R.Ph., BCNP, Manager, Radiopharmaceutical Services, Massachusetts General Hospital, Boston, MA

Richard L. Green, R.Ph., BCNP, FAPhA, Director of Radiopharmacy Practice, Cardinal Health Nuclear & Precision Health Solutions, Dublin, OH

Patricia C. Kienle, B.S.Pharm., M.P.A., FASHP, Director, Accreditation and Medication Safety, Cardinal Health Innovative Delivery Solutions, Wilkes-Barre, PA

2:00 p.m. – 3:30 p.m.

South Seas J, Level 3

► **Pharmacy Technician Workforce: Advanced Credentials to Support Innovative Roles**

ACTIVITY #: 0204-0000-19-273-L04-P

ACTIVITY #: 0204-0000-19-273-L04-T

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe the current credentialing landscape for pharmacy technicians.
- Outline the benefits to both the pharmacy technician and the hospital of advanced credentials for pharmacy technicians.

- Explain how education, training, national certification, and advanced credentials are critical for the successful implementation of innovative pharmacy technician roles.
- Given a scenario, analyze examples of successful implementation of advanced sterile compounding, hospital-based tech-check-tech, and advanced medication history pharmacy technician roles.

Program Chair, Moderator: Angela T. Cassano, Pharm.D., BCPS, FASHP, President, Pharmfusion Consulting, LLC, Midlothian, VA

Presenters:

Noah J. Franz, Pharm.D., M.H.A., Pharmacy Manager, Froedtert and the Medical College of Wisconsin, Milwaukee, WI

Tiffany A. Kofroth, CPhT, CSPT, PhTR, Specialty Pharmacy Technician, The University of Texas at MD Anderson Cancer Center, Houston, TX

Sanchita Sen, Pharm.D., Associate Clinical Professor, Mercer University, Atlanta, GA

2:00 p.m. – 3:30 p.m.

Mandalay Bay B, Level 2

► **Keeping the Doors Open: Using Metrics and Benchmarks to Sustain Your Ambulatory Care Practice**

Planned in cooperation with ASHP Section of Ambulatory Care Practitioners

ACTIVITY #: 0204-0000-19-275-L04-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Discuss the ambulatory care pharmacist's scope of practice and contribution to the interprofessional care team.
- Given a scenario, develop benchmarks and related metrics recognized for clinical productivity including increased access to care, population health metrics, and relative value units.
- Illustrate the impact and use of support analytics in regulatory requirements and outcomes.
- Given a case study, construct a sample data analytic for meaningful metrics that could translate into influential language for sustainable ambulatory pharmacy practice.

Program Chair, Moderator: Christina E. DeRemer, Pharm.D., BCACP, BCPS, FASHP, Clinical Associate Professor, University of Florida College of Pharmacy, Gainesville, FL

Presenters:

Christina E. DeRemer, Pharm.D., BCACP, BCPS, FASHP, Clinical Associate Professor, University of Florida College of Pharmacy, Gainesville, FL

Jeffery L. Olson, Pharm.D., M.B.A., BCACP, BCPS, Community Care Pharmacy Director, Intermountain Healthcare, Taylorsville, UT

Jennifer Reiter, Pharm.D., M.B.A., BCACP, BC-ADM, BCPS, Clinical Pharmacist Specialist – Ambulatory Care, Indiana University Health Southern Indiana Physicians, Bloomington, IN

2:00 p.m. – 3:30 p.m.

Lagoon F, Level 2

► The Safety of Intravenous Drug Delivery Systems: Update on Issues Since the 2009 Consensus Development Conference

ACTIVITY #: 0204-0000-19-277-L04-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

Learning Objectives:

- Given examples, analyze issues and challenges impacting safe intravenous drug delivery.
- Evaluate the updated recommendations from the Consensus Development Conference on the Safety of Intravenous Drug Delivery Systems.
- Using the updated recommendations, evaluate which items are a higher priority for implementation in your organization.

Program Chair, Moderator: **John B. Hertig, Pharm.D., M.S., CPPS**, Associate Professor, Butler University, Indianapolis, IN

Presenters:

Robert C. Campbell, Pharm.D., Director, Clinical Standards Interpretations for Hospital and Ambulatory Programs, Director of Medication Management, Division of Healthcare Improvement, The Joint Commission, Oakbrook Terrace, IL

Michael R. Cohen, Sc.D. (Hon.), DPS (Hon.), M.S., R.Ph., FASHP, President, Institute for Safe Medication Practices, Horsham, PA

Christopher R. Fortier, Pharm.D., FASHP, Chief Pharmacy Officer, Massachusetts General Hospital, Boston, MA

2:00 p.m. – 3:30 p.m.

Mandalay Bay L, Level 2

► Ethical Prescribing in the Era of Expensive Medications and Drug Shortages

ACTIVITY #: 0204-0000-19-281-L04-P

1.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Identify characteristics of high-cost drugs and therapeutic areas where the cost of therapy plays a major role in treatment decisions.
- Describe the time, resource burden, and infrastructure necessary to make ethically appropriate, individual treatment decisions for high-cost drugs.
- Summarize approaches for allocating limited medication supplies resulting from a manufacturing shortage.
- Discuss various strategies that could optimize the supply chain for essential medications.

Program Chair, Moderator: **Steven Lucio, Pharm.D., BCPS**, Vice President, Vizient, Irving, TX

Presenters:

Genevieve Hayes, Pharm.D., M.S.Pharm., BCPS, Clinical Specialist, Outcomes Management, Medical University of South Carolina, Charleston, SC

Andrew G. Shuman, M.D., FACS, Assistant Professor, University of Michigan, Ann Arbor, MI

Yoram Unguru, M.D., M.S., M.A., Attending Physician and Assistant Professor, The Herman & Walter Samuelson Children's Hospital at Sinai and Johns Hopkins Berman Institute of Bioethics, Baltimore, MD

2:00 p.m. – 3:30 p.m.

Mandalay Bay D, Level 2

► Post ICU Care: A Patient's Perspective and an Opportunity for Pharmacists

ACTIVITY #: 0204-0000-19-284-L04-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

Learning Objectives:

- Given a patient case, outline barriers and complications related to ICU admission and transitions of care.
- Given a patient case, recommend appropriate treatment and management approaches in caring for ICU survivors and caregivers.
- Given a patient case, evaluate primary literature examining post-ICU care and services.
- Given a patient case, design a post-ICU follow up plan to effectively manage and address the unmet needs of ICU survivors and caregivers.

Program Chair, Moderator: **Rima A. Mohammad, Pharm.D., BCPS, FCCP**, Clinical Associate Professor, University of Michigan College of Pharmacy, Ann Arbor, MI

Presenters:

Amanda Grow, Former ICU Patient, Intermountain Medical Center, Salt Lake City, UT

Rima A. Mohammad, Pharm.D., BCPS, FCCP, Clinical Associate Professor, University of Michigan College of Pharmacy, Ann Arbor, MI

Joanna L. Stollings, Pharm.D., BCCCP, BCPS, FCCM, FCCP, MICU Clinical Pharmacy Specialist, Vanderbilt University Medical Center, Nashville, TN

2:00 p.m. – 3:30 p.m.

Oceanside A, Level 2

► Influenza Treatment Updates 2019

ACTIVITY #: 0204-0000-19-287-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

Learning Objectives:

- Summarize current treatment recommendations for the management of influenza.
- Given a scenario, use recent literature on oral and intravenous neuraminidase inhibitors to determine the most appropriate therapy in a hospitalized patient.
- Evaluate recent literature on the baloxavir use for influenza treatment.
- Given a case study, suggest appropriate use of baloxavir.

Program Chair: **Edina Avdic, Pharm.D., M.B.A., BCPS-AQ ID**, Associate Director, Antimicrobial Stewardship Program, The Johns Hopkins Hospital, Baltimore, MD

Presenters:

Edina Avdic, Pharm.D., M.B.A., BCPS-AQ ID, Associate Director, Antimicrobial Stewardship Program, The Johns Hopkins Hospital, Baltimore, MD

Janessa M. Smith, Pharm.D., BCPS-AQ ID, Clinical Pharmacy Specialist, Infectious Diseases, Orlando Regional Medical Center, Orlando, FL

Tiffeny T. Smith, Pharm.D., BCIDP, Infectious Disease Specialist, GenMark Diagnostics, Dallas, TX

2:00 p.m. – 3:30 p.m.

Oceanside C, Level 2

► **Combating the #1 Killer in America: New Evidence and Guidelines for Primary Prevention of Cardiovascular Disease**

ACTIVITY #: 0204-0000-19-289-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

TARGET AUDIENCE: BCPS

NOTE: This session is part of the *Live Intensive Studies and Clinical Sessions Packages*. All attendees may attend these thought-provoking and highly educational sessions. However, if you are board certified, you must purchase the package(s) for your specialty in order to receive the recertification assessment and claim the recertification credit.

Learning Objectives:

- Apply the American College of Cardiology/American Heart Association (ACC/AHA) hypertension and cholesterol guidelines in making treatment recommendations for primary prevention of cardiovascular events.
- Evaluate evidence-based guideline recommendations for the treatment of patients with hypertension, including treatment-resistant hypertension.
- Interpret evidence-based guideline recommendations for the use of statin therapy for primary prevention of cardiovascular events.
- Interpret clinical trials evaluating aspirin in primary prevention and clinical practice guideline recommendations.
- Given a patient without cardiovascular disease, develop a medication regimen for the prevention of cardiovascular events that reflects current clinical guidelines and available evidence.

Program Chair, Moderator: **Joseph J. Saseen, Pharm.D., BCACP, BCPS, CLS**, Professor and Vice Chair, University of Colorado Anschutz Medical Campus, Aurora, CO

Presenters:

Joel C. Marrs, Pharm.D., BCACP, BCCP, BCPS, CLS, FAHA, FASHP, FCCP, FNLA, Associate Professor, University of Colorado Skaggs School of Pharmacy and Pharmaceutical Science, Aurora, CO

Joseph J. Saseen, Pharm.D., BCACP, BCPS, CLS, Professor and Vice Chair, University of Colorado Anschutz Medical Campus, Aurora, CO

For more information, see page 40.

Complimentary Wi-Fi access is available in the North and South Convention Center meeting rooms, public space, Shoreline and Bayside Halls A & B.

FREE **WI-FI**

Select the network **ASHPMCM19** on your device and use the Conference Access Code **lasvegas19**

2:00 p.m. – 4:00 p.m.

Mandalay Bay J, Level 2

► **(BCOP Clinical Session) Anticoagulation Therapy: Considerations in the Setting of Malignancy**

Planned in cooperation with American College of Clinical Pharmacy

ACTIVITY #: 0217-9999-19-160-L01-P

2.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

TARGET AUDIENCE: BCOP

NOTE: This session is part of the *Live Intensive Studies and Clinical Sessions Packages*. All attendees may attend these thought-provoking and highly educational sessions. However, if you are board certified, you must purchase the package(s) for your specialty in order to receive the recertification assessment and claim the recertification credit.

Learning Objectives:

- Discuss the suspected pathophysiology and problem of venous thromboembolism (VTE) in malignancy.
- Describe current guidance for primary VTE prophylaxis in cancer patients.
- Analyze existing and emerging literature regarding the application of direct oral anticoagulants (DOACs) in the treatment of venous thromboembolism in malignancy.
- Assess issues related to DOAC use in malignancy and the impact they have on patient care.

Presenters:

Arthur L. Allen, Pharm.D., CACP, Anticoagulation Program Manager, VA Salt Lake City Healthcare System, Salt Lake City, UT

Katerina Butler, Pharm.D., BCOP, Hematology/Oncology Clinical Pharmacist, VA Salt Lake City Healthcare System, Salt Lake City, UT

Amy S. Sipe, R.Ph., Clinical Pharmacy Specialist, Kansas City VA Medical Center, Lee's Summit, MO

For more information, see page 40.

2:00 p.m. – 4:00 p.m.

South Seas B, Level 3

► Clinical Pearls 2019

Planned in cooperation with ASHP Section of Clinical Specialists and Scientists

ACTIVITY #: 0204-0000-19-292-L01-P
2.00 CONTACT HOURS | KNOWLEDGE-BASED
EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Discuss clinical scenarios that might not be widely used or published.
- Identify novel practice options for patient care in various health-system settings.
- Describe medication management strategies in difficult or controversial patient care situations.
- Identify clinical information that can be applied to your work setting.

Program Chair: Melody L. Berg, Pharm.D., M.P.H., BCPS, Lead Technical Writer, Wolters Kluwer, Whitestown, IN

Moderator: Bruce R. Canaday, Pharm.D., FAPhA, FASHP, Dean, St. Louis College of Pharmacy, St. Louis, MO

Presentations:

● **COPD: Are Eosinophils Really a Thing Now?**

Nathan A. Pinner, Pharm.D., BCPS, Associate Clinical Professor, Auburn University Harrison School of Pharmacy, Birmingham, AL

● **Cardiovascular Risk Reduction with Icosapent Ethyl: Have We Finally Caught a Keeper?**

Matthew P. Lillyblad, Pharm.D., BCCCP, BCPS-AQ Cardiology, Clinical Pharmacy Coordinator – Cardiology/Critical Care, Abbott Northwestern Hospital, part of Allina Health, Minneapolis, MN

● **New Glucagon: Saving a Life Just Got Easier**

Diana Isaacs, Pharm.D., BCACP, BC-ADM, BCPS, CDE, Endocrine Clinical Pharmacy Specialist, Cleveland Clinic Diabetes Center, Cleveland, OH

● **Better to Bolus? Evaluating Insulin Administration Strategies for the Management of Diabetic Ketoacidosis**

Hannah Brown, Pharm.D., BCPS, Emergency Medicine Clinical Pharmacy Specialist, Novant Health, Charlotte, NC

● **Pour Some Sugar On Me: Rethinking the Approach to Hypoglycemia Management**

Kyle M. DeWitt, Pharm.D., BCPS, Pharmacist Clinician, Emergency Medicine, Residency Program Director, PGY2 Emergency Medicine, The University of Vermont Medical Center, Burlington, VT

● **TEG Talk**

Nicole M. Acquisto, Pharm.D., FCCP, BCCCP, Emergency Medicine Clinical Pharmacy Specialist, Department of Pharmacy, Associate Professor, Department of Emergency Medicine, University of Rochester Medical Center, Rochester, NY

● **Party in the TXA: Inhaled Tranexamic Acid for Hemoptysis**

Natalie Madere, Pharm.D., BCCCP, BCPS, Clinical Pharmacy Specialist – Critical Care, Community Health Network North Hospital, Indianapolis, IN

● **Don't Forget About Me — PG**

Martha J. Roberts, Pharm.D., BCCCP, Clinical Pharmacist, Kent County Hospital, Warwick, RI

● **Bromocriptine for Neurogenic Fever: A Cool New Reality or a Hot Mess????**

Kristin Slown, Pharm.D., BCCCP, BCPS, Critical Care Clinical Pharmacist, Zuckerberg San Francisco General Hospital & Trauma Center, Pleasant Hill, CA

● **Vasoplegia — Solutions for Post-Surgical Stability**

Valerie Demekhin, Pharm.D., BCCCP, BCPS, Clinical Pharmacy Coordinator – CT-ICU and Heart Transplant, Northwell – NSUH, Manhasset, NY

● **Stop or Go? Perioperative Use of Buprenorphine**

Stephanie Tchen, Pharm.D., Clinical Pharmacist, Froedtert Hospital, Milwaukee, WI

● **Keep Differentiation Syndrome in Your Differential with the IDH Inhibitors**

Donald C. Moore, Pharm.D., BCOP, BCPS, DPLA, Pharmacist Clinical Coordinator – Hematology/Oncology, Levine Cancer Institute, Atrium Health, Concord, NC

● **Think Outside the Block: Lidocaine for Renal Colic, Is It Worth It?**

Rachel Wein, Pharm.D., BCPS, Emergency Medicine Clinical Pharmacist Specialist, Residency Program Director – PGY2 Emergency Medicine, Detroit Receiving Hospital, Detroit, MI

● **Can You Hear Me Now?**

Cyrine E. Haidar, Pharm.D., BCOP, BCPS, Clinical Pharmacogenetics Coordinator, St. Jude Children's Research Hospital, Memphis, TN

● **What Should Come First, the Chicken Egg or the Cell?**

Sarah M. Gaffney, Pharm.D., M.B.A., BCPS, Director of Pharmacy, Henrico Doctors' Hospital, HCA, Richmond, VA

● **Clear the Haze — Evidence-Based Information on Cannabinoids in Opioid Overdose Mortality**

Michelle E. Allen, Pharm.D., APh, BCPS, FASHP, FCCM, Pharmacist, St. Joseph Health Memorial Hospital/Sonoma Specialty Hospital, Santa Rosa, CA

● **A Smart Pill to Swallow: Ingestible Event Marker (IEM) Technology**

Ryan Rodriguez, Pharm.D., BCPS, Clinical Assistant Professor, Drug Information Specialist, University of Illinois at Chicago College of Pharmacy, Chicago, IL

● **Enox'd Up: DVT Prophylaxis in Pregnancy**

Amy Holmes, Pharm.D., BCPPS, Clinical Pharmacy Specialist, Novant Health Forsyth Medical Center, Winston-Salem, NC

● **Turning the Titanic: A Change in Decades-Long Practice of Maintenance Fluid Selection for Children**

Jamie L. Miller, Pharm.D., BCPPS, BCPS, Associate Professor, University of Oklahoma College of Pharmacy, Oklahoma City, OK

Afternoon of Innovation and Science

2:00 p.m. – 5:15 p.m.

Breakers C, Level 2

ASHP welcomes you to participate in two unique educational programs that will open your eyes and your mind to not only what is possible, but also what is happening in the world of science that will impact pharmacy practice in the years to come!

Imagine packages of life-saving medication arriving at your hospital's door by drone, minimizing patient wait time and maximizing the concept of "just in time" inventory! Identify disruptors in the healthcare and pharmacy ecosystem that are evolving before our very eyes. Look forward to changes on the horizon and determine ways to incorporate these exciting developments into your strategic plan!

2:00 p.m. – 3:15 p.m.

Breakers C, Level 2

● Autonomous Delivery: Your Drone Has Arrived!

ACTIVITY #: 0204-0000-19-285-L04-P

ACTIVITY #: 0204-0000-19-285-L04-T

1.00 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST



This program is approved for up to 1.00 continuing education (CE) hours for use in fulfilling the continuing education requirements of the Certified Professional in Healthcare Information & Management Systems (CPHIMS) or the Certified Associate in Healthcare Information and Management Systems (CAHIMS).

Learning Objectives:

- Describe the current state of autonomous delivery technology.
- List at least three scenarios to illustrate use of this technology.
- Describe the impact of autonomous delivery technology on pharmaceutical delivery.
- Identify concrete next steps for evaluating and implementing the use of autonomous technology in health-system pharmacy operations.

Program Chair: Chris Kenney, Business Development, Zipline International, Half Moon Bay, CA

Presenters:

Dhruv Bodupalli, M.D., M.B.A., Director of Healthcare Partnerships, Zipline International, Half Moon Bay, CA

Chris Kenney, Business Development, Zipline International, Half Moon Bay, CA

2:45 p.m. – 3:15 p.m.

South Seas D, Level 3

► (Management Case Study) Upgrading Pharmacy Carousel Technology at an Academic Medical Center

ACTIVITY #: 0204-0000-19-368-L04-P

ACTIVITY #: 0204-0000-19-368-L04-T

0.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Identify resources needed for expansion of current pharmacy services.
- Discuss methods for effective change management including staff communication.
- Explain aspects of contingency planning when implementing new technology.

3:45 p.m. – 5:15 p.m.

Breakers C, Level 2

● How Disruptive Innovation Is Changing the Healthcare and Pharmacy Ecosystem

Planned in cooperation with ASHP Section of Pharmacy Practice Leaders

ACTIVITY #: 0204-0000-19-283-L04-P

ACTIVITY #: 0204-0000-19-283-L04-T

1.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Identify disruptive innovation currently changing the healthcare and pharmacy ecosystem.
- Summarize how disruptive innovators will impact the overall healthcare landscape over the next five years.
- Discuss the impact of disruptive innovation on health-system pharmacy practice.
- Determine ways to incorporate changes to the healthcare ecosystem within health-system pharmacy strategic planning.

Program Chair, Moderator: Michael DeCoske, Pharm.D., BCPS, Assistant Vice President, Baptist Health South Florida, Miami, FL

Presenters:

Christopher R. Fortier, Pharm.D., FASHP, Chief Pharmacy Officer, Massachusetts General Hospital, Boston, MA

Ed Silverman, Pharmalot Columnist and Senior Writer, STAT News, Boston, MA

Martin G. VanTrieste, B.S.Pharm., President, Chief Executive Officer, Civica, Ponte Vedra Beach, FL

Moderator: Jeff Thiel, Pharm.D., M.S., Assistant Vice President, Pharmacy Services, NorthShore University HealthSystem, Evanston, IL

Presenter: Shea O'Brien, Pharm.D., M.B.A., BCPS, Pharmacy Informatics Resident, University of Utah Health, Salt Lake City, UT

Co-Author: Kavish J. Choudhary, Pharm.D., M.S., Senior Director, Inpatient and Infusion Pharmacy Services, University of Utah Health, Salt Lake City, UT

3:30 p.m. – 4:00 p.m.

South Seas D, Level 3

► **(Management Case Study) Modification of Radio Frequency Identification (RFID) Tagged Medication Workflow to Avoid Waste and Improve Cost Savings**

ACTIVITY #: 0204-0000-19-369-L04-P

ACTIVITY #: 0204-0000-19-369-L04-T

0.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe how to identify shortcomings and adjust workflow of RFID technology to better quantify expired medication waste.
- Describe how to identify shortcomings and adjust workflow of staff to better quantify expired medication waste.
- Describe how to compare ordering data and consumption/waste data to identify opportunities for cost savings.

Moderator: **Peter Martin, B.S.**, Student Pharmacist Intern, Texas A&M University Rangel School of Pharmacy, Kingsville, TX

Presenter: **Tyler I. Martinson, Pharm.D., BCPS**, Inpatient Pharmacy Manager, Sentara Virginia Beach General Hospital, Virginia Beach, VA

Got CE? Claim it soon!

All continuing pharmacy education credits must be claimed within 60 days of the live session you attend. To be sure your CE is accepted inside of ACPE's 60-day window, **plan to process your CE before**

January 31, 2020



CE POWER HOUR

It's amazing what you can learn in a short period of time. Don't miss out on the final hour of programming. Rev up your learning with these Power Hour choices.

4:00 p.m. – 5:00 p.m.

Oceanside C, Level 2

⌚ **Self-Care Considerations in Older Adults: Integrating Complementary and Alternative Medicine**

Planned in cooperation with the American College of Clinical Pharmacy

ACTIVITY #: 0204-9999-19-290-L04-P

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

TARGET AUDIENCE: BCGP

*NOTE: This session is part of the **Live Intensive Studies and Clinical Sessions Packages**. All attendees may attend these thought-provoking and highly educational sessions. However, if you are board certified, you must purchase the package(s) for your specialty in order to receive the recertification assessment and claim the recertification credit.*

Learning Objectives:

- Identify common reasons for complementary and alternative medicine (CAM) use in the older adult.
- Evaluate evidence in the literature for the safety and efficacy of CAM use by the older adult.
- Develop recommendations for the appropriate use of CAM by the older adult.

Presenter: **Emily M. Ambizas, Pharm.D., B.S.Pharm., M.P.H., BCGP**, Associate Clinical Professor, St. John's University, Seaford, NY

For more information, see page 40.

4:00 p.m. – 5:15 p.m.

Mandalay Bay D, Level 2

⌚ **The First Order: Detecting and Overcoming Resistant Hypertension in Ambulatory Care**

Planned in cooperation with ASHP Section of Ambulatory Care Practitioners

ACTIVITY #: 0204-0000-19-272-L01-P

1.25 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Given a patient case, analyze the concept of resistant hypertension and apparent treatment-resistant hypertension to develop a treatment plan for each.
- Given a patient with resistant hypertension who is not at their treatment goal, develop a pharmacologic treatment and monitoring plan for goal attainment.
- Design a lifestyle and adherence plan after interviewing a patient to identify areas of potential action.

Program Chair, Moderator: **Karen M. Gunning, Pharm.D., BCACP, BCPS**, Professor (Clinical) of Pharmacotherapy & Clinical Pharmacist – University of Utah Family Medicine Residency Program, University of Utah College of Pharmacy, University of Utah Health, Salt Lake City, UT

Presenters:

Karen M. Gunning, Pharm.D., BCACP, BCPS, Professor (Clinical) of Pharmacotherapy & Clinical Pharmacist – University of Utah Family Medicine Residency Program, University of Utah College of Pharmacy, University of Utah Health, Salt Lake City, UT

Evan Sisson, Pharm.D., M.S.H.A., BCACP, CDE, Professor, VCU School of Pharmacy, Richmond, VA

4:00 p.m. – 5:15 p.m.

South Seas J, Level 3

⌚ Managing the Crisis You Didn't Prevent: Leadership and Medication Safety

Planned in cooperation with the Institute for Safe Medication Practices

ACTIVITY #: 0204-0000-19-274-L05-P

ACTIVITY #: 0204-0000-19-274-L05-T

1.25 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Given a case scenario, illustrate the importance of developing an organizational clinical crisis management plan.
- Design an approach to integrating a plan into the organizational culture of quality and safety, with a focus on patient- and family-centered care and fair and just treatment for staff.
- Given a case scenario, analyze the use of resources when a serious adverse event occurs in the absence of a clinical crisis management plan or culture of quality and safety.
- Describe The Joint Commission Sentinel Event Alert #60 and how it relates to a just culture and care for second victims.

Program Chair, Moderator: Natasha Nicol, Pharm.D., FASHP, Director, Global Patient Safety Affairs, Cardinal Health Innovative Delivery Solutions, Pawleys Island, SC

Presenters:

Matthew Grissinger, B.S.Pharm., FASCP, FISMP, Director, Error Reporting Programs, Institute for Safe Medication Practices, Horsham, PA

Natasha Nicol, Pharm.D., FASHP, Director, Global Patient Safety Affairs, Cardinal Health Innovative Delivery Solutions, Pawleys Island, SC

4:00 p.m. – 5:15 p.m.

South Seas F, Level 3

⌚ Conflict Resolution: Strategies for the Practicing Pharmacist and Pharmacy Technician

ACTIVITY #: 0204-0000-19-276-L04-P

ACTIVITY #: 0204-0000-19-276-L04-T

1.25 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Explain the nature of conflict in healthcare, including the sources of conflict and types of conflict styles.
- Identify practical conflict resolution strategies and tactics pharmacists and pharmacy technicians can use to manage conflict.
- Given a scenario, apply techniques for resolving conflict to a case involving a workplace dispute.

Program Chair, Moderator: Conor T. Hanrahan, Pharm.D.,

BCPS, CPHIMS, CPPS, Medication Policy, Outcomes, and Stewardship Director, Intermountain Healthcare, Taylorsville, UT

Presenters:

Carolynn Clark, J.D., Director – Conflict Resolution Graduate Certificate Program, University of Utah, Salt Lake City, UT

Conor T. Hanrahan, Pharm.D., BCPS, CPHIMS, CPPS, Medication Policy, Outcomes, and Stewardship Director, Intermountain Healthcare, Taylorsville, UT

4:00 p.m. – 5:15 p.m.

Lagoon F, Level 2

⌚ Home to Stay: Successful Transitions for Patients on IV Therapy

Planned in cooperation with ASHP Section of Ambulatory Care Practitioners

ACTIVITY #: 0204-0000-19-278-L01-P

1.25 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Given a case scenario for discharge on home parenteral nutrition (PN), evaluate the appropriateness of various methods to meet patient and care-provider capabilities, fluid requirements, PN stability, and insurance issues and costs.
- Given a case scenario, discuss actions or interventions a pharmacist can perform to help smooth transition to home and reduce the risk of readmission when an IV inotrope will continue after discharge.
- Develop a therapeutically appropriate and manageable regimen for a patient receiving complex therapy.

Presenters:

Amy Roen-Kim, Clinical Pharmacist, Chartwell Midwest Wisconsin, Middleton, WI

Carol J. Rollins, Pharm.D., M.S., BCNSP, CNSC, FASHP, FASPen, RD, Clinical Professor, The University of Arizona College of Pharmacy, Tucson, AZ

4:00 p.m. – 5:15 p.m.

Lagoon L, Level 2

⌚ Water, Water, Everywhere, But Not a Drop to Drink: Distribution of Intravenous Fluid Administration

Planned in cooperation with ASHP Section of Clinical Specialists and Scientists

ACTIVITY #: 0204-0000-19-280-L01-P

1.25 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Describe the distribution of commonly administered intravenous solutions in the body of a healthy subject.
- Explain the distribution of commonly administered intravenous solutions in the body of patients with common disease states.
- Discuss adverse effects of inappropriate intravenous fluid administration.

Presenter: Brian L. Erstad, Pharm.D., BCPS, FASHP, FCCP, MCCM, Professor and Head, Pharmacy Practice and Science, The University of Arizona College of Pharmacy, Tucson, AZ

4:00 p.m. – 5:15 p.m.

Mandalay Bay L, Level 2

⌚ The Rise of the Biosimilars: Increasing Use on a Broad Scale

Planned in cooperation with ASHP Section of Clinical Specialists and Scientists

ACTIVITY #: 0204-0000-19-282-L01-P

1.25 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

Learning Objectives:

- Compare and contrast the differences between biosimilar and generic medications.
- Compare and contrast differences between reference biologic products and biosimilars.
- Identify currently available biosimilars and those in the pipeline in the United States.
- Evaluate the challenges of biosimilar therapy adoption among clinicians and patients.
- Apply strategies to communicate with providers, pharmaceutical companies, management, the C-suite, and patients regarding important biosimilar issues.
- Given a scenario, assess challenges with third-party coverage of biosimilars and describe barriers, such as rebates to insurers.

Program Chair, Moderator: **Karen J. McConnell, Pharm.D., BCPS, FASHP, FCCP**, System Director – Clinical Pharmacy Services, Catholic Health Initiatives, Englewood, CO

Presenters:

Patrick N. Ellis, Pharm.D., Market Director of Pharmacy, CHI Memorial, Chattanooga, TN

Karen J. McConnell, Pharm.D., BCPS, FASHP, FCCP, System Director – Clinical Pharmacy Services, Catholic Health Initiatives, Englewood, CO

4:00 p.m. – 5:15 p.m.

Mandalay Bay B, Level 2

⌚ Let's Gain Control: Update on Status Epilepticus Treatment in Adults and Pediatrics

Planned in cooperation with ASHP Section of Clinical Specialists and Scientists

ACTIVITY #: 0204-0000-19-286-L01-P

1.25 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

Learning Objectives:

- Review the updates in the treatment of status epilepticus.
- Evaluate new antiepileptic agents and alternative routes of administration to improve treatment.
- Discuss appropriate parameters to initiate ketamine.
- Given a scenario, create a treatment plan for a pediatric patient in status epilepticus.

