Welcome to Internal Medicine Meeting 2019

Dear Colleagues,

Welcome to Philadelphia and ACP’s Internal Medicine Meeting 2019. As the College’s hometown, Philadelphia is the ideal place to commemorate the 100th anniversary of our annual meeting. We are excited to connect great minds from across the country and around the world, offering an exceptional educational experience delivered by world-class faculty. Whatever your specialty, Internal Medicine Meeting provides essential knowledge to keep you updated on the most recent advances in patient care, within your practice area and across all of internal medicine. In addition to attending scientific sessions, you can refresh your skills at the Clinical Skills Center, visit the Exhibit Hall and the ACP Resource Center, take advantage of networking opportunities, and enjoy other educational and cultural events.

Don’t miss these new and innovative events during the meeting this year:

• ACP Clinical Skills Center Open House: Rise, shine, and explore the “Thrills and Skills” epicenter of the meeting. Enjoy complimentary coffee and participate in a scavenger hunt and putting contest for the chance to win prizes, such as an ACP gift card or a free copy of the new MSKAP 18. (Friday, April 12, 7:00-7:45 a.m., Convention Center, Hall C)

• ACP’s Innovation Challenge: Fostering Partnerships between Physicians and Patients: A “Shark Tank” style competition showcasing original ideas that have the potential to transform the practice of internal medicine. Finalists will present submissions to a panel of judges who select the $20,000 prize winner. Attendees will also vote for the winner of a $5,000 Audience Choice prize. (Saturday, April 13, 10:30 a.m.-12:00 p.m., Exhibit Hall DE, Innovation Theater #2)

• Annals of Internal Medicine Story Slam: Inspired by the journal’s popular series of essays, “On Being a Doctor,” this special evening event will feature physicians sharing personal experiences that reflect the human side of medicine. (Wednesday, April 10, 5:30-7:30 p.m., Philadelphia Marriott Downtown, Liberty Ballroom. Free event, tickets required. Light hors d’oeuvres will be served. Cash bar available.)

• Tech Hub: Visit this interactive technology demo area to experience innovative mobile diagnostic tools, telehealth technology, and other digital health applications. Presentations during breaks will showcase practical applications of emerging technologies. (Thursday, April 11-Saturday, April 13, Exhibit Hall DE)

Download the ACP Internal Medicine Meeting 2019 mobile app to build a personalized schedule of sessions and events. Share your experiences at the meeting on social media using the hashtag #im2019.

As internists, our desire for continual learning makes us preeminent clinicians and accomplished diagnosticians. At the Internal Medicine Meeting, we learn together and grow professionally to meet our goal of providing the best patient care. Enjoy ACP’s hometown of Philadelphia, which is full of history, character, cultural offerings and wonderful restaurants. Thank you for your commitment to internal medicine, and I hope the meeting will be professionally and personally rewarding.

Sincerely,

Ana María López, MD, MACP
President
American College of Physicians
Meet Your Keynote Speaker
Vivek H. Murthy, MD, MBA
19th Surgeon General of the United States
We are pleased to welcome Vivek. H. Murthy, MD, MBA as this year’s Keynote Speaker, as we commemorate our 100th Internal Medicine Meeting. Vice Admiral Vivek H. Murthy (@vivek_murthy) served as the 19th Surgeon General of the United States from 2014-2017. As Surgeon General, Dr. Murthy commanded the U.S. Public Health Service Commissioned Corps, a uniformed service of 6,600 public health offices serving vulnerable populations in 800 locations domestically and abroad. During his tenure, he helped address critical public health issues, including the Ebola outbreak, Zika virus, low rates of physical activity, and the e-cigarette epidemic among youth. In 2016, he launched the TurnTheTideRx campaign to combat the opioid epidemic. Dr. Murthy also issued the first Surgeon General’s report on Alcohol, Drugs, and Health to mobilize the nation to address our addiction crisis, and he released the first report on e-cigarette use among youth.
Dr. Murthy has called emotional well-being one of the most important and most underappreciated drivers of health. In particular, he has drawn attention to the profound impact that loneliness and social disconnection have on health, productivity, and education. Dr. Murthy received his bachelor’s degree from Harvard and his M.D. and M.B.A. degrees from Yale. He completed his residency training at Brigham and Women’s Hospital and Harvard Medical School, where he later joined the faculty as an internal medicine physician and instructor. As a clinician–educator, Dr. Murthy has cared for thousands of patients and trained hundreds of residents and medical students.
In addition to clinical practice, Dr. Murthy has dedicated himself to improving health through the lens of service, research, and entrepreneurship. He co-founded VISIONS, an HIV/AIDS education program in India and the United States, and the Swasthya project (“health and well-being” in Sanskrit), a community health partnership in rural India that trained women to be health providers and educators. As a research scientist, Dr. Murthy conducted laboratory research on vaccine development and studied the participation of women and minorities in clinical trials. He also co-founded TrialNetworks, a software technology company that accelerates collaboration in clinical trials.

Internal Medicine Meeting Scientific Program Committee
The following individuals were instrumental in developing the Scientific Program. Their hard work and expertise are evident throughout the program.
Patrick E. Young, MD, FACP, FACC, FASGE, Chair
Rachel P. Brook, MD, Member
Robert K. Cato, MD, FACP
Daniel Dressler, MD, FACP
Stephanie S. Faubion, MD, FACP
Jonathan J. Hogan, MD
Gregory C. Kane, MD, MACP
Lillian F. Lien, MD, FACP
Eileen M. Moser, MD, MACP
Lawrence M. Phillips, MD, FACP
William D. Surkis, MD, FACP
Banu E. Symington, MD, MACP
Michael J. Tan, MD, FACP
Alexandra S. Villa-Forte, MD, FACP
Soma Wali, MD, MACP

ACP Committees and Councils
The College wishes to thank the following ACP Committees and Councils for their assistance in planning and presenting portions of the Scientific Program.
Clinical Guidelines Committee
Clinical Skills Committee
Council of Early Career Physicians
Council of Resident/Fellow Members
Council of Student Members
Ethics, Professionalism, and Human Rights Committee
Health and Public Policy Committee
International Council
Medical Informatics Committee
Medical Practice and Quality Committee
Membership Committee
Multiple Small Feedings of the Mind Work Group
Patient Partnership in Healthcare Committee
Physician Well-Being and Professional Satisfaction Task Force
Volunteerism Committee
Disclosure information for Internal Medicine Meeting 2019 faculty and Committee and Council members is available by downloading the ACP Meetings mobile app from your app store. Select the ACP Internal Medicine Meeting 2019 event and tap **Download Event**. Once inside the event, tap on the **Faculty & Disclosures** icon.
Take the meeting home with you!

Meeting recordings extend your learning experience.

Continue learning after the meeting with scientific and practice-related session recordings from Internal Medicine Meeting 2019. Opt for CME credit and MOC points on selected packages. Recordings are available in a variety of formats to best fit your learning needs.

Visit us at one of our booth locations for special onsite discounts:
- Arch Street Lobby near Room 119
- Terrace Ballroom Lobby

playbackACP.com/im2019

ACP | Internal Medicine Meeting

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Overview of Internal Medicine Meeting 2019

Internal Medicine Meeting 2019 is a multifaceted program. To get the most out of your attendance, familiarize yourself with the overall program and customize a schedule to include the programs and activities that are of most interest to you.

Scientific Program
The heart of Internal Medicine Meeting 2019—more than 200 educational offerings that cover the spectrum of internal medicine.

Clinical Skills Center
Multiple opportunities for interactive learning. Update physical examination skills, learn new office-based procedures, improve your well-being and professional satisfaction, and more.

Programs for Early Career Physicians, Residents/Fellows, and Medical Students
An expansive roster of sessions, programs, and ancillary events are offered throughout the meeting. See pages 77-78 for details.

College Activities
A range of activities, including the Opening Ceremony, Convocation, the Annual Business Meeting, and Alumni and Chapter/Regional social events, is offered. Also look for a variety of networking receptions.

Exhibits
Explore the Exhibit Hall and its rich collection of resources. Learn about the latest products and services to benefit your practice, patients, and professional development. More than 200 companies are represented.

Industry-Supported Additional Learning Opportunities
Learn more about new treatment options for common conditions while enjoying a complimentary meal or snack. Throughout the day, CME and non-CME lectures are offered in various locations. See pages 87-92 for the full schedule and locations.

These industry-supported events are independently organized and are not an official part of the Internal Medicine Meeting 2019 education program.

Learning Formats (Session Codes)

Clinical Pearls (CP)
Faculty present brief clinical cases illustrating important teaching points that are relevant to the practicing internist but not widely appreciated. Attendees assess their clinical judgment by using audience-response keypads to answer case-based questions.

Clinical Skills Workshops (CSW)
Most sessions at Internal Medicine Meeting 2019 are held in large rooms that can accommodate anticipated attendance. However, due to close faculty-learner interaction or hands-on-style education, these small-group workshops have a limited number of seats available. There is no ticket required to attend these workshops; however, it is highly recommended that you arrive at the classroom well in advance of the scheduled start time. Seats will be filled on a first-come, first-served basis.

Note: Clinical Skills Workshops will be held at the Philadelphia Marriott Downtown Hotel located just across the street, and connected by skywalk to, the Pennsylvania Convention Center.

Clinical Triads (CT)
This format builds on the popularity of fast-paced sessions and features three speakers concisely addressing different aspects of an overarching theme. Each session covers topics that are highly relevant to clinical practice.

Meet the Professor (MTP)
Distinguished faculty analyze controversial issues, recent advances, and new developments in selected topics.

Multiple Small Feedings of the Mind (MSFM)
Faculty provide concise, evidence-based answers to common, yet difficult, patient-management problems. Emphasis is on complex or controversial issues frequently faced by practicing internists.

Panels (PN)
Two or more faculty address different aspects of the selected topic or engage in point-counterpoint discussion.

Slide Shows (SS)
Highly visual presentation of selected topics.

Updates (UD)
Analysis of six to twelve of the year’s most important published papers in the subspecialties and related areas.
Internal Medicine Meeting 2019 Program Objectives
At the conclusion of Internal Medicine Meeting 2019, attendees should be able to:

• Assess recent advances in clinical medicine and related sciences in light of the supporting evidence.
• Implement changes in clinical practice in accordance with these advances to improve patient care.
• Improve their clinical skills in performing the physical examination, communicating with patients, and managing clinical information.
• Evaluate changes in the external practice environment and their potential impact on medical practice and patient care, and implement improvements as needed.

Educational Disclaimer
The primary purpose of Internal Medicine Meeting 2019 is educational. Information presented, as well as publications, technologies, products, and/or services discussed, are intended to inform participants about the knowledge, techniques, and experiences of the faculty who are willing to share such information with colleagues. A diversity of professional opinion exists, and the views of Internal Medicine Meeting 2019 faculty are their own and not those of the ACP. Faculty are required to inform the audience if they will be discussing unapproved or investigative use of a commercial product or device. The ACP disclaims any and all liability for damages and claims that may result from participation in courses, sessions, workshops, etc. and/or the use of information, publications, technologies, products, and/or services presented at Internal Medicine Meeting 2019 or distributed in association with the meeting.

Disclosure
It is the policy of the American College of Physicians (ACP) to ensure balance, independence, objectivity, and scientific rigor in all of its educational activities. To this end, and consistent with the policies of the ACP and the Accreditation Council for Continuing Medical Education (ACCME), all those in a position to control the content for all ACP continuing medical education activities are required to disclose any financial relationships that they have with any entity that produces, markets, resells, or distributes health care goods or services consumed by, or used on, patients. Faculty are asked to use generic names in their discussion of therapeutic options. If trade name products manufactured by companies with whom they have relationships are to be discussed, faculty are asked to provide evidence-based citations in support of the discussion. This information is reviewed by individuals who have oversight for portions of the scientific program, and, if necessary, adjustments are made to the topic or faculty to balance the discussion. Further, all participants are asked to evaluate each session for commercial bias so that future decisions about content and faculty are made in light of this information.
ACP is grateful for the support it received from industry for Internal Medicine Meeting 2019. All grants and in-kind contributions are acknowledged on pages 14-15.
All Internal Medicine Meeting 2019 activities designated for category 1 credit are planned by the ACP Internal Medicine Scientific Program Committee and other College committees and councils. Choice of CME topics and selection of faculty are made independent of commercial influence.
Disclosure information for Internal Medicine Meeting 2019 faculty and Committee and Council members is available by downloading the ACP Meetings mobile app from your app store. Select the ACP Internal Medicine Meeting 2019 event and tap Download Event. Once inside the event, tap on the Faculty & Disclosures icon.
Continuing Medical Education (CME) Credit & ABIM Maintenance of Certification (MOC) Points

The American College of Physicians (ACP) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education (CME) for physicians.

The ACP designates each live activity for the number of AMA PRA Category 1 Credits™ listed below. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Internal Medicine Meeting 2019**
30.5 AMA PRA Category 1 Credits™

**Internal Medicine Meeting 2019 Pre-Courses**
One-day Pre-Courses, 7 AMA PRA Category 1 Credits™
Two-day Pre-Courses, 14 AMA PRA Category 1 Credits™

The American Medical Association has determined that physicians not licensed in the United States who participate in this CME activity are eligible for AMA PRA Category 1 Credit(s)™.

The Royal College of Physicians and Surgeons of Canada recognizes conferences and workshops held outside of Canada that are developed by a university, academy, hospital, specialty society, or college as automatically approved as accredited group learning activities.

**ABIM Maintenance of Certification (MOC) Points**
Successful completion of these CME activities, which includes participation in the evaluation component, enables the participant to earn Medical Knowledge MOC points in the American Board of Internal Medicine’s (ABIM) Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity. It is the CME activity provider’s responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC credit.

**Internal Medicine Meeting 2019**
30.5 MOC Points

**Internal Medicine Meeting 2019 Pre-Courses**
One-day Pre-Courses, 7 MOC points
Two-day Pre-Courses, 14 MOC points

**Attend Internal Medicine Meeting 2019—Fulfill State CME Requirements**

**State CME Requirements**
A number of states require CME credit in specific content areas for licensure renewal. To help physicians meet these requirements, letters of participation documenting attendance at these sessions are available online at annualmeeting.acponline.org/CME.

For more information about CME or MOC, stop by the registration area or contact Member and Product Support at 800-ACP-1915 (M-F, 9:00 a.m.-5:00 p.m. ET).

**How to Claim CME Credit and MOC Points**

Claim CME credit for your participation in Internal Medicine Meeting 2019 and the Pre-Courses by completing your CME Documentation Forms online at annualmeeting.acponline.org/CME. Once you have completed the online CME form, your transcript will be accessible in 24 to 72 hours. Viewing your transcript is a benefit of ACP membership.

Earn MOC points equivalent to the amount of CME credits claimed by completing a brief Learner Assessment available online at annualmeeting.acponline.org/CME. The Learner Assessment requires that you reflect on what you learned at the meeting and describe changes that you plan to implement or insights gained. Responses should be meaningful, reflective statements with a minimum of 50 characters. Responses will be reviewed. You will receive a brief follow-up survey at a later date asking you to assess the impact of your reflective statements.

The deadline to claim MOC Points for Internal Medicine Meeting 2019 and the Pre-Courses is December 31, 2019.

To claim MOC points, you must be enrolled in the ABIM Maintenance of Certification (MOC) program. For questions about ABIM’s MOC program, go to www.ABIM.org or contact ABIM at 800-441-2246.
Attending Internal Medicine Meeting 2019 is an excellent way to fulfill your state CME relicensure requirements. Internal Medicine Meeting 2019 meets broad-based state CME requirements, as well as specific content requirements mandated by some states. Contact your state medical board for information on specific requirements in your state. Following are content areas required by many states:

**Cultural Competency**

**A Brief Military History: The Key to Good Health Care for Veterans in Your Practice**
- **CSW 001** Friday 7:00-8:00 a.m. Independence Ballroom II-III (HQ)
- **CSW 002** Friday 11:15 a.m.-12:45 p.m. Independence Ballroom II-III (HQ)

**Challenges in the Medical Care of Immigrants**
- **PN 038** Friday 2:15-3:45 p.m. Room 120

**Ethics and Racial and Ethnic Disparities in End-of-Life Care**
- **PN 019** Friday 8:15-9:15 a.m. Room 108

**Improving Individual and Community Health by Addressing Social Determinants of Health**
- **PN 022** Friday 4:30-5:30 p.m. Room 120

**Practical Tips to Help You Care for Refugees**
- **PN 039** Saturday 2:15-3:45 p.m. Room 114

**Electronic Health Records**

**EHR’s Bigger Picture: Population Health and Patient Management**
- **PN 026** Thursday 8:15-9:15 a.m. Room 119

**Ethical Challenges Role Play: EHRs in the Service of the Patient**
- **PN 018** Thursday 2:15-3:45 p.m. Room 122

**Health IT within MIPS: Advancing Care Information**
- **PN 027** Thursday 11:15 a.m.-12:45 p.m. Room 119

**Hot Topics in Medical Informatics: Technology Trends That Are Reshaping Medicine**
- **PN 028** Saturday 11:15 a.m.-12:45 p.m. Room 119

**Innovations in EHR Education**
- **PN 029** Friday 9:30-10:30 a.m. Room 119

**Telling the Patient’s Story in the EHR World**
- **PN 030** Friday 11:15 a.m.-12:45 p.m. Room 121

**End-of-Life and Palliative Health Care**

**Ethics and Racial and Ethnic Disparities in End-of-Life Care**
- **PN 019** Friday 8:15-9:15 a.m. Room 108

**Palliative Care in the Noncancer Inpatient**
- **MTP 058** Friday 7:00-8:00 a.m. Room 118

**Palliative Care: Optimal Use in the Current World of Oncology**
- **MTP 080** Saturday 9:30-10:30 a.m. Room 120

**Ethics/Professional Responsibility**

**Ethical Challenges Role Play: EHRs in the Service of the Patient**
- **PN 018** Thursday 2:15-3:45 p.m. Room 122

**Ethics and Racial and Ethnic Disparities in End-of-Life Care**
- **PN 019** Friday 8:15-9:15 a.m. Room 108

**Ethics, Deprofessionalization, and Physician Well-Being: “Re-Enchanting” Medicine**
- **PN 020** Friday 11:15 a.m.-12:45 p.m. Room 120

**Improving Individual and Community Health by Addressing Social Determinants of Health**
- **PN 022** Friday 4:30-5:30 p.m. Room 120

**Nicholas E. Davies Memorial Award Lecture: Covert Consciousness and Civil Rights: The Neuroethics of Severe Brain Injury**
- **AL 001** Saturday 9:30-10:30 a.m. Room 108

**Public Policy and the Opioid Epidemic**
- **PN 023** Saturday 9:30-10:30 a.m. Room 115

**Geriatric Medicine**

**Advanced Dementia Management: Challenges and Dilemmas**
- **MTP 029** Friday 9:30-10:30 a.m. Room 115

**The Aging Planet: Impact Upon Health and Healthcare Delivery**
- **PN 024** Thursday 11:15 a.m.-12:45 p.m. Room 118

**Challenges in Geriatric Medication Management: An Interactive Case-Based Workshop**
- **CSW 011** Thursday 4:30-6:00 p.m. Liberty Ballroom C (HQ)
- **CSW 012** Saturday 11:15 a.m.-12:45 p.m. Liberty Ballroom C (HQ)

**Delirium Evaluation and Management in the Hospital**
- **MTP 044** Saturday 4:00-5:00 p.m. Room 108

**Dementia, Incontinence, and Falls: High-Value Care in the Older Adult**
- **MTP 030** Friday 4:30-5:30 p.m. Room 115

**Ethics and Racial and Ethnic Disparities in End-of-Life Care**
- **PN 019** Friday 8:15-9:15 a.m. Room 108

**Medication Management in the Older Adult: To Escalate or De-escalate?**
- **MTP 031** Saturday 11:15 a.m.-12:45 p.m. Room 108

**Office-Based Assessment of the Older Adult: Keep Mom Moving**
- **MTP 032** Thursday 4:30-5:30 p.m. Room 118

**Osteoporosis High-Value Care**
- **MTP 020** Saturday 8:15-9:15 a.m. Room 115

**Palliative Care in the Noncancer Inpatient**
- **MTP 058** Friday 7:00-8:00 a.m. Room 118

**Physician Competency and Aging**
- **PN 037** Saturday 2:15-3:45 p.m. Room 121

**Update in Geriatric Medicine**
- **UD 004** Saturday 9:30-10:30 a.m. Terrace IV
HIV/AIDS
HIV: Long-Term Complications, Pre-exposure Prophylaxis, and Postexposure Prophylaxis
MTP 068  Friday  7:00-8:00 a.m.  Room 114

Infectious Diseases/Infection Control
Antibiotics Made Ridiculously Simple (…or at Least a Heck of a Lot Easier!)
MTP 039  Thursday  2:15-3:45 p.m.  Room 115
Cervical Cancer Screening and HPV Update for the Internist
MTP 098  Thursday  2:15-3:45 p.m.  Terrace III
Curbside Consultations in Infectious Diseases
MTP 042  Friday  2:15-3:45 p.m.  Room 113
Encephalitis and Meningitis: Identification and Management
MTP 045  Friday  8:15-9:15 a.m.  Room 115
HIV: Long-Term Complications, Preexposure Prophylaxis, and Postexposure Prophylaxis
MTP 068  Friday  7:00-8:00 a.m.  Room 114
Practical Strategies for Increasing Adult Immunization While Improving Equity, Efficiency and Reimbursement
PN 032  Saturday  2:15-3:45 p.m.  Room 118
Review of Community-Acquired Pneumonia 2019
MTP 069  Friday  9:30-10:30 a.m.  Room 118
Shock and Sepsis Management to Save Lives
MTP 064  Saturday  4:00-5:00 p.m.  Room 120
Skin and Soft Tissue Infections
MTP 070  Thursday  7:00-8:00 a.m.  Terrace I-II
Update in Infectious Diseases
UD 007  Thursday  11:15 a.m.-12:45 p.m.  Terrace IV
Vector-Borne Diseases at Home and Abroad
MTP 071  Saturday  11:15 a.m.-12:45 p.m.  Room 115

Pain Management/Prescribing Controlled Substances/Opioid Prescribing
Back Pain: Get Your Patient Back in the Game
MTP 089  Thursday  7:00-8:00 a.m.  Terrace III
Hand Pain: A Common Problem with Many Causes
MTP 093  Saturday  9:30-10:30 a.m.  Terrace III
Inpatient Pain Management in the Era of the Opioid Epidemic
MTP 054  Thursday  4:30-5:30 p.m.  Room 113
Medical Marijuana: Use and Management Update
MTP 010  Saturday  7:00-8:00 a.m.  Terrace IV
Medication Management in the Older Adult: To Escalate or Deescalate?
MTP 031  Saturday  11:15 a.m.-12:45 p.m.  Room 103
New FDA-Approved Medications That You Need to Know About
MTP 011  Friday  2:15-3:45 p.m.  Terrace III
The Opioid Epidemic and the Role of the Internist
MTP 012  Friday  11:15 a.m.-12:45 p.m.  Terrace IV

Public Policy and the Opioid Epidemic
PN 023  Saturday  9:30-10:30 a.m.  Room 115
Top 10 Medication Errors
MTP 013  Thursday  8:15-9:15 a.m.  Terrace I-II
What Internists Need to Know about Diagnosing and Managing Headaches: Taking the “Ache” Out of Headache
MTP 077  Saturday  8:15-9:15 a.m.  Terrace I-II

Patient Safety/Risk Management/Prevention of Medical Errors
Handoffs: Improving Patient Care Transitions within the Hospital
MTP 046  Thursday  7:00-8:00 a.m.  Room 120
Medical Errors and How to Grow from Them
PN 015  Saturday  11:15 a.m.-12:45 p.m.  Room 120
Minimizing Medical-Legal Risk and Maintaining Inpatient Care Quality: Cases from the Trenches
MTP 056  Saturday  7:00-8:00 a.m.  Room 120
Quality Improvement for the Practicing Hospitalist
MTP 063  Saturday  8:15-9:15 a.m.  Room 121
Shock and Sepsis Management to Save Lives
MTP 064  Saturday  4:00-5:00 p.m.  Room 120
Transitions of Care: A Joint Session of the ACP and the European Federation of Internal Medicine
PN 025  Saturday  2:15-3:45 p.m.  Terrace III

Substance Abuse/Addiction Disorders
Inpatient Pain Management in the Era of the Opioid Epidemic
MTP 054  Thursday  4:30-5:30 p.m.  Room 113
Medical Marijuana: Use and Management Update
MTP 010  Saturday  7:00-8:00 a.m.  Terrace IV
A Modern Approach to Tobacco Dependence
MTP 084  Thursday  4:30-5:30 p.m.  Room 120
The Opioid Epidemic and the Role of the Internist
MTP 012  Friday  11:15 a.m.-12:45 p.m.  Terrace IV
Public Policy and the Opioid Epidemic
PN 023  Saturday  9:30-10:30 a.m.  Room 115
Indication
Aimovig® is indicated for the preventive treatment of migraine in adults.

Important Safety Information
- The most common adverse reactions in clinical studies (≥ 3% of Aimovig®-treated patients and more often than placebo) were injection site reactions and constipation.

Please see a Brief Summary of the Aimovig® full Prescribing Information on the adjacent page.

Hypothetical patient.
GENERAL INFORMATION

INDICATIONS AND USAGE
AIMOVIG is indicated for the preventive treatment of migraine in adults.

CONTRAINDICATIONS
None.

ADVERSE REACTIONS
Clinical Trials Experience
Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice.

The safety of AIMOVIG has been evaluated in 2,537 patients with migraine who received at least one dose of AIMOVIG, representing 2,310 patient-years of exposure. Of these, 2,057 patients were exposed to 70 mg or 140 mg once monthly for at least 6 months, 1,198 patients were exposed for at least 12 months, and 287 patients were exposed for at least 18 months.

In placebo-controlled clinical studies (Studies 1, 2, and 3) of 2,184 patients, 787 patients received at least one dose of AIMOVIG 70 mg once monthly, 507 patients received at least one dose of AIMOVIG 140 mg once monthly, and 890 patients received placebo during 3 months or 6 months of double-blind treatment. Approximately 84% were female, 91% were white, and the mean age was 42 years at study entry.

The most common adverse reactions (incidence ≥ 3% and more often than placebo) in the migraine studies were injection site reactions and constipation. Table 1 summarizes the adverse reactions that occurred during the first 3 months in the migraine studies (Studies 1, 2, and 3).

Table 1: Adverse Reactions Occurring with an Incidence of at Least 2% for Either Dose of AIMOVIG and at Least 2% Greater than Placebo During the First 3 Months in Studies 1, 2, and 3

<table>
<thead>
<tr>
<th>Adverse Reaction</th>
<th>AIMOVIG 70 mg Once Monthly N = 787 %</th>
<th>AIMOVIG 140 mg Once Monthly N = 507 %</th>
<th>Placebo N = 890 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Injection site reactions*</td>
<td>6</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>Constipation</td>
<td>1</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Cramps, muscle spasms</td>
<td>&lt; 1</td>
<td>2</td>
<td>&lt; 1</td>
</tr>
</tbody>
</table>

*Injection site reactions include multiple adverse reactions related terms, such as injection site pain and injection site erythema.

In Studies 1, 2, and 3, 1.3% of patients treated with AIMOVIG discontinued double-blind treatment because of adverse events. The most frequent injection site reactions were injection site pain, injection site erythema, and injection site pruritus.

Immunogenicity
As with all therapeutic proteins, there is potential for immunogenicity. The detection of antibody formation, including neutralizing antibodies, is highly dependent on the sensitivity and specificity of the assay. Additionally, the observed incidence of antibody (including neutralizing antibody) positivity in an assay may be influenced by several factors including assay methodology, sample handling, timing of sample collection, concomitant medications, and underlying disease. For these reasons, comparison of the incidence of antibodies to erenumab-aooe in the studies described below with the incidence of antibodies in other studies or to other products may be misleading.

The immunogenicity of AIMOVIG has been evaluated using an immunoassay for the detection of binding anti-erenumab-aooe antibodies. For patients whose sera tested positive in the screening immunoassay, an in vitro biological assay was performed to detect neutralizing antibodies.

In controlled studies with AIMOVIG, the incidence of anti-erenumab-aooe antibody development was 6.2% (48/776) in patients receiving AIMOVIG 70 mg once monthly (2 of whom had in vitro neutralizing activity) and 2.6% (13/504) in patients receiving AIMOVIG 140 mg once monthly (none of whom had in vitro neutralizing activity). The neutralizing anti-erenumab-aooe antibody positive rate may be underestimated because of limitations of the assay. Although these data do not demonstrate an impact of anti-erenumab-aooe antibody development on the efficacy or safety of AIMOVIG in these patients, the available data are too limited to make definitive conclusions.

USE IN SPECIFIC POPULATIONS

Pregnancy
Risk Summary
There are no adequate data on the developmental risk associated with the use of AIMOVIG in pregnant women. No adverse effects on offspring were observed when pregnant monkeys were administered erenumab-aooe throughout gestation (see Data). Serum erenumab-aooe exposures in pregnant monkeys were greater than those in humans at clinical doses.

In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2%-4% and 15%-20%, respectively. The estimated rate of major birth defects (2.2%-2.9%) and miscarriage (17%) among deliveries to women with migraine are similar to rates reported in women without migraine.

Clinical Considerations
Disease-Associated Maternal and/or Embryo/Fetal Risk
Published data have suggested that women with migraine may be at increased risk of preeclampsia during pregnancy.

Data
Animal Data
In a study in which female monkeys were administered erenumab-aooe (0 or 50 mg/kg) twice weekly by subcutaneous injection throughout pregnancy (gestation day 20-22 to parturition), no adverse effects on offspring were observed. Serum erenumab-aooe exposures (AUC) in pregnant monkeys were approximately 20 times that in humans at a dose of 140 mg once monthly.

Lactation
Risk Summary
There are no data on the presence of erenumab-aooe in human milk, the effects on the breastfed infant, or the effects on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother’s clinical need for AIMOVIG and any potential adverse effects on the breastfed infant from AIMOVIG or from the underlying maternal condition.

Pediatric Use
Safety and effectiveness in pediatric patients have not been established.

Geriatric Use
Clinical studies of AIMOVIG did not include sufficient numbers of patients aged 65 and over to determine whether they respond differently from younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

AMOVIG™ (erenumab-aooe)
Manufactured by:
Amgen Inc.
One Amgen Center Drive
Thousand Oaks, CA 91320-1799 USA
U.S. License No. 1080

Marketed by:
Amgen Inc. (Thousand Oaks, CA 91320), and Novartis Pharmaceuticals Corporation (East Hanover, NJ 07936)

Patent: http://pat.amgen.com/aimovig/
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v1 05/2018
Member and Product Support Assistance
CC • Broad Street Atrium
Our courteous staff will be available to assist you during the following hours:

Monday, April 8      3:00–6:00 p.m.
Tuesday, April 9     7:00 a.m.–4:30 p.m.
Wednesday, April 10  7:00 a.m.–5:00 p.m.
Thursday, April 11   6:00 a.m.–5:30 p.m.
Friday, April 12     6:30 a.m.–5:00 p.m.
Saturday, April 13   7:00 a.m.–2:00 p.m.

Admission Requirements
Only registered Internal Medicine Meeting 2019 attendees will be admitted to Scientific Sessions. Registered attendees and guests may be admitted into the Exhibit Hall. Badges are available at the registration counters.

Color Bars for Badges
Green  College Officers and Members, Non-Members, Allied Health Professionals, and Medical Students
Dark Grey Pre-Course Only
Blue    Guests and Spouses
Orange  Exhibitors
Yellow  Press
Red     ACP Staff
Purple  Vendors

Policy for Reserved Clinical Skills Center Activities
Your $15 registration fee reserves your seat in the activity. Late arrivals who have purchased reserved tickets will be admitted if capacity allows.

Clinical Skills Center Walk-in Policy
Internal Medicine Meeting 2019 attendees who did not purchase advance tickets for the Clinical Skills Center activities may be able to gain admittance onsite at no charge as a “walk-in” participant. Walk-ins will be admitted if capacity allows. We cannot guarantee that walk-ins will be admitted to the sessions, but seats are frequently available, especially on Friday afternoon and Saturday.

Participants are expected to arrive for sessions on time. Late arrivals who have purchased reserved tickets will be admitted if capacity allows.

Rest and Recharge Lounge
Exhibit Hall DE • Booth 1157
Take a break while you charge your mobile devices or enjoy a game of Giant Operation!

Business Services
The Business Center is located inside the Convention Center on the 200 level between Exhibit Halls B and C.

Coat and Luggage Check
CC • Broad Street Atrium
Coat and luggage check is available in the Broad Street Atrium on the 100 level Tuesday, April 9, through Saturday, April 13, for a nominal fee.

Bags and Personal Items
Attendees are asked not to leave bags or personal items unattended in the Convention Center. Items left unattended may be removed and potentially damaged. Attendees should ensure that their bags have nametags attached.

The Americans with Disabilities Act
Scooters are available on a first-come, first-served basis and can be picked up at Registration in the Broad Street Atrium. You will need to leave a form of identification.

Fire Code
ACP must comply with the fire codes that govern the Convention Center and affiliated convention hotels regarding the seating capacity of all meeting and event rooms. When any room fills to capacity, the doors will be closed. Please respect this limitation so that ACP can remain in compliance with local laws.

Accent on Arrangements Child Care Activity
Center Hours
HQ • Room 303
Wednesday, April 10  1:00–4:00 p.m. (Parent Open House)
Thursday, April 11    6:30 a.m.–11:00 p.m.
Friday, April 12      6:30 a.m.–11:00 p.m.
Saturday, April 13    6:30 a.m.–11:00 p.m.

Nursing Mothers
CC • Room 102 B
Comfortably and privately breastfeed your baby or express milk in ACP’s nursing mothers’ suite. In addition, the Convention Center has two portable “Mamava” lactation suites. One is located near the Concierge Desk on the second level between Halls A and B, and another is located on the street level on the Broad and Arch Concourse.
Ground Transportation

Taxi—Many companies provide taxi service at the Philadelphia International Airport. Taxicab booths can be accessed at Zone 5 on the Commercial Transportation Roadway. Taxi rides cost $28.50 from the airport to Center City. An additional $1.00 per passenger ($3.00 maximum) after the first passenger will be charged on flat rate trips between the Airport and Center City for passengers over age 12. Taxis are required to accept credit card payments. Please visit phl.org for more information.

Car Rental—Avis is the preferred car rental company for Internal Medicine Meeting 2019. Use Avis Worldwide Discount number (AWD) B116099 when you call 800-331-1600 to make a reservation.

Rideshare—Uber and Lyft also serve the Philadelphia International Airport and can be picked up outside baggage claim on the arrivals level. Follow the signs to ground transportation.

Hotel Shuttle—Complimentary shuttle service is provided for all participants at regular intervals to and from the Convention Center and participating hotels during the morning and afternoon hours.

PLEASE NOTE: There will be no midday shuttle service. Printed copies of the schedule will be available at your hotel and at the Convention Center and will include the pickup locations and times at designated hotels. The shuttle schedule is also accessible using the Meeting app—download the app to access schedule times and details. All times subject to change based on traffic conditions.

Airport Transfers and Public Transit—Public mass transportation is available from the Philadelphia International Airport to Center City Philadelphia. Southeastern Pennsylvania Transportation Authority, SEPTA, provides train service between Center City and the Airport on the Airport Regional Rail Line. Trains run every 30 minutes and operate from 4:52 a.m. to 11:52 p.m. (Center City to Airport) and from 5:07 a.m. to 12:30 a.m. (Airport to Center City).

Stations on the Airport Regional Rail Line include Terminal E/F, Terminal C/D, Terminal B, Terminal A (East), Eastwick, University City, 30th Street, and three Center City stations along Market Street (includes 30th Street, along with Suburban Station and Jefferson Station). All stations on the Airport Line are wheelchair accessible.

Connections to other SEPTA Regional Rail lines and transit routes can be made at University City, 30th Street, Suburban, and Jefferson Stations.

The one-way Regional Rail fare to Center City is $6.75 or $9.25 to any other station beyond Center City. For additional SEPTA information, call 215-580-7800 or visit septa.org.

Parking—Ample parking is available at the Pennsylvania Convention Center for a daily fee. Parking lots are located on Arch Street.

Concierge Services Desk

CC • Broad Street Atrium and the 12th & Arch Street Entrance

The Philadelphia Convention and Visitors Bureau desk will be staffed Tuesday to Saturday. Their concierge services team provides information on the city, restaurants, entertainment, museums, and shopping suggestions.

Hotel Information Desk

CC • Broad Street Atrium

For your convenience, ACP has a Hotel Information Desk onsite at the Convention Center. An agent from onPeak, LLC, will be available to assist you with any questions concerning your hotel reservations during the following hours:

Tuesday, April 9 8:00 a.m.–5:00 p.m.
Wednesday, April 10 8:00 a.m.–5:00 p.m.
Thursday, April 11 7:00 a.m.–5:00 p.m.
Friday, April 12 8:00 a.m.–5:00 p.m.
Saturday, April 13 8:00 a.m.–Noon
Shuttle Schedule

Please Note: There will be no midday shuttle service.
Complimentary shuttle service is provided at regular intervals to and from the Convention Center and participating hotels during the morning and afternoon hours. Please consult the shuttle schedule for designated hotels and specific times. Subject to change and traffic conditions. Shuttle schedules may be found using the Meeting app or at your hotel and the Convention Center.

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Time</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday</td>
<td>4/9/2019</td>
<td>6:15-9:00 a.m. • 3:00-6:00 p.m.</td>
<td>Every 20 minutes</td>
</tr>
<tr>
<td>Wednesday</td>
<td>4/10/2019</td>
<td>6:15-9:00 a.m. • 3:00-6:00 p.m.</td>
<td>Every 20 minutes</td>
</tr>
<tr>
<td>Thursday</td>
<td>4/11/2019</td>
<td>6:00-9:45 a.m. • 3:30-9:00 p.m.</td>
<td>Every 10 minutes</td>
</tr>
<tr>
<td>Friday</td>
<td>4/12/2019</td>
<td>6:00-9:45 a.m. • 3:30-6:30 p.m.</td>
<td>Every 10 minutes</td>
</tr>
<tr>
<td>Saturday</td>
<td>4/13/2019</td>
<td>6:00-9:45 a.m. • Noon-7:30 p.m.</td>
<td>Every 10-20 minutes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Route Name/Color</th>
<th>To/From</th>
<th>Pickup Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>Route A-Pink</td>
<td>Embassy Suites Philadelphia Center City</td>
<td>18th Street side of hotel</td>
</tr>
<tr>
<td></td>
<td>Logan Hotel</td>
<td>Use Embassy Suites stop on 18th Street</td>
</tr>
<tr>
<td></td>
<td>Windsor Suites</td>
<td>Use Embassy Suites stop on 18th Street</td>
</tr>
<tr>
<td></td>
<td>Sheraton Philadelphia Downtown</td>
<td>Across 19th Street from driveway entrance</td>
</tr>
<tr>
<td>Route B-Green</td>
<td>Sonesta Hotel Rittenhouse Square</td>
<td>Curbside near Market Street entrance</td>
</tr>
<tr>
<td></td>
<td>Bellevue Hotel</td>
<td>Curbside on Broad Street near front entrance</td>
</tr>
<tr>
<td></td>
<td>Cambria Hotel &amp; Suites Philadelphia</td>
<td>Use Bellevue stop on Broad Street</td>
</tr>
<tr>
<td></td>
<td>Holiday Inn Express Midtown</td>
<td>Across 13th Street at Walnut</td>
</tr>
</tbody>
</table>

The hotels listed below are within walking distance of the Convention Center and are not serviced by the shuttle:

- Aloft Philadelphia Downtown
- Courtyard by Marriott Philadelphia Downtown
- Four Points by Sheraton Philadelphia City Center
- Hampton Inn Philadelphia Convention Center
- Hilton Garden Inn Philadelphia Center City
- Le Meridien Philadelphia
- Loews Philadelphia Hotel
- Philadelphia Marriott Downtown
- Residence Inn by Marriott Philadelphia Center City
- Ritz-Carlton Hotel Philadelphia
Mobile Access and Interaction at Internal Medicine Meeting 2019

ACP has made the meeting more accessible and engaging by expanding our mobile features. Take advantage of them all to get the most out of Internal Medicine Meeting 2019.

Download the Internal Medicine Meeting 2019 App for iPhone, iPad, and Android. Search for “ACP meeting” in your app store. The app includes complete searchable schedules of scientific sessions, ACP events, and industry-supported additional learning opportunities, allowing you to build your own schedule. You will also find helpful information, such as access to handouts, exhibitor listings, maps, and daily news from the meeting. Download or learn more at annualmeeting.acponline.org/app.

View or download handouts at annualmeeting.acponline.org/handouts.

ACP and #im2019 on social media

Join the conversation and share your experiences around Internal Medicine Meeting 2019. Use hashtag #im2019 in your posts and be sure you follow ACP on Instagram (instagram.com/acpinternists), Twitter (twitter.com/acpinternists), and Facebook (facebook.com/acpinternists) for all the latest news and information about the meeting.