Program Chair, Moderator: **Karen Berger, Pharm.D., BCCCP, BCPS, FCCM**, Neurocritical Care Clinical Pharmacist, NewYork-Presbyterian Hospital, Weill Cornell Medical Center, New York, NY

Presenters:

Karen Berger, Pharm.D., BCCCP, BCPS, FCCM, Neurocritical Care Clinical Pharmacist, NewYork-Presbyterian Hospital, Weill Cornell Medical Center, New York, NY

Jenny Steinbrenner, Pharm.D., BCPPS, Pediatric Emergency Medicine Clinical Pharmacist, Nationwide Children's Hospital, Columbus, OH

4:00 p.m. – 5:15 p.m.

Oceanside A, Level 2

⌚ You Don't Know How it Feels: Empathic Communication Skills for Pharmacy Practice

Planned in cooperation with ASHP Section of Ambulatory Care Practitioners

ACTIVITY #: 0204-0000-19-288-L04-P

ACTIVITY #: 0204-0000-19-288-L04-T

1.25 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Given a patient case, develop communication strategies to demonstrate an empathetic interaction with a dying patient.
- Develop teaching techniques for supporting the communication skills of pharmacy learners during emotionally challenging patient interactions.
- Recommend tools and resources for developing empathy-directed communication in various pharmacy practice settings.

Program Chair, Moderator: **Traci M. White, Pharm.D., Ph.C., BCGP**, Assistant Professor, Regional Coordinator of Experiential Education, University of New Mexico College of Pharmacy, Las Cruces, NM

Presenters:

Kashelle Lockman, Pharm.D., M.A., Clinical Assistant Professor, University of Iowa College of Pharmacy, Iowa City, IA

Traci M. White, Pharm.D., Ph.C., BCGP, Assistant Professor, Regional Coordinator of Experiential Education, University of New Mexico College of Pharmacy, Las Cruces, NM

4:15 p.m. – 4:45 p.m.

South Seas D, Level 3

⌚ (Management Case Study) Centralized Electronic Prior Authorizations in a Large Healthcare System

ACTIVITY #: 0204-0000-19-370-L04-P

ACTIVITY #: 0204-0000-19-370-L04-T

0.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe a workflow to electronically centralize prescription prior authorization across a large system of clinics.
- Identify key advantages of implementing a centralized electronic prior authorization support for provider teams.
- List elements of a strategic business proposal to gain executive leadership support for building a central prior authorization team.

Moderator: **Maria Giannakos, Pharm.D., M.B.A., BCPS**, Clinical Pharmacy Services Manager, PGY1 Pharmacy Residency Program Director, Chicago, IL

Presenter: **Dalia Saleh, Pharm.D.**, Manager of Specialty Pharmacy, Advocate Aurora Health, Menomonee Falls, WI

TAG & FOLLOW

Tag your photos, tweets, and videos with
#ASHP19.

Connect
to everything
happening at the
Midyear Clinical
Meeting



Follow #ASHP19
on Twitter
and Instagram.



Like
[facebook.com/
ASHPOfficial](https://facebook.com/ASHPOfficial).

4:15 p.m. – 5:15 p.m.

Oceanside D, Level 2

● Infectious Diseases Hot Topics 2019

Planned in cooperation with ASHP Section of Clinical Specialists and Scientists

ACTIVITY #: 0204-0000-19-291-L01-P

1.00 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Discuss clinical scenarios that might not be widely used or published within infectious diseases pharmacy.
- Identify novel infectious diseases practice options for patient care in various pharmacy practice settings.
- Describe medication management strategies in difficult or controversial patient care scenarios related to infectious diseases care.
- Identify clinical information that can be applied across practice settings including inpatient, ambulatory care, transitions of care, community, and others.

Program Chair, Moderator: **Bhavik M. Shah, Pharm.D., BCPS**, Associate Professor, Jefferson College of Pharmacy, Philadelphia, PA

Presenters:

Sarah B. Blackwell, Pharm.D., BCCCP, BCPS, Clinical Pharmacy Specialist, PGY1 Residency Program Director, Princeton Baptist Medical Center, Birmingham, AL

Aimee Dassner, Pharm.D., BCIDP, Clinical Specialist Pharmacist, Pediatric Infectious Diseases/Antimicrobial Stewardship, Children's Health, Dallas, TX

Erin K. McCreary, Pharm.D., BCIDP, BCPS, Infectious Diseases/Antimicrobial Stewardship Clinical Pharmacist, University of Pittsburgh Medical Center, Pittsburgh, PA

Krista L. McElray, Pharm.D., BCPS, Education & Development Coordinator, UW Health, Madison, WI

Anne Misher, Pharm.D., BCACP, BC-ADM, CDE, Clinical Assistant Professor, University of Georgia, Savannah, GA

Jamie C. Sebaaly, Pharm.D., BCPS, Assistant Professor of Pharmacy, Wingate University School of Pharmacy, Charlotte, NC

Tiffeny T. Smith, Pharm.D., BCIDP, Infectious Disease Specialist, GenMark Diagnostics, Dallas, TX

WEDNESDAY, DECEMBER 11

8:00 a.m. – 8:30 a.m.

South Seas D, Level 3

► (Management Case Study) Using Six Sigma Methodology to Optimize Electronic Workflow for Pharmacy Charges

ACTIVITY #: 0204-0000-19-371-L04-P

ACTIVITY #: 0204-0000-19-371-L04-T

0.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Identify the steps of the six sigma framework Define, Measure, Analyze, Design, Verify (DMADV).
- Identify critical elements to create an accurate pharmacy charge description master (CDM).
- Explain how pharmacy can directly impact hospital revenue and cash flow.

Moderator: **Julia Chisholm, Pharm.D., M.B.A.**, Ambulatory Pharmacy Operations Manager, University of Missouri Health Care, Columbia, MO

Presenter: **Richard Wojtowicz, Pharm.D., M.B.A.**, Manager – Business, Acute Care Pharmacy Services, Baystate Medical Center, Hadley, MA

Co-Author: **Aaron Michelucci, Pharm.D.**, Senior Director of Pharmacy, Baystate Medical Center, Springfield, MA

8:00 a.m. – 9:30 a.m.

Mandalay Bay B, Level 2

► Medications and Increased Risk of Depression and Suicidality

Planned in cooperation with ASHP Section of Clinical Specialists and Scientists

ACTIVITY #: 0204-0000-19-279-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Review the evidence on common medications that increase the risk of depression and suicidality.
- Discuss the role of the Food and Drug Administration in assessing depression and suicidality risk.
- Given a case study, analyze the role of the pharmacist in the assessment of risk and prevention of depression and suicidality.

Program Chair:

Joel C. Marrs, Pharm.D., BCACP, BCCP, BCPS, CLS, FAHA, FASHP, FCCP, FNLA, Associate Professor, University of Colorado Skaggs School of Pharmacy and Pharmaceutical Science, Aurora, CO

Moderator: **Benjamin Chavez, Pharm.D.**, Director of Behavioral Health Pharmacy Services, Clinical Associate Professor, Salud Family Health Center, University of Colorado SSPPS, Aurora, CO

Presenters:

Benjamin Chavez, Pharm.D., Director of Behavioral Health Pharmacy Services, Clinical Associate Professor, Salud Family Health Center, University of Colorado SSPPS, Aurora, CO

Megan Maroney, Pharm.D., BCPP, Clinical Associate Professor, Ernest Mario School of Pharmacy at Rutgers, the State University of New Jersey, Long Branch, NJ

Thomas R. Smith, Pharm.D., BCPP, Associate Professor of Pharmacy Practice and Pharmacogenomics, Manchester University College of Pharmacy, Natural & Health Sciences, Fort Wayne, IN

EDUCATIONAL SESSIONS Wednesday, December 11 CONTINUED

8:00 a.m. – 9:30 a.m.

Lagoon L, Level 2

► National Quality Measures: A Value Proposition

ACTIVITY #: 0204-0000-19-293-L04-P

ACTIVITY #: 0204-0000-19-293-L04-T

1.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Describe the process in which national quality measures are identified for federal and commercial reporting programs.
- Identify relevant measures for pharmacy departments to assume accountability for in hospitals and health systems.
- Develop an approach to monitor and benchmark performance on quality measures.

Program Chair, Moderator: Anna Legreid Dopp, Pharm.D., Director, Clinical Guidelines & Quality Improvement, ASHP, Bethesda, MD

Presenters:

Charles "Kurt" Mahan, Pharm.D., Ph.C., FASHP, FCCP, Cardiac Critical Care Pharmacist, Associate Professor of Pharmacy, Presbyterian Healthcare Services, University of New Mexico College of Pharmacy, Albuquerque, NM

Janice M. Taylor, Pharm.D., BCPS, PBM Data and Program Manager, VA Sierra Pacific Network (VISN 21), Reno, NV

8:00 a.m. – 9:30 a.m.

South Seas J, Level 3

► Get Paid! Transitional Care Management, Medicare Annual Wellness, and Medication Therapy Management Services

Planned in cooperation with ASHP Section of Ambulatory Care Practitioners

ACTIVITY #: 0204-0000-19-294-L04-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Identify key stakeholders when implementing a new pharmacy service.
- Apply key concepts and regulatory requirements to develop a transitional care management or Medicare annual wellness visit service.
- Evaluate the process for implementing office-based medication therapy management using a platform-based program.
- Recommend key outcomes or performance indicators to evaluate when implementing transitional care management, Medicare annual wellness visit, or medication therapy management services.

Program Chair, Moderator: Ashley M. Parrott, Pharm.D., M.B.A., BCACP, Ambulatory Clinical Pharmacy Supervisor, Parkview Health, Fort Wayne, IN

Presenters:

Jamie J. Cavanaugh, Pharm.D., CPP, Clinical Assistant Professor of Medicine, University of North Carolina, Chapel Hill, NC

Megan Dorrell, Pharm.D., BCACP, Director of Ambulatory Clinical Pharmacy Services, Community Health Network, Indianapolis, IN

Ashley M. Parrott, Pharm.D., M.B.A., BCACP, Ambulatory Clinical Pharmacy Supervisor, Parkview Health, Fort Wayne, IN

8:00 a.m. – 9:30 a.m.

Mandalay Bay L, Level 2

► Results From the 2019 ASHP National Survey: The Current State of Pharmacy Practice in Hospitals and Health Systems

ACTIVITY #: 0204-0000-19-295-L04-P

ACTIVITY #: 0204-0000-19-295-L04-T

1.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe how the ASHP National Survey results can be used to effect change in your organization.
- List the most significant practice trends identified in the 2019 National Survey.
- Describe the practice trends that deviate from established best practices.

Program Chair, Moderator: Douglas J. Scheckelhoff, M.S., FASHP, Senior Vice President, ASHP, Bethesda, MD

Presenters:

Michael Ganio, Pharm.D., M.S., BCPS, FASHP, Director, Pharmacy Practice and Quality, ASHP, Bethesda, MD

Craig A. Pedersen, Ph.D., R.Ph., FAPhA, Pharmacy Manager, Virginia Mason Medical Center, Seattle, WA

Philip J. Schneider, M.S., FASHP, FASPen, FFIP, Professor, College of Pharmacy, The Ohio State University, Scottsdale, AZ

8:00 a.m. – 9:30 a.m.

Mandalay Bay J, Level 2

► Is Pediatric Anticoagulation Experiencing a Paradigm Shift?

ACTIVITY #: 0204-0000-19-296-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

TARGET AUDIENCE: BCPPS

*NOTE: This session is part of the **Live Intensive Studies and Clinical Sessions Packages**. All attendees may attend these thought-provoking and highly educational sessions. However, if you are board certified, you must purchase the package(s) for your specialty in order to receive the recertification assessment and claim the recertification credit.*

Learning Objectives:

- Summarize the key pathophysiologic, pharmacokinetic, and pharmacodynamic differences between adult and pediatric patients that affect anticoagulation requirements.
- Analyze the potential benefits and limitations of using direct oral anticoagulants (DOACs) in pediatric patients.
- Identify appropriate anticoagulation reversal agents for pediatric patients.
- Evaluate recent literature on addressing anticoagulation strategies for pediatric patients receiving extracorporeal membrane oxygenation (ECMO) therapy.

Program Chair, Moderator: Steve A. Martin, Pharm.D., BCPPS, Pediatric Operations Manager and Clinical Pharmacy Specialist in Pediatric Cardiology, Levine Children's Hospital, Charlotte, NC

Presenters:

Steve A. Martin, Pharm.D., BCPPS, Pediatric Operations Manager and Clinical Pharmacy Specialist in Pediatric Cardiology, Levine Children's Hospital, Charlotte, NC

Jessica Otero, Pharm.D., Clinical Pharmacist: Critical Care and Anticoagulation, Seattle Children's Hospital, Seattle, WA

For more information, see page 40.

For presenter disclosures, see page 141.

8:00 a.m. – 9:30 a.m.

Mandalay Bay D, Level 2

► What's New in Critical Care Pharmacy Practice

ACTIVITY #: 0204-0000-19-297-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

Learning Objectives:

- Given a scenario, evaluate recommendations from the 2018 Pain, Agitation/Sedation, Delirium, Immobility, and Sleep (PADIS) guidelines.
- Interpret the results of recent investigations of stress ulcer prophylaxis therapy in the context of the historical literature on this topic.
- Given a scenario, develop a therapy for patients with known or suspected heparin-induced thrombocytopenia.

Program Chair, Moderator: Scott Bolesta, Pharm.D., BCPS, FCCM, FCCP, Associate Professor, Wilkes University, Wilkes-Barre, PA

Presenters:

William Dager, Pharm.D., BCPS, FASHP, FCCM, FCCP, MCCM, Pharmacist Specialist, University of California, Davis Medical Center, Sacramento, CA
Gilles L. Fraser, Pharm.D., B.S.Pharm., MCCM, Critical Care Pharmacist, Maine Medical Center, Portland, ME
Robert MacLaren, Pharm.D., M.P.H., FCCM, FCCP, Professor, University of Colorado School of Pharmacy, Aurora, CO

8:00 a.m. – 9:30 a.m.

Oceanside B, Level 2

► ISMP Medication Safety Update for 2020

ACTIVITY #: 0204-0000-19-298-L05-P

ACTIVITY #: 0204-0000-19-298-L05-T

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Explain the top five most important medication safety issues reported to the Institute for Safe Medication Practices (ISMP) in the past 12 months.
- Examine three effective strategies to reduce medication errors related to ISMP's top issues.
- Analyze the most- and least-implemented ISMP Targeted Medication Safety Best Practices for Hospitals.
- Describe the new 2020-2021 ISMP Targeted Medication Safety Best Practices for Hospitals.

Program Chair: Christina Michalek, B.S., R.Ph., FASHP, Medication Safety Specialist, Institute for Safe Medication Practices, Horsham, PA

Moderator: Michael R. Cohen, Sc.D. (Hon.), DPS (Hon.), M.S., R.Ph., FASHP, President, Institute for Safe Medication Practices, Horsham, PA

Presenters:

Matthew Grissinger, B.S.Pharm., FASCP, FISMP, Director, Error Reporting Programs, Institute for Safe Medication Practices, Horsham, PA

Christina Michalek, B.S., R.Ph., FASHP, Medication Safety Specialist, Institute for Safe Medication Practices, Horsham, PA

8:00 a.m. – 9:30 a.m.

South Seas F, Level 3

► Measuring the Immeasurable: Clinical Pharmacy Productivity

Planned in cooperation with ASHP Section of Clinical Specialists and Scientists

ACTIVITY #: 0204-0000-19-299-L04-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

Learning Objectives:

- Discuss how pharmacy productivity is currently measured.
- Evaluate how clinical pharmacy services are different from other pharmacy services.
- Identify common challenges encountered in measuring productivity in clinical pharmacy services.
- Apply strategies to measure clinical productivity and justify clinical FTEs in a given scenario.

Program Chair: Karen J. McConnell, Pharm.D., BCPS, FASHP, FCCP, System Director – Clinical Pharmacy Services, Catholic Health Initiatives, Englewood, CO

Presenters:

Joseph B. Cavanaugh, Pharm.D., BCCCP, BCPS, Senior Clinical Pharmacy Specialist, Community Medical Center, Toms River, NJ

Karen J. McConnell, Pharm.D., BCPS, FASHP, FCCP, System Director – Clinical Pharmacy Services, Catholic Health Initiatives, Englewood, CO

Melissa Pleva, Pharm.D., Pharmacy Manager – Surgery and Cardiovascular Services, Michigan Medicine, Ann Arbor, MI

8:00 a.m. – 9:30 a.m.

Oceanside D, Level 2

► Emergency Medicine Pearls 2019

Planned in cooperation with ASHP Section of Clinical Specialists and Scientists

ACTIVITY #: 0204-0000-19-300-L01-P

1.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Discuss clinical practice in the emergency department.
- Explain applications of clinical pharmacotherapy in the emergency department.
- Discuss how to apply clinical pharmacotherapy to unique circumstances and clinical presentations.

Program Chair, Moderator: David E. Zimmerman, Pharm.D., BCCCP, BCPS, Associate Professor of Pharmacy, Duquesne University School of Pharmacy, Pittsburgh, PA

Presentations:

- Intranasal Lidocaine: Taking the Headache Away from Treating Migraines*

Hina Patel, Pharm.D., BCPS, PGY1 Pharmacy Residency Program Director, NorthShore University HealthSystem, Evanston, IL

- Ivabridine for Pretreatment in Coronary Computed Tomography Angiography*

Rebecca L. Patterson, Pharm.D., PGY2 Emergency Medicine Pharmacy Resident, The Johns Hopkins Hospital, Mechanicsville, VA

EDUCATIONAL SESSIONS Wednesday, December 11 CONTINUED

- **Dexmedetomidine: Another Use for This Sedative Is Right Under Your Nose**
Danielle T. Burton, Pharm.D., B.S., PGY2 Emergency Medicine Pharmacy Resident, Boston Medical Center, Boston, MA
- **RSI Induction Agents: Use in the Setting of Shock**
Kayleigh Mitchell, Pharm.D., PGY2 Emergency Medicine Pharmacy Resident, Banner – University Medical Center Tucson, Tucson, AZ
- **Stings in Kids: Scorpion Antivenom Dosing Strategies for Pediatric Patients**
Louisa K. Sullivan, Pharm.D., PGY2 Emergency Medicine Resident Pharmacist, Maricopa Integrated Health System, Phoenix, AZ
- **Seize the Moment: Safely and Effectively Pushing Antiepileptics**
Stephany N. Nunez Cruz, Pharm.D., BCPS, Emergency Medicine Clinical Pharmacist, Advocate Christ Medical Center, Oak Lawn, IL
- **Cracking the Shell on Propofol Use in Patients with Egg Allergies**
Eli Philips, Pharm.D., PGY2 Emergency Medicine Pharmacy Resident, University of Vermont Medical Center, Burlington, VT
- **Don't Kill Highs, Nebulize: Nebulized Naloxone for Opioid Overdose**
Brandon S. Houseman, Pharm.D., PGY2 Emergency Medicine Resident, University of Maryland Medical Center, Baltimore, MD
- **All About That Dose: Naloxone for Clonidine Toxicity**
Katherine A. Ciampa, Pharm.D., PGY2 Emergency Medicine Pharmacy Resident, Massachusetts General Hospital, Boston, MA
- **Goal-Directed Resuscitation in Cardiac Arrest**
Tiffany V. Jomoc, Pharm.D., PGY2 Emergency Medicine Pharmacy Resident, Touro College of Pharmacy/Saint Barnabas Hospital, The Bronx, NY
- **Safe Use of Ibutilide in the ED**
Lance Ray, Pharm.D., BCPS, Emergency Medicine Clinical Pharmacist, University of Colorado Hospital, Aurora, CO
- **Dropéridol Dropped and Back Again**
Clare P. McMahon, Pharm.D., Emergency Medicine Pharmacist, OhioHealth Marion General Hospital, Marion, OH
- **Measles: Don't Call It a Comeback**
Donald E. Mulvihill, Pharm.D., PGY2 Resident Pharmacist, Sharp Chula Vista Medical Center, San Diego, CA
- **Breathe and Stop the Bleed: Inhaled Tranexamic Acid for Hemoptysis**
Caroline Vizzi, Pharm.D., PGY2 Emergency Medicine Resident, The Ohio State University Wexner Medical Center, Columbus, OH

8:00 a.m. – 9:30 a.m.

Breakers C, Level 2

► I Want That! Technology Innovation 2019

Planned in cooperation with ASHP Section of Pharmacy Informatics and Technology



ACTIVITY #: 0204-0000-19-301-L04-P

ACTIVITY #: 0204-0000-19-301-L04-T

1.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

This program is approved for up to 1.50 continuing education (CE) hours for use in fulfilling the continuing education requirements of the Certified Professional in Healthcare Information & Management Systems (CPHIMS) or the Certified Associate in Healthcare Information and Management Systems (CAHIMS).

Learning Objectives:

- Describe three new technologies that have improved the safety and efficiency of patient care in healthcare systems.
- Explain the pros and cons of new technologies.
- Describe various approaches organizations implement new technologies, automation, or informatics solutions.

Program Chair, Moderator: Gwen Volpe, R.Ph., FASHP, LSSBB, Director Medication Technology and Analytics, Fresenius-Kabi, Lake Zurich, IL

Facilitator: Dennison Lim, Pharm.D., Medication Management Informaticist, Mayo Clinic, Rochester, MN

Presenters:

Arash Dabestani, Pharm.D., M.H.A., FABC, FASHP, Senior Director of Pharmacy, NYU Langone Health, New York, NY

Amanda Hall, Ph.D., Senior User Researcher, Microsoft, Seattle, WA

Mark Sey, Pharmacist in Chief, Rady Children's Hospital, San Diego, CA

8:00 a.m. – 9:30 a.m.

Oceanside A, Level 2

► Artificial Intelligence Is Shaping the Future of Healthcare: Three Perspectives

ACTIVITY #: 0204-0000-19-302-L04-P

ACTIVITY #: 0204-0000-19-302-L04-T

1.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe common concerns healthcare professionals have related to artificial intelligence (AI).
- List examples of how AI is impacting healthcare.
- Describe ways in which the academic perspective on AI differs from industry or public health.

Program Chair, Moderator: Scott D. Nelson, Pharm.D., M.S., Assistant Professor, Biomedical Informatics, Vanderbilt University Medical Center, Nashville, TN

Presenters:

Tina Moen, Pharm.D., Senior Deputy Chief Health Officer and Chief Pharmacy Officer, IBM Watson Health, Centennial, CO

Benjamin D. Tyndall, Ph.D., Director, Advanced Analytics and Visualization, Tennessee Department of Health, Nashville, TN

Colin G. Walsh, M.D., M.A., Assistant Professor of Biomedical Informatics, Medicine, and Psychiatry, Vanderbilt University Medical Center, Nashville, TN

8:00 a.m. – 9:30 a.m.

Oceanside C, Level 2

► **JNC8 vs. 2017 American College of Cardiology/American Heart Association (ACC/AHA) Hypertension Guidelines: Which Should We Follow?**

Planned in cooperation with American College of Clinical Pharmacy

ACTIVITY #: 0204-9999-19-303-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

TARGET AUDIENCE: BCACP, BCGP

NOTE: This session is part of the *Live Intensive Studies and Clinical Sessions Packages*. All attendees may attend these thought-provoking and highly educational sessions. However, if you are board certified, you must purchase the package(s) for your specialty in order to receive the recertification assessment and claim the recertification credit.

Learning Objectives:

- Evaluate the recommendations for management of hypertension in adults from the eighth Joint National Committee (JNC 8) and the 2017 American College of Cardiology/American Heart Association (ACC/AHA) guidelines.
- Apply the evidence-based recommendations in the current guidelines for the management of hypertension to specific patient cases, including geriatric patients.
- In collaboration with an interprofessional team, devise pharmacotherapeutic plans for adults with hypertension based on current evidence-based guidelines and recent literature.

Program Chair, Moderator: **Nicholas Leon, Pharm.D., BCACP, BCPS, FCPP**, Associate Professor of Pharmacy Practice, Thomas Jefferson University, Jefferson College of Pharmacy, Philadelphia, PA

Presenters:

Nicholas Leon, Pharm.D., BCACP, BCPS, FCPP, Associate Professor of Pharmacy Practice, Thomas Jefferson University, Jefferson College of Pharmacy, Philadelphia, PA
Kristin Watson, Pharm.D., BCPS-AQ Cardiology, Associate Professor and Vice Chair for Clinical Services, University of Maryland School of Pharmacy, Baltimore, MD

For more information, see page 40.

8:00 a.m. – 9:30 a.m.

Lagoon F, Level 2

► **Targeting Success with USP Compounding Standards <795>, <797>, and <800>**

ACTIVITY #: 0204-0000-19-336-L07-P

ACTIVITY #: 0204-0000-19-336-L07-T

1.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Review the revisions to United States Pharmacopeia (USP) compounding standards <797> and <795> and the applicability of <800>.
- Describe the most common Joint Commission compounding survey findings of 2019.
- Identify Joint Commission focus areas for compounding standards.

- Discuss organizational readiness for compliance with established standards.

Program Chair: **Jeanne Sun, Pharm.D., J.D.**, Manager and Scientific Liaison, U.S. Pharmacopeia, Rockville, MD

Presenters:

Robert C. Campbell, Pharm.D., Director, Clinical Standards Interpretations for Hospital and Ambulatory Programs, Director of Medication Management, Division of Healthcare Improvement, The Joint Commission, Oakbrook Terrace, IL
Matthew T. Jenkins, Pharm.D., M.S., Director – Inpatient and Infusion Pharmacy Services, University of Virginia Health System, Charlottesville, VA
Jeanne Sun, Pharm.D., J.D., Manager and Scientific Liaison, U.S. Pharmacopeia, Rockville, MD

8:45 a.m. – 9:15 a.m.

South Seas D, Level 3

► **(Management Case Study) Balancing Act: Implementation of a Proactive Sterile Compounding Environmental Monitoring Program and Action Plan Tool**

ACTIVITY #: 0204-0000-19-372-L04-P

ACTIVITY #: 0204-0000-19-372-L04-T

0.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe a process change that can be made in a compounded sterile preparation (CSP) program that improves patient safety.
- Identify key members of a multidisciplinary team for CSP oversight and process improvement.
- Describe how an action guide saves time and prevents workflow interruptions in the pharmacy.

Moderator: **Lacey Charbonneau, Pharm.D., BCGP**, Transitions of Care Clinical Pharmacist, Winter Haven Hospital – BayCare Health System, Winter Haven, FL

Presenter: **Andrea L. Brown, Pharm.D., B.S.**, Compounded Sterile Product Pharmacy Supervisor, Veterans Administration – Tennessee Valley Healthcare System, Nashville, TN

Co-Author: **Vaiyapuri Subramaniam, Pharm.D., M.S., FASCP, FASHP, FCP**, Pharmacy Executive & Consultant, Pharmaceutical Compounding Compliance & Management Consulting, Silver Spring, MD

Complimentary Wi-Fi access is available in the North and South Convention Center meeting rooms, public space, Shoreline and Bayside Halls A & B.



Select the network **ASHPMCM19** on your device and use the Conference Access Code **lasvegas19**

EDUCATIONAL SESSIONS Wednesday, December 11 CONTINUED

2:00 p.m. – 2:30 p.m.

South Seas D, Level 3

► (Management Case Study) Registering as a 503B Outsourcer: Journey to the Possible!

ACTIVITY #: 0204-0000-19-373-L07-P

ACTIVITY #: 0204-0000-19-373-L07-T

0.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe the current level of participation of health systems as 503B Outsourcers.
- Explain the deficits of health-system pharmacists in developing 503B facilities and services.
- Describe Joint Commission requirements around performance reviews.

Moderator: Amy Sipe, R.Ph., Clinical Pharmacy Specialist, Kansas City VA Medical Center, Kansas City, MO

Presenter: Kenneth G. Jozefczyk, M.S., R.Ph., FASHP, Director, Centralized Pharmacy Services, BayCare Health System, Tampa, FL

Co-Author: Michael Magee, M.S., R.Ph., FASHP, Vice President and Chief Pharmacy Officer, BayCare Health System, Tampa, FL

2:00 p.m. – 3:15 p.m.

Lagoon L, Level 2

► Beyond Generational Differences: Optimizing Educational Strategies for Today's Learners

Planned in cooperation with ASHP Section of Clinical Specialists and Scientists

ACTIVITY #: 0204-0000-19-304-L04-P

ACTIVITY #: 0204-0000-19-304-L04-T

1.25 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe the characteristics of newer generations of learners in the pharmacy workforce.
- Compare teaching methods to various educational stages of learners.
- Given a scenario, design an approach to deal with a challenging learner.

Program Chair, Moderator: Sarah L. Anderson, Pharm.D., BCACP, BCPS, FCCP, Associate Professor, University of Colorado Skaggs School of Pharmacy and Pharmaceutical Sciences, Aurora, CO

Presenters:

Nancy F. Fjortoft, Ph.D., Dean and Professor, Midwestern University Chicago College of Pharmacy, Downers Grove, IL
Megan E. Thompson, Pharm.D., Director of Experiential Programs, Associate Professor of Clinical Pharmacy, University of Colorado Skaggs School of Pharmacy, Aurora, CO

2:00 p.m. – 3:30 p.m.

Mandalay Bay J, Level 2

► Controversies in Treating Infective Endocarditis (IE) in People Who Inject Drugs

ACTIVITY #: 0204-0000-19-306-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

TARGET AUDIENCE: BCCP, BCPS

*NOTE: This session is part of the **Live Intensive Studies and Clinical Sessions Packages**. All attendees may attend these thought-provoking and highly educational sessions. However, if you are board certified, you must purchase the package(s) for your specialty in order to receive the recertification assessment and claim the recertification credit.*

Learning Objectives:

- Describe the characteristics of infective endocarditis (IE) in people who inject drugs (PWID).
- Evaluate clinical controversies in the management of IE in PWID, ranging from acute management to the use of outpatient parenteral antimicrobial therapy.
- Given a patient case, develop an evidence-based IE regimen that facilitates switching from parenteral to oral antimicrobial therapy.

Program Chair, Moderator: Katie Barber, Pharm.D.,

Assistant Professor, University of Mississippi, Jackson, MS

Presenters:

Katie Barber, Pharm.D., Assistant Professor, University of Mississippi, Jackson, MS

Rachel Kenney, Pharm.D., BCIDP, Pharmacy Specialist, Antimicrobial Stewardship Residency Program Director, PGY2 Infectious Diseases, Henry Ford Hospital, Detroit, MI

For more information, see page 40.

FEATURED PROGRAMMING: PAIN MANAGEMENT

2:00 p.m. – 3:30 p.m.

Mandalay Bay D, Level 2

► Let's Be Blunt: Cannabis Clinical and Legal Conundrums

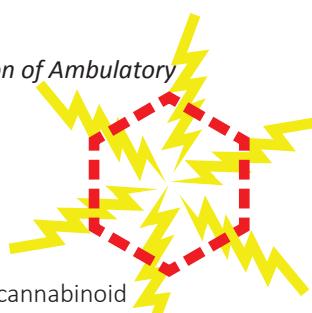
Planned in cooperation with ASHP Section of Ambulatory Care Practitioners

ACTIVITY #: 0204-0000-19-310-L01-P

ACTIVITY #: 0204-0000-19-310-L01-T

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE



Learning Objectives:

- Discuss the pathophysiology of the endocannabinoid system.
- Analyze the pharmacology of phytocannabinoids and non-cannabinoid components of medical marijuana.
- Examine processes for transitions of care for medical cannabis.
- Evaluate clinical and legal issues that impact decisions on individual patient management.

Program Chair, Moderator: Maria Foy, Pharm.D., BCPS, CPE, Pharmacy Care Coordinator, Palliative Care, Abington Hospital Jefferson Health, Elkins Park, PA

Presenter: Christine Roussel, Pharm.D., BCOP, Director of Pharmacy, Doylestown Hospital, Doylestown, PA

2:00 p.m. – 3:30 p.m.

Mandalay Bay L, Level 2

► Developing Resilient Residencies to Support Preceptors and Learners

ACTIVITY #: 0204-0000-19-312-L04-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Identify stressors in residency training.
- Define grit and resilience.
- Compare and contrast methods for instilling a sense of community within your residency program.
- Apply techniques to manage unexpected events that may occur.

Program Chair, Moderator: **Michelle W. McCarthy, Pharm.D., FASHP**, Director, PGY1 Pharmacy Residency Program and Coordinator, Pharmacy Education and Graduate Programs, University of Virginia Health System, Charlottesville, VA

Presenters:

Patrick D. Fuller, Pharm.D., BCPS, FASHP, Pharmacy Staff Development Coordinator, PGY1 Residency Program Director, Nebraska Medicine, Omaha, NE

Michelle W. McCarthy, Pharm.D., FASHP, Director, PGY1 Pharmacy Residency Program and Coordinator, Pharmacy Education and Graduate Programs, University of Virginia Health System, Charlottesville, VA

Rachana J. Patel, Pharm.D., BCACP, BCPS, FASHP, Manager, Clinical Pharmacy Services – Primary Care and PGY2 Ambulatory Care Pharmacy Residency Program Director, Kaiser Permanente Colorado, Aurora, CO

2:00 p.m. – 3:30 p.m.

Breakers C, Level 2

► From Insight to Action: Developing a Data-Driven Culture

ACTIVITY #: 0204-0000-19-314-L04-P

ACTIVITY #: 0204-0000-19-314-L04-T

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

This program is approved for up to 1.50 continuing education (CE) hours for use in fulfilling the continuing education requirements of the Certified Professional in Healthcare Information & Management Systems (CPHIMS) or the Certified Associate in Healthcare Information and Management Systems (CAHIMS).

Learning Objectives:

- Describe the current gap in the implementation of big data within the healthcare space.
- Summarize tactics for pharmacy leadership to improve its use in a data-driven culture to create efficiencies.
- Demonstrate how to leverage present capacities to display an actionable visualization in pharmacy end-users.
- List successful initiatives applying dashboards to drive positive performance.

Program Chair, Moderator: **Thomas S. Achey, Pharm.D., M.S., BCPS**, Assistant Director of Pharmacy, Princeton Baptist Medical Center, Birmingham, AL

Presenters:

Thomas S. Achey, Pharm.D., M.S., BCPS, Assistant Director of Pharmacy, Princeton Baptist Medical Center, Birmingham, AL

Bradley D. Bruce, Pharm.D., Pharmacy Manager, HCA

Healthcare, Nashville, TN

John D. Hill, Pharm.D., M.S., BCPS, Division Director, Central Pharmacy, The Johns Hopkins Hospital, Baltimore, MD

2:00 p.m. – 3:30 p.m.

Oceanside D, Level 2

► Informatics Pearls 2019: Bytes of Informatics

Planned in cooperation with ASHP Section of Pharmacy Informatics and Technology



ACTIVITY #: 0204-0000-19-316-L04-P

ACTIVITY #: 0204-0000-19-316-L04-T

1.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

This program is approved for up to 1.50 continuing education (CE) hours for use in fulfilling the continuing education requirements of the Certified Professional in Healthcare Information & Management Systems (CPHIMS) or the Certified Associate in Healthcare Information and Management Systems (CAHIMS).

Learning Objectives:

- Identify how pharmacy informatics programs can be used in your organization to improve patient care.
- Describe one way an organization has made better use of its clinical information system and how it may be implemented in your organization.
- Compare various pharmacy informatics initiatives and how they improve the medication-use system.

Program Chair, Moderator: **Karl F. Gumper, B.S.Pharm., M.S.M.I., CPHIMS, FASHP**, Pharmacy Informatics Manager, Boston Children's Hospital, Boston, MA

Presentations:

- **Time to Double Down: Leveraging Artificial Intelligence (AI) in a Drug Information Resource for Improved Efficiencies**
Dennis Killian, Pharm.D., Ph.D., Director of Pharmacy, Peninsula Regional Medical Center, Salisbury, MD

- **Using Weight-Based and Age-Based Filtering to Improve Order Sentence Selection for Pediatric Patients**
Calvin C. Daniels, Pharm.D., Ph.D., BCPPS, Clinical Pharmacist, Medication Safety and Informatics, St. Jude Children's Research Hospital, Memphis, TN

- **Big Data: Indispensable for Automated Dispensing Cabinet Inventory Optimization**
Hilary Teaford, Pharm.D., M.H.I., PGY2 Pharmacy Informatics Resident, Mayo Clinic Hospital, Rochester, MN

- **Making Opioid Stewardship Less Painful by Using Health Information Technology**
Joanne Hatfield, Pharm.D., BCPS, Clinical Lead Pharmacist – Pain Management, Truman Medical Center, Kansas City, MO
- **Sources of National Pharmacy and Clinical Informatics Education and Certifications**
Thomas Fagan, B.S.Pharm., M.B.A., Clinical Pharmacist Specialist for Pharmacy Informatics, Department of Veterans Affairs, Richmond, VA

continues >

EDUCATIONAL SESSIONS Wednesday, December 11 CONTINUED

- **"I'm Back!" Transitional Care Pharmacists Role in Decreasing Unplanned 30-Day Readmissions**
Blake W. Baumann, Pharm.D., BCPS, Clinical Lead Pharmacist – Transitional Care, Truman Medical Centers, Prairie Village, KS
- **PUMPing the Brakes on Alert Fatigue**
Rilwan Badamas, Pharm.D., CPHIMS, Section Chief, Pharmacy Informatics, National Institutes of Health, Clinical Center, Bethesda, MD
- **What's in IT for Us? Measuring the Value of a Pharmacy Analytics Team**
Mary-Haston Leary, Pharm.D., M.S., BCPS, Clinical Manager, Analytics, Outcomes, and Impact, UNC Health Care, Chapel Hill, NC
- **Ace Renal Dosing with Innovative CDS at Order Entry**
Emily Gamroth, Pharm.D., PGY2 Pharmacy Informatics Resident, Advocate Aurora Health, Milwaukee, WI
- **What's Your Preference? Optimizing Ambulatory Preference List to Improve Prescribing Safety**
Emmanuel Njigha, Pharm.D., Pharmacy Information Technology Specialist, Houston Methodist Hospital, Houston, TX
- **Pharmacy Analytics for Integrated Specialty Pharmacy Support**
Evan W. Colmenares, Pharm.D., Lead Pharmacist, Analytics & Outcomes, UNC Health Care, Morrisville, NC
- **Incorporation of Morphine Equivalence Tools in an Electronic Health Record**
Michelle A. Park, Pharm.D., BCPS, Pharmacy Applications Analyst, Kaiser Permanente, Downey, CA
- **Leveraging Technology to Streamline the Pharmacist Role in the Discharge Process for High-Risk Patients**
Craig W. Griffis, B.S.Pharm., Director of Pharmacy, Mile Bluff Medical Center, Mauston, WI
- **Automating Clinical Protocols in a Specialty Pharmacy Technology Solution to Improve Patient Care**
Jerry Buller, D.Ph., MMHC, Chief Pharmacy Officer, Trellis RX, Atlanta, GA

FEATURED PROGRAMMING: PAIN MANAGEMENT

2:00 p.m. – 3:30 p.m.

Mandalay Bay B, Level 2

- ▶ **Medication-Assisted Treatment for Opioid Use Disorder (OUD): Solving the Puzzle with Clinical Pharmacist Providers**

ACTIVITY #: 0204-0000-19-317-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED



Learning Objectives:

- Summarize the evidence supporting the advanced practice clinical pharmacist role in opioid use disorder (OUD) treatment.
- Describe the rationale for integrating the advanced practice clinical pharmacist to improve access to care for medication-assisted therapy (MAT) for OUD.
- Evaluate practice models that integrate advanced practice clinical pharmacists as a key team member to deliver care for OUD and risk mitigation.
- Describe strategies to effectively maximize the impact of advanced practice clinical pharmacists as part of multidisciplinary care teams in primary care and specialty care settings.
- Outline strategies to integrate clinical pharmacy services to improve access to care and patient outcomes for MAT in OUD.

Program Chair, Moderator: **Terri Jorgenson, R.Ph., BCPS**, National Program Manager, Clinical Pharmacy Practice, Department of Veterans Affairs, Washington, DC

Presenters:

Tim Brown, Pharm.D., BCACP, FASHP, Director of Interprofessional Education, University of Georgia College of Pharmacy, Athens, GA

Elzie J. Jones, Pharm.D., Clinical Pharmacy Specialist, Primary Care/Pain Management, Minneapolis VA Health Care System, Minneapolis, MN

Erin E. Krebs, M.D., M.P.H., Professor of Medicine, Minneapolis VA Health Care System, Minneapolis, MN

Tera Moore, Pharm.D., BCACP, BCPS, National Clinical Pharmacy Practice Program Manager for Clinical Practice Integration and Model Advancement, Veterans Affairs Central Office, Pharmacy Benefits Management (Clinical Pharmacy Practice), Washington, DC

2:00 p.m. – 4:00 p.m.

Oceanside C, Level 2

- ▶ **Don't Sugar Coat It: Hot Topics in the Management of Type 1 and Type 2 Diabetes Mellitus**

Planned in cooperation with American College of Clinical Pharmacy

ACTIVITY #: 0217-9999-19-164-L01-P

2.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

TARGET AUDIENCE: BCACP

*NOTE: This session is part of the **Live Intensive Studies and Clinical Sessions Packages**. All attendees may attend these thought-provoking and highly educational sessions. However, if you are board certified, you must purchase the package(s) for your specialty in order to receive the recertification assessment and claim the recertification credit.*

Learning Objectives:

- Differentiate between the 2015 and 2018 American Diabetes Association (ADA) and European Association for the Study of Diabetes (EASD) consensus guidelines for treatment strategies.



- Critically evaluate the published literature regarding cardiovascular outcomes of medications for Type 2 diabetes mellitus.
- Critically evaluate the published literature regarding renal outcomes of medications for Type 2 diabetes mellitus.
- Interpret the potential use of non-insulin therapy for Type 1 diabetes mellitus.
- Design a treatment regimen to optimize outcomes for patients with Type 1 or Type 2 diabetes mellitus.

Program Chair, Moderator: **Jennifer N. Clements, Pharm.D., BCACP, BCPS, CDE, FCCP**, Clinical Pharmacist – Diabetes Transition, Spartanburg Regional Healthcare System, Spartanburg, SC

Presenters:

Katie E. Cardone, Pharm.D., BCACP, FASN, FCCP, FNKF, Associate Professor, Albany College of Pharmacy and Health Sciences, Albany, NY

Jennifer N. Clements, Pharm.D., BCACP, BCPS, CDE, FCCP, Clinical Pharmacist – Diabetes Transition, Spartanburg Regional Healthcare System, Spartanburg, SC

Benjamin N. Gross, Pharm.D., M.B.A., ASH-CHC, BCACP, BC-ADM, BCPS, CDE, Associate Professor, Lipscomb University College of Pharmacy and Health Sciences, Nashville, TN

For more information, see page 40.

2:00 p.m. – 4:00 p.m.

Oceanside A, Level 2

► **Let's Ask the Consultants: Joint Commission Medication Management Update 2020 – Strategies for Success**

Planned in cooperation with ASHP Section of Inpatient Care Practitioners

ACTIVITY #: 0204-0000-19-311-L03-P

ACTIVITY #: 0204-0000-19-311-L03-T

2.00 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- List new requirements for medication processes in 2019 and anticipated changes for 2020.
- Describe strategies to comply with the most frequently scored medication-related standards.
- Identify key areas of focus for the survey process with sterile compounding and anticipated survey process changes with the revised USP Chapter <797> and Chapter <800>.
- Discuss best practices for new areas of survey focus for anticoagulation safety.

Program Chair, Moderator: **Jeannell Mansur, Pharm.D., R.Ph., CJCP, FASHP, FSMSO**, Principal Consultant, Medication Management and Safety, Joint Commission Resources/Joint Commission International, Chicago, IL

Presenters:

Don R. Janczak, Pharm.D., M.S., BCPS, CJCP, CPHQ, Medication Management and Safety Consultant, Joint Commission Resources, Oak Brook, IL

Jeannell Mansur, Pharm.D., R.Ph., CJCP, FASHP, FSMSO, Principal Consultant, Medication Management and Safety, Joint Commission Resources/Joint Commission International, Chicago, IL

Susan Reed, R.Ph., Medication Management and Safety Consultant, Joint Commission Resources, Oakbrook, IL

2:45 p.m. – 3:15 p.m.

South Seas D, Level 3

► **(Management Case Study) Justification of Pharmacy Services in a Limb Salvage Clinic**

ACTIVITY #: 0204-0000-19-374-L04-P

0.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Describe opportunities for clinical pharmacy services in high-acuity clinic settings.
- Identify the essential components of the pharmacist patient care process.
- Explain the advantage of integrating pharmacists into the care team.

Moderator: **Ellina Seckel, Pharm.D., BCACP, DPLA**, Associate Chief of Pharmacy, Madison VA, Madison, WI

Presenter: **Molly L. Rockstad, Pharm.D., BCACP, BCPS**, Clinical Pharmacist, Cook County Health, Chicago, IL

3:00 p.m. – 5:00 p.m.

Lagoon F, Level 2

► **Drug Reimbursement 2020: Who Are the Players and What's Involved?**

Planned in cooperation with ASHP Section of Pharmacy Practice Leaders

ACTIVITY #: 0204-0000-19-309-L04-P

ACTIVITY #: 0204-0000-19-309-L04-T

2.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Explain changes to Medicare reimbursement that will become effective in 2020.
- Identify the operational changes that will be required to implement the 2020 Medicare reimbursement policies.
- Develop strategies for ensuring the accuracy and completeness of data submitted for reimbursement and analytics.
- Describe the business model transition from fee-for-service to capitated bundled payments or episode-of-care payments.
- Predict the impact of the 2020 Medicare reimbursement policies on the revenue cycle.

Program Chair, Moderator: **Bonnie Kirschenbaum, M.S., B.S., FASHP, FCSHP**, Consultant and Columnist, Boulder, CO

Presenters:

Girish Dige, Pharm.D., M.S., Director of Pharmacy, Business Services, OhioHealth Corporate Pharmacy Services, Columbus, OH

Bonnie Kirschenbaum, M.S., B.S., FASHP, FCSHP, Consultant and Columnist, Boulder, CO

Beth Roberts, J.D., Partner, Hogan Lovells US LLP, Washington, DC

3:30 p.m. – 4:00 p.m.

South Seas D, Level 3

► (Management Case Study) Testing the Value of Intelligent Analytics for Drug Diversion

ACTIVITY #: 0204-0000-19-375-L04-P

ACTIVITY #: 0204-0000-19-375-L04-T

0.50 CONTACT HOURS | KNOWLEDGE-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Discuss obstacles faced when building a comprehensive controlled substances compliance and surveillance program at a health system level.
- List the current obstacles faced when using reporting from one data source to determine drug diversion.
- Explain the benefits and disadvantages of using machine learning-based software in a health care system.

Moderator: Deborah Sadowski, M.H.A., B.S., R.Ph., Director of Pharmacy Services, Deborah Heart and Lung Center, Browns Mills, NJ

Presenter: Sheetal Patel-House, Pharm.D., M.S., System Clinical Manager – Controlled Substances Assessment Program, UNC Healthcare, Chapel Hill, NC

Co-Author: Ashley L. Pappas, Pharm.D., M.H.A., Director of Pharmacy, Medication Use Policy and Analytics, UNC Hospitals, Chapel Hill, NC

3:45 p.m. – 5:00 p.m.

Lagoon L, Level 2

► How to Maintain Effective Preceptor-Preceptee and Mentor-Mentee Relationships

ACTIVITY #: 0204-0000-19-305-L04-P

1.25 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Compare and contrast preceptorship and mentorship.
- Develop an action plan for implementing the qualities to become an effective preceptor or mentor.
- Demonstrate the ideal qualities of an engaged preceptee or mentee.

Program Chair, Moderator: Melinda (Mindy) J. Burnworth, Pharm.D., BCPS, FASHP, FAzPA, Professor of Pharmacy Practice, Midwestern University College of Pharmacy-Glendale, Glendale, AZ

Presenters:

Melinda (Mindy) J. Burnworth, Pharm.D., BCPS, FASHP, FAzPA, Professor of Pharmacy Practice, Midwestern University College of Pharmacy-Glendale, Glendale, AZ
Diane B. Ginsburg, Ph.D., M.S., R.Ph., FASHP, Associate Dean for Healthcare Partnerships, Clinical Professor, The University of Texas at Austin, Austin, TX

Vanthida Huang, Pharm.D., BSPHM, FCCP, Associate Professor, Midwestern University College of Pharmacy-Glendale, Glendale, AZ



CE POWER HOUR

It's amazing what you can learn in a short period of time. Don't miss out on the final hour of programming. Rev up your learning with these Power Hour choices.

4:00 p.m. – 5:00 p.m.

South Seas F, Level 3

► Goldilocks and Gram-Negative Resistance: Getting Stewardship Just Right

ACTIVITY #: 0204-0000-19-307-L01-P

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

Learning Objectives:

- Evaluate patient cases to determine risk factors for multi-drug-resistant gram negative (MDR GNR) pathogens.
- Apply patient-specific data to develop an appropriate empiric treatment regimen for an MDR GNR infection.
- Recommend new antibiotics for definitive treatment of MDR GNR infections.

Program Chair, Moderator: Brandon J. Smith, Pharm.D., M.D., Infectious Diseases Fellow, University of Pittsburgh Medical Center, Pittsburgh, PA

Presenters:

Erin K. McCreary, Pharm.D., BCIDP, BCPS, Infectious Diseases/Antimicrobial Stewardship Clinical Pharmacist, University of Pittsburgh Medical Center, Pittsburgh, PA
Brandon J. Smith, Pharm.D., M.D., Infectious Diseases Fellow, University of Pittsburgh Medical Center, Pittsburgh, PA

4:00 p.m. – 5:00 p.m.

Mandalay Bay D, Level 2

► Up in Smoke: The Facts and Fiction Surrounding Vaping

Planned in cooperation with ASHP Section of Ambulatory Care Practitioners and ASHP Section of Clinical Specialists and Scientists

ACTIVITY #: 0204-0000-19-313-L04-P

ACTIVITY #: 0204-0000-19-313-L04-T

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Discuss the history and marketing trends of electronic nicotine delivery systems (ENDS).
- Given a scenario, evaluate the health risks associated with vaping.
- Develop communication techniques that address the difficult encounters surrounding ENDS and vaping.

Program Chair, Moderator: Michelle L. Hilaire, Pharm.D., BCACP, BCPS, CDE, FCCP, Clinical Professor, University of Wyoming, Laramie, WY

Presenters:

Miranda R. Andrus, Pharm.D., BCPS, Clinical Professor, Auburn University Harrison School of Pharmacy, Huntsville, AL

Amy L. Stump, Pharm.D., BCPS, FASHP, Clinical Pharmacist, Associates in Family Medicine, PC, Fort Collins, CO

4:00 p.m. – 5:00 p.m.

Breakers C, Level 2

● Management of Anticoagulation in the Peri-Procedural Period (MAPPP) via App as Active Clinical Decision Support

ACTIVITY #: 0204-0000-19-315-L04-P

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE



This program is approved for up to 1.00 continuing education (CE) hours for use in fulfilling the continuing education requirements of the Certified Professional in Healthcare Information & Management Systems (CPHIMS) or the Certified Associate in Healthcare Information and Management Systems (CAHIMS).

Learning Objectives:

- Describe the importance of using protocol-based anticoagulation management during the periprocedural period.
- Given a case study, apply the MAPPP app to determine the anticoagulant interruption recommendation.
- Develop a strategy for implementation of MAPPP app into your institution's electronic health record.

Program Chair, Moderator: Anne Myrka, B.S.Pharm., MAT, Senior Director, IPRO, Albany, NY

Presenters:

Anne Myrka, B.S.Pharm., MAT, Senior Director, IPRO, Albany, NY

Kelly Rudd, Pharm.D., Director of Network Pharmacy Services, Bassett Healthcare Network, Cooperstown, NY

4:00 p.m. – 5:00 p.m.

Mandalay Bay B, Level 2

● Here's the DIRT (Drug Investigation Response Team): Improving Diversion Detection Strategies

ACTIVITY #: 0204-0000-19-318-L04-P

ACTIVITY #: 0204-0000-19-318-L04-T

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Describe the impact of the opioid epidemic.
- Discuss challenges the opioid epidemic presents for diversion prevention in the hospital setting.
- Develop a diversion investigation response team implementation strategy including roles, responsibilities, and processes.

Program Chair: Erin K. Santiago, Pharm.D., R.Ph., Director of Pharmacy, CHI Health Creighton University Medical Center – Bergan Mercy, Omaha, NE

Moderator: Megan Dethlefsen, Pharm.D., Clinical Coordinator for Pharmacy Services, CHI Health, Omaha, NE

Presenters:

Erin K. Santiago, Pharm.D., R.Ph., Director of Pharmacy, CHI Health Creighton University Medical Center – Bergan Mercy, Omaha, NE

Joni Street, R.Ph., BCPS, Pharmacy Supervisor, Diversion Officer, CHI Health Creighton University Medical Center – Bergan Mercy, Omaha, NE

● **THURSDAY, DECEMBER 12**

FREE REGISTRATION!

Stay through the end of the Thursday sessions for a chance to win a free registration to the 2020 Midyear Clinical Meeting in New Orleans. Just drop your badge in the designated locations on Thursday afternoon. One lucky winner will be randomly selected.

9:00 a.m. – 10:30 a.m.

Lagoon L, Level 2

► Make Sure the Genes Fit: Pharmacogenomics Simplified

ACTIVITY #: 0204-0000-19-319-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Summarize basic pharmacogenomic concepts related to individualized pharmacotherapy.
- Given case studies, evaluate the potential clinical impact of pharmacogenomics information.
- Given case studies, interpret the implication of pharmacogenomic findings.

Program Chair, Moderator: Jacqueline L. Olin, Pharm.D., M.S., BCPS, CDE, FASHP, FCCP, Professor of Pharmacy, Wingate University School of Pharmacy, Wingate, NC

Presenters:

Cyrine E. Haidar, Pharm.D., BCOP, BCPS, Clinical Pharmacogenetics Coordinator, St. Jude Children's Research Hospital, Memphis, TN

Jennifer K. Hockings, Pharm.D., Ph.D., BCPS, Pharmacogenomics Clinical Specialist, Cleveland Clinic, Cleveland, OH

9:00 a.m. – 10:30 a.m.

Mandalay Bay L, Level 2

► Stewardship Stew: More Than Just Antibiotic Gumbo

ACTIVITY #: 0204-0000-19-321-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Given a case, design an antimicrobial stewardship program that improves patient care and satisfies regulatory requirements.
- Given a case, apply the principle of antimicrobial stewardship to create an opioid stewardship program.
- Develop outlines for clinical and operational programs using the framework of the stewardship concept.

Program Chair, Moderator: Davey Legendre, Pharm.D., M.B.A., BCPS-AQ ID, Regional Vice President – Clinical Infectious Diseases, Comprehensive Pharmacy Services, Woodstock, GA

Presenters:

Jaculin L. Cole, Pharm.D., Regional Vice President, Clinical, Comprehensive Pharmacy Services, Memphis, TN

Rabiah Dys, Pharm.D., B.S., Division Vice President, Clinical Program Development, Comprehensive Pharmacy Services, Memphis, TN



9:00 a.m. – 12:00 p.m.

Breakers C, Level 2

► **Creating and Sharing Stories to Inspire Change**

ACTIVITY #: 0204-0000-19-320-L04-P

ACTIVITY #: 0204-0000-320-19-L04-T

3.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Identify common mentalities of people as they face change.
- Analyze the arc of any good story as it relates to creating change for pharmacists.
- Evaluate the role of listening as it relates to helping pharmacists tell their stories as part of any change.

Presenter: Leslie A. Riley, Owner, Director, Full Circle Inspiration, Henderson, NV

10:45 a.m. – 11:45 a.m.

Mandalay Bay J, Level 2

► **Updates in the Use of Direct Oral Anticoagulants (DOACs) in Special Populations**

ACTIVITY #: 0204-0000-19-322-L01-P

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

Learning Objectives:

- Evaluate recent literature and guideline statements related to direct oral anticoagulant (DOAC) use in patients with heparin-induced thrombocytopenia.
- Recommend a therapeutic plan for anticoagulation in patients with obesity or acute renal failure based on current literature and available monitoring.
- Apply laboratory monitoring specific to DOACs into the overall assessment of special populations to implement or change therapeutic regimens.

Program Chair, Moderator: Kenneth Lopi, Pharm.D., BCPS, Clinical Pharmacy Specialist, Brigham and Women's Hospital, Boston, MA

Presenters:

William Dager, Pharm.D., BCPS, FASHP, FCCM, FCCP, MCCC, Pharmacist Specialist, University of California, Davis Medical Center, Sacramento, CA
 Katelyn W. Sylvester, Pharm.D., BCPS, CACP, Pharmacy Manager, Brigham and Women's Hospital, Boston, MA

10:45 a.m. – 11:45 a.m.

Mandalay Bay D, Level 2

► **Updates in the Management of Sepsis and Septic Shock**

Planned in cooperation with ASHP Section of Clinical Specialists and Scientists

ACTIVITY #: 0204-0000-19-324-L01-P

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Given a case study, analyze principles of initial resuscitation, including fluid status assessment, fluid selection, and vaso-pressor administration.
- Given a case study, evaluate the role of adjunctive supportive therapies in sepsis and septic shock, including corticosteroids, vitamin C, and angiotensin II.
- Given a patient case, develop a patient-specific pharmacotherapy regimen for the early management of septic shock.

Program Chair, Moderator: Jeremy DeGrado, Pharm.D., BCCCP, BCPS, Clinical Pharmacy Specialist, Critical Care, Brigham and Women's Hospital, Boston, MA

Presenters:

Jeremy DeGrado, Pharm.D., BCCCP, BCPS, Clinical Pharmacy Specialist, Critical Care, Brigham and Women's Hospital, Boston, MA

Heather Torbic, Pharm.D., BCCCP, BCPS, Medical ICU Clinical Pharmacy Specialist, Cleveland Clinic, Cleveland, OH

12:00 p.m. – 1:30 p.m.

Lagoon L, Level 2

► **The Inpatient with Reported Penicillin Allergy: Alternative Management Approaches**

ACTIVITY #: 0204-0000-19-323-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Describe the effect of self-reported penicillin allergy on patient management.
- Given the relative risk of beta-lactam cross-reaction in patients with reported penicillin allergy, apply a strategy for risk-stratification.
- Describe optimal antimicrobial regimen for a patient with penicillin allergy to include appropriate monitoring based on allergy risk-factor assessment.
- Evaluate when penicillin skin testing is an appropriate strategy for patients at high risk of allergic cross-reaction who would benefit from beta-lactam antimicrobials.
- Demonstrate how to conduct a comprehensive allergy history.
- List the steps for administering and interpreting penicillin skin testing results.

Program Chair, Moderator: Serena A. Von Ruden, Pharm.D., B.S.N., R.N., BCPS, Clinical Pharmacist Specialist, Internal Medicine, CHI Franciscan St. Francis Hospital, Federal Way, WA

Presenters:

Jeff Brock, Pharm.D., M.B.A., BCPS-AQ ID, Infectious Diseases Pharmacy Specialist, MercyOne, Des Moines, IA
 Serena A. Von Ruden, Pharm.D., B.S.N., R.N., BCPS, Clinical Pharmacist Specialist, Internal Medicine, CHI Franciscan St. Francis Hospital, Federal Way, WA

12:00 p.m. – 1:30 p.m.

Mandalay Bay L, Level 2

► **Digging Through the Updates for Acute Ischemic Stroke: Clear as Mud?**

Planned in cooperation with ASHP Section of Clinical Specialists and Scientists

ACTIVITY #: 0204-0000-19-325-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: INTERMEDIATE

Learning Objectives:

- Evaluate the updated ischemic stroke guidelines related to acute management.
- Apply the clinical evidence available for the use of alteplase vs. tenecteplase in acute ischemic stroke.
- Discuss the risks vs. benefits for the use of certain anticoagulant and antiplatelet agents for ischemic stroke.
- Evaluate different pharmacological strategies to enhance recovery in post-ischemic stroke patients.

Program Chair, Moderator: Megan E. Musselman, Pharm.D., M.S., BCCCP, BCPS, Clinical Pharmacy Specialist, Emergency Medicine/Critical Care, North Kansas City Hospital, North Kansas City, MO

Presenters:

Katleen W. Chester, Pharm.D., BCCCP, BCGP, Clinical Pharmacist Specialist, Grady Memorial Hospital, Atlanta, GA

Mark Crist, Pharm.D., BCPS, Clinical Pharmacist, The Ohio State University Wexner Medical Center, Columbus, OH

G. Morgan Jones, Pharm.D., BCCCP, FCCM, Clinical Pharmacy Specialist – Neurocritical Care, Methodist University Hospital, Germantown, TN

1:00 p.m. – 3:00 p.m.

Breakers C, Level 2

► **How to Do Vulnerability in the Workplace (And It's Not How You Think)**

ACTIVITY #: 0204-0000-19-328-L04-P

ACTIVITY #: 0204-0000-19-328-L04-T

2.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: GENERAL INTEREST

Learning Objectives:

- Explain how pharmacists can effectively use vulnerability in the workplace.
- Illustrate real-life examples of workplace vulnerability in action.
- Discuss how to introduce workplace vulnerabilities in your own organizations.
- Using investigative and tangible daily tools and practices, create a workplace culture conducive to fostering vulnerability.

Presenter: Leslie A. Riley, Owner, Director, Full Circle Inspiration, Henderson, NV

1:30 p.m. – 3:00 p.m.