Emergency Procedures

Medical/General Emergencies inside the Convention Center
For all emergencies inside the Convention Center, call 4911 from a house phone or 215-418-4911

Convention Center First Aid
First Aid Room, Hall D
200 level of the Convention Center

Medical/General Emergencies Outside the Convention Center
Call 911

Philadelphia Marriott Downtown Emergency Number
• Dial 0 from any house phone
• To contact Hotel Security from outside the Hotel, dial 215-625-2900

Meeting Interruption During Internal Medicine Meeting 2019
• Follow instructions provided by the Convention Center/Hotel Public Address System
• Check with your hotel for a voicemail message or other information
• Call ACP Member and Product Support for information at 800-ACP-1915
• Access the College’s Web site, acponline.org, for updated information
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- 3D Systems
  Ultrasound equipment
- Alpinion Medical Systems
  Ultrasound equipment
- B. Braun Medical Inc.
  Catheters
- Butterfly Network, Inc.
  Ultrasound equipment
- CAE Healthcare
  Ultrasound equipment
- Clarius Mobile Health
  Ultrasound equipment
- Fujifilm/SonoSite, Inc.
  Ultrasound equipment
- GE Healthcare
  Ultrasound equipment
- Humimic Medical
  Ultrasound models
- SonoSim, Inc.
  Ultrasound equipment
- Vata, Inc.
  Ultrasound models

Transforming Your Practice to Improve Patient Outcomes, Increase Efficiency, Maximize Reimbursement, and Increase Joy in Practice

Centers for Disease Control
  Educational grant

SCIENTIFIC PROGRAM SESSION

Back Pain: Get Your Patient Back in the Game

- Pfizer, Inc.
  Educational grant

CLINICAL SKILLS WORKSHOPS

A Complete Contraceptive Toolkit: Cases and Demos

- Bayer Health-Care
  Pelvic training models
- Cooper Surgical
  Pelvic training models

CLINICAL SKILLS CENTER

- 3D Systems
  Ultrasound equipment
- Brymill Cryogenic Systems
  Liquid nitrogen spray units
- Butterfly Network, Inc.
  Ultrasound equipment
- Clarius Mobile Health
  Ultrasound equipment
- D-Eye Srl
  Digital ophthalmoscope
- Fujifilm/SonoSite, Inc.
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- GE Healthcare
  Ultrasound equipment
- Vata, Inc.
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Nora F. Goldschlager, MD, MACP  
James F. Graumlich, MD, FACP  
Clark R. Gregg, MD, MACP, and  
Susan B. Gregg, MD  
Jeffrey P. Harris, MD, MACP  
Donald W. Hatton, MD, MACP  
Stuart B. Himmelstein, MD, MACP  
Susan Hingle, MD, MACP  
Virginia L. Hood, MBBS, MACP  
Gregory C. Kane, MD, MACP, and  
Jean H. Kane, Esquire  
Michael H. Kaufman, MD, FACP  
Daniel B. Kimball Jr., MD, MACP  
Lynne M. Kirk, MD, MACP  
Evan M. Klass, MD, FACP

Audrey R. Kupchan, MD, FACP  
Joel S. Levine, MD, MACP  
Robert H. Lohr, MD, MACP  
Willis C. Maddrey, MD, MACP  
Ryan D. Mire, MD, FACP  
Kenneth E. Olive, MD, MACP, and  
Janine Olive  
Stephen Peterson, MD, MACP  
Mary E. Poston, MD, FACP  
Gregory W. Rouan, MD, MACP  
Ranita Sharma, MD, FACP  
Stephen D. Sisson, MD, FACP, and  
Kevin Wingate  
Harold C. Sox, MD, MACP  
Marvin J. Stone, MD, MACP  
Debra L. Stottlemeyer, MD, FACP  
Donna E. Sweet, MD, MACP  
Kouichi R. Tanaka, MD, MACP  
Thomas G. Tape, MD, MACP  
John Tooker, MD, MACP  
Fumiaki Ueno, MD, MACP  
Sara L. Uenoch, MD, MACP  
Joseph G. Weigel, MD, MACP  
Munsey S. Wheby, MD, MACP, and  
Jean C. Wheby  
COL Lisa L. Zacher, MC USA, MACP

**ACP Travel Grants Program**

The ACP Travel Grants Program, sponsored by the ACP Council of Early Career Physicians and funded through general donations from the ACP Leaders Circle, provides travel grants to a select number of early career members, with special consideration given to first-time meeting attendees, physicians serving rural or underserved populations, or physicians of diverse backgrounds.

Please welcome to ACP’s Internal Medicine Meeting 2019 this year’s awardees:

Rezwan Ahmed, MD  
Christina Awad, MD  
Raffaele Mario Bernardo, DO, FACP  
Kimberly Cartmille, MD  
Alex Chan, DO  
Philip W.B. Clarkson, MBChB  
Barry S. Cooper, DO  
Sarah M. Doaty, MD, FACP  
Raghavendra T. Govindaraju, MBBS, FACP  
Gulara Hajiyeva, MD, FACP  
Erika Leung, MD  
Timothy C. Leupp, MD  
MAJ Jacob Mathew Jr., DO, USA, FACP  
Dinesh K. Pokharel, MD  
Misty D. Poole, MD, FACP  
Carlos T. Ramos Jr., MD, FACP  
Kinchit K. Shah, MD  
Daniel Stout, MD  
Sunkaru Touray, MD  
Susan Tucker, MD

**Travel Grants**

COL Gregory J. Argyros, MC USA, MACP  
Omar T. Atiq, MD, FACP, and  
Mehreen Atiq  
Douglas M. DeLong, MD, FACP, and  
Lynn Marsh  
Heather E. Gantzer, MD, FACP  
Phyllis A. Guze, MD, MACP, and  
Frederick A. Eiserling, PhD  
Shotai Kobayashi, MD, MACP  
Darilyn V. Moyer, MD, FACP, and  
Scott B. Rosenberg, MD, FACP  
Sara E. Walker, MD, MACP  
Richard M. Wardrop III, MD, FACP
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Internal Medicine: Cardiology
Internal Medicine: Gastroenterology
Internal Medicine: Pulmonology
Thursday–7:00-8:00 a.m.

**Back Pain: Get Your Patient Back in the Game**
Terrace III  MTP 089
Professor: Obidiugwu Kenrik Duru, MD, MSHS
1. What elements of the history and physical exam findings are most sensitive/specific in differentiating the etiology of back pain?
2. What is the high-value care approach to imaging patients with back pain?
3. What nonpharmacologic treatment options have been shown to be effective for treatment of back pain?
4. What nonopioid pharmacologic treatment options have been shown to be effective for treatment of back pain?

**Clinical Images to Improve Your Knowledge Base and Refine Your Clinical Reasoning Skills**
Independence Ballroom II-III (HQ)  CSW 015
Director: Paul B. Aronowitz, MD, MACP
1. Experience some of the joys and challenges of medicine by reviewing some common and uncommon diseases seen through clinical images.
2. Learn some of the best “go-to” resources for clinical image-based education.
3. Learn how to start and store clinical image banks.

**Deciphering Acid–Base Management**
Terrace IV  MTP 043
Professor: Robert L. Benz, MD, FACP, FASN
1. What is the structured approach to mixed acid-base disorders?
2. How should an internist actively manage complex acid-base abnormalities?
3. What are the most common pitfalls observed in management and diagnosis of acid-base disorders?

**Evaluation and Treatment of Supraventricular Arrhythmias: Feel the Beat**
Room 115  MTP 002
Professor: Carlos L. Alviar, MD, FACC
1. How do you differentiate types of supraventricular tachycardia?
2. How to risk-stratify patients with supraventricular arrhythmias?
3. How do you determine risk versus benefit of systemic anticoagulation and selection of agents in atrial fibrillation and supraventricular tachycardia?
4. Treatment options: How to choose between antiarrhythmic drug therapy versus catheter-based therapies?

**Genetics: What the Internist Needs to Know**
Room 103  MTP 102
Professor: Matthew R. Taylor, MD, PhD
1. What should a primary care doctor do when a patient asks to get “genetic testing” panels?
2. How does a primary care doctor interpret genetic test results brought in by a patient?
3. What role does a primary care doctor have in interpreting direct-to-consumer genetic testing results?

**Handoffs: Improving Patient Care Transitions within the Hospital**
Room 120  MTP 046
Professor: Vineet Arora, MD, MA, FACP
1. What structured mechanisms should internists consider using for handoff communication strategies? Are any evidence-based?
2. Is there any benefit to using written over verbal handoffs? Are there medical-legal risks associated with handoff tools embedded in EHRs?
3. Should handoffs between EM and IM, IM to IM, or IM to ICU be structured differently?

**Inflammatory Bowel Disease**
Room 118  MTP 023
Professor: CDR Manish Singla, MD, FACP, USN
1. How do the newer biologic agents fit into the treatment paradigm?
2. What are special considerations in managing the pregnant patient with inflammatory bowel disease (IBD)? In a patient contemplating pregnancy?
3. What are the health maintenance concerns in patients with IBD?
4. What are some pearls for management of the inpatient with IBD?

**Seating**

Sessions are filled on a first-come, first-served basis. ACP does its best to match room size with anticipated demand; however, interest in a topic occasionally exceeds seating capacity. Seating limits are strictly enforced by the Convention Center Fire Marshal. We encourage you to arrive at meeting rooms as early as possible for best seating.
Thursday—7:00-8:00 a.m.

**Inpatient Diabetes Management: Show Me Some Sugar!**
Room 113 MTP 052
Professor: Guillermo Umpierrez, MD, FACP

1. What are optimal blood glucose management strategies for floor inpatients and intensive care unit patients?
2. What perioperative blood glucose management strategies improve outcomes while avoiding hypoglycemia?
3. When can I consider use of oral hypoglycemic agents in the inpatients setting? Which ones are safer in patients with chronic kidney disease?

**Skin and Soft Tissue Infections**
Terrace I-II MTP 070
Professor: Dennis L. Stevens, MD, PhD

1. What is the appropriate therapy for purulent skin and soft tissue infection (SSTI), non-purulent SSTI, and necrotizing SSTI?
2. How has antibiotic resistance changed the epidemiology and treatment of SSTIs?
3. What clinical clues improve the recognition of life-threatening SSTIs?

Thursday—8:15-9:15 a.m.

**Life-Threatening ECGs Encountered in the Outpatient Setting**
Liberty Ballroom C (HQ) CSW 022
Co-Directors: Lisa M. Filippone, MD
Thomas Rebbechi, MD

1. Identify life-threatening and subtle ECG findings encountered in an office practice.
2. Identify subtle ECG findings associated with common clinical conditions.
3. Review ECG findings of common clinical entities.

**Clinical Skills Workshops take place at the Philadelphia Marriott Downtown Hotel (HQ).**

**Obstructive Sleep Apnea: What’s New for the Internist?**
Room 114 MTP 088
Professor: Jeanne Wallace, MD, MPH

1. What are the types of obstructive sleep apnea and how do they affect the approach to treatment?
2. What are the data supporting the use of CPAP for improving quality of life and clinical outcomes?
3. How should the internist and sleep physician work together to provide chronic care for patients with obstructive sleep apnea?

**Practical Office Orthopedics for Primary Care Providers: The Knee**
Liberty Ballroom AB (HQ) CSW 028
Director: Edward (Ted) Parks, MD

1. Learn a mechanism-based “makes-sense” understanding of knee pathophysiology.
2. Learn how to make patient history taking a quicker, more precise, and more useful diagnostic tool.
3. Learn high-yield exam techniques to improve diagnostic accuracy.
4. Work with anatomical injection models to learn proper injection techniques.
5. Learn what diagnostic tests are most useful and when to order them.

*Note: This is a 2-hour workshop. Clinical Skills Workshops take place at the Philadelphia Marriott Downtown Hotel (HQ).*

**Acute Coronary Syndrome Management: When the Clock Is Ticking on the Ticker**
Room 113 MTP 037
Professor: Sammy Elmariah, MD, MPH

1. What are the recent critical updates in management of the patient with acute coronary syndrome (ACS)?
2. What are the high-value care diagnostic evaluations, including timing, for chest pain with normal troponin and electrocardiogram (ECG)?
3. What are the optimal antiplatelet management plans following stenting or myocardial infarction (MI)?

**Annals of Internal Medicine: Recent Articles That Should Influence Practice**
Room 122 PN 007
Moderator: Darren Taichman, MD, PhD, FACP
Panelists: Michael A. LaCombe, MD, MACP
Anita Palepu, MD, MPH, MACP
Jaya K. Rao, MD, MHS, FACP

Become aware of recent studies with implications for internal medicine practice, research, and education.
Thursday—8:15-9:15 a.m.

C. Wesley Eisele Lecture: Practice Transformation Using the Chronic Care Model
Room 120 MTP 111
Professor: Edward H. Wagner, MD, MPH, MACP
1. Describe the chronic care model and its six pillars.
2. Understand the challenges and delights associated with implementation of the chronic care model in primary care.
3. Learn about the outcomes associated with implementation of the chronic care model from 20 years of care studies.

Clinical Images to Improve Your Knowledge Base and Refine Your Clinical Reasoning Skills
Independence Ballroom II-III (HQ) CSW 016
Director: Paul B. Aronowitz, MD, MACP
1. Experience some of the joys and challenges of medicine by reviewing some common and uncommon diseases seen through clinical images.
2. Learn some of the best “go-to” resources for clinical image-based education.
3. Learn how to start and store clinical image banks.

Clinical Skills Workshops take place at the Philadelphia Marriott Downtown Hotel (HQ).

Clinical Triad: Rheumatology: Early Diagnoses You Don’t Want to Miss
Terrace III CT 003
Moderator: Alexandra S. Villa-Forte, MD, FACP
Panelists: Atul A. Deodhar, MD, MRCP, FACP
Daniel E. Furst, MD, FACP
Segment A: Ankylosing Spondylitis (AS)
1. What are the challenges to early diagnosis of AS?
2. How does early recognition affect management?
3. What is the role of different imaging modalities in the early diagnosis of AS?
Segment B: Elderly-Onset Rheumatoid Arthritis
1. How are clinical manifestations different and what are the challenges in establishing the diagnosis?
2. Are there safety concerns in disease-modifying antirheumatic drug use in older patients?
3. Polymyalgia rheumatica versus rheumatoid arthritis: What’s the correct diagnosis?
Segment C: Cutaneous Vasculitis
1. When to suspect?
2. What is the role of skin biopsy?
3. What is the appropriate screening for systemic disease?

Common Neurologic Conundrums for the Internist: Peripheral Neuropathy, Tremors, and Vertigo
Room 115 MTP 076
Professor: James C. Watson, MD
1. What are the high-value care recommendations for evaluation and management of patients with new-onset vertigo or dizziness? In which cases is imaging indicated? When should the patient be referred to a neurologist?
2. What diagnostic work-up is warranted in patients with peripheral neuropathies? What are the evidence-based guidelines for selection of treatment options for peripheral neuropathy? Which patients require an expedited referral to a neurologist?
3. What are the evidence-based recommendations for the evaluation and management of patients with new-onset tremors? When should patients be referred to a neurologist?

EHR’s Bigger Picture: Population Health and Patient Management
Room 119 PN 026
Moderator: Priya Radhakrishnan, MD, FACP
Panelists: Elmer V. Bernstam, MD, MSE, FACP
Phillip F. Bressoud, MD, MS, FACP
Shiva Chandrasekaran, MD
1. List the areas of expansion for information exchange in new models of patient care such as accountable care organizations (ACOs).
2. Understand the promises and pitfalls of “dashboard” overload. Learn how to use extracted and centralized data analysis to improve patient care.
3. Identify challenges and potential solutions to intercommunication between patients and caregivers with new care team models.
4. Target areas of potential application of these concepts in their own clinical settings.

Inpatient Sickle Cell Disease Care: Managing Our Inpatients to Keep Them Outpatients
Room 114 MTP 055
Professor: John D. Roberts, MD
1. What is the optimal fluid management strategy for inpatients with sickle cell crisis?
2. What are the indications for blood transfusions for inpatients with sickle cell crisis?
3. When should intermittent, as-needed narcotic dosing be employed versus patient-controlled analgesia (PCA)? Which opioid? What are the optimal ways to transition IV opioids to an oral pain control regimen?
4. Why/how do I need/get my institution to commit to a program for comprehensive longitudinal outpatient care for adults living with sickle cell disease?
Thursday—8:15-9:15 a.m.

**NAFLD/NASH: Liver Lessons We All Need to Learn**
Room 118  MTP 025
Professor: LTC Dawn M. Torres, MD, MC USA
1. What is required to make the diagnosis of nonalcoholic steatohepatitis/nonalcoholic fatty liver disease (NASH/NAFLD)? When is liver biopsy or specialty referral necessary?
2. What are effective treatment strategies for patients with NASH/NAFLD?
3. What is the role of bariatric interventions for NAFLD?
4. When is screening for hepatocellular carcinoma recommended?

**Prostate Cancer: What’s New in Diagnosis and Treatment?**
Room 103  MTP 081
Professor: Celestia S. Higano, MD, FACP
1. To screen or not to screen in 2020?
2. What is the role of immune therapies, including sipuleucel-T?
3. What’s new in the management of advanced prostate cancer?

**Top 10 Medication Errors**
Terrace I-II  MTP 013
Professor: Douglas S. Paauw, MD, MACP
1. What are the most common and dangerous drug interactions in clinical practice?
2. What is the latest on identifying and managing statin related muscle symptoms?
3. What are some common and important drug side effects?

Thursday—9:30-10:30 a.m.

**Opening Ceremony**
Hall B  OC 001
Lecturer: Vivek H. Murthy, MD, MBA

**Clinical Skills Workshops take place at the Philadelphia Marriott Downtown Hotel (HQ).**

Thursday—11:15 a.m.-12:45 p.m.

**The Aging Planet: Impact Upon Health and Healthcare Delivery**
Room 118  PN 024
Moderator: David A. Fleming, MD, MA, MACP
Panelists: Rosanne M. Leipzig, MD, PhD, FACP
John E. Morley, MD, MB, BCH
1. Recognize that the world population is aging.
2. Explain the socioeconomic implications of an aging planet.
3. Recognize that an aging population will create challenges in public systems of health care.
4. Propose ways to address health care needs in an aging population.

**Cardiac Murmurs: Benign or Serious**
Liberty Ballroom C (HQ)  CSW 008
Co-Directors: Vivian T. Obeso, MD, FACP
Ross J. Scalese, MD, FACP
Faculty: Michael S. Wagner, MD, FACP
1. Describe cardiac auscultation findings that suggest severity of stenotic valvular lesions.
2. Explain cardiac auscultation findings that suggest severity of regurgitant valvular lesions.
3. List physical exam maneuvers that may help differentiate various systolic murmurs.
4. Correlate cardiac auscultation with point-of-care ultrasound and distinguish those bedside findings that should prompt further evaluation.

**Care of the Pregnant Patient**
Terrace III  PN 002
Moderator: Lisa Bernstein, MD, FACP
Panelists: Michael P. Carson, MD, Member
Margaret A. Miller, MD, FACP
1. What are the optimal inpatient and outpatient approaches for managing venous thromboembolic disease in the pregnant patient?
2. How should hypertension and diabetes ideally be managed in the inpatient and outpatient settings in a pregnant patient?
3. What are the factors to consider when using medications or obtaining radiological studies during pregnancy?

**Clinical Pearls: Cardiology and Pulmonary Medicine**
Terrace I-II  CP 001
Moderator: John B. Bundrick, MD, FACP
Panelists: Megan Duhohery Scrodin, MD
Paul M. McKie, MD, MPH, FACC

A Complete Contraceptive Toolkit: Cases and Demos
Independence Ballroom II-III (HQ)  CSW 003
Director: Pelin Batur, MD, NCMP, CCD, FACP
Faculty: Laura D. Lipold, MD, NCMP
Eleanor Bimla Schwarz, MD
1. Review the newest contraceptives, and how they compare to the older products.
2. Understand the rationale for choosing between agents.
3. Discuss medical scenarios that would dictate use of one contraceptive over another.
4. Increase comfort with such contraceptives as Nexplanon, IUDs, NuvaRing, Essure, diaphragms, and cervical caps.

**Clinical Skills Workshops take place at the Philadelphia Marriott Downtown Hotel (HQ).**
Thursday—11:15 a.m.-12:45 p.m.

**The French Disease at 500: A History of Syphilis**
Room 114  MTP 103  
Professors: Anthony Breu, MD  
Adam Rodman, MD, FACP

1. Discuss how the emergence of syphilis in Naples in 1495 gave doctors a new understanding of the transmission of disease.
2. Review how medical understanding and therapy for syphilis has changed over the ensuing centuries.
3. Recognize how syphilis' history continues to influence medical care in 2019, as incidence is increasing around the world.

**Health IT within MIPS: Advancing Care Information**
Room 119  PN 027  
Moderator: Peter Basch, MD, MACP  
Panelist: Michael Zaroukian, MD, PhD, MACP, FHIMSS

1. Understand the four components of the Merit-based Incentive Payment System (MIPS).
2. Describe the Advancing Care Information (ACI) component in detail.
3. Understand how to score ACI.
4. Understand several strategies for leveraging office staff and technology to optimize ACI scoring.

**Navigating the Transition from Work to Retirement: Challenges and Opportunities for Late Career Internists**
Room 121  PN 036
Moderator: Jack Ende, MD, MACP  
Panelists: John Hansen-Flaschen, MD, FACP  
Charles J. Hatem, MD, FACP  
Virginia L. Hood, MD, MBBS, MPH, MACP

1. Consider the personal and professional factors influencing your timing for transitioning out of your current medical professional career.
2. Describe alternatives for meaningful personal and professional activities through examining profiles and case studies of physicians who have taken unique pathways toward retirement.
3. List resources that would be helpful for your own career transition and where ACP may provide support.

**News You Can Use: Current Guidelines in Breast Cancer Screening, Depression, Hematuria, and Pelvic Exam**
Room 103  PN 010
Moderator: Amir Qaseem, MD, PhD, MHA, FACP
Panelists: Carolyn J. Crandall, MD, MS, FACP  
Alex Krist, MD, MPH  
Reem A. Mustafa, MD, MPH, PhD, FACP  
Matthew E. Nielsen, MD, MS, FACS  
Timothy J. Wilt, MD, MPH, MACP

1. What are the latest clinical guidelines in the areas of breast cancer screening, treatments for depression, the evaluation of hematuria, and screening pelvic exam?
2. What are the current standards of evidence-based care?
3. How can I implement these clinical guidelines and evidence-based quality standards into my practice?