Mandalay Bay D, Level 2

► **Drug Dosing in Morbid Obesity: One Size Does Not Fit All**

ACTIVITY #: 0204-0000-19-327-L01-P

1.50 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

Learning Objectives:

- Describe the pharmacokinetic variability that exists with medication dosing in morbidly obese patients.
- Recommend a medication dose for a patient who is morbidly obese using an evidence-based approach.
- Develop an approach for crafting a medication dose for a medication where no data is available.

Program Chair, Moderator: Jeffrey F. Barletta, Pharm.D., B.S., FCCM, Professor and Vice Chair of Pharmacy Practice, Midwestern University, College of Pharmacy-Glendale, Glendale, AZ

Presenters: Jeffrey F. Barletta, Pharm.D., B.S., FCCM, Professor and Vice Chair of Pharmacy Practice, Midwestern University, College of Pharmacy-Glendale, Glendale, AZ

Brian L. Erstad, Pharm.D., BCPS, FASHP, FCCP, MCCC, Professor and Head, Pharmacy Practice and Science, The University of Arizona College of Pharmacy, Tucson, AZ

2:00 p.m. – 3:00 p.m.

Lagoon L, Level 2

► **Evaluate, Expand, Evolve: Advancing Antimicrobial Stewardship Practices Across Multiple Practice Settings**

Planned in cooperation with ASHP Section of Clinical Specialists and Scientists

ACTIVITY #: 0204-0000-19-326-L04-P

1.00 CONTACT HOURS | APPLICATION-BASED

EDUCATIONAL LEVEL: ADVANCED

Learning Objectives:

- Discuss strategies used to target syndrome-specific, high-impact infectious disease states.
- Describe the importance of implementing outpatient antimicrobial stewardship efforts in reducing antibiotic use and resistance.
- Analyze initiatives to implement outpatient antimicrobial stewardship programs in primary care, emergency department, and urgent care settings.

Program Chair, Moderator: Curtis D. Collins, Pharm.D., M.S., BCIDP, FASHP, Pharmacy Specialist, Infectious Diseases, St. Joseph Mercy Health System, Ypsilanti, MI

Presenters:

Curtis D. Collins, Pharm.D., M.S., BCIDP, FASHP, Pharmacy Specialist, Infectious Diseases, St. Joseph Mercy Health System, Ypsilanti, MI

Lisa Dumkow, Pharm.D., BCIDP, Clinical Pharmacist, Antimicrobial Stewardship, Mercy Health Saint Mary's, Grand Rapids, MI

INDUSTRY-SUPPORTED SYMPOSIA

Symposia are commercially supported continuing education programs held before and after official ASHP programming at official meeting hotels and/or the convention center.

These activities are not ASHP-planned educational programs and not part of the official ASHP Midyear Clinical Meeting programming. Direct all inquiries to the contact listed.

Preregistration is for planning purposes only and does not guarantee a seat. Seating is limited and provided on a first-come, first-served basis. Early arrival is recommended.

This listing is current as of **September 23, 2019**. The most current listing can be found on the ASHP LIVE! app, in the meeting registration bags, or on the meeting website at midyear.ashp.org.

SATELLITE SYMPOSIA

● SUNDAY, DECEMBER 8

2:00 p.m. – 5:00 p.m.

Mandalay Bay

North Convention Center

► Taking Action to Improve IV Safety in Health Systems

Supported by an educational grant from Baxter Healthcare Corporation. Contact ASHP Advantage at [elarning@ashp.org](mailto:elearning@ashp.org). **CE Provider:** American Society of Health-System Pharmacists

For more information visit, www.ashpadvantage.com/improveivsafety

3:30 p.m. – 5:00 p.m.

Mandalay Bay

North Convention Center

► Tracking Ambulatory and Specialty Trends: Staying Ahead of the Curve

Supported by AmerisourceBergen. Contact Jennifer Phillips, AmerisourceBergen at jennifer.phillips@amerisourcebergen.com. **CE Provider:** ACPE-certified Session

4:00 p.m. – 5:00 p.m.

Mandalay Bay

North Convention Center

► The Immuno-Oncology Revolution: A Guide for Health-System Pharmacists in Renal Cell Carcinoma

Supported by Merck, Eisai Inc. Contact Allison Lejeune, Impact Education, LLC. at allison.lejeune@impactedu.net. **CE Provider:** Postgraduate Institute for Medicine

● MONDAY, DECEMBER 9

6:00 a.m. – 8:00 a.m.

Mandalay Bay

North Convention Center

► Examining Sterile Compounding for Health-Systems: A Look Ahead to 2020 (Live Webinar)

Supported by PharMEDIUM Services, LLC. Contact Gail Townley, ProCE, Inc. at gtownley@proce.com.

CE Provider: ProCE, Inc.

6:30 a.m. – 8:30 a.m.

Four Seasons

► Empowering Antibiotic Stewardship Insight with the use of Rapid Sensitive and Highly Specific Biomarkers

Supported by bioMérieux. Contact Virginia (Ginger) G. Scott, West Virginia University School of Pharmacy at vscott@hsc.wvu.edu. **CE Provider:** West Virginia University School of Pharmacy

7:00 a.m. – 8:30 a.m.

Mandalay Bay

North Convention Center

► The Growing Need for Pharmacy Reimbursement Services in Health Systems

Supported by AmerisourceBergen. Contact Jennifer Phillips, AmerisourceBergen at jennifer.phillips@amerisourcebergen.com. **CE Provider:** ACPE-certified CE Session

5:30 p.m. – 7:00 p.m.

Mandalay Bay

North Convention Center

► Scientific Updates on Antiplatelet Therapies for the Management of Patients with Acute Coronary Syndrome

Supported by Chiesi USA. Contact Nicole Brestowski, Academic CME at nbrestowski@academiccme.com.

CE Provider: AcademicCME

● TUESDAY, DECEMBER 10

5:45 a.m. – 7:45 a.m.

Mandalay Bay

North Convention Center

► Oral Anticoagulant Reversal Agents: Deconstructing the Clinical Data (Live Webinar)

Supported by Portola Pharmaceuticals. Contact Gail Townley, ProCE, Inc. at gtownley@proce.com. **CE Provider:** ProCE, Inc.

5:30 p.m. – 7:30 p.m.

Mandalay Bay

North Convention Center

► Optimizing Cardiovascular Outcomes in Type 2 Diabetes: Beyond A1C Goals

Supported by Boehringer Ingelheim Pharmaceuticals, Inc., Lilly USA, LLC, and Novo Nordisk. Contact Margie Stefan, NACCME at mstefan@naccme.com. **CE Provider:** NACCME

MIDDAY SYMPOSIA

NOTE: The Mandalay Bay Convention Center includes the South Convention Center, the North Convention Center, and the Events Center. All midday symposia will take place in the North Convention Center, unless otherwise noted.

Symposia are commercially supported continuing education programs held before and after official ASHP programming at official meeting hotels and the convention center.

These activities are not ASHP-planned educational programs and not part of the official ASHP Midyear Clinical Meeting programming. Direct all inquiries to the contact listed.

Preregistration is for planning purposes only and does not guarantee a seat. Seating is limited and provided on a first-come, first-served basis. Early arrival is recommended.

This listing is current as of **September 23, 2019**. The most current listing can be found on the ASHP LIVE! app, in the meeting registration bags, or on the meeting website at midyear.ashp.org.

Food and beverage (i.e., boxed lunches) are not provided at Midday Symposia. This ASHP policy was established in consideration of commercial supporters that have opted to exclude food at all continuing education activities for health-care providers for which grant support has been provided based on their policies related to the Physician Payments Sunshine Act. Midday Symposia end by 1:00 p.m. to allow attendees to eat lunch after the symposia. Attendees may also bring their lunch to these sessions.

MONDAY, DECEMBER 9

11:30 a.m. - 1:00 p.m. **South Pacific B, Lower Level, North Convention Center**

► Insights and Developments in HIV Treatment Strategies (Live Webinar)

Supported by Merck and ViiV Healthcare. Contact Gail Townley, ProCE, Inc. at gtownley@proce.com.

CE Provider: ProCE, Inc.

11:30 a.m. - 1:00 p.m. **South Pacific D, Lower Level, North Convention Center**

► Exploring Emerging Strategies in the Management of Anemia in Chronic Kidney Disease

Supported by AstraZeneca. Contact Krystal Scharon, PeerView Institute for Medical Education at krystal.scharon@peerview.com. **CE Provider:** Medical Learning Institute, Inc.

11:30 a.m. - 1:00 p.m. **South Pacific H, Lower Level, North Convention Center**

► Exploring Biomarkers and Evolving Testing Strategies in NSCLC: A Case-Based Perspective to Precision Therapy

Supported by AstraZeneca. Contact Jessica Hall, Creative Educational Concepts at jhall@ceconcepts.com.

CE Provider: Creative Educational Concepts

11:30 a.m. - 1:00 p.m. **South Pacific J, Lower Level, North Convention Center**

► Identifying Patients at High Risk for Influenza-Related Complications and Treating with Antiviral Therapy: The Role of the Pharmacist

Supported by Genentech. Contact Crissy Wilson, Pharmacy Times Continuing Education at ngrassano@pharmacytimes.com. **CE Provider:** Pharmacy Times Continuing Education

11:30 a.m. - 1:00 p.m. **Islander Ballroom F, Lower Level, North Convention Center**

► Taking USP Chapter <800> to the Next Level with Surface Monitoring (Live Webinar)

Supported by an educational grant from BD. Contact ASHP Advantage at elearning@ashp.org. **CE Provider:** American Society of Health-System Pharmacists

For more information, visit www.ashpadvantage.com/monitoring.

11:30 a.m. - 1:00 p.m. **Islander Ballroom H, Lower Level, North Convention Center**

► Interprofessional Approaches to Heart Failure Care (Live Webinar)

Supported by an educational grant from Novartis Pharmaceuticals Corporation. Contact ASHP Advantage at elearning@ashp.org. **CE Provider:** American Society of Health-System Pharmacists

For more information, visit www.ashpadvantage.com/hfcare.

11:30 a.m. - 1:00 p.m. **Islander Ballroom I, Lower Level, North Convention Center**

► Strategies for Prevention and Treatment of Recurrent *C. difficile* Infection (Live Webinar)

Supported by a grant from Merck. Contact ASHP Advantage at elearning@ashp.org. **CE Provider:** American Society of Health-System Pharmacists

For more information, visit www.ashpadvantage.com/preventcdiff.

TUESDAY, DECEMBER 10

11:30 a.m. - 1:00 p.m. **South Pacific B, Lower Level, North Convention Center**

► The Expanding Treatment Landscape of Relapsed or Refractory B-Cell Non-Hodgkin's Lymphoma

Supported by Pharmacyclics LLC., an AbbVie Company and Janssen Biotech, Inc. Contact Crissy Wilson, Pharmacy Times Continuing Education at cwilson@pharmacytimes.com. **CE Provider:** Pharmacy Times Continuing Education

INDUSTRY-SUPPORTED SYMPOSIA CONTINUED

11:30 a.m. - 1:00 p.m. South Pacific D, Lower Level, North Convention Center

► Integrating Tools and Resources to Optimally Manage DOAC-Associated Bleeding Events

Supported by Portola Pharmaceuticals. Contact Sarah Breen, Pharmacy Times Continuing Education at sbreen@pharmacytimes.com. **CE Provider:** Pharmacy Times Continuing Education

11:30 a.m. - 1:00 p.m. South Pacific H, Lower Level, North Convention Center

► Seeing Red: Managing Multidrug Resistant Gram-Negative Infections (Live Webinar)

Supported by Merck. Contact Gail Townley, ProCE, Inc. at gtownley@proce.com. **CE Provider:** ProCE, Inc.

11:30 a.m. - 1:00 p.m. South Pacific J, Lower Level, North Convention Center

► Betting on BTK Inhibitors in CLL: Where are We Now and Where are We Going?

Supported by AstraZeneca. Contact Jessica Hall, Creative Educational Concepts at jhall@ceconcepts.com. **CE Provider:** Creative Educational Concepts

11:30 a.m. - 1:00 p.m. Islander Ballroom F, Lower Level, North Convention Center

► Addressing Barriers to Biosimilar Integration in Cancer Care (Live Webinar)

Supported by educational grants from Amgen, Coherus BioSciences, Pfizer, and Sandoz Inc., a Novartis Division. Contact ASHP Advantage at elearning@ashp.org.

CE Provider: American Society of Health-System Pharmacists

For more information, visit www.ashpadvantage.com/biosimilarsinoncology

11:30 a.m. - 1:00 p.m. Islander Ballroom G, Lower Level, North Convention Center

► Justifying Your Return on Investment with Integrated Medication Use Technology

Supported by Omnicell. Contact Rachel Cohen, ISMP at rcohen@ismp.org. **CE Provider:** ProCE

11:30 a.m. - 1:00 p.m. Islander Ballroom H, Lower Level, North Convention Center

► Prevention and Treatment of Recurrent *Clostridioides difficile* Infection: A Call to Action (Live Webinar)

Supported by an educational grant from Ferring Pharmaceuticals Inc. Contact ASHP Advantage at elarning@ashp.org. **CE Provider:** American Society of Health-System Pharmacists

For more information, visit www.ashpadvantage.com/stopcdiff.

11:30 a.m. - 1:00 p.m. Islander Ballroom I, Lower Level, North Convention Center

► Practice Essentials for Using Immune Checkpoint Inhibitors to Treat Lung Cancer and Melanoma (Live Webinar)

Supported by independent educational grants from Bristol-Myers Squibb and Merck. Contact ASHP Advantage at elarning@ashp.org. **CE Provider:** American Society of Health-System Pharmacists

For more information, visit www.ashpadvantage.com/immunotherapy

● WEDNESDAY, DECEMBER 11

11:30 a.m. - 1:00 p.m. South Pacific B, Lower Level, North Convention Center

► Navigating the Evolving Treatment Strategies for Prostate Cancer

Supported by Bayer HealthCare Pharmaceuticals Inc. Contact Olivia Mastrodonato, Pharmacy Times Continuing Education at omastrodonato@pharmacytimes.com. **CE Provider:** Pharmacy Times Continuing Education

11:30 a.m. - 1:00 p.m. South Pacific D, Lower Level, North Convention Center

► Triple-Negative Breast Cancer: Focus on Novel Immunotherapy Combinations and Implications for Pharmacists

Supported by Merck & Co. Contact Susan Grady, Postgraduate Healthcare Education LLC at sgrady@postgradhealthed.com.

CE Provider: Postgraduate Healthcare Education

11:30 a.m. - 1:00 p.m. South Pacific H, Lower Level, North Convention Center

► Pharmacist-Centric Strategies for Improving Hyperkalemia-Related Patient Outcomes

Supported by AstraZeneca. Contact Victoria Brown-Griffin, Medscape at vbrowngriffin@webmd.net. **CE Provider:** Medscape

11:30 a.m. - 1:00 p.m. Islander Ballroom I, Lower Level, North Convention Center

► An Interprofessional Approach to Improving Medication Administration for Optimal Vessel Health and Preservation (Live Webinar)

Supported by BD. Contact ASHP Advantage at elarning@ashp.org. **CE Provider:** American Society of Health-System Pharmacists

PROMOTIONAL THEATERS

NOTE: The Mandalay Bay Convention Center includes the South Convention Center, the North Convention Center, and the Events Center. **All ASHP sessions, events, and exhibits will take place in the South Convention Center, unless otherwise noted.** To view a map of the convention center, see page 11.

The following Promotional Theater listing is provided to you by ASHP as a courtesy; these are commercially supported programs held in conjunction with the 2019 ASHP Midyear Clinical Meeting and Exhibition and are not part of the official ASHP Midyear meeting programming. Any questions related to these programs should be directed to the company or individual listed. Any preregistration taken for these programs is for planning purposes only and does not guarantee a seat. Seating is limited and provided on a first-come, first-served basis. Early arrival is recommended.

This listing is current as of **September 23, 2019**. The most current listing can be found on the ASHP LIVE! App, the meeting registration bags, or on the meeting website at midyear.ashp.org.

● SUNDAY, DECEMBER 8

9:00 a.m. - 10:00 a.m. **South Pacific B, Lower Level**

► **Influenza in Adults 50+: Its Impact and Strategies for Prevention**

Sponsored by Sanofi Pasteur. Contact Kelly Roskowski, Razorfish Health at kelly.roskowski@razorfishhealth.com

9:00 a.m. - 10:00 a.m. **South Pacific D, Lower Level**

► **Role of Peak Inspiratory Flow and Inhaler Selection in Chronic Obstructive Pulmonary Disease**

Sponsored by Boehringer Ingelheim Pharmaceuticals. Contact Janet Brook, One10 Marketing at janet.brook@one10marketing.com

12:00 p.m. - 1:00 p.m. **South Pacific B, Lower Level**

► **Novartis Promotional Theater**

Sponsored by Novartis Pharmaceuticals Corporation. Contact Marianne Santorelli, Novartis Pharmaceuticals Corporation at marianne.santorelli@novartis.com

● MONDAY, DECEMBER 9

11:30 a.m. - 12:30 p.m. **Exhibit Hall, Bayside C, Level 1**

► **UDENYCA® (pegfilgrastim-cbqv), a Pegfilgrastim Biosimilar**

Sponsored by Coherus BioSciences. Contact Renelle Kelmar, Coherus BioSciences at rkelmar@coherus.com

1:30 p.m. - 2:30 p.m. **Exhibit Hall, Bayside C, Level 1**

► **Alkermes Product Theater**

Sponsored by Alkermes. Contact Karen Holmes, Alkermes at karen.holmes@alkermes.com

● TUESDAY, DECEMBER 10

11:30 a.m. - 12:30 p.m. **Exhibit Hall, Bayside C, Level 1**

► **Treatment for Patients with Acute Coronary Syndrome or Prior Myocardial Infarction**

Sponsored by AstraZeneca. Contact Raweesh Chaudhary, AstraZeneca at raweesh.chaudhary@astrazeneca.com

1:30 p.m. - 2:30 p.m. **Exhibit Hall, Bayside C, Level 1**

► **Keep the Body in Mind: Looking at the Pathophysiology and Potential Comorbidities in Adults Living with Schizophrenia and Bipolar Disorder**

Sponsored by Alkermes. Contact Karen Holmes, Alkermes at karen.holmes@alkermes.com

● WEDNESDAY, DECEMBER 11

11:15 a.m. - 12:15 p.m. **Exhibit Hall, Bayside C, Level 1**

► **Prevention of Seasonal Influenza: Making the Case for Cell-Based Vaccines**

Sponsored by Seqirus USA, Inc. Contact Alexandra Rayser, HealthCare Alliance Group, LLC at arayser@hcagroup.com

12:45 p.m. - 1:45 p.m. **Exhibit Hall, Bayside C, Level 1**

► **A Novel Approach to Assessing Findings from a Clinical Trial: Clinically Relevant Improvements in Knee Osteoarthritis Pain with Diclofenac Sodium Gel 1%**

Sponsored by GlaxoSmithKline Consumer HealthCare. Contact Beth Gates, VMLY&R at beth.gates@vmlyr.com



POSTER PRESENTATIONS

NOTE: The Mandalay Bay Convention Center includes the South Convention Center, the North Convention Center, and the Events Center. **All ASHP sessions, events, and exhibits will take place in the South Convention Center, unless otherwise noted.** To view a map of the convention center, see page 11.

Gain insight into successful programs from health systems in the United States and around the world!

Bayside A, Level 1

Federal Forum: Meet the Researchers Poster Presentations 2019

Participants may earn up to one hour of CE credit. For more information, see page 73.

Sunday, December 8 3:30 p.m. – 5:00 p.m.

Professional Posters*

Monday, December 9 2:00 p.m. – 3:30 p.m.

Tuesday, December 10 2:00 p.m. – 3:30 p.m.

Student Posters

Monday, December 9 10:45 a.m. – 11:45 a.m.
12:00 p.m. – 1:00 p.m.
4:15 p.m. – 5:15 p.m.

Tuesday, December 10 10:45 a.m. – 11:45 a.m.
12:00 p.m. – 1:00 p.m.

Resident Posters

Wednesday, December 11 8:30 a.m. – 9:30 a.m.
11:00 a.m. – 12:00 p.m.
12:30 p.m. – 1:30 p.m.
2:00 p.m. – 3:00 p.m.
3:15 p.m. – 4:15 p.m.

*Fellows will present on Tuesday in the Professional Poster session.

Federal Posters

● SUNDAY, DECEMBER 8

Categories: Administrative Practice/Management/Financial Management/Human Resources, Ambulatory Care, Cardiology/Anticoagulation, Clinical Services Management, Critical Care, Drug Information/Drug Use Evaluation, Infectious Disease/HIV, Informatics/Technology/Automation, Investigational Drugs, Oncology/Hematology, Pain Management/Palliative Care, Precepting/Preceptor Skills/Education and Training, Psychiatry/Neurology, Safety/Quality, Small and/or Rural Practice, Women's Health

► Administrative Practice/Management/Financial Management/Human Resources

1-001 **Assessing nursing competency on United States Pharmacopeia (USP) <800> recommendations for the safe handling of hazardous drugs (HD),** Amy E. Doten, Sarah Ferrell, Spencer Kurtz

► Ambulatory Care

1-002 **Safety and efficacy of direct oral anticoagulants (DOACs) at GLWACH,** Maysoon Ababneh, Thamer Khasawneh

1-003 **Assessment of the proper utilization of the inhaler devices among asthmatic patients,** Farah El Husseini, Lara Haidar, Nathalie Lahoud, Emilie Feghali, Diana Malaeb

1-004 **Effects of glucagon-like peptide-1 agonists and sodium-glucose cotransporter-2 inhibitors on HbA1c, weight, and total daily dose of insulin in uncontrolled diabetics,** Christine R. Heath, Travis Linneman, Nancy Schmees, Sumon Sen

1-005 **Medication use evaluation of antidiabetic agents within a VA healthcare system,** Amy T. Lynn, Tara Butler, Kelly Moran

1-006 **Effect of sociodemographic factors on CHA2DS2-VASc score among Lebanese community patients,** Diana Malaeb, Pascale Salameh, Hassan Housseini

1-007 **Use of continuous glucose monitoring in a military outpatient clinic setting,** Jacob A. Mock

1-008 **Impact of implementing a mandatory computerized prescriber order entry set for oral fluoroquinolones on outpatient prescription rates in a rural VA healthcare system,** Ryan Rubbelke, Cole Kling, Michael Lemon

1-009 **Setting up a flu clinic for health professional students on a university campus,** Monazzah Sarwar, Hali Ramirez, Alexis Tandyk

1-010 **Medication use evaluation of non-evidence-based beta blockers in heart failure with reduced ejection fraction within a VA healthcare system,** Steven Shofner, Tara Butler, Kelly Moran

1-011 **Comparison of tobacco cessation therapies provided by pharmacist vs. non-pharmacist prescribers in a veterans population,** Ivy Q. Tonnu-Mihara

● Calling Poster Mentors!

Posters mentors are in **HIGH DEMAND** at the Midyear meeting! Don't miss the opportunity to listen, inspire, and motivate our pharmacy leaders of tomorrow. Students and resident poster presenters stand eager to share, educate, and expand their professional network. The insight and wealth of knowledge you have acquired throughout your professional career can truly make a difference in the professional lives of our students and residents.

Stop by the desk in the poster hall during any of the poster sessions to participate. Your contribution is much appreciated!

► **Cardiology/Anticoagulation**

1-012 **Assessing the impact of a pharmacist-led pharmacotherapy clinic in veterans with heart failure**, Amy T. Lynn, Taler Collier, Shawn Dalton, Kelly Moran, Brien Thompson

1-013 **Establishment of a virtual centralized anticoagulation services hub**, Heather L. Ourth, Michael Tran, Sandra Hedin, Anthony Morreale

► **Clinical Services Management**

1-014 **Implementation of a discharge solution to improve patient opioid counseling and medication therapy**, Cari R. Dillon, Phil R. Neary, Chris Brummett

1-015 **Cost per responder analysis of ustekinumab and adalimumab in patients with moderate-severe psoriasis after failure to etanercept**, Sara Garcia Gil, Gloria Julia Nazco Casariego, Guillermo Antonio González De La Fuente, Fernando Gutiérrez Nicolás, Jonathan González García

1-016 **Clinical and economic impacts of the reimbursement for cognitive pharmaceutical services for hospital-acquired infections in an intensive care units (ICUs) in Taiwan**, Chia-Tu Yen, Yuh-Li Chang, Chian-Ying Chou

► **Critical Care**

1-017 **Assessment of post-discharge medication prescription among stroke patients**, Diana Malaeb, Hassan Housseini, Pascale Salameh

► **Drug Information/Drug Use Evaluation**

1-018 **Evaluation of liposomal bupivacaine use for post-surgical analgesia at VA Long Beach Healthcare System**, Lisa Walker, Patricia Chun

► **Infectious Disease/HIV**

1-019 **Effect of vitamin D status on rates of sustained viral response in cirrhotic patients treated with sofosbuvir, sofosbuvir/simeprevir, or ledipasvir/sofosbuvir for hepatitis C viral infection**, Emily R. Frye, Travis Linneman, Jeffrey Jansen, Ryan Moenster, Gillian Powderly

1-020 **Missed opportunities for HIV diagnosis at a reference hospital in the northwest of Spain**, Víctor Giménez Arufe, Noelia Fernández Bargiela, Purificación Cid Silva, Luis Margusino Framiñán, Isabel Martín Herranz

1-021 **Influence of pharmacist intervention to reduce the percentage of readmission in HIV patients who are at high risk of hospital readmission**, María Isabel Guzmán Ramos, Jose Manuel Martínez Sesmero, María de las Aguas Robustillo Cortés, María Mercedes Manzano García, Ramón Morillo Verdugo

1-022 **Reducing antibiotic prescribing for acute respiratory tract infections in a rural VA healthcare system**, Kelly L. Moran, Timothy Schick

1-023 **Effect of vancomycin restriction on duration of therapy in pneumonia patients**, Thao P. Nguyen, Stephanie Wu

► **Informatics/Technology/Automation**

1-024 **Implementation of an infusion center patient tracking board to enhance efficiency and communication**, Anne Marie Bott, Ashley Schaber

► **Investigational Drugs**

1-025 **Investigation of oxLDL-induced damage in human induced pluripotent stem cells-differentiated retinal pigment epithelial cell and establish retina degeneration animal model**, Yuh Lih Chang, Po Wei Chen

► **Oncology/Hematology**

1-026 **Current clinical practice patterns of managing adult febrile neutropenia during cancer chemotherapy in tertiary care hospital in the United Arab Emirates**, Rania Alsharji, Lina Wahba

► **Pain Management/Palliative Care**

1-027 **Measuring probability of opioid use at three postoperative time points in veterans with preoperative chronic opioid use, substance use disorder, or mental health diagnoses**, Shardool Patel, Aaron Beckner, Zachary Anderson, Kimberlee Bayless, Michael Buys

► **Precepting/Preceptor Skills/Education and Training**

1-028 **Improving pharmacy knowledge and skills of pharmacy students through meta-analysis research: a project integrating research and teaching**, Khoa A. Nguyen, Titus Schleyer

1-029 **Assessment of the center of excellence in primary care education pharmacy trainees' readiness and opportunity when entering the Veterans Affairs workforce**, Ivy Q. Tonnu-Mihara, Amber Fisher, Lori Golterman, Nancy Harada, John Dinh

► **Psychiatry/Neurology**

1-030 **Outcomes comparison between risperidone and paliperidone in veterans**, Hajar G. Ibrahim, Dat Duong, Benjamin Malcolm, Hyma P. Gogineni

1-031 **Knowledge, attitude, and practice among adult Lebanese patients with epilepsy and the impact on seizure control**, Nada Mohammad Kassem, Soumaya M. Houssein, Nathalie Lahoud, Marwan Akel, Iqbal Fahs

1-032 **Evaluating utilization of a metabolic monitoring tool vs. actual laboratory monitoring in patients receiving second-generation antipsychotics**, Steven Shofner, Shawn Dalton, David Dixon, Cedar Koetting

► **Safety/Quality**

1-033 **An audit of night sedation prescribing in the Mater Misericordiae University Hospital (MMUH): what has changed in 10 years?** Mairead Casserly, Mariosa Kieran, Ciaran Meegan

1-034 **Effect of a quality improvement activity to reduce the dispensing errors**, Yeonhong Lee, Bomin Kim, Jinyoung Jeon, Jin Young Moon, Inyoung Seo

► **Small and/or Rural Practice**

1-035 **Increasing access to mental health and pain management for rural veterans by leveraging clinical pharmacy specialist providers**, Tera Moore, Michael Tran, Julie Groppi, Terri Jorgenson, Heather Ourth

► **Women's Health**

1-036 **Prevalence and determinants of anti-platelet and anti-thrombotic medication use in Lebanese pregnant females: a cross-sectional study**, Nour Charif Farhat, Bouchra B. Mouhtadi

Professional Posters

MONDAY, DECEMBER 9

Categories: Administrative Practice/Management/Financial Management/Human Resources, Ambulatory Care, Cardiology/Anticoagulation, Chronic/Managed Care, Clinical Topics/Therapeutics, Complementary Alternative Medicine (herbals, etc.), Critical Care, Drug Information/Drug Use Evaluation, Geriatrics, Infectious Disease/HIV, Investigational Drugs, Leadership Development, Oncology/Hematology, Operating Room Pharmacy, Pain Management/Palliative Care, Pharmacokinetics, Pharmacy Law/Regulatory/Accreditation, Pharmacy Technicians: Competencies/Development/Other, Precepting/Preceptor Skills/Education and Training, Professionalism and Career Development, Psychiatry/Neurology, Small and/or Rural Practice, Women's Health

► Administrative Practice/Management/Financial Management/Human Resources

4-001 Stress and burnout amongst pharmacy caregivers at a quaternary hospital in the Middle East, Mohamed Hisham Basheer, Mohammad Aslam Siddiqui, Shu'aib Mahomed, Osama Tabbara

4-002 Effect of targeted interventions on cost savings and inventory control in automated dispensing cabinets at a community hospital's emergency department, Rianne A. Bonitto, Billy Sin, Lilia Davenport, Josel Ruiz, Vivian Leonard

4-003 How to create a comprehensive competency plan for a three-hospital system, Kathy Chang, Ken Knapp, Natasha Nicol

4-004 Bedside prescription delivery program impacts hospital readmission rates, Cynthia Coffey, Matthew Foreman, Michael Shelton, Victoria Sisitka, Nehemiah Trash

4-005 Fosaprepitant conversion results in significant cost savings, Hugh Easley, Ed Kent, Paul Saban, Poppy Wilson, Kaci Dominguez

4-006 Analysis of current status on the outpatients' prescription and the proposal of improving payment system for pharmacy dispensing fee, Sang Young Lee, Yeeun Kim, Youjeong Cho, Myoungsook Min, Jeongmee Kim

4-007 Pharmacy-faculty work-life balance and career satisfaction: comparison of national survey results from 2012 and 2018, Tristan A. Lindfelt, Mitchell J. Barnett, Shadi Doroudgar, Emily Chan, Eric Ip