**Perioperative Controversies**
Room 115  MTP 118
Professor: Steven L. Cohn, MD, MACP, SFHM

1. What high-value care concepts can be applied to the perioperative assessment? Which patients require ECGs, labs, and chest radiographs, and which do not?
2. How should antiplatelet agents be managed perioperatively in patients recently post-PCI (percutaneous coronary intervention) and in general (for patients undergoing surgery)?
3. How should anticoagulants be managed in the perioperative setting?
4. When should stress-dose steroids be prescribed, and at what dose and duration?

**Practice Office Orthopedics for the Primary Care Physician: Knee and Shoulder**
Room 113  MTP 095
Professor: Carlin H. Senter, MD, MACP

1. What are the most common knee problems in primary care, and how best to manage them as an internist (not an orthopedist)?
2. What is an evidence-based, practical approach to the patient presenting with shoulder pain to the primary care doctor?
3. What are the red flags in patients presenting to their primary care physician with shoulder or knee pain that should prompt referral to an orthopaedic surgeon?
4. High-value care for the patient with knee and shoulder complaints: When can we avoid referral and MRI?

**Update in Infectious Diseases**
Terrace IV  UD 007
Moderator: George H. Karam, MD, MACP

**Thursday—2:15-3:45 p.m.**

**Antibiotics Made Ridiculously Simple (…or at Least a Heck of a Lot Easier!)**
Room 115  MTP 039
Professor: James S. Kim, MD

1. What common sense approach and framework can I use in selecting an optimal antibiotic (without always using Vancomycin and Pip-Tazo)?
2. Which new or “vintage” antibiotics are available, and what are their roles in the inpatient armamentarium?
3. Could this drug cover Pseudomonas, methicillin-resistant *Staphylococcus aureus* (MRSA), vancomycin-resistant enterococci (VRE)?
Thursday—2:15-3:45 p.m.

Blood Disorders: A High-Value Care Approach
Room 118  MTP 034  🙅
Professor: Ayalew Tefferi, MD
1. What is high-value care lab testing for blood disorders?
2. When should you refer for consultation?
3. When is the liver, not the blood, the cause of blood disorders (e.g., thrombocytopenia, bleeding, macrocytosis)?

Busting Medical Myths: When Dogma Is for the Dogs
Room 103  MTP 101  🙅
Professor: Douglas S. Paauw, MD, MACP
1. Recognize prevalent medical myths.
2. Understand why medical myths occur.

Cardiac Murmurs: Benign or Serious
Liberty Ballroom C (HQ)  CSW 007
Co-Directors: Vivian T. Obeso, MD, FACP
Ross J. Scalese, MD, FACP
Faculty: Michael S. Wagner, MD, FACP
1. Describe cardiac auscultation findings that suggest severity of stenotic valvular lesions.
2. Explain cardiac auscultation findings that suggest severity of regurgitant valvular lesions.
3. List physical exam maneuvers that may help differentiate various systolic murmurs.
4. Correlate cardiac auscultation with point-of-care ultrasound and distinguish those bedside findings that should prompt further evaluation.

Cervical Cancer Screening and HPV Update for the Internist
Terrace III  MTP 098  🙅💰
Professor: Kathleen McIntyre-Seltman, MD
1. What do current guidelines suggest for cervical cancer screening and HPV vaccination?
2. When should primary high-risk HPV screening be considered?
3. How should common abnormal results of cervical cancer screening be managed?
4. What are other manifestations of HPV-related disease, and are there screening options?

A Complete Contraceptive Toolkit: Cases and Demos
Independence Ballroom II-III (HQ)  CSW 004
Director: Pelin Batur, MD, NCMP, CCD, FACP
Faculty: Laura D. Lipold, MD, NCMP
Eleanor Bimla Schwarz, MD
1. Review the newest contraceptives, and how they compare to the older products.
2. Understand the rationale for choosing between agents.
3. Discuss medical scenarios that would dictate use of one contraceptive over another.
4. Increase comfort with such contraceptives as Nexplanon, IUDs, NuvaRing, Essure, diaphragms, and cervical caps.

Ethical Challenges Role Play: EHRs in the Service of the Patient
Room 122  PN 018  🙅💰
Moderator: Thomas A. Bledsoe, MD, FACP
Panels: LT COL Joshua D. Hartzell, MD USA, FACP
Carrie A. Horwitch, MD, MPH, MACP
1. What ethical challenges and benefits do EHRs present for physicians and patients?
2. What principles can help guide design and use of EHRs?
3. How can physicians mitigate EHR challenges in practice to support the patient-physician relationship and patient-centered care?

I Can’t Get No Satisfaction: Increasing Individual Well-Being and Professional Fulfillment
Room 120  PN 031  🙅💰
Moderator: Susan Thompson Hingle, MD, MACP
Panels: Stewart F. Babbott, MD, FACP
Charlene M. Dewey, MD, MED, MACP
1. Identify the factors contributing to individual physician well-being and professional fulfillment and the best practices that can be used for maintenance.
2. Examine the organizational and cultural factors contributing to physician burnout and lack of professional fulfillment.
3. List ways to identify core values and career fit.
4. Identify best practices and challenges associated with creating a culture of well-being and fulfillment.
**Thursday—2:15-3:45 p.m.**

**Innovations in Behavioral Modification: Nudging Your Way to Better Care**

Room 114  PN 014  🏡

Moderator: Brian Lewis Block, MD, Resident/Fellow Member

Panelists: Scott D. Halpern, MD, PhD
            Joanna Hart, MD

1. Discuss current research into behavioral modification that has the potential to affect patient care.
2. Learn about ways to incentivize patients to pursue positive behavior changes.
3. Gain skills to better communicate with patients in terms of setting and achieving goals.

**Inpatient Coding: Thinking Inside the Box**

Room 121  MTP 112

Professor: Yvette M. Cua, MD, Member

1. Learn what's new in inpatient coding and how to differentiate among the inpatient codes.
2. Recognize the difference between face-to-face time versus unit/floor time.
3. Know when to use observation codes.
4. Identify and navigate nonclinical coding resources.
5. Learn how to minimize your exposure to payment delays and denials.

**Multiple Small Feedings of the Mind: Endocrinology, Infectious Diseases, and Pain Management**

Terrace I-II  MSFM 001  🏡

Moderator: Elizabeth Selden, MD, Member

Panelists: Stephanie B. Mayer, MD, MHSc
            Naasha J. Talati, MD, MBBS
            Ajay D. Wasan, MD, MSc

*Endocrinology*

1. When should we consider alternatives to bisphosphonate therapy for osteoporosis?
2. What is the best treatment approach to pre-diabetes and how does age factor in?
3. How should we be thinking differently about patient-specific measures of control and measurement approaches in diabetes?

*Infectious Diseases*

1. For which populations is the Shingrix vaccination indicated or contraindicated? When and how should an immunocompetent patient with severe shingles be further evaluated?
2. What is the most evidence-based approach to treatment of Clostridium difficile, and when should C diff prophylaxis be considered?
Turning a Clinical Case into Scholarly Work
Room 119  WSO 006
Director: Christine Laine, MD, MPH, FACP
Co-Director: Alfred P. Burger, MD, FACP
1. Learn how to find, claim, and conduct background research related to interesting clinical cases.
2. Learn how clinical case reports are typically written, with an eye toward standard editorial requirements.
3. Learn how to identify relevant journals and scientific meetings most likely to accept your abstract.

Update in Oncology
Room 113  UD 009  ☑
Moderator: Celestia S. Higano, MD, FACP

Vascular Disease from Head to Toe
Terrace IV  MTP 008
Professor: Kerry A. Esquitin, MD, FACP, FACC, RPVI
1. When should screening be performed for carotid artery disease?
2. When should revascularization be performed for carotid stenosis?
3. When should screening be performed for an aortic aneurysm?
4. When should surgery be performed for an aortic aneurysm?
5. Who should be screened for peripheral arterial disease?
6. What medical therapy and surgical options are there for peripheral arterial disease?

Basics of Contract Negotiation: What All Internists Need to Know
(Note: This session is not designated for CME credit.)
Room 122  MTP 115  ☑
Professor: Michael S. Sinha, MD, JD, MPH
1. Know the core elements of a typical standard employment contract for physicians.
2. Identify those areas of an employment contract that are most important and need to be understood in detail.
3. Determine if there are benefits and protections not typically covered in standard contracts that should be considered.
4. Identify what is negotiable and what is not.
5. Know who should review the contract before signing.
6. Determine what to do if you want to modify or need to terminate your contract.

Challenges in Geriatric Medication Management: An Interactive Case-Based Workshop
Liberty Ballroom C (HQ)  CSW 011  ☔
Director: N. Wilson Holland, MD, AGSF, FACP
Faculty: Birju B. Patel, MD, FACP, AGSF
1. Understand factors that lead to polypharmacy and tools to reduce polypharmacy.
2. Be able to appropriately dose medications based on age-related physiologic changes.
3. Recognize potentially inappropriate medications for older adults.

Clinical Breakthroughs: Harnessing the Power of the Patient–Physician Relationship to Achieve Improved Outcomes
Independence Ballroom II-III (HQ)  CSW 013
Director: Carol M. Chou, MD
1. Better understand the issues that contribute to nonadherence through both patient and physician perspectives.
2. Describe the rationale for engaging patients with multiple comorbidities in care using a variety of techniques and strategies.
3. Leverage a variety of strategies, including education, communication skills, and creative problem solving, to engage patients in care in order to achieve improved outcomes and transformational breakthroughs.
4. Address clinical challenges in patients with chronic illnesses, and choose from a variety of strategies to support improved lifestyle management and healthy behaviors.

Handouts
Handouts are available in PDF format online and accessible through the ACP Meetings mobile app to registered Internal Medicine Meeting 2019 attendees. The Web site and app are updated as material is received from faculty.

Web: annualmeeting.acponline.org/handouts
Mobile: Download the ACP Meetings mobile app from your app store, select the ACP Internal Medicine Meeting 2019 event, and tap Download Event. Once inside the event, tap the Handouts icon.
Thursday—4:30-5:30 p.m.

Note: This is a 90-minute workshop. Clinical Skills Workshops take place at the Philadelphia Marriott Downtown Hotel (HQ).

**Clinical Triad: Hematuria, Erectile Dysfunction, and Testosterone Replacement**

Terrace III  
Moderator: Soma Wali, MD, MACP  
Panelists: Joseph F. Harryhill, MD  
Jack H. Mydlo, MD, FACS  
Peter J. Snyder, MD

**Segment A: Hematuria**
1. What work-up should a primary care testosterone replacement provider complete before referring to the patient with hematuria to a nephrologist versus urologist?
2. Can a primary care provider diagnose and treat mild hematuria?
3. What are the latest guidelines for work up and treatment of hematuria?

**Segment B: Erectile Dysfunction**
1. What work-up should be initiated by a primary care provider?
2. When should a patient be referred to a urologist?
3. What are the latest evidence-based treatment options?

**Segment C: Testosterone Replacement**
1. When should a primary care provider prescribe testosterone replacement?
2. What are the risks and benefits associated with the use of testosterone replacement?
3. What work-up and follow-up labs should be kept in mind for patients on testosterone replacement?

**Diabetes Care with Oral and Other Noninsulin Agents: What You Need to Know**

Terrace I-II  
Professor: Guillermo Umphierrez, MD, FACP

1. What are the mechanisms behind the noninsulin agents?
2. How do patient comorbidities affect choice of agents?
3. How do the professional society guidelines recommend you choose, stepwise, among the agents, and how does cost figure in?
4. Which of the noninsulin agents have any evidence of cardiovascular endpoint benefits?

**Hepato-Anxiety: Treating Acute Liver Failure and Decompensated Chronic Liver Failure**

Room 115  
Professor: Karen L. Krok, MD

1. Which patients with newly elevated liver enzymes can safely be monitored in the outpatient setting?
2. What diagnostic evaluation is necessary in patients presenting with new acute liver injury or decompensated chronic liver disease?
3. Which patients with acute liver injury or decompensated chronic disease should be transferred to a liver transplant center?
4. What new developments to the literature have been published in inpatient decompensated chronic liver disease management?

**Hot Topics for Clinicians: Maximizing Value with Data-driven, Patient-centered Referrals**

Room 119  
Moderator: Suzanne Joy, MPP  
Panelists: Desiree Collins Bradley  
M. Carol Greenlee, MD, FACP  
Beth Neuhalfen

1. Gain insights into how subspecialists can transform their practices to thrive in the value-based payment environment created by the Quality Payment Program/MACRA.
2. Learn strategies to improve team-based care and care coordination between primary care physicians and subspecialists, including how to engage patients as part of the team.
3. Explore new and updated ACP tools and resources for subspecialists, such as the High-Value Care Toolkit and pediatric to adult care transitions tools.

**Inpatient Pain Management in the Era of the Opioid Epidemic**

Room 113  
Professor: Theresa E. Vettese, MD, FACP

1. What are the current evidence-based guidelines on the treatment of pain in the inpatient setting?
2. What specific approaches should clinicians apply to long-standing narcotic users, such as patients with sickle cell disease or chronic opioid users?
3. How should clinicians manage postoperative pain in a chronic opioid user?
**Thursday—4:30-5:30 p.m.**

**Management of Patients with Gout**
Room 114 MTP 094
Professor: Brian F. Mandell, MD, PhD, MACP, FACP
1. Should hyperuricemia always be treated? What are the current treatment objectives for hyperuricemia in patients with gouty arthritis?
2. What are the advances in therapies for hyperuricemia?
3. What are the challenges and goals of hyperuricemia treatment in patients with gout and chronic kidney disease? In posttransplant patients?

**A Modern Approach to Tobacco Dependence**
Room 120 MTP 084
Professor: Frank T. Leone, MD, MS
1. What is the best approach to smoking cessation?
2. How can we prevent teens from starting to smoke?
3. What is the link between smoking and behavioral illness?
4. Can e-cigarettes help people quit smoking?

**Office-Based Assessment of the Older Adult: Keep Mom Moving**
Room 118 MTP 032
Professor: Audrey K. Chun, MD
1. What are key components and screening tools in assessment of frail older patients for functional status and fall risk?
2. How can the internist discriminate between gait disorders due to normal physiologic changes versus early disease presentation?
3. How can a structured exercise program decrease major mobility disorders?

**Patient Priority Care: Best Practices on How to Implement in Your Practice**
Room 121 PN 009
Moderator: Caroline S. Blaum, MD, MS
Panelists: Lilian Dindo, PhD Kizzy Hernandez-Bigos
1. Define patient priority-aligned care and the rationale for transitioning to this model of care.
2. Describe the population that would benefit from this model of care and how it can improve patient outcomes among this group.
3. Identify the patient, clinician, and health system requirements to achieve patient priority-aligned care.
4. List available resources to help implement this model of care.

**Rapid Fire EKGs: High-Risk Findings Not to Miss**
Room 103 SS 001
Professor: Arnold J. Greenspon, MD
1. What are the most common EKG abnormalities seen in clinical practice?
2. What EKG findings suggest underlying genetic abnormalities?
3. Which EKG abnormalities require urgent referral to a cardiologist or to an emergency room?

**Update in Gastroenterology and Hepatology**
Terrace IV UD 003
Moderator: Philip O. Katz, MD Co-Moderator: Felice H. Schnoll-Sussman, MD

**Friday—7:00-8:00 a.m.**

**A Brief Military History: The Key to Good Health Care for Veterans in Your Practice**
Independence Ballroom II-III (HQ) CSW 001
Director: A. Lucile Burgo-Black, MD, FACP Faculty: Stephen C. Hunt, MD, MPH
1. Grasp the importance of asking whether your patient or someone close to them has served in the military.
2. Be aware of military culture and the characteristics of veteran populations.
3. Understand the health risks of war and potential health outcomes of military service and combat exposure.
4. Appreciate the various resources and benefits available to veterans and their families.

*Note: This is a 90-minute workshop. Clinical Skills Workshops take place at the Philadelphia Marriott Downtown Hotel (HQ).*

**A Case-Based Approach to Acute Kidney Injury**
Room 115 MTP 072
Professor: Meyeon Park, MD, MAS, FASN
1. What is the definition of acute kidney injury (AKI) and in what patients does it most commonly occur?
2. What is a high-value care approach to determining the cause of AKI, and what clinical scenarios of AKI should prompt urgent/emergent nephrology evaluation?
3. What steps in the prevention and treatment of acute kidney injury have been shown to improve outcomes?

**HIV: Long-Term Complications, Preexposure Prophylaxis, and Postexposure Prophylaxis**
Room 114 MTP 068
Professor: Carrie A. Horwitch, MD, MPH, MACP
1. What monitoring, prevention, and screening is recommended for patients living with HIV?
2. What is the role of preexposure prophylaxis?
3. What are the recommendations for occupational and non-occupational postexposure prophylaxis?
**Hypertension Management of the Inpatient: When High Isn’t a Good Thing**

Terrace IV  
MTP 050

Professor: R. Neal Axon, MD, MSCR, Member

1. What are high-value, evidence-based recommendations for the management of hypertensive urgency and emergency?
2. What high-value care approaches should be employed in transitioning medications in inpatients with hypertensive emergency (e.g., IV to oral and inpatient to outpatient)?
3. What is the evidence-based best practice approach to controlling blood pressure elevations in inpatients without hypertensive urgency/emergency? How can we judiciously use and limit use of pro re nata (PRN) and IV blood pressure medications in these patients?

**Hypogonadism: Sorting through the Controversies**

Terrace III  
MTP 019

Professor: Adrian S. Dobs, MD, MHS

1. How do you safely use androgen replacement to manage male hypogonadism?
2. What are the pros and cons of testosterone supplementation in older men?
3. What do I say to the patient who asks about low testosterone (low-T)?

**Life-Threatening ECGs Encountered in the Outpatient Setting**

Liberty Ballroom C (HQ)  
CSW 023

Co-Directors: Lisa M. Filippone, MD  
Thomas Rebbecchi, MD

1. Identify life-threatening and subtle ECG findings encountered in an office practice.
2. Identify subtle ECG findings associated with common clinical conditions.
3. Review ECG findings of common clinical entities.

**Making Sense of Chest Pain**

Room 103  
MTP 003

Professor: Robert O. Roswell, MD, FACP, FACC

1. What factors go into the decision about outpatient versus observation unit versus inpatient management of chest pain?
2. What algorithm should be used for laboratory evaluation?
3. What is the appropriate first-line diagnostic testing approach?
4. What evaluation should be performed on patients with chronic coronary artery disease (CAD) and chest pain?
5. What is the role of percutaneous coronary intervention (PCI) in stable ischemic heart disease?

**Palliative Care in the Noncancer Inpatient**

Room 118  
MTP 058

Professor: Rebecca N. Hutchinson, MD, FACP

1. What are some of the missed opportunities for palliative care referral for noncancer diagnoses?
2. What palliative care therapies are particularly helpful and/or effective in patients with COPD and/or heart failure? How can these approaches impact length of stay or readmission risk?
3. What communication and collaboration approaches are most effective in negotiating palliative approaches among specialists or other clinicians who may not view a disease they treat as terminal?

**Practical Office Orthopedics for Primary Care Providers: The Knee**

Liberty Ballroom AB (HQ)  
CSW 027

Director: Edward (Ted) Parks, MD

1. Learn a mechanism-based “makes-sense” understanding of knee pathophysiology.
2. Learn how to make patient history taking a quicker, more precise, and more useful diagnostic tool.
3. Learn high-yield exam techniques to improve diagnostic accuracy.
4. Work with anatomical injection models to learn proper injection techniques.
5. Learn what diagnostic tests are most useful and when to order them.

**Rheumatoid Arthritis and Systemic Lupus Erythematosus: What the Internist Needs to Know and Do about Preventive Care**

Room 113  
MTP 096

Professor: Joshua F. Baker, MD, MSCE

1. What are the necessary health screening measures for patients with systemic lupus erythematosus (SLE) and rheumatoid arthritis (RA)? How do they differ from the general same-age population (malignancy screening, lipid screening, and management)?
2. What are the factors associated with increased risk for osteoporosis in patients with SLE and RA? What is the recommended screening protocol for osteoporosis in these patients?
3. What are the recommendations for safe and effective vaccination in patients with SLE or RA?
Top 10 Dermatology Challenges for the Internist
Terrace I-II SS 004
Professor: Rochelle R. Torgerson, MD, PhD
1. What are the common rashes that internists should not miss?
2. When is referral to a dermatologist recommended?
3. What are the high-value care recommendations for diagnostic work-up and management in patients presenting with hair loss or alopecia?
4. What diagnostic work-up is recommended for differentiating between skin cancers? When is biopsy and/or referral to a dermatologist indicated?
5. What is the recommended evidence-based management for folliculitis? Acne? Rosacea? Seborrheic dermatitis?

Carpe Diem: Managing the Inpatient with Seizures
Room 120 MTP 040
Professor: Michael R. Sperling, MD
1. What is the initial work-up and treatment for the patient with a single seizure?
2. What is the proper evaluation and management for the patient admitted with recurrent seizures?
3. What is the best practice emergent management of the patient with status epilepticus?