4-008 Impact of a technician-led inventory stewardship program at a community hospital, Helen E. McKnight, Brandon Roberts, Calvin Jackson, Marcita Harris

► Ambulatory Care

4-009 Ambulatory clinical pharmacy specialists' contribution to the complex care practice: an innovative multidisciplinary service to reduce readmissions and emergency room visits from high utilizers, Susan Arnold, Mark Lamos, Vaibhav Parekh, Yuliya Klopouch

4-010 Impact of a pharmacist in the outpatient clinic of a community hospital, Lissette Bauza, Mercedes Frias, Ali Mazinani

4-011 Implementation of an integrated, hospital-owned specialty pharmacy and care model at a large academic institution, Bridget Cahill, Brooke Ruhland, Mengfan Cheng, Jennifer Donovan

4-012 New steps to reduce 30-day readmission through discharge counseling and follow-up phone calls in a meds-to-beds program, Larry J. Calemine, Jared Lapkowicz

4-013 Liver safety of ulipristal acetate for the treatment of uterine fibroids: a real-world experience in a Korea hospital, Ji Young Choi, Hye Won Han, Yun Hee Park

4-014 Pharmacist-managed chronic disease state management under the patient centered medical home (PCMH) model: a cost analysis, Anthony L. Donovan, Donald Klepser, Sarah Kuhl

4-015 The role of the pharmacist in pharmacogenomics testing in a family medicine residency practice, Staci Dotson

4-016 Correlating weekly warfarin dosing with patient shoe size: does size matter, Rebecca E. Erb, Ethan Nhan, Joseph Reilly, Kennara Vuong

4-017 Implementation of system pharmacy and therapeutics committee-approved therapeutic interchanges for biosimilars at a community hospital within a large integrated health system, Lisa A. Farah, Nikia Paulic, Indrani Kar

4-018 Assessment of the quality of life among asthmatic patients, Emilie Feghali, Hiba Al harfany, Farah El Husseini, Nathalie Lahoud, Diana Malaeb

4-019 Evaluation of student attitudes of interprofessional education (IPE) opportunities in ambulatory care advanced pharmacy practice experiences (APPEs) in a school of pharmacy and health sciences, Alyssa Gallipani, Antonia Carbone

4-020 Impact of interprofessional hypertension chronic care clinic for uninsured patients, Tamara Ganiko, Katie Packard, Yongyue Qi, Anne Nikodem

4-021 Comprehensive medication management review (CMR) effectiveness on A1c reduction in patients with uncontrolled diabetes, Andrew Glaquinto, Ashmi Philips, Michael Casias, Navin Philips, Geralyn Prosswimer

4-022 Pharmacists' role in discharge medication reconciliation in a meds-to-beds program, Joedell Gonzaga

4-023 Assessing pharmacy student-driven refill capture and adherence improvement in a health-system pharmacy setting, Bradley Hughes, Alexander Infante, Monazzah Sarwar

4-024 Nine gene pharmacogenomics project: Mayo Clinic experience, Eric T. Matey, Jessica Wright, Razan El Melik, Jan Anderson, Tammy McAllister

4-025 Integration of pharmacists in a primary care setting reduces A1c in adults with diabetes mellitus, Ashley Moore, Mary Onyksko, Nicole Kepner, Jennifer Cox

4-026 Validation of point-of-care INR correction equation, Christina Morton, Ted Heierman, Kim Hunger, Joe Bratsch

4-027 Evaluation of pharmacist-led comprehensive medication management (CMM) service provided to patients with diabetes in rural primary care clinics, Imi Mvere, Amanda Rigsby, Courtney Selby, Gabriella Douglass

4-028 Factors that influence patients' late medication pick-up behavior in an outpatient pharmacy, Anitha Nagelli, Christina Godwin, Jonathan Nazari, Uyi Osaghae, Mandip Singh

4-029 Pharmacist's intervention in addressing social determinants of health: a pilot project to assess food insecurities in the veteran's population, Trung H. Nguyen, Rachel N. Chandra, Shaowei Wan

4-030 Linagliptin-induced debilitating arthralgia, Stefanie C. Nigro, Jennifer Goldman

4-031 Adherence improvement in ambulatory patients with chronic diseases, Alejandra Núñez-Sánchez

4-032 Evaluation of patient factors associated with achieving goal hemoglobin A1c in collaborative drug therapy management ambulatory care clinics by clinical pharmacists: a retrospective chart review, Stefanos D. Torkos, Jacqueline Burke, Kathy Zaiken

► **Cardiology/Anticoagulation**

4-033 Improving accuracy of medication reconciliation for discharged patients at a tertiary care hospital, Saudi Arabia, Ahmed Salem Alanazi, Sameh Awwad

4-034 Does body mass index influence warfarin dosing requirements and anticoagulation control? Eman N. Alhmoud, Mohammed Abdulgelil, Walid Mekkawi, Dana Bakdash

4-035 Evaluation of the validity of SAMe-TT2R2 score in a cohort of venous thromboembolism patients treated with warfarin in Qatar, Eman N. Alhmoud, Hazem Elewa, Mohammed Abdulgelil, Walid Mekkawi, Sayed Hassan

4-036 Reliability of point-of-care INR measurements in various patient populations, Kimberly K. Arline, Krista Sanchez, Cesar Rodriguez-Braham

4-037 Assessing the inappropriate use of low-dose apixaban at an academic medical center, Michael C. Boller, Jamie Smelser

4-038 Analysis of antithrombin III utilization for heparin resistance in cardiopulmonary bypass after criteria approval, Kimberly J. Bolton, Ryan A. Hobbs

4-039 Don't overlook anticoagulation safety: importance of direct oral anticoagulant (DOAC) monitoring programs, Antonia DeQuevedo, Nicole Clark

4-040 Direct oral anticoagulant (DOAC) utilization assessment to prepare for Joint Commission national patient safety goal (NPSG) for anticoagulation therapy, John A. Dougherty, Katerina Xu, Nkiru Anyagaligbo, Sheldon Lefkowitz

4-041 Cangrelor use in patients undergoing percutaneous coronary intervention or neurovascular intervention with stent placement in a community hospital, Radhan B. Gopalani, Jessica Justiz, Andrea Marr-Peralto, Stephanie Palma, Monica Tadros

4-042 Retrospective evaluation of the appropriateness of use of Vernakalant at a tertiary care teaching hospital in Lebanon, Ghida M. Halik, Rony M. Zeenny, Ulfat Usta, Petra Khoury

4-043 Incidence, severity, and duration of thrombocytopenia after cardiopulmonary bypass, Ryan A. Hobbs, Emily A. House

4-044 Impact of obesity on real-world clinical outcomes in patients with atrial fibrillation on direct oral anticoagulant (DOAC) therapy: a retrospective cohort study, Nina Kim, Paul J. Godley, Karen Rascati, Kiumars Zolfaghari, Jeffrey Michel

4-045 Impact of ivabradine on hemodynamics and heart rate variability in acute heart failure, Yi-Cheng Lin, Bi-Li Chen, Chih-Wei Chen, Chun-Yao Huang

4-046 Knowledge, attitudes, and prescribing practices of Lebanese physicians about aspirin for primary and secondary prevention of cardiovascular diseases in eligible patients, Mira Maroun Moawad, Doaa Shouman, Nathalie Lahoud, Jihan Safwan, Michelle Cherfan

4-047 Enoxaparin treatment dosing in an obese patient on hemodialysis, Thanh Thuy T. Nguyen, Anastasiya Plagova

4-048 Evaluation of four-factor prothrombin complex concentrate in the management of factor Xa inhibitor-associated bleeding, David Reynolds, Dustin Spencer, Jennifer Van Cura

4-049 Improper transition of care leading to stent occlusion and myocardial infarction, Michael Rickson, Jennifer Goldman

4-050 Assessment of unfractionated heparin use in a tertiary care hospital in Lebanon, Marwan Sheikh-Taha, Maria Aoun, Christina Boyajian, Ghaleb Ismail

4-051 Assessment of the calcium channel blocker, lower extremity edema, loop diuretic prescribing cascade: a prescription sequence symmetry analysis, Scott M. Vouri, Xinji Jiang, Almut Winterstein

4-052 Assessing baseline rates of stroke risk score documentation and anticoagulation in patients with atrial fibrillation (AF) at an integrated delivery network, Marie Yasuda, Anthony C. Colavecchia, Paul Godley, Jeffrey Michel

► **Chronic/Managed Care**

4-053 Assessment of physician prescribing habits among patients with plaque psoriasis and psoriatic arthritis treated with ustekinumab, Trista Tam, Mengdi Tang

► **Clinical Topics/Therapeutics**

4-054 Comparative clinical effectiveness of biological medications in the management of rheumatoid arthritis at a tertiary care hospital in Jazan, Saudi Arabia, Mohammed Abutaleb, Albaraa M. Marran

4-055 The impact of pharmacist interventions in conversion of intravenous medications to oral: a prospective study at Tawam hospital, UAE, Naama Mohammed Al kalbani, Sheilla Rashid

4-056 Efficacy and safety of nintedanib in elderly patients with idiopathic pulmonary fibrosis, Elisabeth Bendstrup, Francesco Bonella, Elena Bargagli, Leticia Orsatti, Ian Glaspole

4-057 Basaglar treatment failure: a case report, Luba Y. Burman

4-058 Clinical pharmacist evaluation of medication inappropriateness in a geriatric hospital, Souraya Domiaty, Omar Baayoun, Soha Faraj, Rita Poushuju, Jamal Yasmine

POSTER PRESENTATIONS CONTINUED

4-059 Assessment of knowledge and attitude of Lebanese patients toward antibiotics use, Souraya Domiati, Zeina Kabbout, Maha Abou Ela, Ahmed El Mallah

4-060 Knowledge and attitude toward common cold in Beirut, Lebanon, Souraya Domiati, Maha Abou Ela, Ghida Itani

4-061 Standardizing aminoglycoside-induced ototoxicity monitoring in individuals with cystic fibrosis, E. Claire Elson, Ellen Meier, Stephanie Duehlmeyer, Christopher M. Oermann

4-062 Plecanatide for treating chronic idiopathic constipation: a pooled analysis of efficacy and safety, Howard Franklin, Gregory Sayuk

4-063 Efficacy and safety of plecanatide in patients with irritable bowel syndrome with constipation: pooled analysis of two randomized clinical trials, Howard Franklin, Jennifer Christie

4-064 Implementation of a diagnostic algorithm for heparin-induced thrombocytopenia, Jessica Justiz, Heidi Clarke, Radhan Gopalani, Amy Montes

4-065 Clinically significant interaction between meropenem and valproic acid: a case series, Wissam Kabbara, Ahmad El Ouweini

► Complementary Alternative Medicine (herbals, etc.)

4-066 Antimicrobial activity of camel lactoferrin peptide, Saleh Mohammed Alamri

4-067 Evaluation of anti-cancer effects of bitter melon, Hellen N. Ly, David Estaphnous, Azeen Hassanzadeh, Aftab Ahmed, Jerika T. Lam

4-068 Use and opinions of medical use of cannabis among patients, Michael Steinberg, Matthew Metcalf

4-069 Phosphodiesterase-5 inhibitors in complementary alternative medicine causing blind duplicate therapy and further health complications, Cindy Zheng, Mark Mikhail, Heba Essa, Doreen Szollosi, Mohamed I. Nounou

► Critical Care

4-070 Retrospective study assessing drug utilization for agitation and delirium in the intensive care unit among Lebanese hospitalized patients, Zeina Al Hajj, Aya Atoui, Nathalie Lahoud, Razan Mhanna

4-071 Assessment of factors affecting CHA 2 DS 2 VASc score in acute stroke settings and its relation with MRS, Hiba Al Harfany, Nathalie Lahoud, Emilie Feghali, Lara Haidar, Diana Malaeb

4-072 Assessment of pharmacist competency during cardio-pulmonary arrest code participation in a community hospital, Lissette Bauza, Yarelys Garcia, Ada Jalice

4-073 Impact of vitamin C, hydrocortisone, and thiamine on mortality in critically ill patients with severe sepsis and septic shock, Daniela Fernandez, Lawrence Davila, Lynne Krop

4-074 Retrospective analysis of baseline potassium with succinylcholine administration at an academic medical center, Morganne Haer, Robert Plambeck, Megan Dethlefsen, Lee Marrow, Mark Malesker

4-075 Assessment and evaluation of hypertension treatment in acute ischemic stroke, Lara Haidar, Hiba Al-Harfany, Farah El Husseini, Nathalie Lahoud, Diana Malaeb

4-076 Assessment of compliance with safety monitoring parameters of propofol in mechanically ventilated critically ill patients at a tertiary care teaching hospital, Audra Hannun, Rony M. Zeenny, Ulfat Usta, Petra Khoury

► Drug Information/Drug Use Evaluation

4-077 Hypnotics utilization in the management of primary insomnia in a tertiary care hospital in Jazan, Saudi Arabia, Mohammed Abutaleb, Ali Dobia

4-078 Adverse drug reaction (ADR) detection through trigger drugs: an approach for medication safety in Al-Khor Hospital (part of Hamad Medical Corporation – Qatar), Kawther Abdualnabi Alsayed, Sherif Attia, Azza Elmusharaf, Ahmed Ragab, ElHareth Yousif

4-079 Cancer incidence among insulin users with human insulin and insulin analogues, a cohort study using the national health insurance research database in Taiwan, Mei-Yu Chen, Chian-Ying Chou, Yuh-Lih Chang

4-080 Statin use and risk of prostate cancer: a nationwide propensity-matched cohort study in Taiwan, Chian-Ying Chou, Yuh-Lih Chang, Yi-Fan Yang

4-081 Real-world effectiveness of Guselkumab in Taiwan, Yun-Chin Chung, Zhi-Yuan Wu, Hui-Yu Chen, Kai-Cheng Chang

4-082 Uptake rates, knowledge, and barriers to seasonal influenza vaccination among Lebanese healthcare workers: a cross-sectional study, Fatima H. Ezzeddine, Ghadir Hassan, Nathalie Lahoud, Hassan M. Zaraket, Malak M. Alame

4-083 Experience of use and safety of dimethyl fumarate in a tertiary level hospital, Noelia Fernandez Bargiela, Victor Giménez Arufe, Carlos Cores Bartolome, Ana Lopez Real, Isabel Martin Herranz

4-084 Opioid Stewardship: hydromorphone drug use evaluation across 22 freestanding emergency care centers, Melanie Flinn, Jacqueline Pitts, Phuong N. Huynh

4-085 Identification of trends in opioid prescribing in an ambulatory 330 center, Claudia Guisao, Nasla S. Duran Negron, Stephanie Pagan Rodriguez, Sara B. Rios Nunez, Iadelisse Cruz Gonzalez

4-086 Assessment of ceftaroline use at a tertiary care teaching hospital, Audra Hannun, Rony M. Zeenny, Ulfat Usta, Petra Khoury

4-087 A survey of methods and sources healthcare providers use for medical information, Evelyn R. Hermes-DeSantis, Roma Bhavsar, Robert Hunter, Jung H. Lee, Marie-Ange Noue

4-088 Comparative study of amlodipine besylate (Amlor®) with other generics in the Lebanese market: an analytical approach, Fadi M. Hodeib, Ali Kanj

4-089 Attitude and satisfaction of Lebanese mothers toward the pharmacist's counseling on proper usage and administration of antibiotics suspensions for pediatric usage, Fadi M. Hodeib, Mohammad Assi, Rim Harb, Roba Koubeissy

4-090 Assessment of online open-access resources for drug-drug interaction identification and management, Rebecca Hoover, Jeeseon Kim

4-091 Comparing clinical characteristics and outcomes of dipeptidyl peptidase-4 inhibitors and metformin in treatment of naïve Type 2 diabetes in an academic teaching hospital in Japan, Makiko Iwasawa, Takeshi Horii, Sayaka Kashiwagi, Koichiro Atsuda

4-092 Trend of intravenous magnesium sulfate (IV MgSO4) consumption in a Lebanese hospital: a retrospective medical chart review, Jinan Jihad Kheireddine, Salwa El.Khoury, Etwal Bou Raad, Nathalie Lahoud

► **Geriatrics**

4-093 Pharmacist's role in management of home health patients admitted to the hospital, Janay Bailey, Rani P. Madduri, Ashmi A. Philips, Navin Philips, Beata Wrobel

4-094 Knowledge and awareness of Lebanese elderly on OTC NSAIDs adverse events, Fadi M. Hodeib, Mohammad Assi, Rim Harb, Roba Koubeissy, Diana Malaeb

4-095 Attitude and satisfaction of Lebanese elderly patients toward the pharmacist's counseling on OTC NSAIDs, Fadi M. Hodeib, Mohammad Assi, Rim Harb, Roba Koubeissy, Diana Malaeb

4-096 Hip-fractures among elderly – lack of concordance between the patient's medication list and the presence of drugs in the blood at the time of fracture, Marwa Shabo, Margareta Reis, Torsten Johansson, Ylva Bottiger

► **Infectious Disease/HIV**

4-097 Evaluating outcomes of extended vs. intermittent infusion of antipseudomonal beta-lactams for treatment of critically ill patients with respiratory infection: a systematic review and meta-analysis, Laila Aboulatta, Hideki Sugita, Hitomi Wakabayashi, Hisashi Noma, Tadanori Sasaki

4-098 Impact of targeted prescriber education and metrics on antibiotic utilization, Brandi M. Acevedo, Katherine Shea, Jessica Sun, Steve Lundquist, David Choi

4-099 Implementation of an interprofessional approach to minimize the usage of inappropriate broad-spectrum gram-positive antimicrobials in respiratory infections in patients covered by adult medicine rounding teams, Katherine Adams, Katie Lachman

4-100 Evaluation of pharmacist interventions on antimicrobial use: a multicenter, tertiary, teaching hospital-based study, Young-Mi Ah, Yewon Suh, Jee-Eun Chung, Eunsook Lee, Ju-yeun Lee

4-101 Awareness of recommended vaccinations and vaccine-preventable diseases among Lebanese adult population, 2019, Batoul Ibrahim Ballout, Ghida Hamze, Marwan Akel, Lama J. Faddoul

4-102 Clinical outcomes of empirical use of piperacillin/tazobactam vs. meropenem in adult patients admitted to the intensive care unit with sepsis, Asma Saeed Bin Ishaq, Hassib Narchi, Tasnim Dawoud

4-103 Medication use evaluation and pharmacist intervention impact on Polymyxin B dosing for multidrug resistant gram-negative bacteria in a secondary care hospital, Zaritza Z. Cajigas, Nancy Morales-Berrios

4-104 Knowledge of community pharmacists about antibiotics, and their perceptions and practices regarding antimicrobial stewardship: a cross-sectional study in Lebanon, Aya J. Chahrour, Mohammad H. Fneish, Fouad R. Sakr, Nathalie Lahoud, Mariam K. Dabbous

4-105 Improving penicillin allergy documentation and its effect on antibiotic prescribing at a community hospital, Rita Chamoun, Olga Bendyk, Radhan Gopalani, Amy Montes, Thomas Wolfel

4-106 Implementation of a pharmacist-driven therapeutic interchange of levofloxacin: two years later, Gary M. Chan, Kevin M. Tapia, Justin Louie, Tracey Okabe-Yamamura

4-107 Nephrotoxicity associated with intravenous vancomycin and extended-infusion piperacillin/tazobactam, Andy Chang, Ashmi A. Philips, Rani P. Madduri, Michael S. Casias, Mini Varghese

4-108 Developing and revising guidelines to improve antimicrobial prophylaxis in surgery, Ha Jin Chun, Jeong Yong Park, Young Hee Lee

4-109 Impact of modifying prescriber *Clostridioides difficile* (*C. difficile*) test ordering practices on *C. difficile* infection rates, Marsha F. Crader, Kasey Holder, Debbie Ledbetter, Sarah Lowtharp

4-110 Fighting resistance needs your assistance: teaching pharmacists how to apply antimicrobial stewardship principles in primary care and community practice, Shelita Dattani

4-111 Impact of reflex fosfomycin E-testing on the utilization of carbapenems for definitive extended spectrum beta-lactamase *Escherichia coli* urinary tract infection treatment, Kevin M. Deemer, Jonathan Grey, Christopher Fronczek, Kerry Marr

4-112 Impact of an ertapenem restriction program in a community hospital, Julie Downen, Susan Samet, Sarah Wagner

4-113 Development and interim analysis of a cystic fibrosis-specific antibiogram, E. Claire Elson, Megan Gripka, Ellen Meier, Christopher M. Oermann, Doug Swanson

4-114 Enterobacteriaceae bloodstream infections and comparative efficacy of oral step-down antimicrobial therapy, Spencer Evans, Jennifer Anthone, Christopher Destache, Renuga Vivekanandan

4-115 Pharmacist role in detection, control and prevention of arboviruses, Christina Fernandez-Barrantes

4-116 Assessment of the pharmacodynamic profile of a novel β -lactam- β -lactamase combination, cefepime-enmetazobactam (formerly AAI-101), in comparison with piperacillin-tazobactam against several Gram-negative pathogens, Amelia B. Furbish, Roger L. White

4-117 Appropriateness of empiric antibiotics for *Pseudomonas aeruginosa* bacteremia, Nathan M. Gartland, Brandon J. Smith, Ricardo Arbulu

4-118 Implementation of penicillin allergy testing in a community hospital as an antimicrobial stewardship intervention, Heather D. Gibson, Andrew Kessell, Jayne Lee

4-119 **Analysis of vancomycin loading doses before and after order set implementation in a community teaching hospital**, Olga Ginsberg, Andrew Aziz, Borislav Stoev

4-120 **Exploring strategies to incentivize students to receive their annual influenza vaccination**, Kelsey R. Habighorst, Thien Lee, Lisa M. Cillessen, Heather M. Taylor, Paul O. Gubbins

4-121 **Design and synthesis of novel oxadiazole-based antimycobacterial agents**, Morgan L. Harris, Wei Li, Mary Jackson, E. Jeffrey North

4-122 **Evaluation of Health Resources & Services Administration (HRSA) visit criteria and its impact on viral load suppression in HIV-infected patients at a university-based HIV clinic**, Qingfeng He, Moses O. New-Aaron, Sara Bares, Nada A. Fadul, Joshua P. Havens

4-123 **Vancomycin stewardship pilot using methicillin-resistant *Staphylococcus aureus* (MRSA) nasal screening among patients with pneumonia**, Cindy (Mei Xian) Hsieh, Helen S. Lee

4-124 **Successful treatment of *Mycobacterium tuberculosis* and carbapenem-resistant *klebsiella pneumoniae* infection in a post-kidney transplant patient**, Xuelian Hu, Rong Zhang, Peng Gu, Menglin Luo, Fei Ye

► **Investigational Drugs**

4-125 **Nintedanib reduced the decline in forced vital capacity across subgroups of patients with systemic sclerosis-associated interstitial lung disease: data from the SENSCIS trial**, Oliver Distler, Kristin B. Highland, Martina Gahlemann, Arata Azuma, Toby M. Maher

4-126 **Safety profile of nintedanib in patients with systemic sclerosis-associated interstitial lung disease and idiopathic pulmonary fibrosis**, Kristin Bamber Highland, Oliver Distler, Martina Gahlemann, Arata Azuma, Toby M. Maher

4-127 **Investigation of the potential anti-inflammatory and analgesic activities of some chemical products**, Fadi M. Hodeib, Hanan Ragab

4-128 **Investigational drug service – challenges and opportunities to workflow processes following a change in location**, Elyse MacDonald, Michelle Hillman, Winter Redd, Brittney Scharman, Malinda Suttemyer

4-129 **Implementation of a clinical research pharmacy team at Pfizer to optimize the investigational product handling experience for healthcare providers and patients**, Damen Man, Fae G. Wooding, Stephen C. Kay, Michael T. Ku

4-130 **Analysis of pharmacists' work on investigational product management**, Minhye Park, Seonyoung Chung, Jeongmee Kim

► **Leadership Development**

4-131 **Burnout response among U.S. hospital pharmacy directors and departments**, Matt Bilhimer, Nicole Acquisto, Patrick Bridgeman, Liz Rozcyki, Giles Slocum

4-132 **Emotional intelligence of pharmacists in the United States and in Japan**, Mai Yokota, Theresa Hoang, Janice Hoffman, Quang Le

► **Oncology/Hematology**

4-133 **Treatment of B-cell acute lymphoblastic leukemia induced veno-occlusive disease with intravenous and oral N-acetyl cysteine in a six-year-old girl**, Helena M. Ayoub, Fatima Ismail, Dima Abla, Ulfat Usta, Samar Muwakkit

4-134 **CheckMate 817: first-line nivolumab + ipilimumab in patients with ECOG performance status (PS) 2 and other special populations with advanced non-small cell lung cancer (NSCLC)**, Tricia Fleming, Luis Paz-Ares

4-135 **Impact of non-polyethylene-lined infusion tubing on leaching and sorption with chemotherapeutic agents**, John Beard, Seth Eisenberg, Arun Singh

4-136 **Implementation of a dose optimization strategy for biological and cytotoxic substances at a rural ambulatory infusion center**, Bradley E. Cagle, Katy Wright

4-137 **The use of proteomics in establishing the potential use of statins in breast cancer prevention**, Macy England, Amy Ham, Edgar Diaz Cruz, Hayley Baker

4-138 **The cost of adverse events for FDA-approved/NCCN category 1 treatments for Medicare fee-for-service patients with metastatic pancreatic cancer**, Jared Hirsch, Gabriela Dieguez, Paul Cockrum

4-139 **Symptom tracking in oncology patients: leveraging intervention through education (STOPLITE)**, Erin C. Hoag

► **Operating Room Pharmacy**

4-140 **Decreasing intravenous acetaminophen administration to surgical patients undergoing tonsillectomy, adenoidectomy, and tympanostomy tube placement in the operating room**, Katherine S. Klockau, Maria Ingram, Melissa Brooks Peterson

► **Pain Management/Palliative Care**

4-141 **Impact of liposomal bupivacaine on opioid utilization, pain management, and length of stay in patients receiving total knee arthroplasty**, Irvin Alfonso, Rinita Acevedo, Agostina Eberstein, Haq Furqan, Nguyen Tadesa

4-142 **Impact on the use of pharmacy-compounded joint cocktail vs. liposomal bupivacaine vs baseline on pain and length of stay for total knee arthroplasty**, Irvin Alfonso, Donald Bogar, Agostina Eberstein, Steve Geisler, Alan Valadie

4-143 **Opioid-free postoperative recovery in patients undergoing herniorrhaphy with HTX-011 as the foundation of a scheduled non-opioid, multimodal analgesic regimen**, Jackie Evans-Shields, Eugene R. Viscusi, Harold Minkowitz, Peter Winkle, Neil Singla

4-144 **HTX-011 as the foundation of a non-opioid, multimodal analgesic regimen reduces the need for opioids following herniorrhaphy in a real-world study**, John Fanikos, Harold Minkowitz, Michael Reinhorn, Barry Quart

4-145 **Pharmacists and health personnel attitudes and beliefs of dispensing naloxone either with a prescription or via a physician-approved protocol in Ohio**, Gabrielle Fish, Kathryn Fetters, Pamela heaton, Ana Hincapie, Neil MacKinnon

4-146 **Palonosetron alleviates multiple-day chemotherapy-induced nausea and vomiting**, Hirofumi Hamano, Chisato Mitsuhashi, Yoshito Zamami, Mitsuhiro Goda, Keisuke Ishizawa

► **4-147 Opioid-free postoperative recovery in patients undergoing bunionectomy with HTX-011, an extended-release local anesthetic**, Jia Hu, Richard Pollak, Jackie Evans-Shields, Gwo-Chin Lee

► **4-148 Impact of pain stewardship and palliative care programs on reducing opioid utilization and improving management of pain at a suburban community hospital**, Eugene Kolomiyets, Ihab Ibrahim, Howard Sussman

► **Pharmacokinetics**

► **4-149 In vitro assessment of known CES1 inhibitors on CES1 activity and heroin metabolism**, Tara K. Gilliland, Yuli Qian, John S. Markowitz

► **4-150 Population pharmacokinetics and renal toxicity of cisplatin for cancer patients with renal dysfunction**, Tomoko O. Morita, Hiroki Sugita, Kazuhiko Hanada

► **Pharmacy Law/Regulatory/Accreditation**

► **4-151 Accreditation of an international pharmacy residency program: Qatar's experience**, Sara H. Ahmed, Moza Al Hail, Wessam El Kassem, Sara Ahmed

► **4-152 Student pharmacist involvement on the legislative team for the state pharmacy association to expand access to tobacco cessation products**, Elena R. Beuaregard, Anita Jacobson

► **4-153 Implementation of United States Pharmacopeia (USP) <797> and <800> compliant sterile compounding pharmacies at a large multihospital health system**, Bridget Gegorski, Shawn Osborne

► **4-154 Alaska's pathway to pharmacist medical provider status: are statutes and regulations already in place**, Renee Robinson, Michael Biddle, Andrew Hibbard, Elaine Nguyen, Thomas Wadsworth

► **4-155 Technology-check-technician: our journey in Massachusetts**, Erin Taylor, Caryn Belisle, Aaron Michelucci

► **Pharmacy Technicians: Competencies/Development/Other**

► **4-156 Impact of a pharmacy-driven admission medication history service at a rural community teaching hospital**, L. Megan Brown, T. David Marr

► **4-157 Expanding pharmacy's presence: adding pharmacy technicians to take over medication handling and procurement in ambulatory surgery centers in a health system**, Matthew Effron

► **4-158 Cleanroom gemba safety walk: promoting a sanitary environment for compounding**, Kathleen E. Forbis, Clinton Meachum

► **4-159 Controlled substance audit and compliance specialist technician: career growth for the pharmacy technician**, Sadie B. Hammond

► **4-160 Pharmacy technician-driven medication reconciliation program – a solution to California SB 1254**, Nazanin Parsafar, Doris Manford, Lisa Binsin, Mee Moua, Angelica Sanchez

► **4-161 It's Dynamite: a single hospital pharmacy's experience with a certified pharmacy technician training new technician (CPT-TNT) program**, Anthony Zelinsky, Abbe Collins, Eric Balotin, Rob Seabury, Bruce Stalder

► **Precepting/Preceptor Skills/Education and Training**

► **4-162 Innovative education for health professional students addressing mental health stigma**, Jill M. Boone, Kelly Lyle, Ruth Anne Van Loon, Gideon Labiner

► **4-163 Impact of peer-to-peer teaching on medical student knowledge, confidence, attitudes in medication adherence**, Emily Chan, Jimmy Huang, Diana Nguyen, Shadi Doroudgar, Eric Ip

► **4-164 Assessment of prevalence and severity of depression symptoms in fourth year-pharmacy students**, Jill M. Comeau, Savannah D. Parker, Amanda Bridges, Tibb Jacobs

► **4-165 Effect of a student-led interprofessional clinical reasoning case studies group and competition on student perception of interprofessional education**, John Guggenberger, Kim Beran, Joy Doll, Anna Maio, Anne Schoening