Clinical Images to Improve Your Knowledge Base and Refine Your Clinical Reasoning Skills
Liberty Ballroom C (HQ) CSW 017
Director: Paul B. Aronowitz, MD
1. Experience some of the joys and challenges of medicine by reviewing some common and uncommon diseases seen through clinical images.
2. Learn some of the best “go-to” resources for clinical image-based education.
3. Learn how to start and store clinical image banks.

Clinical Triad: Upper Gastrointestinal Tract
Terrace III CT 001
Moderator: Patrick E. Young, MD, FACP, FACG, FASGE
Panelists: Brooks D. Cash, MD, FACP
Hashem B. El-Serag, MD, MPH
Ciaran P. Kelly, MD
Segment A: Celiac Disease
1. When should one suspect celiac disease in a patient?
2. What is the optimal testing strategy? Is endoscopy with biopsy always necessary?
3. When should one suspect gluten sensitivity?

Segment B: Dyspepsia
1. What testing should be done in the dyspeptic patient without alarm symptoms?
2. Describe the best strategies in the management of functional dyspepsia?
3. Are there effective complementary and alternative therapies?
Segment C: Helicobacter pylori
1. Who should be tested for Helicobacter pylori infection?
2. What is the best primary therapy?
3. How should resistant cases be treated?
4. Is eradication testing required in all cases?

Dr. Ananda Prasad Lecture in Physiology: The Adverse Physiologic Effects of Sleep Loss
Room 103 MTP 117
Professor: Christopher J. Lettieri, MD, FCCP, FAASM
1. Discuss the prevalence of chronic sleep loss/sleep debt across the continuum of age in modern society and understand its burden on both health and health care.
2. Explore the effect of chronic sleep debt as a causative or contributing factor to common medical disorders.
3. Appreciate the adverse impact that sleep debt has on neurocognitive function and physical performance.
The Dr. Ananda Prasad Lecture in Physiology is an endowed lectureship focusing on the linkage between physiology and clinical medicine.

Drug Allergies: Predicting, Desensitizing, and Managing Them
Room 113 MTP 092
Professor: John M. Kelso, MD
1. What are clinical implications of predicting drug hypersensitivity reactions?
2. What is the appropriate use of skin testing and desensitization?
3. How do I manage drug reactions, from mild to severe cases?

Reference Ranges Table
A convenient table referencing normal lab values in traditional units and standard international equivalents is available online at annualmeeting.acponline.org/referenceranges
**Friday—8:15-9:15 a.m.**

**Encephalitis and Meningitis: Identification and Management**
Room 115  
Professor: Allan R. Tunkel, MD, PhD, MACP

1. Which patients with suspected meningitis deserve empiric systemic steroids, and when should steroids be avoided?
2. What clinical situations of suspected meningoencephalitis require a shotgun approach to coverage, and when can more narrow coverage be offered?
3. How should meningitis be managed in patients who have CNS instrumentation?
4. What uncommon cerebrospinal fluid testing needs to be ordered in what clinical situations?

**Ethics and Racial and Ethnic Disparities in End-of-Life Care**
Room 108  
Moderator: Ramona L. Rhodes, MD, MPH, Member, AGSF, FAAHPM  
Panelists: Kimberly Angelia Curseen, MD, FAAHPM  
Gary A. Puckrein, PhD

1. What ethical issues are raised by disparities in palliative care and hospice?
2. How can physicians address end-of-life care disparities, including through best practices for engaging racial minorities or ethnically diverse or underserved populations, in end-of-life care discussions?
3. What steps can the profession take to understand and ameliorate disparities in care at the end of life?

**How to Handle an In-Flight Medical Event: Is There a Doctor on Board?**
Room 118  
Professor: Jason D. Napolitano, MD, FACP

1. What is in the airplane “code kit”? Does it vary among different airlines?
2. What medical conditions can make our patients particularly vulnerable to a medical event during flight?
3. When do I land the plane?
4. What are any medical-legal concerns?

**The Role of a Trusted Credential in an Increasingly Untrusting World**
Room 119  
Moderator: Richard J. Baron, MD, MACP  
Panelists: Patricia M. Conolly, MD, FACP  
Yul D. Ejnes, MD, MACP

1. Become familiar with the decline in trust in science and medicine and appreciate its impact on practice.
2. Describe the value of independent assessment in identifying knowledge gaps and fostering learning.
3. Understand recent changes in ABIM’s Maintenance of Certification program, with special emphasis on the Knowledge Check In (KCI).

**Stress Testing: Choosing the Right Test for the Right Patient at the Right Time**
Terrace I-II  
Professor: Lawrence M. Phillips, MD, FACP

1. How can decision-support tools be used in clinical practice to help select the right test for the right patient?
2. How do you determine if a patient requires cardiac imaging in addition to standard treadmill stress testing?
3. What factors go into high-value care in cardiac imaging?
4. What newer pharmacologic agents are available for functional cardiac assessment?

**The Top 10 Practice Transformation Lessons from the Transforming Clinical Practice Initiative**
Room 114  
Moderator: M. Carol Greenlee, MD, FACP  
Panelists: Priya Radhakrishnan, MD, FACP  
Thomas K. Spain Jr., MD, Member

1. Explain the rationale for practice change in the era of value-based payment.
2. Identify common challenges faced by practices trying to transform.
3. Match common challenges with effective solutions.
4. Identify some of the key successes of the transformation effort and why/how they occurred.
5. Identify some of the common pitfalls on the way to transformation and how they were navigated.
6. Choose one successful intervention that you will work with your practice to implement.

**Update in Critical Care Medicine**
Terrace IV  
Moderator: Patricia A. Kritek, MD, EdM

© Recorded sessions  © Fulfills state-specific CME requirements
**Friday—8:15-9:15 a.m.**

**Who Really Needs a Work-up for Hereditary Thrombophilia?**

Room 121  MTP 036

**Professor:** Martha P. Mims, MD, PhD

1. What is a high-value approach to the work-up of thrombophilia. When to work up?
2. What are recommendations for travel, inpatient stay, and contraception in asymptomatic carriers?
3. What are the best anticoagulants to use in these patients?
4. What are the risks/benefits of direct acting oral anticoagulants (DOACs)? Who benefits most from them?

**Friday—9:30-10:30 a.m.**

**Adrenal Disorders: What’s New?**

Terrace III  MTP 017

**Professor:** William F. Young Jr., MD, MSc

1. What is the latest update on diagnosing adrenal insufficiency?
2. How do you manage the adrenal incidentaloma?
3. How do you answer the patient who asks about “adrenal fatigue”?
4. Is hyperaldosteronism a medical or a surgical disease?

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**ACP 2019 Presentation Challenge, powered by PechaKucha™**

Friday, 4:30-5:30 p.m., Terrace I-II

PechaKucha™, Japanese for “chitchat,” is an entertaining, fast-paced session in which five outstanding speakers are challenged to present cutting-edge medical information using the PechaKucha™ format. Each speaker will have less than 7 minutes to present and will be limited to 20 slides that will automatically advance during their allotted time. Come join the excitement as we watch these incredible speakers take on the PechaKucha™ challenge to finish their presentations before the gong signals time’s up!

Topics include:
- 5 Ms for Geriatrics Care
- Top Things Every Provider Should Know about Celiac Disease
- Condom 101
- The Difficult Patient
- A Little Anxious about Anxiety

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**Advanced Dementia Management: Challenges and Dilemmas**

Room 115  MTP 029

**Professor:** Audrey K. Chun, MD

1. What are best practices to manage agitation?
2. How should we manage the patient who will not, or cannot, eat?
3. What are methods to manage insomnia?
4. When should cholinesterase inhibitors be discontinued?

**Allergic Reactions: Urgent and Emergent Hospital Management**

Room 114  MTP 038

**Professor:** Olajumoke Fadugba, MD

1. What is the initial management of a patient with anaphylaxis, and what additional inpatient or outpatient evaluation and therapies are necessary?
2. What is the initial management of a patient with angioedema, and what additional inpatient or outpatient evaluation and therapies are necessary?
3. How should clinicians suspect, diagnose, and manage drug hypersensitivity syndrome (DHS)?

**Cardiovascular Disease in Women**

Room 113  MTP 097

**Professor:** C. Noel Bairey Merz, MD, FACC, FAHA, FESC

1. How can better understanding of cardiovascular conditions that occur uniquely or disproportionately in women lead to better outcomes (e.g., Takotsubo’s, postpartum cardiomyopathy, sudden coronary artery dissection, heart failure with preserved ejection fraction)?
2. What are the best strategies to assess (including stress testing and novel cardiovascular risk factors), modify, and prevent a woman’s risk for coronary heart disease?
3. What are the best approaches to assess chest pain and other symptoms suggesting coronary heart disease in women?

**Innovations in EHR Education**

Room 119  PN 029

**Moderator:** Ross W. Hilliard, MD, FACP

**Panelist:** Parag H. Mehta, MD, FACP

1. List the issues and challenges of education for working with multiple different EHR systems.
2. Learn novel methods of education for both physicians in training and medical staff.
3. Understand the important issues of retraining and support for use of EHR systems and best practices to address them.
4. List pathways to further education for those interested in pursuing working in the field of informatics.
Life-Threatening ECGs Encountered in the Outpatient Setting
Liberty Ballroom C (HQ)  CSW 024
Co-Directors: Lisa M. Filippone, MD  Thomas Rebbecchi, MD
1. Identify life-threatening and subtle ECG findings encountered in an office practice.
2. Identify subtle ECG findings associated with common clinical conditions.
3. Review ECG findings of common clinical entities.

Clinical Skills Workshops take place at the Philadelphia Marriott Downtown Hotel (HQ).

Pancreas Problems: Unraveling the Mysteries
Room 120  MTP 028  Ⓟ
Professor: Michelle A. Anderson, MD, MSc, FASGE
1. How should the incidentally discovered pancreatic cyst be managed? When should you refer to a gastroenterologist?
2. In what patients should screening for pancreatic cancer be considered? What are the best methods for screening?
3. When should chronic pancreatitis be suspected? What is the best way(s) to diagnose and manage chronic pancreatitis?

Pulmonary Physical Diagnosis: Legend and Lore
Room 121  MTP 087
Professor: Salvatore Mangione, MD
1. What pulmonary findings are diagnostic for interstitial lung disease?
2. Is the stethoscope dead?
3. What nonpulmonary exam findings are most pathognomonic of lung disease?

Review of Community-Acquired Pneumonia 2019
Room 118  MTP 069  Ⓟ Ⓟ
Professor: Nathan C. Dean, MD
1. What are appropriate antimicrobial agents to treat community-acquired pneumonia in the setting of antimicrobial stewardship?
2. What is the role of molecular diagnostics in treatment of community-acquired pneumonia, and what is the role of diagnostic testing in guiding therapy?
3. How long do patients with bacterial community-acquired pneumonia require antimicrobials, and what is the role of intravenous to oral switch?
4. What are the roles of nonantibacterial treatments?

Syncope Management: The Three “Es” of Care (Effective, Efficient, and Economical)
Room 103  MTP 066  Ⓟ
Professor: Daniel D. Dressler, MD, MSc, FACP, SFHM
1. How should clinicians use history and physical findings and clinical decision rules to risk stratify and triage patients with syncope?
2. How should clinicians make high-value care, evidence-based test-ordering decisions for syncope, and what “red flags” should be considered?
3. How should clinicians accurately estimate pulmonary embolism (PE) risk in patients admitted with syncope, and what structured PE evaluation is indicated?

Thieves’ Market
Terrace I-II  MTP 108  Ⓟ
Professor: David R. Scrase, MD, FACP
1. How does my clinical decision making compare with that of other internists?
2. Can internal medicine really be this much fun, and am I allowed to laugh out loud through a whole presentation?
3. Will I achieve instant fame and fortune by correctly diagnosing a case before it is presented on screen?

A Brief Military History: The Key to Good Health Care for Veterans in Your Practice
Independence Ballroom II-III (HQ)  CSW 002  Ⓟ
Director: A. Lucile Burgo-Black, MD, FACP
Faculty: Stephen C. Hunt, MD, MPH
1. Grasp the importance of asking whether your patient or someone close to them has served in the military.
2. Be aware of military culture and the characteristics of veteran populations.
3. Understand the health risks of war and potential health outcomes of military service and combat exposure.
4. Appreciate the various resources and benefits available to veterans and their families.

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Cardiac Murmurs: Benign or Serious
Liberty Ballroom C (HQ)  CSW 009
Co-Directors:  Vivian T. Obeso, MD, FACP  Ross J. Scalese, MD, FACP
Faculty:  Michael S. Wagner, MD, FACP
1. Describe cardiac auscultation findings that suggest severity of stenotic valvular lesions.
2. Explain cardiac auscultation findings that suggest severity of regurgitant valvular lesions.
3. List physical exam maneuvers that may help differentiate various systolic murmurs.
4. Correlate cardiac auscultation with point-of-care ultrasound and distinguish those bedside findings that should prompt further evaluation.

Clinical Skills Workshops take place at the Philadelphia Marriott Downtown Hotel (HQ).

Clinical Pearls: Infectious Diseases and Oncology
Terrace I-II  CP 002
Moderator:  John B. Bundrick, MD, FACP
Panelists:  Randall S. Edson, MD, MACP, FIDSA  Andrea E. Wahner-Hendrickson, MD

COPD: What’s New for Inpatient and Outpatient Care?
Room 118  MTP 085
Professor:  Meredith C. McCormack, MD, MHS
1. Who should be screened for COPD?
2. What are the standards for high-value care and COPD?
3. How can we prevent COPD readmissions?
4. What outcome should the internist look for in COPD?

Ethics, Deprofessionalization, and Physician Well-Being: “Re-Enchanting” Medicine
Room 120  PN 020
Moderator:  Susan Thompson Hingle, MD, MACP
Panelists:  Lydia S. Dugdale, MD, Member  Joseph J. Fins, MD, MACP, FRCP
1. Back to basics: What is a profession, and why did I enter medicine in the first place?
2. What challenges does contemporary medical practice raise for ethics, professionalism, and meaning in medicine?
3. How can physicians address these challenges, including through partnerships with patients?

From Myelodysplastic Syndrome to Myeloproliferation: The Mystery of the Marrow
Room 114  MTP 035
Professor:  Ayalew Tefferi, MD
1. When to treat and when not to treat myelodysplastic syndrome (MDS)?
2. What are new therapies for treating MDS?
3. Myeloproliferation: When to refer polycythemia, leukocytosis, and thrombocytosis to a hematologist?

How to Talk to Your Patients about the Cost of Their Care
Liberty Ballroom AB (HQ)  CSW 021
Director:  C. Jessica Dine, MD, MSHP, FACP
Faculty:  Desiree Collins Bradley
1. Explain the rationale for engaging patients in discussions about the cost of their care.
2. List key elements of effective cost conversations that have been identified by patients and clinicians.
3. Identify several tools to inform cost conversations.
4. Practice having cost conversations with patients using patient scenarios.

Clinical Skills Workshops take place at the Philadelphia Marriott Downtown Hotel (HQ).

Learn about the Latest ACP Clinical Practice Guidelines
- News You Can Use: Breast Cancer Screening, Depression, Hematuria, and Pelvic Exam
  Thursday, 11:15 a.m.–12:45 p.m., Room 103
- Stop by the ACP Guidelines Booth in the ACP Resource Center to suggest ideas for new guideline topics, learn about ACP’s guideline development process, and find assistance in accessing the guidelines through our Web site or app.
- Download the free “ACP Clinical Guidelines” app at iTunes.com or android.com.
You can also access all of ACP’s Guidelines for free at acponline.org/clinical_information/guidelines/.
Improving Care for High Healthcare Utilizers: Tailoring Care to the Complex Patient
Room 126  PN 013
Moderator: Rita K. Kuwahara, MD, MIH, Resident/Fellow Member
Panelists: Melinda K. Abrams, MD, FACP
Dave A. Chokshi, MD, FACP
1. Discuss current programs underway to improve the health outcomes of patients with complex care needs.
2. Learn how to target high-need/high-cost patients through interventions addressing patients’ health and social needs.
3. Learn how to build an effective interprofessional team in an outpatient setting.

The Opioid Epidemic and the Role of the Internist
Terrace IV  MTP 012
Professor: Daniel P. Alford, MD, MPH, FACP
1. Should internists ever prescribe chronic opioids without an obvious end point?
2. How should the internist approach a patient who is already on high doses of chronic opioids?
3. When should the internist refer to specialists in pain and addiction medicine?
4. How does buprenorphine fit in the treatment of opioid use disorder, and what are some key points in starting a program in the internist’s office?

Quality Payment Program 101: Making the Most Out of MACRA
Room 108  PN 033
Moderator: Brian E. Outland, PhD
Panelists: Barbara Connors, DO, MPH
Ryan D. Mire, MD, FACP
1. Learn the background and basics of Medicare’s Quality Payment Program, including the difference between alternative payment models (APMs) and merit-based incentive payment system (MIPS) and how to know which is best for your practice.
2. Understand what your practice needs to do now, versus in future years, to avoid a payment cut or even earn a positive adjustment.
3. Learn what resources ACP and others have to help your practice succeed in the value-based payment program.

Stroke and TIA: Inpatient Evaluation and Management
Room 115  MTP 065
Professor: Randolph S. Marshall, MD, MS, FAHA, FAAN
1. Which patients presenting with ischemic stroke deserve thrombolytic consideration? Which are at high risk for complications from thrombolysis? When should catheter-directed thrombolysis be considered?
2. What optimal antiplatelet strategy should be considered for patients with acute stroke?
3. What is best practice for blood pressure management in the setting of recent stroke?
4. What are high-value diagnostic assessment and management in patients with cryptogenic stroke?
5. How can high-value care concepts be applied to stroke and TIA diagnostic work-up? Does every patient need telemetry, MRI, MRA, speech therapy, neurology consultation, and an echo? Does every TIA need to get admitted?

Telling the Patient’s Story in the EHR World
Room 121  PN 030
Moderator: Ross W. Hilliard, MD, FACP
Panelists: Lisa Danielpour
Priya Radhakrishnan, MD, FACP
Elizabeth Toll, MD, FACP, FAAP
1. List the critical elements of documentation for optimized patient care.
2. Describe challenges in shared documentation across team members, including integration of the patient perspective.
3. Identify areas of focus for applying this information to your own EHR systems.
4. Identify effective strategies to improve your current practice of clinical documentation from best practices presented in this discussion.
5. Understand how patient access to EHRs can improve communication and enhance patient safety.

Top 5 High-Value Care Topics in Inpatient Medicine: Things We Do for No Reason
Terrace III  MTP 067
Professor: Leonard S. Feldman, MD, FACP
1. What are the most common labs or radiology studies internists order that have little to no evidence base?
2. What clinical conditions are high risk for study overuse, and how can we avoid this?
3. What savings can hospitals, clinicians, payers, and patients glean from more appropriate test ordering?
4. How can physicians move beyond the constant shadow of legal risk and fear of uncertainty?
Friday—2:15-3:45 p.m.

Understanding Basics of Personal Financial Management
(Note: This session is not designated for CME credit.)
Room 122 MTP 116 🗓️
Professor: Michael Weis 🗓️
1. Assess your baseline understanding of, and interest in, managing your personal finances.
2. Determine your personal financial goals and objectives.
3. Identify your time horizons for achieving your financial goals.
4. Assess your own individual tolerance for, or aversion to, risk.
5. Determine how to match investments to your needs.
6. Identify how to diversify your investments.

Update in Endocrinology
Room 113 UD 002 🗓️
Moderator: Mary T. Korytkowski, MD 🗓️

Friday—2:15-3:45 p.m.

Challenges in the Medical Care of Immigrants
Room 120 PN 038 🗓️ 📚
Moderator: Joslyn W. Fisher, MD, MPH, FACP 🗓️
Panelists: Mahri Haider, MD 🗓️
Umar Malik, MD, Resident/Fellow Member 🗓️
1. What specific medical concerns should physicians consider when caring for immigrant patients?
2. How do challenges differ when caring for undocumented versus documented immigrants? How does the threat of deportation affect care?
3. What are practical tips for improving the care of immigrant patients, such as determining risk for infectious diseases, accessing social services, acquiring medical care, risk for post-traumatic stress disorder, etc.?

A Complete Contraceptive Toolkit: Cases and Demos
Independence Ballroom II–III (HQ) CSW 005
Director: Pelin Batur, MD, NCMP, CCD, FACP 🗓️
Faculty: Laura D. Lipold, MD, NCMP 🗓️
Eleanor Bimla Schwarz, MD 🗓️
1. Review the newest contraceptives, and how they compare to the older products.
2. Understand the rationale for choosing between agents.
3. Discuss medical scenarios that would dictate use of one contraceptive over another.
4. Increase comfort with such contraceptives as Nexplanon, IUDs, NuvaRing, Essure, diaphragms, and cervical caps.

Clinical Skills Workshops take place at the Philadelphia Marriott Downtown Hotel (HQ).
Management of Depression and Anxiety for the Internist: How Not to Have a Panic Attack
Room 115       MTP 083
Professor: Heidi Combs, MD, MS
1. What are the evidence-based effective evaluation tools and algorithms for diagnosis of depression and anxiety in the primary care setting?
2. What are the evidence-based guideline recommendations for initial treatment options of patients with depression? With anxiety?
3. What is the role of pharmacogenetics in selecting medications for depression and anxiety?
4. How do you manage patients who are not improving on initial treatments for depression?