► **4-166 Evaluating return on investment for a medical information rotation for pharmacy students**, Chris Gutteridge, Priya Patel, Mary Sendi, Michael Rocco, Stacey Follman

► **4-167 Evaluate the effectiveness of pharmacist-led anti-drug educational programs developed by quality control circle (QCC)**, Jui-Min Hu, Tsung-Han Wu, Chi-Ting Tseng, Kai-Hsiang Yang

► **4-168 Climbing the pyramid of teaching: how to create and implement a preceptor development program**, Catherine Korte, Christiana Padilla, Emily Doerfler, Andrew Smith, Michael Huke

► **4-169 Development and implementation of a health-system pharmacy intern certificate program in a tertiary medical center to inspire and influence pursuit of pharmacy advancement**, Maari L. Loy, Carlina J. Grindeland

► **4-170 Pharm.D. pharmaceutical industry advanced pharmacy practice experience in medical information**, Manahil Y. Malik, Chris Gutteridge, Annamaria D'Ascoli, Lesley N. Corkum, Stacey Follman

► **Professionalism and Career Development**

► **4-171 Evaluation of patient counseling and communication skills among pharmacists in Qatar**, Eman N. Alhmoud, Rasha El Anany, Sara Mahmoud, Bridget Javed

► **4-172 Advancing person-centered care: equipping pharmacists with knowledge to engage patients in cost of care conversations**, Nicole G. Braccio, Dominique Ngo, Kathleen Gallagher, Pat Jolley

► **4-173 The value of completing a biopharmaceutical fellowship**, Amee Mistry, Shrinal Patel, Stephanie Yin

► **4-174 Identifying predictor variables for burnout among pharmacy students**, Jennifer A. Phillips, Ani Bekelian, Michael Bille, Annette Hays, Amy Stein

► **4-175 Pfizer post-doctoral industry fellowship program: a commitment to pharmacist talent development and retention**, George Samman, Yazdi Pithavala, Stacey Follman, Christine Gutteridge, Fae Wooding

► **4-176 Impact of time allocation on attainment of an initial**

interview for postgraduate training programs in two graduating classes of P4 pharmacy students, David Schnee, Stefanos Torkos, Harleigh Becotte, Khushbu Patel, Erika Getzik

4-177 Pharmacists' knowledge of the use of anticholinergic medications in the elderly: survey of community pharmacists, Poh Leng Tan, Wing Lam Chung, Lay Khee Tan

4-178 Pharmacy student attitudes towards substance use and substance users: the changing trend in marijuana use permissiveness from 2015 to 2018, Wenola L. Tauro, Emily Cramer, Jilla Sabeti

4-179 Novel and comprehensive design of mock residency interviews for fourth professional year doctor of pharmacy students, Kurt W. Wolfgang

► **Psychiatry/Neurology**

4-180 Naltrexone for the treatment of psychogenic polydipsia, Stephen M. Dolley, Anna K. Morin, Jennifer R. Trodella

4-181 Reintroduction of clozapine in a patient with chronic eosinophilic pneumonia, Brianna E. Englett, Tiffany L. Gordon, Kelly L. Holladay

4-182 Community pharmacy walks: an innovative way to provide medication education, Aman Hansra

4-183 Misuse of prescription stimulants and prevalence of Internet Gaming Disorder (IGD) among adult video gamers, Eric J. Ip, Emil Paul T. Urbano, Joshua Caballero, Wayne B. Lau, Mitchell J. Barnett

4-184 Cognitive enhancing drug use, lifestyle, and stress among five U.S. doctor of pharmacy programs, Eric J. Ip, Runa Akahoshi, Samantha Antonio, Vista Khosraviani, Mitchell J. Barnett

► **Small and/or Rural Practice**

4-185 Implementing a pre-transition of care service line through pharmacy advocacy in the community to help promote public awareness, resident learning opportunities, and preceptor development, Patrick Divoky, Dawn Damante

4-186 Study of the application of Japan "okigusuri" system for regional care, Takeshi Onodera, Makoto Matuura, Kiyoaki Miura, Shunsuke Toyoda

Women's Health

4-187 Integrated pharmacy automation management reduced formula usage and improved exclusive breast-feeding rates in a Baby Friendly community hospital, David M. Dirig, Leonid Sokolskiy, Maria Itani, Tammy Turner, Tracey Ybarra

4-188 Antimicrobial utilization at the largest tertiary care obstetric hospital in Qatar: application of point prevalence and defined daily doses (DDD) methodology, Binny Thomas, Moza AlHail, Pallivalapilla Abdulrouf, Wessam Elkasseem, Hussam Alsoub

● **TUESDAY, DECEMBER 10**

Categories: Administrative Practice/Management/Financial Management/Human Resources, Clinical Services Management, Clinical Topics/Therapeutics, Critical Care, Drug Information/Drug Use Evaluation, Emergency Medicine, Emergency Preparedness, Infectious Disease/HIV, Informatics/Technology/Automation, IV Therapy/Infusion Devices, Oncology/Hematology, Pain Management/Palliative Care, Pediatrics, Precepting/Preceptor Skills/Education and Training, Psychiatry/Neurology, Safety/Quality, Transplant/Immunology

► **Administrative Practice/Management/Financial Management/Human Resources**

8-001 Developing a process to integrate and consolidate pharmacy policies across a health system, Jason Milner

8-002 Development of a comprehensive value assessment framework at an academic medical center, Sapna A. Prasad, Sagune Saka, Molly Leber

8-003 Leveraging pharmacoeconomics in formulary management: cost-effectiveness analysis of betrixaban, Sapna A. Prasad, Molly Leber, Sagune Saka

8-004 Implementation of hypercalcemia of malignancy guidelines to reduce treatment-associated costs, Loretta A. Slone, Susan Samet

8-005 Engagement of front-line staff to develop a sustainable staffing strategy to manage unplanned absences due to employee call outs, Erin Taylor, Sean Illig, Hannah Spinner, Adam Pesaturo, Kori Zukowski

8-006 Setting the goal: assuring high-quality pharmacy practice across a health system, Robert D. Warhurst, Dawn M. Moore, Adam D. Boon

8-007 Development of a single, automated hazardous drug risk assessment tool within an integrated delivery network, Heather Weese, Michael W. Farrell

► **Clinical Services Management**

8-008 Physicians views on the use of international clinical guidelines for managing insomnia in Saudi Arabia, Mohammed Abutaleb, Ali Dobia, Kath Ryan, Alexander Edwards

8-009 Anticoagulation management in care transitions after hospital initiation of warfarin: a pharmacy-driven initiative, Eman N. Alhmoud, Osama Abd el Samad, Sara Ahmed, Amr Fahmi, Rasha El Anany

8-010 Utilizing nominal group technique for planning and implementing professional development program for clinical pharmacists in Qatar, Eman N. Alhmoud, Sara Mahmoud, Raja Barazi, Rasha El Anany

8-011 The implementation of an antimicrobial stewardship program managed by an infectious disease physician and pharmacists in a community hospital, Jeanne M. Brady, Mahendra Poudel

8-012 The transition from traditional pharmacy to e-pharmacy: strategies and challenges to promote the quality of pharmacy services, Huey-Ling Chang

8-013 Impact of a volunteer-based clinical pharmacy internship program at an academic medical center, Megan Corsi, Joelle Farano, Bryan McCarthy

8-014 Impact of a bedside medication delivery program, (meds-to-beds), in reducing 30-day readmissions for congestive heart failure, and acute myocardial infarction, Barbara Greenberg-Schwartz, Sandra Richardson

8-015 An initial survey on research pharmacy clinical services, Amber Johnson

8-016 Hyperkalemia and confounding medication use in a real-world analysis of a large integrated health system, Jennifer A. Kammerer, Heidi May, J. Brent Muhlestein, Jeffrey L. Anderson, T. Bair

8-017 The benefits of pharmacist-led counseling program for diabetes patients, Minjung Kim

8-018 Pharmacy directed multidisciplinary management of anemia and bone mineral disorder (BMD) in patients with end stage renal disease (ESRD), Sheldon Lefkowitz, Mei S. Kung, Michael Lotfi, Renata Masimova, Annesha White

8-019 Quality assessment and cost saving of renal dosing recommendation by clinical pharmacists at a tertiary care hospital in Thailand, Sayamon Sukkha, Surakit Nathisuwan, Usa Chaikledkaew, Wipharak Rattanavipan, Junporn Kongwatcharapong

► **Clinical Topics/Therapeutics**

8-020 Management of Pickwickian syndrome in obese patients, Pritesh Kalola, Amy Li, Simon Tarpav

8-021 Nursing perspective on intranasal verses intramuscular naloxone usage in the inpatient setting, Jayne Lepage, Joseph Sawicki

8-022 A case of diffuse calciphylaxis, Becky Linn, Alyssa Steine, Menglan Wang

8-023 Impact of an intravenous to oral corticosteroid conversion program in patients with chronic obstructive pulmonary disease, Holly Lowe, Don Branam, James Nicholson, Heath Ford, Dustin Spencer

8-024 Pruritus outcomes with crisaborole by baseline atopic dermatitis severity, Daniela E. Myers, Gil Yosipovitch, Chuanbo Zang, Bonnie Vlahos, Linda F. Stein Gold

8-025 Impact of the implementation of a pharmacist-driven chronic obstructive pulmonary disease exacerbation orderset in the inpatient setting, Sarah E. Petite, Julie A. Murphy

8-026 Impact of a pharmacist-driven transitions of care program on hospitalized patients with chronic obstructive pulmonary disease exacerbation, Sarah E. Petite, Julie A. Murphy

8-027 Transfer between dipeptidyl peptidase-4 (DPP-4) inhibitors is effective in Type-2 diabetes mellitus patients, Yuta Suzuki, Akihiro Tanaka, Noriaki Hidaka, Mamoru Tanaka

8-028 Impact of serial blood glucose monitoring and treatment in patients with corticosteroid-induced hyperglycemia in the inpatient setting, Monica Tadros, Heidi Clarke, Radhan Gopalani, Stephanie Palma, Moe Shwin

8-029 Analysis of risk factors of vascular pain caused by dacarbazine injection, Yusuke Tanaka, Junko Tsukamoto, Masahito Yasuda, osamu Ishikawa, Koujiro Yamamoto

8-030 Impact of implementing an intravenous (IV) levothyroxine dosing protocol during a drug shortage, Jennifer Van Cura, Dustin Spencer, Leonard Valdez, Susan Samet, Steve Lundquist

8-031 Comparison of probiotic regimen of *bifidobacterium*, *lactobacillus*, and *streptococcus* to *saccharomyces boulardii* in the prevention of antibiotic-associated diarrhea and associated healthcare costs, Nardine-Mary N. Yassa, Alicia Courtney, Jay DeLisle, Regina C. Scott, Ryan Titus

► **Critical Care**

8-032 Evaluation the use of antiepileptic drugs for seizure prophylaxis after traumatic brain injuries, Yi-yun Lee, I-Chen Liao, Gan-Hong Lin

8-033 Evaluation of extracorporeal membrane oxygenation (ECMO) survival rates at a community hospital, Daniel L. Padgett, Shelby Gaudet, Jon Neyman

8-034 Albumin use evaluation in a tertiary care hospital in United Arab Emirates, Sheilla Rashid

8-035 Medication reconciliation within the intensive care unit (ICU): pharmacist involvement at every turn, April Seitler, Jordan DeWitt, Jessica Kynky

8-036 Retrospective analysis of intravenous calcium administration at an academic medical center, Lauren M. Shitanishi, Robert W. Plambeck, Megan Dethlefsen, Lee E. Morrow, Mark A. Malesker

8-037 Outcomes of implementation of the ABCDEF bundle in a neurological critical care unit, Ting-Ting Wu, Man-Tzu M. Wu, Yu-Hsueh Wu

► **Drug Information/Drug Use Evaluation**

8-038 Treatment of thrombocytopenia with avatrombopag prior to elective procedures; single center real-world experience, Susan M.K. Lee, Martina Selwaness

8-039 Safety study of cefazolin sodium pentahydrate for injection clinical application, Jin Li, Meijun Li, Zhanao Yang, Weiwei Zhang, Ning Chen

8-040 Patients' willingness to pay for pharmacy services: a cross-sectional study in a foreign investment private hospital in Guangzhou, Jin Li, Congwei Chen, Jie Chen, Junjie Li

8-041 Safety study of Ulinastatin for injection clinical application, Jin Li, Ling Chen, Mingjuan Hua, Meijun Li

8-042 Drug use evaluation of the polypharmacy of long-acting injectable antipsychotics at Saint Elizabeths Hospital, Leatrice K. Martin-Stebbins, Helena (Hyun) Lee, Qutina Lewis, Ali Dalili, James Park

8-043 Evaluating the use of an oral vitamin K antagonist in a county health system and assessing the appropriate shift to direct acting oral anticoagulants (DOACs), Jacqueline Y. Milton-Brown, Erika Bergeron, Andrea Henry

8-044 Development of a medical information (MI) team to support a large injectable product portfolio, Prachi Parmar, Sukhdip Toor

8-045 Evaluation of the reading level of commonly used drug information tertiary references, Emily Perez, Kelly L. Covert, Paul O. Lewis

8-046 **Estimating renal function for drug dosing: equations matter**, Maria Rei, Laura Fernandes, Catia Pereira, Rui Rodrigues, Rita Vilaverde

8-047 **Knowledge, attitude and practice of generic drug substitution by Lebanese community pharmacists**, Joanna H. Rizkallah, Mariam K. Dabbous, Nathalie R. Lahoud, Fouad R. Sakr

8-048 **Retrospective evaluation of the appropriateness of use of ceftolozane/tazobactam at a tertiary care teaching hospital**, Cynthia J. Sadaka, Rony M. Zeenny, Ulfat Usta, Petra Khoury

8-049 **Retrospective evaluation and risk factors of trastuzumab related adverse cardiac events**, Chunhui Wang, Jing Li, Wei Wu, Xiaoyu Li, Qianzhou Lv

8-050 **Benchmarks, baselines, and brass tacks: using data to change physician prescribing practices**, Heather Warhurst, Adam D. Boon, Gina Bazemore, Dawn Moore

8-051 **Evaluation of intravenous vitamin K 10mg vs. other doses and routes in the treatment of coagulopathy in cirrhosis patients**, Nada Zaki, Maria Cardinale

8-052 **Knowledge and awareness of use and safety of isotretinoin among Lebanese patients in community setting: a cross-sectional study**, Ghena Zorkot, Seham Kanaan, Nathalie Lahoud

► Emergency Medicine

8-053 **Thrombotic events and reanticoagulation in major bleeding patients treated with andexanet alfa: an ANNEXA-4 sub-analysis**, Wendy Re, Truman J. Milling, Elena Zotova, Patrick Yue, Stuart J. Connolly

8-054 **Hemostatic efficacy and anti-factor Xa reversal with andexanet alfa in spontaneous intracranial hemorrhage**, Wendy Re, Andrew M. Demchuk, Juliet Nakanya, Patrick Yue, Stuart J. Connolly

8-055 **Contribution of coagulation factors in prothrombin complex concentrates to tissue factor-initiated thrombin generation in normal and factor Xa inhibitor-anticoagulated plasma**, Wendy Re, Joyce Lin, Khanh Bui, John T. Curnutte, Pamela B. Conley

8-056 **Implementation of antimicrobial stewardship project in emergency department**, Sara Mahmoud, Adham Mohamed, Riyas Mohamed, Rana El Sayed

8-057 **Use of andexanet alfa for intracranial hemorrhage at a community hospital**, Jaclyn Palummo, Viktoriya Fridman, Christopher Capo, Bradley Pulver, Tamir A. Tawfik

8-058 **Implementation of a pharmacist-driven discharge culture review service for a remote site emergency department**, Jenna Tjernlund, Jessica Tonder, Kimberly Levang, Luke Dandelet

► Emergency Preparedness

8-059 **Ensuring readiness for emergencies**, Jennifer L. Brandt, Margaret A. Breakenridge, Anil K. Kishore

8-060 **Managing occupational exposures across a health system with a multidisciplinary and standardized approach**, Erin Taylor, Sean Illig, Peter Settevendemie, Khalilah Fullard, Brendan Crandall

► Infectious Disease/HIV

8-061 **A two-month pilot of an antimicrobial stewardship rotation at a university medical center in Lebanon**, Wissam Kabbara

8-062 **The effect of an indication-based default antimicrobial stop-date initiative on the duration of treatment for intra-abdominal infections**, Jessica N. Lambert, Christopher Fronczek, Jonathan Grey, Kerry Marr

8-063 **Impact of utilizing a once-weekly non-infectious disease trained pharmacist on the implementation and execution of antimicrobial stewardship program at a small community hospital**, Susan J. Lewis, Jennifer L. Richardson, Tanyanyiwa W. Chinyadza

8-064 **Implementation of a multidisciplinary strategy to reduce meropenem utilization at a community hospital**, Kevin Maeda, Richard Jajeh, Katherine Shea

8-065 **Impact of clinical pharmacy implementation in surgical ward – Qatar**, Sara Mahmoud, Ziad Ibdah, Falak Naeem, Ibrahim Al Nadhari, Osama Abdeljaleel

8-066 **Impact of a pharmacy resident rotation on outpatient parenteral antimicrobial therapy (OPAT) prior to patient discharge**, Monica Mahoney, Rachel S. Britt, Jeffrey C. Pearson, Christopher McCoy, Simi Padival

8-067 **Ceftriaxone vs. levofloxacin for the treatment of urinary infections in hospitalized adults**, Cody Maldonado, Jeffrey Jansen, Riley Grubbs, Christopher Gilstrap

8-068 **Lefamulin vs. moxifloxacin for community-acquired bacterial pneumonia: by-region results of lefamulin evaluation against pneumonia (LEAP) 1 and LEAP 2 double-blind noninferiority phase 3 clinical trials**, David Mariano, Elizabeth Alexander, David Fitts, Christian Sandrock, Thomas M. File

8-069 **Targeted education of evidence-based usage guidelines to drive down inappropriate fluoroquinolone and ceftaroline prescribing**, Kelly S. Mueller

8-070 **Prohibition on the use of vancomycin in combination with piperacillin/tazobactam arrested a cluster of acute kidney injuries in a community hospital**, Kelly S. Mueller

8-071 **Impact of methicillin-resistant *Staphylococcus aureus* nasal screening on vancomycin utilization in respiratory diagnosis-related groups**, James Nicholson, Katherine Shea, Donald Branam, Allie Torrence, Holly Lowe

8-072 **Identification of risk factors for infections with multi-drug-resistant organisms**, Regine Padilla, Hee Jae Chung, Kyung Kim

8-073 **Current evaluation of pilonidal abscess microbiology in the emergency department**, Emily Pavich, Tanya Abi-Mansour

8-074 **Trend and effectiveness of hepatitis C therapy with direct-acting antiviral agents (DAAs) in Taiwan**, Chao-Chi Peng, Kai-Cheng Chang, Hui-Yu Chen, Zhi-Yuan Wu

8-075 **Novel, effective, and sustainable pharmacist practice model for antimicrobial stewardship**, Pegah Pourgolafshan

8-076 **Kansas antimicrobial stewardship initiative (ASI): a novel way to collect antimicrobial use and resistance data**, Neil M. Ratcliff, Bryna Stacey, Bradley Killough, Robyn Regan

8-077 Assessment of colistin-associated nephrotoxicity at a tertiary care teaching hospital: a retrospective study, Cynthia J. Sadaka, Rony M. Zeenny, Ulfat Usta, Petra Khoury

8-078 Superiority of clinical and economic outcomes with oritavancin vs. comparators for treatment of acute bacterial skin and skin structure infections in a small community hospital, Kimberly Saddler, Miguel Sierra-Hoffman, Jennifer Sul, Jason Zhang

8-079 Monte Carlo analysis of cefepime-zidebactam, cefazidime-avibactam, and ceftolozane-tazobactam against carbapenem-resistant Enterobacteriaceae and assessment of susceptibility breakpoints, Madison Salam, Roger L. White

8-080 Point prevalence survey of health-associated infections and antimicrobial use in a public health institution in Trinidad, Patricia I. Sealy, Shinelle C. Francois, George Legall

8-081 Identifying “low hanging fruit” antibiotic stewardship opportunities for pharmacists in small and critical access hospitals, Katherine Shea, Jennifer Van Cura

8-082 Pharmacist and provider education on beta-lactam allergies decreases aztreonam utilization in a community hospital, Krista L. Shepherd, Elizabeth J. Legros

8-083 The association of clinical pharmacists’ active participation in antimicrobial stewardship with the incidence of antimicrobial related adverse events in hospitalized patients: multicenter study, Yewon Suh, Young-Mi Ah, Jee-Eun Chung, Eunsook Lee, Ju-Yeon Lee

8-084 Advancing the pharmacist’s role in preventing healthcare facility-onset *C. difficile*, Carrie S. Tilton, Nicole L. Metzger, Mary Elizabeth Sexton, Chunhui Gu, Zhengjia (Nelson) Chen

8-085 Comparative Monte Carlo analysis of cefepime alone and in combination with VNRX-5133 against resistant Gram-negative pathogens, Meghan White, Roger L. White

► **Informatics/Technology/Automation**

8-086 Designing and implementing a CPR calculator to improve patient safety and enhance workflow efficiency, Mohammed A. Almeziny, Saleh A. Binobaid, Ip Fan

8-087 Development of electronic ordering process to ensure safe use of continuous subcutaneous insulin infusions in hospitalized patients, Megan E. Anderson-Tilbury, Anh Hoang, Sarah Odom, Glenda Sims, Vera L. Taylor

8-088 Impact of a computerized intravenous chemotherapy concentration calculation program, Eunyoung Choi, Sinae Park, Minhui Seo, Sooyeon Lee, Taewon Yoon

8-089 Evaluation of the impact of enhanced virtual forms and gamification on intervention identification in a pharmacist-led ambulatory care clinic, Courtney E. Gamston, Joshua C. Hollingsworth, Brent I. Fox, Sylvia Rogers, Kimberly B. Lloyd

8-090 Automated dispensing cabinet management as an efficiency and cost savings initiative, Paul T. Green, Laura Aylor, Elliot Marino, Victoria Nosowicz

8-091 Efficiency of drug management after the introduction of automated dispensing cabinets (ADCs), Dayeon Lee, Eunsook Bang, Younghée Lee

8-092 Review of current digital health products for cardiovascular monitoring, Yujin Lee, Puja Darji, Nikhil Sangave, Dhiren Patel

8-093 Optimizing clinical decision support tools through a targeted evaluation of drug-drug interaction alerts in the 2015 Epic electronic health record (EHR), Joseph R. Martin, Harminder Sikand

8-094 Evaluation of stock outs after utilization of inventory optimization predictive analytics: multi-site retrospective data analysis, Ahmed Y. Naguib, Serdar Ayar, John Folker, Aryana Sepassi

8-095 Collaboration of clinical informatics and information services to create pharmacist training curriculum for an electronic health record inpatient oncology module implementation, Alice Robbins, David Lennon, Beejal Ganti

8-096 Application of days-supply-on hand algorithm defines par levels to right-size pharmacy inventory in a community hospital pharmacy, Leonid Sokolskiy, David Dirig, Crystal Castaneda, Tam Ngo

8-097 The integration of IV robotics for compounding chemotherapy at a large academic medical center, Abbey Stackpole, Marta Stueve, Ju-Young Song, Eric Cabie, Howard Cohen

8-098 Implementation of the first automated dispensing cabinets at a tertiary academic medical center in Lebanon; challenges and compliance with the ISMP standards, Ulfat Usta

8-099 Effect of a smart pill lid on medication persistency, adherence, and pharmacist intervention for patients receiving ibrutinib therapy, Janelle R. Vircks, Kelly Matthews, Eric Sredzinski

8-100 Development and evaluation of an automated robotic system for preparing antineoplastic drugs, Hiroyuki Watanabe, Toshihiro Irisa, Toshikazu Tsuji, Nobuaki Egashira, Satohiro Masuda

► **IV Therapy/Infusion Devices**

8-101 Time matters: assessing duration of time required for wireless updates to infusion pump drug library, Mohammed Al-Sukhni, Krista Shea

8-102 Unintended primary infusion from incomplete closure of administration set back-check valves at various head-height differentials and secondary flow rates, John Beard, Eric Flachbart, Jim Jacobson

8-103 Smart pump drug library compliance improvement over one year in a community hospital system, John Beard, Jaclyn Jeffries, Stacy Carson, Valerie King

8-104 Communication of alarms through smart pump alarm forwarding technology enables task and care prioritization while reducing clinical staff alarm fatigue, Doug S. Hum, John Beard, Stephanie Eisenhauer, Valerie King

8-105 Standardized approach to implementation of infusion pump interoperability, Tara K. Jellison, Rebecca Mahuren

8-106 Evaluation of key performance indicators between facilities with and without smart pump-electronic medical record (EMR) interoperability: a multi-site retrospective data analysis, Ahmed Y. Naguib, Idal Beer, Sneh Ringwala, Nicole Wilson

8-107 Model-predicted netupitant plasma concentrations following intravenous (IV) NEPA, fosnetupitant-palonosetron, administration: safety considerations for the administration timing of IV NEPA antiemetic prophylaxis, Timothy Tyler, Alberto Bernareggi

► **Oncology/Hematology**

8-108 Implementation of a chemotherapy compounding robot in a community ambulatory oncology infusion center and evaluation of its impact on turnaround time, Amanda Kage, Jessica Marshall, Lisa Opatik, Cecilee Billman, Jennifer Rohde

8-109 Real-world prevalence of potential drug-drug interactions involving oral antineoplastic agents in Korea: a population based study, Ju-Yeun Lee, Kwanghee Jun, Sung Hwan Kim, Woo Youn Kim, Yewon Suh

8-110 A retrospective review of an oxaliplatin desensitization protocol, Andrew Leung, Chung-shien Lee, Craig Devoe, Anna Levy, Samrah Ahmad

8-111 Why are we waiting? Lead times for parenteral systemic anti-cancer therapy, Brid Ryan, Jennifer Howell, Ciaran Meegan

8-112 Oxaliplatin-induced thrombotic microangiopathy: a case report, Rhea Saad, Audra Hannun, Sally Temraz, Antoine Finianos, Rony M. Zeenny

8-113 Prevalence of polypharmacy and potentially inappropriate medication use in older patients with cancer: a population-based study, Yewon Suh, Young-Mi Ah, Kwanghee Jun, Woo Youn Kim, Ju-Yeun Lee

8-114 Safety of 90Y-ibritumomab tiuxetan treatment in Japanese patients in clinical practice, Hiroshi Yoshikawa, Hiroshi Sakurashita, Takanori Taogoshi, Hiroaki Matsuo

► **Pain Management/Palliative Care**

8-115 Part-filled opioid prescriptions reduced opioids dispensed from community pharmacies after orthopedic surgery, Vivian Law, Sarah Ward, Bokman Chan, Shawna McIntyre, Elizabeth Logan

8-116 Effect of a 24-hour intravenous acetaminophen restriction on opioid consumption in post-operative patients, Kevin Maeda, Erin Doxtater, Bradley Mathis

8-117 Analysis of the clinical effectiveness of IV acetaminophen within Catholic Health Initiatives, Henry Mattern, Karen J. McConnell, James Reichert

8-118 Examine the impact of intravenous acetaminophen on opioid use for postoperative Cesarean section patients in a community hospital, Lorenzo M. Porras, Claudia Chang, Mercedes Frias, Yarelys Garcia

8-119 Implementation of a multimodal pain order set and use of therapeutic activity goal as an inpatient opioid reduction strategy: from pilot to national initiative, Kati Shell, Florian Daragjati, David Silver, Karen Smethers, Lynn Eschenbacher

8-120 Use of lidocaine for renal colic in a community hospital, Jean Stoerger

8-121 Pain range order analgesic protocol improves post-operative pain management in laparoscopic appendectomy patients, Tzong-Kwei Yau, Jin-Jin Mou

► **Pediatrics**

8-122 Assessment of the knowledge and perception of probiotics use in acute infectious diarrhea in children among Lebanese pediatricians, Sara I. Abdel Samad, Aya A. Hashem Taleb, Nathalie Lahoud, Marwan G. Akel, Ahmad I. Dimassi

8-123 Knowledge and awareness of mothers regarding reconstitution, administration, and storage of antibiotic suspensions for pediatrics: a cross-sectional study in Lebanon, Fadi M. Hodeib, Mohammad Assi, Rim Harb, Roba Koubeissy, Diana Malaeab

8-124 Comparative analysis of acute bronchitis medicines application in pediatric outpatient between public and private hospitals, Jin Li, Jie Chen, Yun Dai, Tianheng Liang, Jianping Zhang

8-125 Assessing effects of neonatal hypoglycemia protocol change to oral glucose gel administration, Charity R. McGannon, Melissa Kunkel, Natalie Baird, Hillary Threatt

8-126 Assessment of outpatient palivizumab compliance rates after discharge following a pharmacist reminder call to primary care providers, Sukhraj Mudahar, Thomas Moran, Kenny Kronforst

8-127 Comparison of mean morphine milligram equivalents in pediatric patients undergoing appendectomy, external ventricular drain placement, and spinal fusion repair that received oral vs. intravenous acetaminophen, Sukhraj Mudahar, Hehui Quan, Thomas Moran, Christine Stake, Renee Manworren

8-128 Parental knowledge and practice on fever and use of antipyretics: a cross-sectional study in Bekaa Valley, Lebanon, Sahar A. Nasser, Fardous H. Tohme, Mariam K. Dabbous, Nathalie Lahoud, Fouad R. Sakr

8-129 Successful implementation of an antibiotic stewardship program in the neonatal intensive care unit of a middle-income country, Therese Saad, Faouzi Maalouf, Ramia Zakhour, Dina Itani, Khalid Yunis

8-130 Evaluation of pharmacist-driven discharge medication delivery and counseling in a pediatric hospital, Kreshnik Seiti, Victoria Lubarsky

8-131 Standardization of antifungal prophylaxis in pediatric patients with cancer, Paige Shapiro, Nicole Lubcke, Caroline Quinn

► **Precepting/Preceptor Skills/Education and Training**

8-132 Using reflective accounts to identify the psychosocial effects of placebo-based medication adherence simulation, Rina Matala, David J. Wright, Judy Croot, Jane Charsley

8-133 Evaluating the effectiveness of using a web-based video and audio conferencing cloud platform to conduct an interactive lecture remotely to pharmacy students in Japan, Makoto Matsuura, Shunsuke Toyoda, Daphnie Nguyen, Takeshi Onodera, Hiroshi Takahashi

8-134 Simulated inter-professional clinical decision-making during the pre-registration training year to enhance multi-professional working: a service evaluation, Roisin McMenamin, Mohamed Jawad Dungersi, Maria Christou, David J. Wright

8-135 Reaping the rewards of a health-system pharmacy observership program, Kathryn N. Pidcock, Allison Wilson, Michelle Murillo, Van-Anh Le, Thuy Doan

8-136 Using SBAR to improve clinical communication skills in fourth-year pharmacy students, Savannah K. Posey, Jessica Brady, Cassie Crew