Motivational Interviewing for the Busy Clinician
Liberty Ballroom C (HQ)     CSW 025
Director: Damara N. Gutnick, MD, FACP
Faculty: Brian Hurley, MD, MBA, DFASAM
Kathleen G. Reims, MD
1. Explain how the spirit of motivational interviewing (MI) provides the foundation for a Brief Action Plan.
2. Describe how ASK-TELL-ASK can be used to effectively offer information and advice and save time.
3. Explain the MI concepts of “change talk” and “the righting reflex.”
4. Practice applying the core skills (OARS) of motivational interviewing.
Note: This is a 2-hour workshop. Clinical Skills Workshops take place at the Philadelphia Marriott Downtown Hotel (HQ).

Multiple Small Feedings of the Mind: Neurology, General Internal Medicine, and Nutrition & Exercise
Terrace I-II     MSFM 002
Moderator: Alan W. Dow, MD, MSHA, FACP
Panelists: Andrew D. Coyle, MD
Raymond Price, MD, FAAN
Fatima Cody Stanford, MD, MPH, MPA, FACP, FAAP, FTOS

Neurology
1. How has the approach to management of migraine changed recently? How should patients be counselled about contraceptive options?
2. What treatment for neuropathic pain has the best evidence? How should primary care practitioners monitor patients undergoing a trial of a medicine?
3. When should patients with stroke and transient ischemic attacks (TIsAs) be evaluated for a patent foramen ovale (PFO)? When is closure indicated?

General Internal Medicine
1. How should we counsel patients on use of direct-to-consumer genetic testing, and how should we follow up on abnormal results? How should we involve insurance for further care and reimbursement?
2. What is the future of colon cancer screening, and how do these approaches compare to traditional methods in terms of cost and acceptability to patients?
3. What is the role of point of care ultrasound in the outpatient setting?

Nutrition & Exercise
1. What is the strength of the evidence linking exercise and cancer? What is the evidence-based dose and frequency of exercise?
2. What role does diet and exercise play in modifying one’s risk for dementia?
3. What are the risks and benefits of intermittent fasting?

New FDA-Approved Medications That You Need to Know About
Terrace III     MTP 011
Professor: Gerald W. Smetana, MD, MACP
1. Learn which recently approved drugs will have a prominent place in primary care practice.
2. Understand the safety profile and efficacy of new drugs.
3. Compare the efficacy of novel drugs with existing pharmacotherapy options.

Practical Office Orthopedics for Primary Care Providers: The Shoulder
Liberty Ballroom AB (HQ)     CSW 030
Director: Edward (Ted) Parks, MD
1. Learn a mechanism-based “makes-sense” understanding of shoulder pathophysiology.
2. Learn how to make patient history taking a quicker, more precise, and more useful diagnostic tool.
3. Learn high-yield exam techniques to improve diagnostic accuracy.
4. Work with anatomical injection models to learn proper injection techniques.
5. Learn what diagnostic tests are most useful and when to order them.
Note: This is a 2-hour workshop. Clinical Skills Workshops take place at the Philadelphia Marriott Downtown Hotel (HQ).
Quality Payment Program Advanced: Understanding and Improving Performance
Room 108  PN 034  
Moderator:  Shari M. Erickson, MPH
Panelists:  Peter Basch, MD, MACP
  Kate Goodrich, MD, MHS

1. Learn what's new in the program, including new performance measures and activities, and how the cost category will come into play.
2. Learn what variables to consider when selecting performance measures for reporting and which measures are recommended by ACP.
3. Understand the role of registries and the Qualified Clinical Data Registry (QCDR) in meeting Quality Payment Program reimbursement requirements, including quality, improvement activities, and advancing care information.
4. Probe how clinical registries can be worked into practice workflow to improve care and generate data for performance reporting requirements beyond Medicare.

Stump the Professor
Room 119  WSO 005
Director:  Paul B. Aronowitz, MD, MACP
Understand the thought processes of an experienced internist while solving medical problems.

Update in Cardiology
Terrace IV  UD 001  
Moderator:  Raymond J. Gibbons, MD
Co-Moderator:  Douglas L. Packer, MD

Well-Being for the Physician-in-Training: Addressing Burnout and Resiliency
Room 126  PN 016  
Moderator:  John Hunninghake, MD, Resident/Fellow Member
Panelists:  Connie B. Newman, MD, FACP
  Richard M. Wardrop III, MD, PhD, FACP, FAAP

1. Establish frequency and signs of burnout and resiliency amongst training physicians.
2. Explore successful ways of dealing with burnout and increasing resiliency among trainees.
3. Describe benefits and harms of physician unions and training physician unions in the United States and abroad.

ACP 2019 Presentation Challenge, powered by PechaKucha™
Terrace I-II  PN 006
Moderator:  Patrick E. Young, MD, FACP, FACC, FASGE
Panelists:  Audrey K. Chun, MD
  Stephen J. Gluckman, MD, FACP, FIDSA
  Ellie Grossman, MD, MPH
  Amy S. Oxentenko, MD, FACP, FACC, AGAF
  CDR Manish Singla, MD, FACP, USN

Five outstanding speakers will be challenged to present the newest “hot-off-the-press” cutting-edge medical information using the PechaKucha™ format. Topics include:
- 5 Ms for Geriatrics Care
- Top Things Every Provider Should Know about Celiac Disease
- Condom 101
- The Difficult Patient
- A Little Anxious about Anxiety

Cardiac Murmurs: Benign or Serious
Liberty Ballroom C (HQ)  CSW 010
Co-Directors:  Vivian T. Obeso, MD, FACP
  Ross J. Scalese, MD, FACP
Faculty:  Michael S. Wagner, MD, FACP

1. Describe cardiac auscultation findings that suggest severity of stenotic valvular lesions.
2. Explain cardiac auscultation findings that suggest severity of regurgitant valvular lesions.
3. List physical exam maneuvers that may help differentiate various systolic murmurs.
4. Correlate cardiac auscultation with point-of-care ultrasound and distinguish those bedside findings that should prompt further evaluation.

Note: This is a 90-minute workshop. Clinical Skills Workshops take place at the Philadelphia Marriott Downtown Hotel (HQ).

Clinical Triad: Lung Cancer Screening: Is It Ready for Prime Time?
Terrace III  CT 002  
Moderator:  Gregory C. Kane, MD, MACP
Panelists:  Julie A. Barta, MD
  Boyd T. Hehn, MD
  Lawrence Ward, MD, MPH, FACP

Segment A: Who should be screened?
1. What are the current standards for lung cancer screening?
2. Who benefits most from screening?
3. Does screening continue if the initial study is negative or normal?
4. At what age should screening stop?
**Friday—4:30-5:30 p.m.**

**Segment B: How can you set up a screening program?**
1. What standards should be considered for your program?
2. How do you approach shared decision making?
3. How can you avoid losing patients to follow-up?
4. What metrics should be monitored in your program?

**Segment C: How should suspicious findings be evaluated?**
1. Which nodules are at high risk?
2. What diagnostic tools can be used for biopsy?
3. What incidental findings are important?

**Combating Cognitive Bias: Improving Clinical Decision Making in Everyday Practice**
Independence Ballroom II-III (HQ)  CSW 018

**Director:** Deborah DiNardo, MD, MS, FACP

**Faculty:**
- Melissa McNeil, MD, MPH, MACP
- Gary H. Tabas, MD, MACP
- Sarah A. Tilstra, MD, MS, FACP

1. Define type I and type II reasoning, and identify the pros and cons of each type of reasoning.
2. List 5 common cognitive biases, and describe how they can contribute to diagnostic error.
3. Demonstrate how the standardized approach to the diagnostic process presented in the session can be used in everyday clinical practice to reduce cognitive bias.

**Note:** This is a 90-minute workshop. Clinical Skills Workshops take place at the Philadelphia Marriott Downtown Hotel (HQ).

**Commonly Missed Diagnoses in Allergy and Immunology**
Room 103  MTP 091

**Professor:** John M. Kelso, MD

1. What are the common primary immunodeficiency diseases (PIDs) seen in the primary care physician’s office? What are the frequent clinical manifestations and clues to the diagnosis?
2. What are the different manifestations of chronic urticaria, and what is practical management?
3. What are the steps in establishing the correct diagnosis in food allergy and accuracy of food allergy tests?

**Dementia, Incontinence, and Falls: High-Value Care in the Older Adult**
Room 115  MTP 030

**Professor:** Catherine E. DuBeau, MD

1. What are evidence-based, cost-conscious treatments for dementia?
2. What are evidence-based, cost-conscious treatments for incontinence?
3. What are evidence-based methods to decrease falls?
4. How can we help older adults avoid hospitalization and institutionalization?

**Hematologic Emergencies**
Room 118  MTP 047

**Professor:** Christine L. Kempton, MD, MSc

1. Anticoagulation reversal: Which patients deserve anticoagulation reversed and which reversal agents—including new ones—should I consider and why?
2. How should I handle early management of thrombotic thrombocytopenic purpura (TTP)?
3. Too Low (platelets): In what conditions and clinical situations should I consider platelet transfusion for severe thrombocytopenia, and when is a hematology consult appropriate?
4. Too High (platelets): What are the indications for urgent platelet pheresis for thrombocytosis?

**Improving Individual and Community Health by Addressing Social Determinants of Health**
Room 120  PN 022

**Moderator:** Hilary Daniel

**Panelists:**
- Horace M. DeLisser, MD, Member
- Sanne Magnan, MD, PhD
- Elaine Waxman, PhD

1. What are the primary challenges to incorporating social determinants of health (SDH) into medical care? What and where are the greatest opportunities?
2. What policy changes at the local, state, and federal level are most important to making headway in addressing the root causes behind health inequity?
3. What steps can physicians or other medical professionals take to begin to address SDH with their patients and in their communities today?

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- Order online at PlaybackACP.com
- Order by phone at 800-241-7785.
### Friday—4:30-5:30 p.m.

**Irritable Bowel Syndrome: New Hope for an Old Problem**
- Room 114  MTP 024
- **Professor:** Brooks D. Cash, MD, FACP

1. What is a high-value care approach to the diagnosis of irritable bowel syndrome (IBS)? When should I worry that I am missing something?
2. What is the evidence to support current treatments, and where do newer agents fit into the treatment algorithm?
3. What is the role of diet in managing IBS?
4. When should you refer to a specialist?

**Perioperative Cardiac Evaluation**
- Room 113  MTP 060
- **Professor:** Efren C. Manjarrez, MD, Member, SFHM

1. What is the guideline-recommended approach to preoperative cardiac risk stratification?
2. When should troponin levels be ordered or utilized in the perioperative setting?
3. What medications are indicated or contraindicated in the perioperative setting of noncardiac surgery for patients with coronary disease or at risk for coronary disease (e.g., aspirin, statins, beta-blockers)?
4. How can one ensure that a high-value perioperative assessment is thorough while preventing overtesting and wasting resources?

**Understanding Clinical Research: How to Be a Better-Informed Consumer of the Medical Literature**
- Room 126  PN 008
- **Moderator:** Catharine Stack, PhD
- **Panelists:** A. Russell Localio, PhD
  - John B. Wong, MD, FACP

1. Gain an understanding of basic concepts essential to the interpretation of medical research reports.
2. Learn why being unfamiliar with these concepts can lead to a serious misinterpretation of clinical studies.

**Update in Nephrology and Hypertension**
- Terrace IV  UD 008
- **Moderator:** Joanne M. Bargman, MD

### Saturday—7:00-8:00 a.m.

**Best Foot Forward: Common Foot and Ankle Complaints That Stumble into the Office**
- Room 115  MTP 090
- **Professor:** Joan B. Ritter, MD, FACP

1. What is the approach to management of plantar fasciitis in the internist office?
2. What are the management goals of fifth metatarsal fractures, and when is referral necessary?
3. What are other common foot complaints in the primary care office, and how to diagnose and manage them?

**Beyond A1c: Using Professional Continuous Glucose Monitoring to Improve Type 2 Diabetes Management in Primary Care**
- Liberty Ballroom C (HQ)  CSW 006
- **Co-Directors:** Thomas Martens, MD, FACP
  - Gregg Simonson, PhD

1. Describe the currently available professional continuous glucose monitoring (CGM) systems and associated glycemic data reports, and discuss benefits of using professional CGM for management of type 2 diabetes.
2. Explain how to interpret professional CGM reports and accompanying ambulatory glucose profiles.
3. Using representative case studies, apply concepts of professional CGM reports and ambulatory glucose profile interpretation along with shared decision making to type 2 diabetes patients.
4. Identify good candidates for professional CGM and how this technology can be integrated into existing clinical workflow and billing processes.

**Colon Cancer Screening: What’s New?**
- Room 113  MTP 022
- **Professor:** Aasma Shaukat, MD, MPH

1. What are optimal screening strategies for colorectal cancer?
2. What are the best ways to improve adherence to screening?
3. What should be done regarding increased risk of colorectal cancer in patients younger than 50?
Saturday—7:00-8:00 a.m.

Contraception
Room 114 MTP 099 Ⓟ
Professor: Eve Espey, MD, MPH
1. What are the risks, benefits, efficacy rates, and relative costs of various contraceptive options for men and women?
2. What is long-acting reversible contraception (LARC), and which women are candidates for these contraceptive methods?
3. When should emergency contraception be considered, and what are available options?
4. How can the CDC Medical Eligibility Criteria for Contraceptive Use inform decision making regarding contraceptive choice for women with medical conditions?
5. When can contraception be safely discontinued?

Diagnosis and Management of Kidney Stones
Terrace III MTP 074 Ⓟ
Professor: Gary Curhan, MD, ScD
1. What is the current standard in the diagnosis of kidney stone type and risk for an individual patient?
2. What management steps have been shown to decrease risk for recurrent calcium oxalate stones?
3. When is it important to consider referral to a urologist for management of kidney stones?
4. What is the management of an acute episode of nephrolithiasis?

Eye Conditions That Require Immediate Referral: What the Internist Needs to Know
Room 121 SS 002
Professor: Stephanie Jones Marionaux, MD
1. What are some examples of eye conditions that require immediate referral or consultation?
2. What are the signs of eye emergencies?
3. What should and should not be done while waiting for the ophthalmology evaluation?

Hospital and Critical Care Radiology That You Should Not Miss When the Radiologist Isn’t Available
Room 103 MTP 049 Ⓟ
Professor: Brian Kaufman, MD
1. What structured approach should I take to chest and abdominal imaging?
2. What features of chest imaging are easily missed that may place my patients at risk?
3. What features of chest imaging are easily misinterpreted that may place my patients at risk?
4. What emergent imaging findings need to be acted upon immediately?
5. What complications of ICU management can I detect with radiologic studies?

Initial Ventilator Management and Troubleshooting Ventilator Challenges
Room 118 MTP 051 Ⓟ
Professor: Paul A. Kinniry, MD, Member
1. What criteria should I use, and what is the evidence behind selecting initial ventilator modes?
2. What common challenges occur during the initiation and maintenance of invasive ventilation, and how can hospitalists troubleshoot and correct common problems?
3. What initial approaches should be taken for the difficult-to-wean patient?

Medical Marijuana: Use and Management Update
Terrace IV MTP 010 Ⓟ
Professor: Ellie Grossman, MD, MPH
1. What is the latest evidence for which medical conditions legal cannabis is indicated?
2. Is there any evidence for modality preference or dosing of medicinal marijuana?
3. How should internists monitor patients using medicinal marijuana or cannabis oil?
4. What specific risks and side effects should primary care doctors be aware of? What prescription drugs and marijuana interactions do we need to know about?

Minimizing Medical-Legal Risk and Maintaining Inpatient Care Quality: Cases from the Trenches
Room 120 MTP 056 Ⓟ
Professor: Allen B. Kachalia, MD, JD
1. What legal risks should hospitalists be most attuned to?
2. What risk reduction strategies can hospitalists apply during their routine practice?
3. What case-specific diagnostic risk reduction strategies should hospitalists employ?

Motivational Interviewing for the Busy Clinician
Independence Ballroom II-III (HQ) CSW 026
Director: Damara N. Gutnick, MD, FACP
Faculty: Brian Hurley, MD, MBA, DFASAM
Kathleen G. Reims, MD
1. Explain how the spirit of motivational interviewing (MI) provides the foundation for a Brief Action Plan.
2. Describe how ASK-TELL-ASK can be used to effectively offer information and advice and save time.
3. Explain the MI concepts of “change talk” and “the righting reflex.”
4. Practice applying the core skills (OARS) of motivational interviewing.

Note: This is a 2-hour workshop. Clinical Skills Workshops take place at the Philadelphia Marriott Downtown Hotel (HQ).
Valvular Heart Disease
Terrace I-II  MTP 007
Professor:  Robert O. Bonow, MD, MACP
1. What is the role of echocardiography in the diagnosis and treatment of valvular heart disease, and when (and how often) should echocardiography be performed? When is CT or MRI helpful?
2. What are the indications for valve surgery based on current AHA/ACC guidelines?
3. What are the current indications for transcatheter valve therapies?

Saturday–7:00-8:00 a.m.

Annals of Internal Medicine Beyond the Guidelines: To what target A1c would you treat this patient with diabetes?
Room 122  PN 041
Moderator:  Gerald W. Smetana, MD, MACP
Panelists:  Deborah J. Cotton, MD, MPH, FACP
David C. Dugdale, MD, FACP
David M. Nathan, MD
1. What are the risks and benefits of aiming for tight glucose control in patients with type 2 diabetes?
2. To what target A1c should we treat patients with type 2 diabetes, and how should we achieve this goal?
3. When is it appropriate to deintensify A1c goals and allow higher blood sugars in patients with type 2 diabetes?

Approach to Wound Care for the Internist
Room 118  MTP 014
Professor:  Michael S. Weingarten, MD, MBA, FACS
1. What is a basic approach to wound care?
2. What topical therapies should the internist prescribe for venous stasis ulcers and other wounds?
3. How should a diabetic foot ulcer be approached in the internist office?
4. What new technologies are on the horizon for wound care?

Challenges in Heart Failure: Diagnosis and Management
Room 113  MTP 001
Professor:  Clyde W. Yancy, MD, MSc, MACP
1. How to diagnose heart failure with a preserved ejection fraction (HFrEF)?
2. What treatments are evidence-based for heart failure with a HFrEF?
3. What diagnostic evaluation is appropriate for patients with heart failure with reduced ejection fraction (HFrEF)?
4. What treatments are evidence-based for heart failure with HFrEF?

Clinical Triad: Sexual, Genital, and Urinary Health in Women
Room 114  CT 004
Moderator:  Iris Tong, MD, FACP
Panelists:  Sheryl A. Kingsberg, PhD
Lisa Larkin, MD, NCMP IF, FACP
Candace Parker-Autry, MD, FACOG, FPMRS
Segment A: Urinary Incontinence and Voiding Dysfunction in Women
1. What is the initial evaluation for incontinence or voiding dysfunction in women?
2. What are the evidence-based treatments?
3. When should a patient be referred to a specialist?
Segment B: Genitourinary Syndrome of Menopause
1. What are signs and symptoms of genitourinary syndrome of menopause (GSM)?
2. What are pharmacologic and nonpharmacologic treatment options for GSM?
3. When should a woman be referred to a specialist?
Segment C: Low Sexual Desire in Women
1. What are factors impacting low sexual desire in women?
2. What are treatment options for low sexual desire in women?
3. When should a woman be referred to a specialist?

Osteoporosis High-Value Care
Room 115  MTP 020
Professor:  Kristine E. Ensrud, MD, MPH, MACP
1. What’s new in the USPTF 2018 recommendations on osteoporosis screening?
2. What are best therapies for drug treatment of osteoporosis, and how do you select candidates for treatment?
3. Monitoring patients on drug treatment with bone mineral density testing: low or high value care?
4. Can we improve rates of treatment initiation among patients with recent hip fracture?

Pancreatitis: Acute and Chronic Management
Room 120  MTP 059
Professor:  Neilanjan Nandi, MD, FACP
1. What is the most appropriate fluid management strategy in patients with mild and severe acute pancreatitis?
2. What criteria should be used in triage of patients to a medical floor versus an ICU setting?
3. What work-up should be initiated when patients with acute pancreatitis do not have an alcohol history or evidence of gallstones?
4. What are the indications for imaging, and what are the indications for surgical consultation in the setting of acute pancreatitis?
Saturday–8:15-9:15 a.m.

Presentation Skills for Physicians: Making Your Next Teaching Presentation Go Better than Your Last
Room 119 MTP 009
Professor: Scott C. Litin, MD, MACP
1. Organize a teaching presentation with special emphasis on an effective opening and a strong closing.
2. Demonstrate helpful skills for presentation techniques.
3. Create and deliver your a more effective presentation.
4. Provide constructive criticism to others regarding their presentations.

Pulmonary Hypertension: The Needle or the Haystack in Dyspnea Admissions
Room 103 MTP 062
Professor: Darren Taichman, MD, PhD, FACP
1. What is the importance of pulmonary hypertension in a patient presenting with dyspnea?
2. What is a high-value care approach to work-up of incidentally diagnosed elevated pulmonary pressures noted on echocardiography?
3. Which patients require specific treatment for pulmonary hypertension?
4. Which patients with pulmonary hypertension require a heart catheterization?

Quality Improvement for the Practicing Hospitalist
Room 121 MTP 063
Professor: Jennifer S. Myers, MD, FACP
1. How can a busy hospitalist find the time to focus on meaningful quality improvement projects?
2. What resources are available to help hospitalists develop quality improvement projects and assess their value?
3. What quality improvement skills and resources does a hospitalist need to practice successfully in 2019 and beyond?
4. What first steps can practicing hospitalists introduce to initiate and sustain successful projects?

Transgender Health and LGBT 101 for the Internist
Terrace III MTP 109
Professor: Rachel L. Levine, MD
1. What are the current recommendations of screening guidelines for malignancy, STD risk, and other preventive health measures for LGBT and transgender patients?
2. What should an internist know about hormone therapy for transgender patients?
3. What resources and guidelines regarding transgender and LGBT health are available for internists?

Saturday–9:30-10:30 a.m.

Update in Hematology
Terrace IV UD 005
Moderator: Ara D. Metjian, MD

What Internists Need to Know about Diagnosing and Managing Headaches: Taking the “Ache” Out of Headache
Terrace I-II MTP 077
Professor: Michael Cutrer, MD
1. What diagnostic work-up and physical exam findings are most helpful for determining the etiology of headache? When is imaging indicated? How do you select type of imaging study?
2. What are the latest treatment options for patients with migraines?
3. What patient characteristics and evidence-based recommendations do you take into consideration when selecting pharmacologic treatment options for patients with migraines?
4. What are the evidence-based, nonpharmacologic treatment options for patients with headaches?

Case-Based Outpatient Management of the Hypertensive Patient
Terrace I-II MTP 073
Professor: Raymond R. Townsend, MD
1. Which patients should have a work-up for secondary hypertension?
2. How should a physician determine the goal/optimal blood pressure for an individual patient?
3. What is the most appropriate way to monitor outpatient blood pressures?
4. What is an evidence-based approach to treating hypertension in outpatients?

Common ENT Conditions for the Internist
Room 118 MTP 082
Professor: Melissa Ann Pynnnonen, MD, MSc
1. When is a nosebleed an emergency? When does the patient need to go to the Emergency Department? When is referral to otolaryngology indicated?
2. What are the evidenced-based recommendations for evaluation and management of hoarseness? When are steroids indicated? When is referral to otolaryngology indicated?
3. What are the evidenced-based recommendations for evaluation and management of neck mass? When are antibiotics indicated? When is referral to otolaryngology indicated?
### Saturday—9:30-10:30 a.m.

#### Communicating Effectively When You Don’t Want To:
**Practical Strategies for Difficult Conversations with Patients, Staff, Administrators, and Other Clinicians**

**Liberty Ballroom C (HQ)**  CSW 035  
**Co-Directors:** Rebecca A. Andrews, MS, MD, FACP  
Auguste H. Fortin VI, MD, MPH, MACP  
**Faculty:** Kevin W. Chamberlin, PharmD, FASCP  
Francesca Colecraft Dwamena, MD, MS, FACP, FAACH  
Robert C. Smith, MD, MACP  
Yihan Yang, MD, Resident/Fellow Member

1. How can you effectively anticipate and prepare for a difficult conversation in the clinical setting?  
2. What is a systematic approach to effectively handle conflict or mismatched expectations in a clinical setting?  
3. What are some tips for getting an emotionally charged or difficult conversation back on track so that those involved can find common ground?  
4. How do you build on the common ground and keep the lines of communication open after your initial discussion?  

**Note:** This is a 90-minute workshop. Clinical Skills Workshops take place at the Philadelphia Marriott Downtown Hotel (HQ).

#### Consult Talk

**Room 113**  PN 005  
**Co-Moderators:** Geno J. Merli, MD, MACP, FHM, FSVM  
Howard H. Weitz, MD, FACC, MACP

Join the Annals Consult Guys as they address a variety of clinical issues while using humor to deliver educational pearls related to the practice of internal medicine.

#### Hand Pain: A Common Problem with Many Causes

**Terrace III**  MTP 093  
**Professor:** Thomas R. Hunt III, MD, DSc

1. How to identify the various common disorders that cause hand and wrist pain (e.g., de Quervain tendonitis, thumb CMC osteoarthritis, carpal tunnel syndrome, thumb ulnar collateral ligament injury, and scaphoid fractures.  
2. When and how to use imaging modalities to diagnose these disorders.  
3. What are nonsurgical initial treatment options for these common hand and wrist disorders? When is surgical referral needed?  

#### Improving Physician Well-Being and Reducing Burnout in Practice and in Our Community

**Liberty Ballroom AB (HQ)**  CSW 032  
**Director:** Eileen D. Barrett, MD, MPH, FACP, FHM  
**Faculty:** Catherine C. Cheng, MD, FACP  
Suja M. Mathew, MD, FACP  
Michelle L. Rossi, MD, FACP

1. Increase knowledge of the prevalence of burnout among American physicians.  
2. Practice strategies for promoting physician wellness.  
3. Learn tools for reducing physician burnout through practice redesign.  

**Note:** This is a 90-minute workshop. Clinical Skills Workshops take place at the Philadelphia Marriott Downtown Hotel (HQ).

#### Individualized Menopause Management in 2019

**Room 114**  MTP 100

**Professor:** JoAnn V. Pinkerton, MD

1. What are the risks and benefits of menopausal hormone therapy?  
2. Which women are the best candidates for the use of menopausal hormone therapy?  
3. When and how should menopausal hormone therapy be stopped?  
4. Under what circumstances might extended use of menopausal hormone therapy be considered?  
5. How is genitourinary syndrome of menopause treated?

#### Inpatient Heart Failure Management: Beyond the Basics

**Room 103**  MTP 053

**Professor:** Christopher J. Droogan, DO, FACC

1. What are the critical updates in inpatient management of the patient with heart failure in 2019?  
2. What are the best evidence-based interventions for reducing readmissions while limiting length of stay? How does one find that balance?  
3. What is the role of palliative care in managing the patient with advanced heart failure? What about ventricular assist devices?

#### Nicholas E. Davies Memorial Award Lecture: Covert Consciousness and Civil Rights: The Neuroethics of Severe Brain Injury

**Room 108**  AL 001  
**Lecturer:** Joseph J. Fins, MD, MACP, FRCP

1. Identify the emerging neuroscience, classification, diagnosis, and treatment of disorders of consciousness.  
2. Address the ethical implications of covert consciousness in clinical practice.  
3. Consider the civil and disability rights of patients with disorders of consciousness.
Noninvasive Ventilation and High-Flow Nasal Oxygen Therapy: Practical Evidence-Based Strategies
Room 121  MTP 057
Professor: Gregory C. Kane, MD, MACP
1. What are the acute indications, criteria, and contraindications for use of noninvasive ventilation (NIV)?
2. How should I manage patients who do not seem to tolerate the NIV mask?
3. Once I start using BPAP or CPAP in the inpatient setting, how do I wean it?
4. If a patient has been started on BIPAP (or CPAP), what criteria determine whether to continue this therapy at home?
5. What is the role of high-flow nasal cannula oxygen in the management of acute hypoxic respiratory distress or failure?

Palliative Care: Optimal Use in the Current World of Oncology
Room 120  MTP 080
Professor: Pallavi Kumar, MD, MPH
1. When should palliative care be introduced into cancer therapy?
2. Does early palliative care improve cancer care outcomes?
3. How should difficult conversations about goals, values, and transitions in care of patients with advanced cancer be approached?

Public Policy and the Opioid Epidemic
Room 115  MTP 023
Moderator: Ryan A. Crowley
Panelists: Rebecca L. Haffajee, JD, PhD, MPH
Regina LaBelle, JD
Charles P. Reznikoff, MD, FACP
1. What state and federal policies have been effective in addressing the opioid epidemic?
2. Are there policy barriers that impede progress on the epidemic?
3. How can health care reform efforts address the opioid epidemic?

Update in Geriatric Medicine
Terrace IV  UD 004
Moderator: Catherine E. DuBeau, MD

Utilizing Health Literacy Communication Techniques to Improve the Patient and Clinician Experience
Independence Ballroom II-III (HQ)  CSW 034
Director: Carla L. Spagnoletti, MD, MS, FACP
Faculty: Jill M. Allenbaugh, MD, MS, Member
Jennifer A. Corbelli, MD, FACP
1. Identify low health literacy as a major limitation in patients’ understanding of their health care.
2. Implement clear communication techniques to combat low health literacy and improve satisfaction.
Note: This is a 90-minute workshop. Clinical Skills Workshops take place at the Philadelphia Marriott Downtown Hotel (HQ).

Beyond Surviving in Medicine: Strategies to Thrive, Be Well, and Find Joy in Practice
Room 114  MTP 114
Professor: Richard M. Wardrop III, MD, PhD, FACP, FAAP
1. Understand the current scope, causes, and burden of burnout within the health care system.
2. Relate evidence-based measures and expert recommendations shown to reduce the burden of burnout at the institutional and individual level.
3. Explore strategies that can increase engagement of providers to achieve better work-life integration.
4. Define a personal approach to building resiliency and bringing joy back into practice.

Challenges in Geriatric Medication Management: An Interactive Case-Based Workshop
Liberty Ballroom C (HQ)  CSW 012
Director: N. Wilson Holland, MD, AGSF, FACP
Faculty: Birju B. Patel, MD, FACP, AGSF
1. Understand factors that lead to polypharmacy and tools to reduce polypharmacy.
2. Be able to appropriately dose medications based on age-related physiologic changes.
3. Recognize potentially inappropriate medications for older adults.
4. Recognize important, lesser-known drug-drug and drug-disease interactions.
Clinical Skills Workshops take place at the Philadelphia Marriott Downtown Hotel (HQ).
Clinical Breakthroughs: Harnessing the Power of the Patient-Physician Relationship to Achieve Improved Outcomes

Liberty Ballroom AB (HQ) CSW 014
Director: Carol M. Chou, MD

1. Better understand the issues that contribute to nonadherence through both patient and physician perspectives.
2. Describe the rationale for engaging patients with multiple comorbidities in care using a variety of techniques and strategies.
3. Leverage a variety of strategies, including education, communication skills, and creative problem solving, to engage patients to achieve improved outcomes and transformational breakthroughs.
4. Address clinical challenges in patients with chronic illnesses, and choose from a variety of strategies to support improved lifestyle management and healthy behaviors.

Clinical Skills Workshops take place at the Philadelphia Marriott Downtown Hotel (HQ).

Clinical Pearls: Neurology and Gastroenterology

Terrace I-II CP 003
Moderator: John B. Bundrick, MD, FACP
Panelists: Jeremy K. Cutsforth-Gregory, MD
Amy S. Oxentenko, MD, FACP, FACC, AGAF

High-Value Risk Stratification in the Noncardiac Patient: Preventive Cardiology

Room 113 MTP 004
Professor: Howard S. Weintraub, MD, FACC

1. Who should be screened for coronary heart disease?
2. When is lab evaluation needed? What thresholds should be used?
3. When is cardiac imaging (e.g., coronary artery calcium score, intima medial thickness, coronary CT angiography) appropriate for risk assessment?
4. What is the next step in patients who are incidentally found to have coronary artery calcium?

Hot Topics in Medical Informatics: Technology Trends That Are Reshaping Medicine

Room 119 PN 028
Moderator: Patricia L. Hale, MD, PhD, FACP
Panelists: Elmer V. Bernstam, MD, MSEE, FACP
Deepthi Pandita, MD, FACP

1. Interact with expert faculty to learn how new technologies and concepts will affect your practice in the near future.
2. Learn what ACP is doing in the world of electronic interoperability, within the framework of e-prescribing.
3. Update in artificial intelligence (AI)—Where is it now? What is real? What is not?

Medical Errors and How to Grow from Them

Room 120 PN 015
Moderator: Tracey L. Henry, MD, MPH, MS, FACP
Panelists: Hyung (Harry) Cho, MD, FACP, FHMS
Thomas H. Gallagher, MD, FACP

1. Learn and apply best practices in communication regarding medical errors with patients, peers, and organizational leadership.
2. Define the incidence, causes, and consequences of emotional distress experienced by physicians after medical errors.
3. Identify opportunities for personal and professional development for physicians who experience emotional distress after medical errors in order to minimize potential negative consequences.
4. Describe peer support programs and other institutional strategies for supporting physicians who experience emotional distress due to medical errors.

Medication Management in the Older Adult: To Escalate or Deescalate?

Room 103 MTP 031
Professor: Rosanne M. Leipzig, MD, PhD, FACP

1. What is polypharmacy, and what are its health consequences for older adults?
2. What “prescribing reflexes” can internists incorporate into their practice when prescribing medications to older adults to minimize adverse events, increase adherence, and increase therapeutic effectiveness?
3. When and how should medications be deprescribed in older adults?
The “Not Lost” Art of the Physical Diagnosis: An Evidence-Based Approach
Terrace III MTP 107
Professor: Paul B. Aronowitz, MD, MACP
1. Demonstrate the value of the physical examination on both diagnosis and management. What role does it play in establishing patient-physician trust and relationships? In expediting appropriate patient care?
2. Discuss the evidence for common physical examination maneuvers including sensitivity/specificity, likelihood ratios, etc. to help interpret exam findings and guide diagnostic workup.
3. Can physical diagnosis play a role in reducing the cost of healthcare?
4. How can bedside ultrasound be used to augment the physical exam in facilitating patient diagnoses?

Outpatient Coding: Do It Right and Get Paid for What You Do
Room 126 MTP 113
Professor: Jeannine Z. Engel, MD, FACP
1. How can I optimize reimbursement, reduce hassles and risk, and code accurately and efficiently?
2. What are the basics of coding and documenting office visit and preventive services?
3. How do I best select the level of office visit service so that I maximize revenue and minimize audit risk?
4. What Medicare coding, billing, and payment policies, both old and new, most affect my bottom line?
5. What resources are available to help me navigate this non-clinical, yet essential, part of medical practice?

Pictures Worth a Thousand Words: Annals Graphic Medicine
Room 123 WSO 001
Director: Michael J. Green, MD, MS, FACP
Co-Directors: Grace Farris, MD
Michael Natter, MD
1. Learn how art can enrich your medical practice.
2. Learn about the various uses of the graphic novel format in medicine.
3. Work with colleagues to develop a sketch for your own graphic medicine “article”.

Reclaiming Meaning and Reducing Burnout by Making Empathic Connections
Independence Ballroom II-III (HQ) CSW 031
Director: Auguste H. Fortin VI, MD, MPH, MACP
Faculty: Francesca Colecraft Dwamena, MD, MS, FACP, FAACH
Robert C. Smith, MD, MACP
Yihan Yang, MD, Resident/Fellow Member
1. Learn patient-centered interviewing techniques to efficiently uncover and empathically respond to patients’ emotions.
2. Observe the techniques demonstrated in an interview.
3. Practice the techniques with colleagues in facilitated small groups using scripted role play.

Thyroid Emergencies: What to Do on the Front Lines
Room 118 MTP 021
Professor: Anne R. Cappola, MD, ScM
1. How do you make the diagnosis of thyroid storm?
2. What is the best initial management for severe hyperthyroidism or thyroid storm?
3. What is the latest update in managing severe hypothyroidism or myxedema coma?
4. How do you manage thyroid disease in pregnancy, including in the pre-, peri-, and postpartum periods?

Update in Hospital Medicine
Terrace IV UD 006
Moderator: Efren C. Manjarrez, MD, Member, SFHM

Vector-Borne Diseases at Home and Abroad
Room 115 MTP 071
Professor: Stephen J. Gluckman, MD, FACP, FIDSA
1. What are the preferred diagnostics for Lyme disease? What is the role of antibiotics for Lyme disease and post-treatment Lyme disease syndrome? How can primary care providers address post-treatment Lyme disease syndrome?
2. What are common vector-borne reasons for febrile illness in the returning traveler?
3. What are risk factors for acquisition and common complications of Chikungunya, Zika, and dengue?
Combating Cognitive Bias: Improving Clinical Decision Making in Everyday Practice
Independence Ballroom II-III (HQ)  CSW 019
Director: Deborah DiNardo, MD, MS, FACP
Faculty: Melissa McNeil, MD, MPH, MACP
Gary H. Tabas, MD, MACP
Sarah A. Tilstra, MD, MS, FACP
1. Define type I and type II reasoning, and identify the pros and cons of both types.
2. List 5 common cognitive biases, and describe how they can contribute to diagnostic error.
3. Demonstrate how the standardized approach to the diagnostic process presented in the session can be used in everyday clinical practice to reduce cognitive bias.

Communicating Effectively When You Don’t Want To: Practical Strategies for Difficult Conversations with Patients, Staff, Administrators, and Other Clinicians
Liberty Ballroom C (HQ)  CSW 020
Co-Directors: Rebecca A. Andrews, MS, MD, FACP
Auguste H. Fortin VI, MD, MPH, MACP
Faculty: Kevin W. Chamberlin, Pharm.D, FASCP
Francesca Colecraft Dwamena, MD, MS, FACP, FAACH
Robert C. Smith, MD, MACP
Yihan Yang, MD, Resident/Fellow Member
1. How can you effectively anticipate and prepare for a difficult conversation in the clinical setting?
2. What is a systematic approach to effectively handle conflict or mismatched expectations in a clinical setting?
3. What are some tips for getting an emotionally charged or difficult conversation back on track so that those involved can find common ground?
4. How do you build on the common ground and keep the lines of communication open after your initial discussion?

Improving Physician Well-Being and Reducing Burnout in Practice and in Our Community
Liberty Ballroom AB (HQ)  CSW 033
Director: Eileen D. Barrett, MD, MPH, FACP, FHM
Faculty: Catherine C. Cheng, MD, FACP
Suja M. Mathew, MD, FACP
Michelle L. Rossi, MD, FACP
1. Increase knowledge of the prevalence of burnout among American physicians.
2. Practice strategies for promoting physician wellness.
3. Learn tools for reducing physician burnout through practice redesign.

Leadership Styles
Room 119 PN 043
Moderator: Lacy C. Hobgood, MD, FACP, FAAP
Panelists: Andrea S. Cedfeldt, MD, FACP
Joshua D. Lenchus, DO, FACP, SFHM
1. Recognize personal leadership style tendencies.
2. Identify a variety of leadership styles.
3. Determine the pros and cons of different leadership styles.
4. Develop a personal leadership brand.
5. Demonstrate ability to utilize leadership styles in a case study.

Mastering the Match
Room 126 PN 040
Moderator: Robert Dobbin Chow, MD, MBA, MACP
Panelists: Randall S. Edson, MD, MACP, FIDSA
Sara L. Wallach, MD, MACP
1. What are some tips for completing the medical student CV in ERAS (Electronic Residency Application Service)?
2. What are some of the most common interview techniques and questions, and what are some good practice responses?
3. How can medical students evaluate and rank residency programs in the context of the National Resident Matching Program® (NRMP®) algorithm?
4. What is the role of postinterview communication with residency programs?
Media in Healthcare: Podcasts, Social Media, and Beyond
Room 122 PN 012
Moderator: Matthew F. Watto, MD, FACP
Panelists: Esther Choo, MD, MPH
Fatima Zahara Syed, MD, MSc, FACP
1. Define best practices for optimal use of various forms of media to enhance patient care, physician satisfaction, and physician engagement in civic discourse.
2. Empower physicians with tools to share information between medical providers.
3. Explore individual and population-based ethical considerations that must be considered with the growth of social media in health care.
4. Explore examples of physicians working together on medical issues (e.g., Doctors Without Borders/Médecins Sans Frontières, physician advocacy groups, etc.).

Multiple Small Feedings of the Mind: Cardiology, Women's Health, and Hematology & Oncology
Terrace I-II MSFM 003
Moderator: Rachel P. Brook, MD, Member
Panelists: Marc J. Kahn, MD, MBA, MACP
Janet P. Pregler, MD, FACP
Eric H. Yang, MD, FACC, FASE
Cardiology
1. What is the role of ambulatory blood pressure monitoring in managing hypertension? How is it most effectively used?
2. After confirmation of persistent sinus tachycardia, what, if any, further evaluation or treatment is indicated (treatment more important than evaluation)?
3. What are the most evidence-based treatments for HFpEF?
Women's Health
1. What is the latest evidence regarding risks, benefits, and duration of post-menopausal hormone replacement therapy?
2. How do we counsel patients about the risk of breast cancer with topical estrogens and oral contraceptive pills?
3. How should breast density shape our approach to breast cancer screening?
Hematology & Oncology
1. When is chemotherapy for early stage breast cancer indicated, and what tests/risk stratification methods help guide this decision?
2. What are the current evidence-based recommendations for management of isolated calf deep vein thromboses? What role does repeat ultrasound play in guiding therapy?
3. What are the latest recommendations with regard to the use of novel oral anticoagulants in patients with malignancy? In patients with end stage renal disease/chronic kidney disease?

Nutrition and Diet for the Internist: 10 Things You Need to Know So You Can Teach Your Patients
Terrace IV MTP 026
Professor: Marijane Hynes, MD, Member
1. What is the evidence behind different dietary approaches to weight loss, such as low-carb versus low-fat versus calorie counting?
2. What programs have been shown to work over the long term?
3. What is the role of new technology, such as online apps, in helping patients lose weight?
4. What does the literature tell us about the “diabetic diet”?
5. What does the evidence say about how much protein is needed in the diet?
6. What is the role of protein in chronic renal failure? What does the evidence say?