8-137 Prescription renewal request review as a learning tool for APPE ambulatory care pharmacy students, Jarred B. Prudencio, Michelle S. Kim

8-138 The role of a medical mission trip on student perceptions of interprofessional collaboration, Genene Salman, Christina Herbas, Corina van de Pol, Elvin A. Hernandez

8-139 Developing foundation residencies, Diane Sandulache

8-140 East of England pre-registration trainee pharmacist programme: an evaluation of online teaching modules, Hattie Whiteside, Rina Matala, David Wright

Psychiatry/Neurology

8-141 Quality of life of Lebanese post-stroke patients, Rawan Kobeissi, Salwa Sandakli, Nathalie Lahoud, Sylvia Saade

8-142 The use of long-acting injectable (LAI) antipsychotics for maintenance treatment of schizophrenia, Qutina S.M. Lewis, Helena Lee, Leatrice Martin-Stebbins, Ali Dalili, James Park

8-143 Initiation of methadone maintenance treatment, Hien Luong, Anastasiya Plagova

8-144 Assessing the mental health wellness of pharmacy residents in a university-affiliated residency program, Roxanna Perez, Lisa Goldstone, William C. Gong

8-145 Exercising restraint in prescribing pharmacologic restraints, Kristen S. Webb, Dustin Spencer, Jennifer Van Cura, Rachael Lowery

8-146 Comparison of long-acting injectable antipsychotics in preventing 30-day hospital readmission in an acute care psychiatric hospital, Xiaojuan Yuan, Maria Arredondo

► **Safety/Quality**

8-147 Incidence, nature, and causes of medication errors reported at the largest academic healthcare setting in Qatar: data from 13 hospitals, Moza Al Hail, Binny Thomas, Pallivalappila Abdulrouf, Wessam Elkasseem, Derek Stewart

8-148 Comparison and evaluation of the improvement in decreasing dispensing errors at King Abdulaziz Medical City (KAMC) – Riyadh (2017 vs. 2018) through safety reporting system, Saleh Al-Anazi, Khalil Almajed, Ameerah Alsaleh, Mohammed Alrufaiq, Ashjan Alghanem

8-149 Description of pharmacists' therapeutic intervention in King Abdulaziz Medical City (KAMC) and King Abdullah Specialized Children Hospital (KASCH) in Riyadh, Saudi Arabia, Tahani Alsufian, Haya Almufirj, Sara Almowalad, Maryam Altukhaim, Majed Nahari

8-150 Development of an environmental monitoring plan for hazardous drugs using a rapid point-of-care lateral flow technology to detect surface contamination in a community hospital, Katharine A. Cimmino, Joan Cheung

8-151 An evaluation of student pharmacist admission medication histories at a level 1 trauma, academic medical center, Bernadette R. Cornelison, Stephanie Campbell, Victoria Chang

8-152 Safety of intravenous push ertapenem compared to intravenous piggyback at a tertiary academic medical center, Michael Corrado, Kevin Anger, Kevin McLaughlin, Andrew Riselli, Paul M. Szumita

8-153 Compounding of an oral suspension of clonidine hydrochloride 20 µg/mL for neonatal patients using tablets and a self-contained wet-milling technology, Joe B. D'Silva, William L. Boyko, Edmund J. Elder, Michael Pugacz, Tina Marie Wise

8-154 Compounding of oral liquid formulas of two hazardous drugs, tacrolimus 1 mg/mL and hydroxyurea 100 mg/mL, using unopened capsules and a safe self-contained technology, Joe B. D'Silva, Jean-Marc Forest, Mihaela Friciu, Denis Lebel, Gregoire Leclair

8-155 Medication errors reported among home healthcare patients in Qatar, Wessam Elkasseem, Pallivalappila Abdulrouf, Moza Al Hail, Derek Stewart, Binny Thomas

8-156 Implementation of an automated naloxone co-prescribing program within a large rural healthcare network, Amanda L. Engle, Amanda R.M. Winans, Kevin Frevele

8-157 Can selective serotonin reuptake inhibitors make you bleed? Laura Fernandes, Isabel Estudante, Andreia M. Duarte, Cláudia Santos

8-158 Assessment of perioperative vancomycin use in orthopedic surgical patients with a history of penicillin allergy: a retrospective review of penicillin skin testing, Sara Griesbach, Megan Fagan, Rana Nasser, Mary Sundby, Megan Wimmer

8-159 Driving safety and compliance through implementation of the infusion super panel, Ambra M. Hannah, Gina Gayed, Lucy Von Korff, Danielle Fraser, Trey Jenkins

8-160 Impact of a therapeutic interchange program on discharge medication reconciliation, Kimberly Joedicke

8-161 Parenteral nutrition standardization for adult patients at a large health system, Indrani Kar, Jodie Fink, Wes Bush, Madison Bluemel, Rachael Lerman

8-162 Adherence to a procalcitonin-guided algorithm for antibiotic management in lower respiratory tract infections and sepsis, Farah Khan, Corinne Thornton, Kumar Lal, Alan Gross, Susan Bleasdale

8-163 Peri-operative redesign to increase patient access and medication safety: pharmacy-driven telehealth medication reconciliation support, EunJi Ko, Maha Alharbi, Fatema Alrashed, Twilight Cofield, Kate Ulbricht

8-164 Medication-use evaluation regarding the current intravenous immunoglobulin (IVIG) administration practices within Michigan Medicine, Paul J. Ko, Bianca Campbell, Dylan Kakos, Abby Wilson, Melinda Cook

8-165 Comparative analysis of lenalidomide vs. thalidomide in multiple myeloma: drug-induced peripheral neuropathy, Sohee Lee, Ji Yun Woo, Ok Yeon Han, Shin Yi Hwangbo

POSTER PRESENTATIONS CONTINUED

8-166 USP <797>: environmental monitoring excursions, investigations, action plans, and taking a “mulligan,” John J. Lubkowski

8-167 Coping with medicine shortages: different pathways — one goal, Nenad Miljković

8-168 Pharmacist education on oral anticoagulant medication: a patient satisfaction survey, Dearbhla Murphy, Mariosa Kieran, Ciaran Meegan

8-169 Pregabalin and gabapentin drug utilization review at the Mater Misericordiae University Hospital, Dearbhla Murphy, Mariosa Kieran, Ciaran Meegan

8-170 An observational review to evaluate the appropriateness of stress ulcer prophylaxis continuation in cardiothoracic patients post intensive care unit discharge, Maria Murphy, Mairead Casserly, Mariosa Kieran, Ciaran Meegan

8-171 Cost savings associated with switching from enteric to film-coated prednisolone, Marie O. Halloran, Jennifer Brown, Maríosa Kieran, Ciarán Meegan

8-172 Review of insulin event reports and proposal of risk mitigation strategies across a national healthcare organization, Elizabeth Papa, Melissa Diamond, Karen Smethers, Lynn Eschenbacher

8-173 Enhancing neuromuscular blocker safety: a multimodal approach, Erin Pender, Melissa Gabriel

8-174 Implementation and evaluation of a medication transfer bag process to improve rate of medication transfer between inpatient units, Sierra C. Schmidt, Xiaoxue (Snow) Nehrbass, Sneha Kumar, Rosemary Duncan, Samuel E. Culli

8-175 An exploration into a pharmacist-led medicines reconciliation service: a service review in an acute hospital setting, Claire Shine, Ciaran Meegan, Mariosa Kieran

8-176 Improving medication safety reporting with event taxonomy changes, April R. Stefanell, Melissa M. Diamond, Karen Smethers

8-177 Interventions on drug-related problems identified from prescriptions dispensed in private community pharmacies in Singapore, Poh Leng Tan, Dewi Azura Hussain, Christine Bee Choon Teng

8-178 Evaluating the ISO 80369-3 (ENFit) enteral connection system for implementation at a large non-profit health system, Jeffrey Thomas, Ronda Machen, Renee Reid, Melissa Diamond, Karen Smethers

8-179 Audit of oral anticoagulant (OAC) prescribing in the mater misericordiae university hospital (MMUH): what has changed in four years? Jayne Tuthill, Maríosa Kieran, Patricia Ging, Ciarán Meegan

8-180 Inpatient sedative/hypnotic medication usage in a community hospital, Dolly Valliath, Jean Stoerger

8-181 Decontamination of hazardous drug residues from stainless steel using a sporicidal disinfectant, Mark Wiencek, Michael Bedenbaugh

8-182 Optimizing composite medication event data reporting in a large national non-profit health system, Neil A. Wood, Melissa M. Diamond, Karen Smethers, Lynn Eschenbacher, Clariecia Groves

8-183 Memes for health: a millennial approach to health literacy using the CDC clear communication guidelines, Jewel S. Younge, Ashley Choi, Faiz Rehman, Nathaniel Wong

► **Transplant/Immunology**

8-184 Potential drug-drug interactions between tacrolimus and direct acting antivirals sofosbuvir/velpatasvir and glecaprevir/pibrentasvir in kidney transplant patients during hepatitis C treatment, Tung Huynh

8-185 C1 esterase inhibitor-induced pulmonary embolism in a patient with hereditary angioedema, Justin Reinert

8-186 Association between vitamin D level at time of renal transplant and subsequent rejection, Michael L. Spinner, Lu Wang, Brian Stephany

ACKNOWLEDGMENTS

ASHP Officers and Board of Directors

Kathleen S. Pawlicki, President
Thomas J. Johnson, President-elect
Kelly M. Smith, Immediate Past President
Christene M. Jolowsky, Treasurer
Paul W. Abramowitz, Chief Executive Officer

Kristina L. Butler
Stephen F. Eckel
Julie A. Groppi
Nishaminy Kasbekar
Linda S. Tyler
Paul C. Walker
Casey H. White
Leigh A. Briscoe-Dwyer, Board-elect
Jamie S. Sinclair, Board-elect

2019–2020 Pharmacy Practice Section and Forum Executive Committees

ASHP Section of Ambulatory Care Practitioners

Zachary A. Weber, Chair
Mollie A. Scott, Immediate Past Chair
Jessica W. Skelley, Chair-elect
Erika E. Smith, Director-at-Large
Jaclyn A. Boyle, Director
Jamie J. Cavanaugh, Director-at-Large-elect
Paul C. Walker, Board Liaison
Melanie R. Smith, Director

ASHP Section of Clinical Specialists and Scientists

Aaron L. Steffenhagen, Chair
Audrey R. Kennedy, Immediate Past Chair
Joe; C. Marrs, Chair-elect
Katelyn R. Dervay, Director-at-Large
Jodi L. Taylor, Director-at-Large
Karen Berger, Director-at-Large-elect
Julie A. Groppi, Board Liaison
Victoria "Vicki" Basalyga, Director

ASHP Section of Inpatient Care Practitioners

Douglas A. Meyer, Chair
Todd D. Lemke, Immediate Past Chair
Gregory P. Burger, Chair-elect
Susan J. Skledar, Director-at-Large

Sarah S. Stephens, Director-at-Large
Allison R. King, Director-at-Large-elect
Nishaminy Kasbekar, Board Liaison
Erika L. Thomas, Director

ASHP Section of Pharmacy Informatics and Technology

Samm V. Anderegg, Chair
Maritza D. Lew, Immediate Past Chair
Seth W. Hartman, Chair-elect
Barry M. McClain, Director-at-Large
Benjamin J. Anderson, Director-at-Large
Carol L. White, Director-at-Large-elect
Kristina L. Butler, Board Liaison
Amey C. Hugg, Director

ASHP Section of Pharmacy Practice Leaders

Samuel Calabrese, Chair
Kristine K. Gullickson, Immediate Past Chair
Philip W. Brummond, Chair-elect
Robert P. Granko, Director-at-Large
Lindsey B. Amerine, Director-at-Large
Lindsey R. Kelley, Director-at-Large-elect
Stephen F. Eckel, Board Liaison
David Chen, Senior Director

ASHP Section of Specialty Pharmacy Practitioners

JoAnn Stublings, Chair
Matthew H. Rim, Chair-elect
Tara N. Kelley, Director-at-Large
Scott L. Canfield, Director-at-Large
Sheena F. Babin, Director-at-Large-elect

Christene M. Jolowsky, Board Liaison
David Chen, Senior Director

ASHP New Practitioners Forum

Tyler Vest, Chair
Kellie Musch, Vice Chair
Megan Adelman
Claire Latiolais
Carolyn Magee

ASHP Pharmacy Student Forum

Sara Bonenfant, Chair
Jeffery Clark, Vice Chair
Jenny Nguyen
Sara Scott
Nicholas Tomlinson

ASHP Pharmacy Technician Forum

Tara McNulty, Chair
Glen Gard, Vice Chair
Chadi Abbas
JoAnne Myhre
Rafael Roman

2018-2019 ASHP Section Educational Steering Committees

ASHP Section of Ambulatory Care Practitioners

Kristi Kelley, Chair

Michelle Hilaire, Vice Chair

Amber Lanae Martirosov (Smith), Immediate Past Chair

Kristina (Kristy) L. Butler

Jennifer Clements

Amber Fisher

Karen Gunning

Cassie Heffern

Amy Henneman

Jaime Hornecker

Diana Isaacs

Anne Misher

Cheyenne Newsome

Binita Patel

Haley Phillippe

Carol Rollins

Brian Shepler

Betsy Shilliday

James Wang

Kristin Watson

Charlene Williams

Laura M. Traynor, Executive Committee Liaison

ASHP Section of Clinical Specialists and Scientists – Year-Round Education

Gretchen Lindsey, Chair

Karen Berger, Vice Chair

Christi Jen

Denise Kelley

Blake Porter

Krista Rieger

Suprat Saely

Jamielyn Sebaaly

Bhavik Shah

Jessica Starr

Karen Whalen

Douglas Slain, Executive Committee Liaison

ASHP Section of Clinical Specialists and Scientists – Meeting Planning

Karen McConnell, Chair

Melody Berg, Vice Chair

Kevin Anger

Elizabeth Dow

Michael Gabay

Joel Marrs

Megan Musselman

Deirdre (Dede) Pierce

Nathaniel Rhodes

Eve Segal

ASHP Section of Inpatient Care Practitioners

Benjamin Laliberte, Chair

Nicole Clark, Vice Chair

Delia Carias, Immediate Past Chair

Kelly Bach

Martha Boger

Sandeep Devabhakthuni

Indrani Kar

Darlette Luke

Sheheryar Muhammad

Jacqueline Olin

John Petrich

Jennifer Robertson

Karyn Sullivan

Asha Tata

Amber Zaniewski

Linda Spooner, Executive Committee Liaison

ASHP Section of Pharmacy Informatics and Technology

Carol White, Chair

Julie Pawola, Vice Chair

Doina Dumitru

Thomas Fagan

Barbara Giacomelli

Karl Gumpfer

Jamie Hoffman

Denis Kitayama

Brandee Livingston

Michael Palone

Beth Prier

Margaret Schmidt

Seth Hartman, Executive Committee Liaison

ASHP Section of Pharmacy Practice Leaders

Kate Schaafsma, Chair

Ellen (Prichard) Revak, Vice Chair

Ashley Duty

Heather Easterling

James Lund

Kelly Martin

Kuldip Patel

Erick Sokn

Jennifer Van Cura

Samuel Calabrese, Executive Committee Liaison

The ASHP Federal Forum Planning Committee

William M. (Mike) Heath, Chair

Christopher Ellison

Julie Meek

Christopher Mendoza-Truong

Paul Michaud

Aaron Middlekauff

Anthony P. Morreale

Chirag Patel

Session Proposal, Poster, and Management Case Study Reviewers

Mohammed Abutaleb	Jill Comeau	Kerry Goldrosen	Polly Kintzel	Anna Morin	Rex Schimpf
Glen Albracht	Kelly Conn	Karen Gorman	Bonnie Kirschenbaum	Oussayma Moukhachen	Bhavik Shah
Michael Alwan	Stephanie Conway	Robert Granko	Thomas Kirschling	Robert Moura	Brandon Shank
Mary Amato	Thomas Cooley	Alexander Gray	Mark Klang	Kelly Mullican	Valerie Sheehan
Charity Anicete-Pena	Lourdes Cuellar	Shannon Gray	Amy Knoblock	Lee Murdaugh	Ted Simper
Varintorn Aramvareekul	Gary Dalin	Michael Gulseth	Joanne Kowiatek	Megan Musselman	Jamie Sinclair
Regina Arellano	Michele Danish	Karl Gumpfer	Kristi Kuper	Allison Naso	Mark Siska
Richard Artymowicz	Ruth Dapaah-Afriyie	Karen Gunning	Janel Larew	Cheyenne Newsome	Susan Skledar
Ramadas Balasubramanian	Jeremy DeGrado	Cyrine Haidar	Rodna Larson	Jaclyn Ng	Angela Smith
Silvana Balliu	Annie Desai	Genevieve Hale	Brian Latham	Elaine Nguyen	Melanie Smith
Jeffrey Barletta	Travis Dick	Lauryl Hanf-Kristufek	Henry Lederer	Lynda Nguyen	Maureen Smythe
Victoria Basalyga	Brandon Dionne	Elizabeth Hasegawa	Bernard Lee	Y. Nh Nguyen	Jillian Snyder
Greg Bauer	Bethany DiPaula	Angela Haskell	Lauren Lees	Ellen Nickel	Pamela Stamm
Kim Benner	Ernest Dole	Daniel Hays	Anna Legreid Dopp	Natasha Nicol	Aaron Steffenhagen
Snehal Bhatt	Julie Dopheide	Margaret Heger	Todd Lemke	Jacqueline Olin	Doug St. John
Michelle Bilger	Rebecca Dudley	Tadd Hellwig	James Leonard	Kristin Orr	Seth Strawbridge
Marianne Billeter	Doina Dumitru	Molly Heneghan	T. Vivian Liao	Chris Oswald	Christie Stuhmer
Donna Bingham	Christopher Edwards	Christy Henry	Erin Loesch	Carolyn Oxencis	Meghan Swarthout
Melissa Blair	Lea Eiland	Carol Heunisch	Karly Low	Doug Oyler	Aiyda Sweedan
Temeka Borden	Maguy El Hajj	Rachael Hiday	Sheryl Lowery	Daniel Padgett	Paul Szumita
Sara Bork	Zane Elfessi	Brian Hoff	Georgia Luchen	Lois Parker	Rebecca Taylor
Eric Bou	Thomas Ellington	Amy Holmes	Sherry Luedtke	Steven Pass	Whitney Thomas
Janet Bramell	Christopher Ellison	Julie Holstad	Jaime Hornecker	Hina Patel	Eric Tichy
Patrick Bridgeman	Jason Ellison	Nancy Huff	Nancy Huff	Amy Paul	Crystal Tom
Mitchell Buckley	Michael Fadeyi	Amey Hugg	Elyse MacDonald	Jennifer Pauley	Laura Traynor
Aaron Burton	John Fanikos	Peter Hughes	Sima Madhiwala	Daisy Peterson	Dennis Tribble
Adriana Cabrera	Kate Farthing	Eric Ip	Monica Mahoney	William Turner	
Sam Calabrese	Jeff Fish	Diana Isaacs	Deborah Maka	Jennifer Petrie	Linda Tyler
Shauna Camacho	Joshua Fleming	Sherin Ismail Atta	Mark Malesker	Barbara Petroff	Ann Ungerman
Rachel Campbell	Katie Flowers-Choate	Christi Jen	Fancy Manton	Dawn Pettus	Alexa Valentino
Delia Carias	Michelle Fraley	Paul Jensen	Shannon Manzi	Jennifer Phillips	John Valgus
Jenna Carmichael	Anli Francis	William Jessee	Eric Maroyka	Elizabeth Pogge	Leigh Vidrine
Lee Carsello	Michael Gabay	Tania John	Christina Martin	Ryan Prouty	Laura Wachter
Theresa Catalano	Sarah Gaffney	Kerri Johnson	Kevin Marvin	Claudia Rakhman	Lindsay Wagner
Kevin Chamberlin	Jason Gallagher	Milica Jovic	Erin McAllister	Cassandra Redmond	Matthew Wanat
Juliana Chan	Alyssa Gallipani	Asha Kalichira	Helen McKnight	Morgan Rikli	David Warner
Olivia Chandler	Michael Ganio	Seema Kapadia	Milena McLaughlin	Brittany Riley	Kristin Watson
Shirley Chao	Elizabeth Garfield	Indrani Kar	Christine McLellan	Renee Robinson	Kathryn Weber
Andrea Chbeir	Jennifer Gass	Rebecca Kavanagh	Melodi McNeil	Denise Rodriguez	Shelly Wiest
John Clark	Dennis Gates	James Keeler	Michael McQuade	Carol Rollins	Sheila Wilhelm
Nicole Clark	Brett Geiger	Beth Keeney	Arpit Mehta	Stephanie Root	Kristine Willett
Mary Petrea Cober	Traci George	Michael Kendrach	Nisha Mehta	Gordon Sacks	Marc Willner
Elizabeth Cohen	Barbara Giacomelli	Andrew Kessell	Gary Milavetz	Deborah Sadowski	Sara Wolf
Angela Colella		Kazuhiko Kido	Aimee Mishler	Jawad Saleh	Jennifer Wright
		Patricia Kienle	Karen Mlodzeniec	Connie Saltsman	Barbara Young
			Donald Moore	Cynthia Sanoski	

S P O N S O R S

ASHP would like to extend a special thanks to the following sponsors:

DIAMOND LEVEL



Sponsoring ASHP TV & Hotel Keys

PLATINUM LEVEL



Sponsoring Shuttle Bus
Clings & Mobile App
Push Notifications



Omnicell

Sponsoring Recharging
Stations & Column Clings

GOLD LEVEL



Sponsoring Meeting Lanyards



Sponsoring ASHP LIVE! Mobile App



Sponsoring Meeting
Registration Bags

SILVER LEVEL



Sponsoring
Meeting Badges



Sponsoring Exhibit Hall Banner,
Lobby Banner & Hotel Door Hangers

ADDITIONAL SPONSORS



Sponsoring Floorstickers



Sponsoring Meterboards



Sponsoring Table Clings



Sponsoring Mobile App
Push Notifications



Sponsoring Exhibit Hall
Banner



Sponsoring Floor Stickers
& Lobby Banner



Sponsoring Meterboards



Sponsoring Lobby Banner



Sponsoring Table Clings

ASHP STAFF IN ATTENDANCE

Akilah Strawder, Senior Accreditation Services Associate, Accreditation Services Office

Alicia Ross, Senior Project Manager, Special Projects, Office of Professional Development

Amey Hugg, Director, Section of Pharmacy Informatics and Technology, Member Relations Office

Amy Erickson, Program Manager, Communications, Office of Marketing and Communications

Amy Ruth Cole, Senior Director, Strategic Communications and Content, Office of Marketing and Communications

Andrea Haron, Accreditation Services Associate, Accreditation Services Office

Andrea Roberson, Director, Process and Quality Improvement, Accreditation Services Office

Angela Abraham, Project Manager, Project Management, Office of Professional Development

Angela Raval, Director, Scientific Projects, Office of Professional Development

Anita Lonesome, Senior Production Manager, Certification Resources, Office of Professional Development

Anna Legreid Dopp, Director, Clinical Guidelines and Quality Improvement, Center on Medication Safety and Quality

Anne Policastro, Director, Membership and Affiliate Relations

Aretha Hankinson, Director, Media Relations, Office of Marketing and Communications

Autumn Gordon, Customer Relations Analyst, Information Systems Technology

Barbara Nussbaum, Vice President for Research and Education, ASHP Foundation

Basma Fayyad, Senior Executive Manager, Office of the Chief Operating Officer and Senior Vice President

Bayli Larson, Executive Fellow in Association Leadership and Management, Office of the Chief Operating Officer and Senior Vice President

Bethany Hart, Learning Management System (LMS) Manager, Office of Professional Development

Brad Pierson, Senior Director, CareerPharm, Office of Professional Development

Brennan Dalecki, Assistant Director, Web Communications, Office of Marketing and Communications

Brian Esuchanko, Senior Manager, Educational Programs, Educational Services Division

Bruce Hawkins, Editorial Director, Office of Policy and Planning

Carla Brink, Director, Scientific Projects, Office of Professional Development

Catherine Klein, Director, Education Development and Outcomes, Office of Professional Development

Cheri Zollicoffer, Education Project Coordinator I, Educational Services Division

Cheryl Imlirie, Director, Executive Office

Chris Jezowski, Institutional Sales Representative, Office of Marketing and Communications

Christina Francisco, Director, Digital Marketing and Strategy, Office of Marketing and Communications

Christina Martin, Director, New Practitioners Forum, Office of Member Relations

Chuck Lebioda, Manager, Customer Relations Management, Customer Relations and Materials Management

Claudia Carson, Meetings Coordinator, Conference and Convention Division

Colette Bevis, Senior Learning Management System (LMS) Manager, Office of Professional Development

Cynthia Odegard, Accreditation Services Associate, Accreditation Services Office

Cynthia Von Heeringen, Director, Educational Programs II, Educational Services Division

Dana Zook, Assistant Director, Program Development, Office of Professional Development

Daniel Cobaugh, Vice President, Publishing and Editor in Chief, AJHP

David Chen, Senior Director, Section of Pharmacy Practice Leaders, Pharmacy Practice Sections

David Warner, Director, Center on Practice Development, Practice Advancement Office

Devyn Turner, Project Manager, Certification Resources, Office of Professional Development

Diane McCleskey, Director, eLearning and Logistics, Office of Professional Development

Doug Huynh, Director, Federal Legislative Affairs, Government Relations Division

Douglas Scheckelhoff, Senior Vice President, Office of Practice Advancement

Edward Millikan, Director, Product Development and Maintenance, eHealth Solutions; Clinical Informaticist

Eric Grace, Director, Standards Development and Training, Accreditation Services Office

Eric Maroyka, Director, Center on Pharmacy Practice Advancement

Erika Thomas, Director, Section of Inpatient Care Practitioners, Pharmacy Practice Sections

Fran Byrnes, Director, Conference and Convention Division

Giovana Peroni, Senior Manager, Meetings and Travel, Conference and Convention Division

Hannah Vanderpool, Vice President, Member Relations

Hector Coronado, Web Design Manager, Web Communications, Office of Marketing and Communications

Holly Byrnes, Director, Scientific Projects, Certification Resources, Office of Professional Development

Jacqui Hakooz, Project Manager, Special Project, Office of Professional Development

Janet Silvester, Vice President, Accreditation Services Office

Jeffery Shick, Senior Director, eHealth Solutions; Clinical Informaticist

Jennifer Perrell, Project Manager, Project Management, Office of Professional Development

Jessica Cremer, Senior Manager, Meetings and Logistics, Conference and Convention Division

Jill Haug, Director, Educational Strategy and Special Projects, Office of Professional Development

Jillanne Schulte, Director, Federal Regulatory Affairs, Government Relations Division

Jim Carlson, Accreditation Services Associate, Accreditation Services Office

JoAnn Stacy Harris, Director, Educational Services Division

John Heberlein, Senior Vice President and Chief Financial Officer, Finance Office

Johnna Hershey, Director, Publications Production Center

Jovonna Wallace, Customer Relations Analyst, Information Systems Technology

Julie Webb, Senior Vice President, Office of Professional Development

Karin Cushman, Director, Product Marketing, Office of Marketing and Communications

ASHP STAFF IN ATTENDANCE CONTINUED

Karly Low, Executive Fellow in Association Leadership and Management, Office of the Chief Operating Officer and Senior Vice President

Kasey Thompson, Chief Operating Officer and Senior Vice President, Office of Policy and Planning

Kate Traynor, News Writer, News Center; AJHP, Office of Policy and Planning

Katie Bowles, Social Media Strategist, Office of Marketing and Communications

Katrin Fulginiti, Director Operations, Accreditation Services Office

Ken Harding, Manager, Operations, Office of Professional Development

Kevin Shroyer, Assistant Director, Human Resources Division

Kim Cackowski, Senior Project Manager, Certification Resources, Office of Professional Development

Kristi Hofer, Senior Director, Scientific Projects, Certification Resources, Office of Professional Development

Kristy Counts, Project Coordinator, Executive Office

Lisa Lifshin, Senior Director, Pharmacy Technician Accreditation & Residency Services, Accreditation Services Office

Lisa Lucas, Manager, Educational Programs, Educational Services Division

Lois Witkop, Chief Marketing Officer and Vice President, Office of Marketing and Communications

Luke Mitchell, Director, Enterprise Applications, Information Systems Technology

Lynnae Mahaney, Director, Pharmacy Accreditation, Office of Practice Advancement

Mahmoud Alsubu, Director, Technology Infrastructure and Desktop Services, Office of Information Technology

Maritza Matheus, Manager, Market Research, Office of Marketing and Communications

Martha Crews, Vice President for Development, ASHP Foundation

Martha Russell, Senior Director, Project Management, Office of Professional Development

Mary Kate McGinty, Accreditation Services Associate, Accreditation Services Office

Maryam Mohassel, Managing Editor, AJHP

Melanie Smith, Director, Section of Ambulatory Care Practitioners, Member Relations

Mia Roundtree, Customer Relations Analyst, Information Systems Technology

Micaela Bresler, Executive Fellow in Association Leadership and Management, Office of the Chief Operating Officer and Senior Vice President

Michael Ganio, Director, Pharmacy Practice and Quality, Center on Medication Safety and Quality

Michelle Bonnarens, Senior Director, Program Development, Office of Professional Development

Michelle Rasnick Tyler, Senior Manager, Exhibits and Affiliate Events, Conference and Convention Division

Mirela Almonte, Manager, Meetings and Travel, Conference and Convention Division

Mitsi Lizer, Accreditation Services Associate, Accreditation Services Office

Nancy Gregory, Senior Content Strategist, Office of Marketing and Communications

Naomi Michaelis, Senior Manager, Government Relations Division

Nicholas Gentile, Director, State Grassroots Advocacy and Political Action, Government Relations Division

Paul Abramowitz, Chief Executive Officer

Paul Busby, Senior Desktop Support Engineer, Office of Information Technology

Paula Tiedemann, General Counsel, Senior Vice President & Chief Compliance Officer, Executive Office

Quyen Dinh, Manager, Integrated Marketing, Office of Marketing and Communications

Rachael McGarry, Senior Program Manager, Membership, Member Relations Office

Randy Manos, Senior Manager, CareerPharm, Office of Professional Development

Robert Rossecrans, Chief Information Officer and Vice President, Office of Information Technology

Robert Tremmel, Director, Educational Programs I, Educational Services Division

Sandra Oh Clarke, Senior Director, Certification Resources, Office of Professional Development

Sean Abell, Marketing Manager, Membership, Office of Marketing and Communications

Seth Strawbridge, Clinical Informaticist, eHealth Solutions

Shana Martin, Manager Meeting Services, Conference and Convention Division

Shelby Giles, Communications Specialist, ASHP Foundation

Sophia Chhay, Strategic and Innovative Initiatives Associate, Office of the Chief Operating Officer and Senior Vice President

Stacey Thompson, Assistant Director, Executive Office

Stacy Boyer, Project Manager, Certification Resources, Office of Professional Development

Stephanie Brown, Director of Programs, ASHP Foundation

Stephen Ford, Director, Residency Accreditation, Accreditation Services Office

Stephen Rubloff, Chief Executive Officer, ASHP Foundation

Susan Francis, Accreditation Services Associate, Accreditation Services Office

Tom Kraus, Vice President, Office of Government Relations

Tony Martin, Director, Scientific Projects, Project Management, Office of Professional Development

Tracy Yaklyvich, Controller/Director, Financial Management Division

Tyffani Wingfield, Director of Member Engagement, Member Relations Office

Vanessa Gripper, Education Project Coordinator I, Educational Services Division

Verna Reed, Director, Customer Relations and Materials Management

Vickie Yarborough, Project Manager, Project Management, Office of Professional Development

Warren Parris, Senior Project Coordinator, Office of the General Counsel

Yvonne Yirka, Project Manager, Certification Resources, Office of Professional Development



PRESENTER DISCLOSURES

Presenters, program chairs, planners, reviewers, ASHP staff, and others with an opportunity to control CE content are required to disclose relevant financial relationships* with commercial interests.

A commercial interest is any entity producing, marketing, re-selling, or distributing healthcare goods or services consumed by or used on patients.

In accordance with these standards, all actual conflicts of interest have been resolved prior to the continuing education activity taking place. ASHP will disclose financial relationship information to meeting attendees prior to the beginning of the educational session.

Only the individuals indicated below have something to disclose. All other presenters, program chairs, planners, reviewers, staff, and others with an opportunity to control CE content have nothing to disclose.

Maria Foy

Daiichi Sankyo: Speaker's Bureau

Jeffrey Fudin

AcelRx Pharmaceuticals: Advisory Board; Acutis Diagnostics, Inc.: Speaker's Bureau; BioDelivery Sciences International: Advisory Board, Consultant, Speaker's Bureau; Daiichi Sankyo: Advisory Board, Consultant, Speaker's Bureau; Firstox Laboratories: Consultant; GlaxoSmithKline (GSK): Advisory Board; Kaléo: Advisory Board; Quest Diagnostics: Advisory Board; Salix Pharmaceuticals: Advisory Board; Scilex Pharmaceuticals: Advisory Board

Kathleen Gura

Baxter: Advisory Board, Consultant; Braun: Consultant; Fresenius Kabi: Consultant

Melody Hartzler

BD: Consultant; Janssen: Speaker's Bureau; Novo Nordisk: Speaker's Bureau; Valeritas: Speaker's Bureau

Elora Hilmas

Medaction Plan: Consultant

Dennis Killian

Baxter Healthcare: Speaker's Bureau; Coherus: Speaker's Bureau; Omnicell: Advisory Board, Advisory Committee/Board Member, Speaker's Bureau; Xellia: Advisory Committee/Board Member

Tina Moen

IBM Watson Health: Employee

Janessa Smith

Shionogi: Advisory Board

*A relevant financial relationship is defined as a financial relationship between the individual in control of content (or their spouse/partner) and a commercial interest, in any amount, in the past 12 months, and products/services of the commercial interest (with which they have the financial relationship) are related to the continuing education activity.



P R E S E N T E R I N D E X

A

Abbasi, Ghalib	72
Achev, Thomas S.	109
Acquisto, Nicole M.	79, 98
Aiuppa, Laura	66
Allen, Arthur L.	97
Allen, Michelle E.	98
Alvey, Nicole	77
Amaka, Ogechukwu	75
Ambizas, Emily M.	100
Amerine, Lindsey B.	83
Anderson, Sarah L.	85, 108
Andros, Christina C.	82
Andrus, Miranda R.	112
Angel, Alexandra	52
Atkinson, Timothy J.	87
Avdic, Edina	96

B

Bach, Kelly M.	90
Badamas, Rilwan	110
Bajorek, Sarah A.	69
Baker Jr., William L.	87
Barber, Katie	108
Barickman, John P.	78
Barletta, Jeffrey F.	53, 115
Barrett, Eileen	67
Baumann, Blake W.	110
Baye, Jordan	84
Belford, Sylvia	72
Bell, Chris	86
Berei, Theodore J.	87
Berg, Melody L.	98
Berger, Karen	102
Betz, Christopher	65, 87
Bhakta, Sunny	75
Bhatt, Snehal H.	65, 87
Bienvenida, Ana Maria	88
Blackmer, James S.	70
Blackwell, Joshua	51
Blackwell, Sarah B.	103
Blaszczyk, Amie	79
Boddupalli, Dhruv	99
Bolesti, Scott	105
Bonenfant, Sara	50, 52, 53
Bowden, Ashley	77

Boyd, Anthony

70, 91

Brinser, Emily

93

Brock, Jeff

114

Brown, Andrea L.

107

Brown, Hannah

98

Brown, Marie

67

Brown, Tim

110

Bruce, Bradley D.

109

Bubalo, Joseph S.

89

Buller, Jerry

110

Burgess, Hayley

80

Burnworth, Melinda (Mindy) J.

50, 112

Burton, Danielle T.

106

Butkiewich, Laura E.

70

Butler, Katerina

97

C

Caballero, Joshua

52

Campbell, Robert C.

96, 107

Canaday, Bruce R.

98

Cardone, Katie E.

111

Carpenter, Jasmine

83

Carqueville, Bradley

91

Carroll, Dana

79

Casale, Jillian P.

77

Cassano, Angela T.

95

Cavanaugh, Jamie J.

104

Cavanaugh Jr., Joseph B

104, 105

Chalmers, Jeffrey

72

Chantarapanont, Sean

76, 91

Charbonneau, Lacey

107

Chavez, Benjamin

103

Chen, David

83

Chester, Kathleen W.

115

Chisholm, Julia M.

103

Cho, Jonathan C.

54, 71

Chou, Jason

91

Choudhary, Kavish J.

77, 99

Chung, Arlene

67

Ciaccia, Antonio

94

Ciampa, Katherine A.

106

Ciarkowski, Scott L.

88

Clark, Carolynn

101

Clark, Jeffrey F.

50, 51, 52, 53

Clark, John S.

69

Clark, Lindsey

76

Clark, Nicole

70

Clements, Jennifer N.

111

Coffey, Cynthia

67

Cohen, Michael R.

96, 105

Cole, Jaculin L.

113

Collins, Curtis D.

115

Colmenares, Evan W.

110

Conway, Lindsay

83

Cook, Aaron M.

47, 65

Cookson, Nathan A.

54, 71

Corrigan, Megan

82

Cowan, Debra L.

55, 71

Crismon, M. Lynn

66

Crist, Mark

115

Clark, Lindsey

76

Clark, Nicole

70

Clements, Jennifer N.

111

Coffey, Cynthia

67

Cohen, Michael R.

96, 105

Cole, Jaculin L.

113

Collins, Curtis D.

115

Colmenares, Evan W.

110

Conway, Lindsay

83

Cook, Aaron M.

47, 65

Cookson, Nathan A.

54, 71

Corrigan, Megan

82

Cowan, Debra L.

55, 71

Crismon, M. Lynn

66

Crist, Mark

115

Dunn, Somya

85

Duong, Benjamin Q.

80

Dys, Rabiah

113

E

Edwards, Christopher J.

79

Efird, Leigh

88

Eiland, Lea S.

50

Elavsky, Megan

48, 74

Elefritz, Jessica L.

83

Ellis, Kelsie

53

Ellis, Patrick N.

102

Ellison, Christopher

73

Enderby, Cher

91

Engle, Janet P.

76

Erdner, Deborah

51

Erstad, Brian L.

79, 101, 115

F

Fagan, Thomas

109

Farthing, Kate

46

Ferreira, Jason A.

82

Fink, Jodie

80

Fjortoft, Nancy F.

108

Flynn, Allen J.

72

Fortier, Christopher R.

96, 99

Fox, Erin R.

90

Foy, Maria

49, 74, 108

Francis, Susan D.

46

Franz, Noah J.

95

Fraser, Gilles L.

105

Friemel,

93

Adriianne Maxine

Fritsch, Michelle A.

86

Frost, Derek A.

90

Fudin, Jeffrey

75, 87

Fuller, Patrick D.

109

G

Gaffney, Sarah M.

98

Gamroth, Emily

110

Ganio, Michael

68, 88, 104

Gegorski, Bridget

70

Gentile, Nicholas

87

Ghomeshi,

80

Katayoon Kathy

Giannakos, Maria

102

Gilmore, James

77

Ginsburg, Diane B.	112
Giulietti Jr., Mario	80
Green, Richard L.	95
Grego, Amanda R.	78
Griffis, Craig W.	110
Grissinger, Matthew	101, 105
Griswold, Cassia	48, 67
Gross, Benjamin N.	111
Grow, Amanda	96
Gumpper, Karl F.	109
Gunning, Karen M.	100, 101
Gura, Kathleen M.	80
H	
Haber, Stacy L.	87
Hager, David	77
Haidar, Cyrine E.	98, 113
Hall, Amanda	106
Hall, Ted	73
Hanni, Claudia	49, 76
Hanrahan, Conor T.	101
Hansen, Amanda	69, 91
Haron, Andrea W.	46
Hartzler, Melody L.	94
Hassett, Leza	85
Hatfield, Joanne	109
Hatwig, Christopher A.	78
Haumschild, Ryan J.	90
Hayes, Genevieve	96
Heath, William M.	73
Helmons, Pieter J.	84
Hennes, Emily	48, 67
Herndon, Christopher	92
Hertig, John B.	50, 96
Hess, Liz	81
Hess, Mary	50
Hilaire, Michelle L.	80, 112
Hill, Brandon K.	49, 70, 75
Hill, John D.	109
Hilmas, Elora	80, 94
Hinojosa, Gabe	52
Hisham Basheer, Mohamed	81
Hockings, Jennifer K.	113
Hoffman, James M.	72, 90
Holmes, Amy	52, 98
Horak, Petr	81
Horbowicz, Kevin J.	74

Hornecker, Jaime R.	92
Hornig, Amy	91
Houseman, Brandon S.	106
Huang, Vanthida	112
Hughes, Kaitlin M.	77
Huynh, Douglas	87
I	
Iarossi, Nicole	51
Iglar, Arlene	82
Isaacs, Diana	94, 98
J	
Janczak, Don R.	111
Jarrett, Jennie B.	53, 67
Jeffres, Meghan N.	80
Jen, Christi	82
Jenkins, Matthew T.	107
Johnson, Megan	52
Jolly, Jacob A.	88
Jomoc, Tiffany V.	106
Jones, Elzie J.	110
Jones, G. Morgan	115
Jones, Heather	90, 93
Jordin, Robert C.	81
Jorgenson, Terri	110
Jozefczyk, Kenneth G.	108
K	
Kalata, Lindsay	81
Kastango, Eric S.	78, 88
Kelley, Kristi W.	94
Kelley, Lindsey R.	53
Kelly, Kimberly	54, 71
Kenney, Chris	99
Kenney, Rachel	108
Kent, Stan	78
Kienle, Patricia C.	81, 88, 95
Kiester, Marci	94
Killian, Dennis	109
King, Allison	94
Kirschenbaum, Bonnie	111
Knoer, Scott J.	90
Kofroth, Tiffany A.	95
Kral, Lee	49, 74, 87
Kraus, Tom	87
Krebs, Erin E.	110
Kronz, Margaret	80
Krop, Lynne C.	92
Kuchik, Natalie	80
Kufel, Wesley D.	51

L	
Lanza, Julie F.	69
Lassiter, Joseph	69
Le, Jennifer	64
Leary, Mary-Haston	91, 110
Lee, Chung-Shien	67
Lee, Sarah	78
Legendre, Davey	113
Lemke, Todd	52
Leon, Nicholas	107
Levin, Bonnie	78
Lewis, Daniel A.	93
Liberto, Rhonda	88
Lillyblad, Matthew P.	87, 98
Lim, Dennison	106
Lin, Pei Jen	91
Lindsey, Wesley	87
Lipari, Melissa	49, 76
Liverman, Rochelle S.	77
Lockman, Kashelle	102
Lodise, Thomas	64
Long, Michael J.	92
Lucas, Amber J.	91
Lucio, Steven	96
Lupi Jr., Kenneth	114
Lusardi, Katherine T.	70, 84
Lyons, Mark	95
M	
MacDonald, Nancy C.	88
MacLaren, Robert	105
MacLaughlin, Eric J.	93
Madere, Natalie	98
Magee, Carolyn A.	47, 48, 65, 74
Magee, Michael	108
Mahan, Charles "Kurt"	104
Mahoney, Monica V.	84
Mains Espinosa, Ashley	78, 86
Malone, Patrick M.	87
Manning, Dana H.	80
Mansur, Jeannell	55, 71, 111
Maroney, Megan	103
Maroyka, Eric M.	69, 81
Marrs, Joel C.	85, 97, 103
Martin, Christina Y.	66
Martin, Peter	95, 100
Martin, Steve A.	104
N	
Naples, Scott	90
Naso, Allison	92
Nelson, Scott D.	106
Neuenschwander, Mark	78

PRESENTER INDEX CONTINUED

Ng, Karen	82
Nguyen, Jenny	50
Nicol, Natasha	81, 101
Njigha, Emmanuel	110
Nolen, Agatha	93
Nunez Cruz, Stephany N.	106

O

OBrien, Shea	99
O'Connor, Shanna K.	92
Odinet, Johlee S.	80
Olin, Jacqueline L.	113
Olson, Jeffery L.	95
O'Mara, Keliana	86
Otero, Jessica	104
Ovesen, Jerald L.	68
Oxencis, .	48, 66, 83, 89
Carolyn J	

P

Palamara, Nancy	65
Panic, Jenny	80
Pappas, Ashley L.	90, 112
Parihar, Vikas	82
Park, Michelle A.	110
Parrott, Ashley M.	104
Pass, Steven	46
Patel, Hina	105
Patel, Jina	80
Patel, Kuldip R.	90
Patel, Rachana J.	109
Patel-House, Sheetal	112
Patterson, Rebecca L.	105
Pawlicki, Kathleen S.	66
Pedersen, Craig A.	104
Pentz, Clint	76
Peters, Steve G.	72
Petrovskis, Kriss	95
Petry, Natasha J.	84
Philips, Eli	106
Phillips, Beth	46
Pinner, Nathan A.	98
Piskun, Matthew	82
Pleva, Melissa	105
Pons, Daniel	70, 85
Pop, Marianne	48, 68
Priftanji, Dorela	85

R

Randazzo, Maggie	70
Raub, Joshua N.	88
Ray, Lance	106
Ready, Selena	85
Reed, Brent N.	84, 87
Reed, Susan	111
Reilly, Patrick	87
Reiter, Jennifer	95
Riley, Leslie A.	114, 115
Risoldi Cochrane, Zara	87
Ritchie, Marylyn D.	72
Roberts, Beth	111
Roberts, Martha J.	98
Robertson, Jennifer	89
Rockstad, Molly L.	111
Rodriguez, Ryan	98
Roen-Kim, Amy	101
Rollins, Carol J.	101
Root, Rachel	85
Roussel, Christine	108
Rudd, Kelly	113
Rupp, Tracy A.	94
Rybak, Michael J.	64

S

Sadowski, Deborah	54, 71, 112
Saleh, Dalia	102
Sanoski, Cynthia A.	80
Santiago, Erin K.	113
Saseen, Joseph J.	97
Schaafsma, Kate M.	77, 90
Scheckelhoff Sr., Douglas J.	104
Schiller, Daryl	65
Schneider, Philip J.	104
Schulte Wall, Jillanne	87, 94
Scott, Mollie A.	86
Scott, Sara A.	50, 51
Sebaaly, Jamie C.	103
Seckel, Ellina	111
Segal, Eve	89
Sen, Sanchita	95
Sey, Mark	106
Shah, Bhavik M.	103
Shah, Sneha	69
Shane, Rita	69, 90

Shank, Brandon	51, 83
Shuman, Andrew G.	96
Sihota, Aaron S.	79
Sikand, Harminder	46
Silverman, Ed	99
Simonian, Jill	73
Simonson, Debbie H.	78
Sipe, Amy S.	97, 108
Sisitka, Victoria	67
Siska, Mark H.	72
Sisson, Evan	101
Skildum, Mark S.	51
Slabach, Brock	54, 71
Slown, Kristin	98
Smith, Andrew P.	48, 68
Smith, Brandon J.	112
Smith, Chad	90
Smith, Charlotte A.	68
Smith, Janessa M.	96
Smith, Lilit	90
Smith, Thomas R.	103
Smith, Tiffany T.	96, 103
Sokn, Erick	94
Sorensen, Todd D.	80
Srinivasan, Arjun	68
Starr, Jessica	82
Steinbrenner, Jenny	102
Stephens, Sarah	69
Stollings, Joanna L.	96
Stottlemeyer, Rebekah M.	82
Street, Joni	113
Stump, Amy L.	112
Subramaniam, Vaiyapuri	107
Sullivan, Louisa K.	106
Sun, Jeanne	107
Swarthout, Meghan D.	47, 65, 69, 88
Sylvester, Katelyn W.	114

T

Taddei-Allen, Patty	64
Taylor, Janice M.	104
Tchen, Stephanie	98
Teaford, Hilary	109
Thiel, Jeff	99
Thomas, Christopher	73
Thomas, Erika	54, 71

Thompson, Megan E.	108
Thorne, Andrew	90
Tichy, Eric M.	65
Tomlinson, Nicholas	51, 53
Torbic, Heather	114

Trinh, Long D.	51
Tryon, Jennifer E.	66
Trujillo, Tate N.	53
Tsaousides, Theo	50
Tuiskula, Kristin A.	80

Tyndall, Benjamin D.	106
U	
Unguru, Yoram	96
Uritsky, Tanya J.	49, 74, 92
V	

VanTrieste, Martin G.	99
Vermeulen, Lee C.	90
Vest, Tyler	74
Vizzi, Caroline	106
Voigt, Lisa M.	82

Volpe, Gwen	106
Von Ruden, Serena A.	114
W	
Wagner, Deborah	74
Walsh, Colin G.	106

Watson, Kristin	107
Wein, Rachel	98
Wells, Lindsay B.	51
West, Lucianne	93
Westhoelter, Shane	53

White, Traci M.	102
Wilhelm, Lisa Hanlon	67
Williamson, Jason	69
Wojtowicz, Richard	103
Wolcott, Michael	48, 69

Wong, Jason T.	85
Wong, Kong	83
Workman, Paul A.	74
Wright, David J.	81
Z	

Zaniewski, Amber	91
Zavaleta, Esteban	81
Zhang, Bo	81
Zhang, Maria	82
Zimmerman, David E.	52, 105

ASHP Pharmacy Competency Assessment Center

ASHP HELPS YOU MANAGE AND MONITOR COMPETENCY TRAINING

SO YOU CAN
FOCUS ON DELIVERING
PATIENT CARE



SUBSCRIBE TO ASHP'S UPDATED AND EXPANDED
PHARMACY COMPETENCY ASSESSMENT CENTER FOR:



Standards-based
skills and
assessments with
administrative
access



Customizable
competency
checklists
based on your
specific needs



Regularly
updated content
at the cutting
edge of
patient care

**SUBSCRIBE
TODAY**

**INSTITUTIONAL
SUBSCRIPTIONS:
\$40/USER
OR LESS**

**VISIT THE
ASHP STORE OR
ASHP.ORG/PCAC**

NOW INCLUDES:

54
competencies

40+
hours of CE

ashp.org/PCAC

COMPLIMENTARY SHUTTLE SERVICE SCHEDULE

NOTE
Estimated
Wait Time:
**15-20
MINUTES**

Service to and from the Mandalay Bay Convention Center

Shuttles Operate
Saturday, December 7
through
Thursday, December 12

	Service Begins	Last Bus Departs	
	Hotel	Hotel	Conv. Center
Saturday	6:30 a.m.	5:00 p.m.	6:00 p.m.
Sunday	6:30 a.m.	5:00 p.m.	6:00 p.m.
Monday	6:30 a.m.	5:00 p.m.	6:00 p.m.
Tuesday	7:00 a.m.	5:00 p.m.	6:00 p.m.
Wednesday	7:00 a.m.	4:30 p.m.	5:30 p.m.
Thursday	8:00 a.m.	2:30 p.m.	3:30 p.m.

Hotel	Route	Boarding Location
1 Aria	3	Tour Bus Lobby
2 Cosmopolitan of Las Vegas	4	Tiffany Lot/Employee Shuttle Area
3 Delano Las Vegas	Walk	Walk to Mandalay Bay Convention Center
4 Excalibur Hotel	5	Rotunda Entrance
5 Four Seasons Hotel Las Vegas	Walk	Walk to Mandalay Bay Convention Center
6 Luxor Las Vegas	Walk	Walk to Mandalay Bay Convention Center
7 Mandalay Bay Hotel	Walk	Walk to Mandalay Bay Convention Center
8 MGM Grand	1	MGM Conference Center Entrance
9 New York-New York	2	Main Entrance
10 Park MGM	2	Tour Bus Area
11 The Signature at MGM Grand	1	MGM Conference Center Entrance
12 Vdara	3	Walk to Aria Tour Bus Lobby



Wheelchair-accessible transportation is available during hours of operation. Call toll free 866-439-8563 to schedule. Allow 30 minutes.



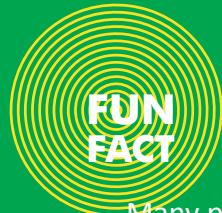
Shuttles managed & operated by **Transportation
Management Services**

The shuttle schedule is subject to change based on usage, traffic, and weather conditions. Check the ASHP LIVE! app and *News & Views* daily for updates to the schedule.

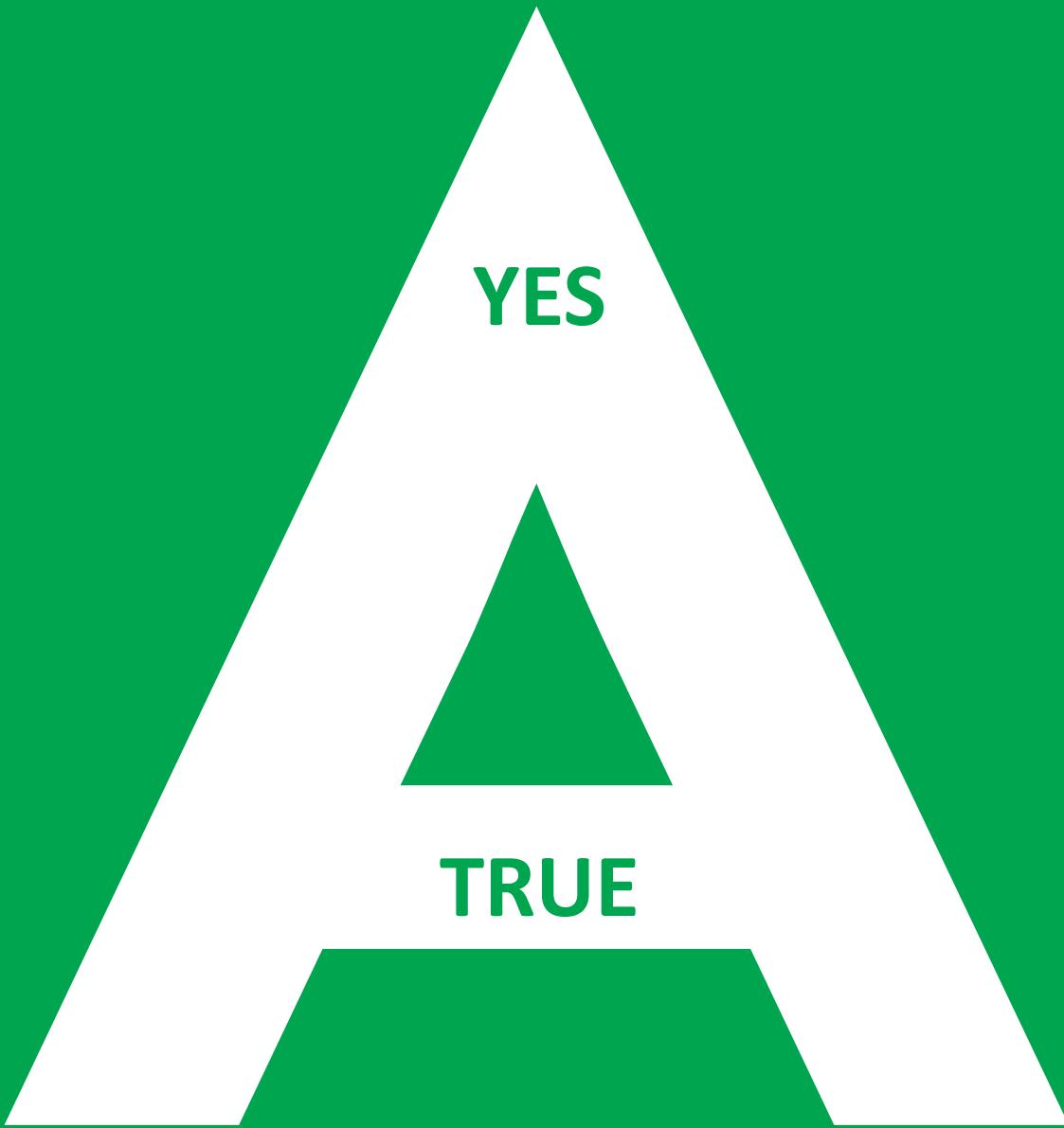


GREEN

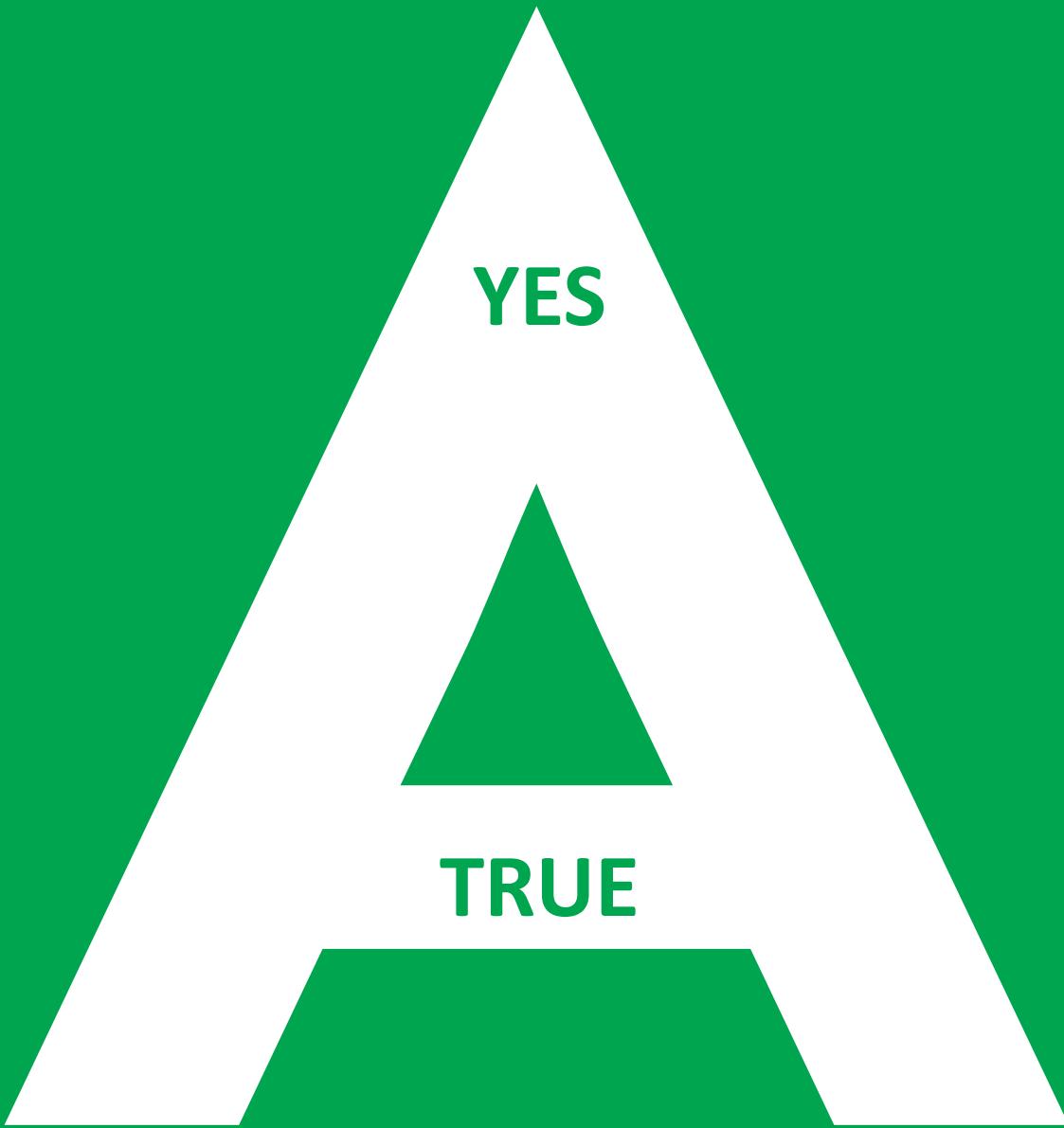
Use these pages
during sessions
with color-card
audience
participation.



Many people know Las Vegas
for its drive-through weddings.
While it's true that 150
couples get married in Las
Vegas every single day, the city,
along with its neighboring city
of Reno, Nevada, are also
recognized as the divorce capital
of the nation.



YES



TRUE

RED

NO

FALSE

**FUN
FACT**

While it is true that many people lose their bets in Las Vegas, FedEx was supposedly saved by way of gambling. Rumor has it that in the 1970s, Fred Smith, CEO of the company, converted \$5,000 into over \$30,000 at the blackjack tables, buying the extra time he needed to raise the funds that would ultimately save the business.

YELLOW

Use these pages
during sessions
with color-card
audience
participation.

FUN FACT

Sixty percent of the world's top hotels are in Las Vegas. If you wanted to stay one night in every hotel room in the city, it would take you nearly 300 years.

BLUE

FUN FACT

The City of Lights has over 15 miles of neon tubes and over 9,900,000 lightbulbs on the Strip alone. Aren't you glad you're not paying that utility bill? Check out some of the amazing lights that are no longer center stage in Las Vegas by visiting the Boneyard at the Neon Museum.

CE TRACKING FORM

54th ASHP Midyear Clinical Meeting & Exhibition, Las Vegas, NV

NOTE: To receive CE credit, you must obtain a unique Attendee ATTENDANCE CODE for each session you attend. The codes are announced only during the live sessions. The staff monitors will also have this information.

ATTENDANCE CODE	Session Name	Hours
■ Sunday, Dec. 8 (AM)		
■ Sunday, Dec. 8 (PM)		
■ Monday, Dec. 9 (AM)		
■ Monday, Dec. 9 (PM)		
■ Tuesday, Dec. 10 (AM)		
■ Tuesday, Dec. 10 (PM)		
■ Wednesday, Dec. 11 (AM)		
■ Wednesday, Dec. 11 (PM)		
■ Thursday, Dec. 12		