Physician Competency and Aging
Room 121 PN 037
Moderator: Thomas H. Gallagher, MD, FACP
Panelists: Sean V. Burke Esq.
Daniel M. Feinberg, MD, FAAN
Murray Grossman, MD, EDD
Gerald B. Hickson, MD
1. Know the demographics of the physician workforce as related to age.
2. Understand findings from research examining aging, physician skill, and competency to practice.
3. Understand current organizational, institutional, and regulatory trends related to physician aging and competency.
4. Consider the evidence base related to skills and aging and the applicability of these data to physician competency assessment.
5. Identify appropriate strategies for ensuring maintenance of competency with aging and transitioning roles to ensure safety and personal satisfaction.

Practical Electrolyte Management: Sodium, Potassium, Phosphorus, and More
Room 103 MTP 061
Professor: Steven M. Gorbatkin, MD, PhD, Member
1. What are the best practices in the management of moderate and severe hyponatremia and hypernatremia, and how are patient complications of therapy best averted?
2. What are the safe and effective management strategies of hypokalemia and hyperkalemia?
3. How are low and high phosphorus and calcium levels most appropriately managed?
Scientific Program Sessions

Saturday—2:15-3:45 p.m.

Practical Strategies for Increasing Adult Immunization While Improving Equity, Efficiency and Reimbursement
Room 118  PN 032
Moderator: John H. O’Neill Jr., DO, MACP
Panelists: Frances E. Ferguson, MD, MPH, FACP
Jason M. Goldman, MD, FACP

1. Review most recent Advisory Committee on Immunization Practices recommendations and insurance coverage of vaccines for adults.
2. Discuss strategies for purchasing and billing for vaccines and efficient workflows for implementing vaccinations protocols in the ambulatory practice setting.
3. Understand effective strategies for promoting health equity for diverse patient populations and reducing racial disparities in adult immunization rates.
4. Examine real-world examples of practices implementing adult immunizations.

Practical Tips to Help You Care for Refugees
Room 114  PN 039
Moderator: Romela Petrosyan, MD, Resident/Fellow Member
Panelists: Lesleigh A. Box, MD, FACP
Elisa I. Choi, MD, FACP

1. Where do refugees in the United States come from, and how do they get here?
2. What specific resources and strategies are available to help overcome barriers to care for refugees, including services through refugee resettlement programs, accessing medications, and improving communication?
3. How do we better understand key cultural elements affecting refugees—namely, language, family, and religion? How can we view cultural humility and trauma-informed care as a critical and necessary component of effective medical care for refugees?

Transitions of Care: A Joint Session of the ACP and the European Federation of Internal Medicine
Terrace III  PN 025
Moderator: Nestor R. Sosa, MD, FACP
Panelists: Xavier Corbella, MD, PhD, MBA
Christine D. Jones, MD, MS

1. Understand the patient safety, quality of care, health outcomes, and economic impact of issues associated with transitions of care.
2. Identify the most vulnerable points in the care transition process where failures are likely to occur.
3. Identify the most common root causes of failures in transitions of care.
4. Develop both individual and system-based strategies to help address failures in transitions of care.

Update in Pulmonary Medicine
Room 113  UD 011
Moderator: Jess Mandel, MD, FACP

VTE Challenges: A Case-Based Panel Discussion
Room 115  PN 004
Moderator: David A. Cohen, MD, FACP
Panelists: Gregory Piazza, MD, MS
Rachel Rosovsky, MD, MPH

1. In what clinical situations are IVC filters indicated? When should they be removed?
2. Which patients with submassive PE deserve consideration for thrombolysis?
3. When should thrombolysis versus systemic thrombolysis be used to optimize efficacy and safety?
4. What anticoagulation regimens can be used in patients with active cancer?
5. What should I do for my patient with upper-extremity DVT?

Saturday—4:00-5:00 p.m.

Anticoagulation
Room 118  MTP 033
Professor: Christian Ruff, MD, MPH

1. What is the latest update in anticoagulation?
2. When should novel oral anticoagulants (NOACs) be stopped?
3. When should aspirin be continued in addition to anticoagulation?

Cancer Survivorship Care in the Era of Team-Based Medicine
Room 121  MTP 078
Professor: Kevin Oeffinger, MD

1. What is a high-value approach to screening for treatment complications (e.g., coronary artery disease, stroke, congestive heart failure, neuropathy, loss of teeth)?
2. What second malignancies should be screened for following breast, colorectal, and prostate cancer?
3. What is the long-term physical and emotional fitness and employability of cancer survivors?
4. How is care from oncologist to primary care provider smoothly transferred?
**Saturday—4:00-5:00 p.m.**

**Delirium Evaluation and Management in the Hospital**
Room 108  MTP 044
Professor: E duard E. Vasilevskis, MD, MPH, Member
1. What are the underlying causes and practical approaches to the management and prevention of inpatient delirium?
2. What is the best high-value care approach to pharmacologic treatment/control of delirium, and what is their impact upon patient safety?
3. What are subtle indications of sub-acute delirium that every clinician should be aware of? Can early recognition and treatment impact length of stay?

**Dermatologic Emergencies**
Terrace IV  SS 003
Professor: Daniela Kroshinsky, MD, MPH
1. What are examples of dermatologic emergencies?
2. When should the internist call the dermatologist for a stat consult?
3. How do you recognize the dermatologic emergencies?

**Helping Your Patients with Chronic Kidney Disease**
Room 115  MTP 075
Professor: Joseph A. Vassalotti, MD
1. What steps can be taken to slow the progression of kidney disease?
2. How do new therapies for diabetes impact the care of the patient with chronic kidney disease (CKD)?
3. What are the data on continuing or stopping ACEi or ARB in kidney function and outcomes in advanced CKD?
4. What is the best management strategy for anemia related to CKD?
5. What conditions occur commonly in CKD patients that affect quality of life, and how should these be managed?
6. When should patients with worsening kidney function be referred to a nephrologist?

**Integrating East/West Medicine into Your Practice**
Room 119  MTP 105
Professor: Ka-Kit Hui, MD, FACP
1. What are the top 10 herbs and supplements that primary care physicians should be aware of?
2. What conditions have the most evidence-based benefit from east/west medicine?
3. What east/west treatments have been found to be most effective?
4. Are there any contraindications to a patient receiving east/west treatments, such as acupuncture or trigger point injections?

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**Internal Medicine Meeting 2019 Highlights: Key Messages You’ll Want to Take Home and Doctor’s Dilemma®: The Finals**

**Saturday, 5:15–6:30 p.m., Terrace I-II**
Hear three outstanding clinician-educators share what they think are Internal Medicine Meeting 2019’s most important take-home messages.

**Highlights Moderator**
Patrick E. Young, MD, FACP, FACG, FASGE
Professor of Medicine, Director, Digestive Diseases Division, Uniformed Services University, Bethesda, MD

**Highlights Panelists**
Rachel P. Brook, MD, Member
Assistant Clinical Professor of Medicine, Division of General Internal Medicine, Department of Medicine, University of California, Los Angeles, Los Angeles, CA

LT COL Joshua D. Hartzell, MD USA, FACP
Assistant Dean for Faculty Development, Associate Professor, Division of Infectious Disease, Department of Medicine, Uniformed Services University of the Health Sciences, Bethesda, MD

James B. O’Keefe, MD, Member
Assistant Professor of Medicine, Division of General Internal Medicine and Geriatrics, Department of Medicine, Emory University School of Medicine, Atlanta, GA

Then, join the excitement of the final round of Doctor’s Dilemma®. The “Final Five” teams of residents who survived the Thursday and Friday competitions will face off in the championship round of this Jeopardy-style test of knowledge. The winner takes home the Osler Cup—ACP’s coveted trophy.

**Doctor’s Dilemma® Moderator**
Melissa (Moe) Hagman, MD, FACP
Associate Professor, Department of Medicine, University of Washington–Boise, Boise, ID
**Saturday—4:00-5:00 p.m.**

**Interstitial Lung Disease: What the Internist Needs to Know**
Terrace III  MTP 086  
Professor: Jesse Roman, MD, FACP
1. How should incidental interstitial changes on a CT scan be approached?
2. How can interstitial lung disease (ILD) be recognized early?
3. What evaluation should the internist perform when ILD is detected?
4. Who should be referred to a specialized center?
5. When should newer therapies be considered?

**Obesity Management: Pharmacologic, Surgical, and Postsurgical**
Room 103  MTP 027  
Professor: Osama S. Hamdy, MD, PhD
1. How does one choose a weight loss medication?
2. Will long-term weight loss be achieved by medical intervention?
3. Who should the internist refer for bariatric surgery? What are the guidelines?
4. What is the value of bariatric surgery for patients with diabetes?
5. What are the basics of management of a patient after having bariatric surgery?

**Shock and Sepsis Management to Save Lives**
Room 120  MTP 064  
Professor: Patricia A. Kritek, MD, EdM
1. How should hospitalists differentiate clinically between different types of shock, and how should they be managed?
2. What aspects of early goal-directed therapy should still be employed, and what are the most appropriate ways to identify what are the critical updates in management of a patient with sepsis?
3. How can hospital medicine programs best meet the very complex sepsis core measures and improve sepsis care quality?
4. What are the high-value care best practices for identifying and managing patients with sepsis on inpatient units? What system improvements can improve outcomes (e.g., RRT, early ICU transfer, early fluids, etc.)?

**Saturday—5:15-6:30 p.m.**

**Stable Ischemic Heart Disease**
Room 114  MTP 005  
Professor: L. Kristin Newby, MD, MHS
1. What pharmacologic agents have shown benefit in patients with stable ischemic heart disease (SIHD)?
2. What is the role of repeated cardiac imaging in patients with coronary artery disease (CAD)?
3. What has the evidence shown for revascularization versus optimal medical therapy alone in SIHD?

**Update in Rheumatology**
Room 113  UD 012  
Professor: John J. Cush, MD
1. How does one choose a weight loss medication?
2. Will long-term weight loss be achieved by medical intervention?
3. Who should the internist refer for bariatric surgery? What are the guidelines?
4. What is the value of bariatric surgery for patients with diabetes?
5. What are the basics of management of a patient after having bariatric surgery?

**Internal Medicine Meeting 2019 Highlights: Key Messages You’ll Want to Take Home and Doctor’s Dilemma®: Championship**
Terrace I-II  IMH 001  
Moderator: Patrick E. Young, MD, FACP, FACG, FASGE
Panelists: Rachel P. Brook, MD, Member
 LT COL Joshua D. Hartzell, MD USA, FACP
 James B. O’Keefe, MD, Member

Doctor’s Dilemma®  Melissa (Moe) Hagman, MD, FACP
Moderator:
Sessions designed for physicians who practice primarily in an inpatient setting.

If you practice primarily in an inpatient setting, consider attending some of the following sessions that cover a range of issues that confront hospital-based physicians, including general medical care in the inpatient setting, medical consultation, end-of-life care, patient safety, and more.

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<tbody>
<tr>
<td>Acute Coronary Syndrome Management: When the Clock Is Ticking on the Ticker</td>
<td>Thursday 8:15-9:15 a.m.</td>
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<tr>
<td>Allergic Reactions: Urgent and Emergent Hospital Management</td>
<td>Friday 9:30-10:30 a.m.</td>
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<td>Antibiotics Made Ridiculously Simple (…or at Least a Heck of a Lot Easier!)</td>
<td>Thursday 2:15-3:45 p.m.</td>
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<td>Carpe Diem: Managing the Inpatient with Seizures</td>
<td>Friday 8:15-9:15 a.m.</td>
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<tr>
<td>COPD and Asthma Exacerbations: Best Evidence and Best Practice</td>
<td>Friday 2:15-3:45 p.m.</td>
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<td>COPD: What's New for Inpatient and Outpatient Care?</td>
<td>Friday 11:15 a.m.-12:45 p.m.</td>
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<td>Curbside Consultations in Infectious Diseases</td>
<td>Friday 2:15-3:45 p.m.</td>
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<tr>
<td>Deciphering Acid-Base Management</td>
<td>Thursday 7:00-8:00 a.m.</td>
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<td>Saturday 4:00-5:00 p.m.</td>
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<tr>
<td>Encephalitis and Meningitis: Identification and Management</td>
<td>Friday 8:15-9:15 a.m.</td>
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<td>Handoffs: Improving Patient Care Transitions within the Hospital</td>
<td>Thursday 7:00-8:00 a.m.</td>
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<tr>
<td>Hematologic Emergencies</td>
<td>Friday 4:30-5:30 p.m.</td>
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<tr>
<td>Hepato-Anxiety: Treating Acute Liver Failure and Decompensated Chronic Liver Failure</td>
<td>Thursday 4:30-5:30 p.m.</td>
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<tr>
<td>Hospital and Critical Care Radiology That You Should Not Miss When the Radiologist Isn’t Available</td>
<td>Saturday 7:00-8:00 a.m.</td>
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<td>Hypertension Management of the Inpatient: When High Isn’t a Good Thing</td>
<td>Friday 7:00-8:00 a.m.</td>
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<td>Initial Ventilator Management and Troubleshooting Ventilator Challenges</td>
<td>Saturday 7:00-8:00 a.m.</td>
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<tr>
<td>Inpatient Coding: Thinking Inside the Box</td>
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<tr>
<td>Inpatient Diabetes Management: Show Me Some Sugar!</td>
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<tr>
<td>Inpatient Heart Failure Management: Beyond the Basics</td>
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<tr>
<td>Inpatient Pain Management in the Era of the Opioid Epidemic</td>
<td>Thursday</td>
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<tr>
<td>Inpatient Sickle Cell Disease Care: Managing Our Inpatients to Keep Them Outpatients</td>
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<tr>
<td>Minimizing Medical-Legal Risk and Maintaining Inpatient Care Quality: Cases from the Trenches</td>
<td>Saturday</td>
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<tr>
<td>Noninvasive Ventilation and High-Flow Nasal Oxygen Therapy: Practical Evidence-Based Strategies</td>
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<td>Palliative Care in the Noncancer Inpatient</td>
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<td>Pancreatitis: Acute and Chronic Management</td>
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<td>Perioperative Cardiac Evaluation</td>
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<td>Perioperative Controversies</td>
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<td>Practical Electrolyte Management: Sodium, Potassium, Phosphorus, and More</td>
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<tr>
<td>Pulmonary Hypertension: The Needle or the Haystack in Dyspnea Admissions</td>
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<tr>
<td>Quality Improvement for the Practicing Hospitalist</td>
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<td>8:15-9:15 a.m.</td>
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<tr>
<td>Shock and Sepsis Management to Save Lives</td>
<td>Saturday</td>
<td>4:00-5:00 p.m.</td>
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<tr>
<td>Stroke and TIA: Inpatient Evaluation and Management</td>
<td>Friday</td>
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<tr>
<td>Syncope Management: The Three “Es“ of Care (Effective, Efficient, and Economical)</td>
<td>Friday</td>
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<td>Top 5 High-Value Care Topics in Inpatient Medicine: Things We Do for No Reason</td>
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<td>Update in Hospital Medicine</td>
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<tr>
<td>VTE Challenges: A Case-Based Panel Discussion</td>
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### Ambulatory Medicine Sessions

If you practice primarily in an ambulatory care setting, consider attending some of the following sessions that address an array of clinical issues relevant to outpatient care.

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<tr>
<td>Back Pain: Get Your Patient Back in the Game</td>
<td>Thursday 7:00-8:00 a.m.</td>
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<tr>
<td>Best Foot Forward: Common Foot and Ankle Complaints That Stumble into the Office</td>
<td>Saturday 7:00-8:00 a.m.</td>
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<tr>
<td>Beyond A1c: Using Professional Continuous Glucose Monitoring to Improve Type 2 Diabetes Management in Primary Care</td>
<td>Saturday 7:00-9:00 a.m.</td>
<td>Liberty Ballroom C (HQ)</td>
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<tr>
<td>A Brief Military History: The Key to Good Health Care for Veterans in Your Practice</td>
<td>Friday 7:00-8:30 a.m.</td>
<td>Independence Ballroom II-III (HQ)</td>
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<td>Friday 11:15 a.m.-12:45 p.m.</td>
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<tr>
<td>C. Wesley Eisele Lecture: Practice Transformation Using the Chronic Care Model</td>
<td>Thursday 8:15-9:15 a.m.</td>
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<td>Cancer Survivorship Care in the Era of Team-Based Medicine</td>
<td>Saturday 4:00-5:00 p.m.</td>
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<td>Cardiac Murmurs: Benign or Serious</td>
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<td>Friday 4:30-6:00 p.m.</td>
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<td>Care of the Pregnant Patient</td>
<td>Thursday 11:15 a.m.-12:45 p.m.</td>
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<tr>
<td>Case-Based Outpatient Management of the Hypertensive Patient</td>
<td>Saturday 9:30-10:30 a.m.</td>
<td>Terrace I-II</td>
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<tr>
<td>Cervical Cancer Screening and HPV Update for the Internist</td>
<td>Thursday 2:15-3:45 p.m.</td>
<td>Terrace III</td>
<td>MTP 098</td>
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<tr>
<td>Challenges in Geriatric Medication Management: An Interactive Case-Based Workshop</td>
<td>Thursday 4:30-6:00 p.m.</td>
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<tr>
<td>Clinical Breakthroughs: Harnessing the Power of the Patient-Physician Relationship to Achieve Improved Outcomes</td>
<td>Thursday 4:30-6:00 p.m.</td>
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<td>Clinical Images to Improve Your Knowledge Base and Refine Your Clinical Reasoning Skills</td>
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Gender平等に施術を提供する恐怖症

Recorded sessions $ Fulfills state-specific CME requirements
## Ambulatory Medicine Sessions

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<td>Clinical Triad: Lung Cancer Screening: Is It Ready for Prime Time?</td>
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<td>Clinical Triad: Rheumatology: Early Diagnoses You Don't Want to Miss</td>
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<td>Clinical Triad: Sexual, Genital, and Urinary Health in Women</td>
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<td>Common ENT Conditions for the Internist</td>
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<td>Common Neurologic Conundrums for the Internist: Peripheral Neuropathy, Tremors, and Vertigo</td>
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<td>Commonly Missed Diagnoses in Allergy and Immunology</td>
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<td>A Complete Contraceptive Toolkit: Cases and Demos</td>
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<td>Curbside Consultations in Infectious Diseases</td>
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<tr>
<td>Dementia, Incontinence, and Falls: High-Value Care in the Older Adult</td>
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<td>From Myelodysplastic Syndrome to Myeloproliferation: The Mystery of the Marrow</td>
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<td>High-Value Risk Stratification in the Noncardiac Patient: Preventive Cardiology</td>
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<td>HIV: Long-Term Complications, Preexposure Prophylaxis, and Postexposure Prophylaxis</td>
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<td>Individualized Menopause Management in 2019</td>
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<td>Innovations in Behavioral Modification: Nudging Your Way to Better Care</td>
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<td>Irritable Bowel Syndrome: New Hope for an Old Problem</td>
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<td>Management of Depression and Anxiety for the Internist: How Not to Have a Panic Attack</td>
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<td>News You Can Use: Current Guidelines in Breast Cancer Screening, Depression, Hematuria, and Pelvic Exam</td>
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<td>Nutrition and Diet for the Internist: 10 Things You Need to Know So You Can Teach Your Patients</td>
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<td>Practical Office Orthopedics for Primary Care Providers: The Knee</td>
<td>Friday</td>
<td>2:15-4:15 p.m.</td>
<td>Liberty Ballroom AB (HQ)</td>
<td>CSW 030</td>
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</tbody>
</table>
Ambulatory Medicine Sessions

Practical Office Orthopedics for the Primary Care Physician: Knee and Shoulder
Thursday 11:15 a.m.-12:45 p.m. Room 113 MTP 095

Rheumatoid Arthritis and Systemic Lupus Erythematosus: What the Internist Needs to Know and Do about Preventive Care
Friday 7:00-8:00 a.m. Room 113 MTP 096

Stable Ischemic Heart Disease
Saturday 4:00-5:00 p.m. Room 114 MTP 005

Syncope Management: The Three “Es” of Care (Effective, Efficient, and Economical)
Friday 9:30-10:30 a.m. Room 103 MTP 066

Update in Ambulatory General Internal Medicine
Friday 9:30-10:30 a.m. Terrace IV UD 014

Utilizing Health Literacy Communication Techniques to Improve the Patient and Clinician Experience
Saturday 9:30-11:00 a.m. Independence Ballroom II-III (HQ) CSW 034
Prescribe PrEP
Prevent HIV

Protect all your patients at substantial risk for HIV with PrEP (pre-exposure prophylaxis)

Up to 92% effective when taken consistently. PrEP is a highly effective way to prevent HIV. It’s easy to prescribe and convenient for patients.

Find out more about this safe and effective way to change the course of the HIV epidemic at www.cdc.gov/prescribeHIVprevention

Get FREE PrEP resources and materials for your patients at: www.cdc.gov/prescribeHIVprevention

Clinical Content from *Annals of Internal Medicine*

Annals has the resources you need to improve the quality of patient care, such as:
- Clinical Guidelines
- Original Research
- Systematic Reviews
- In the Clinic
- Web Exclusives
- Annals On Call

Experience these and all Annals has to offer: www.annals.org
Clinical Skills Center

Do you enjoy small-group interactive learning?
Get the hands-on experience that can transform the way you practice medicine.
ACP’s Clinical Skills Center is a dynamic collection of educational activities that provides hands-on learning, interactive self-study, and other events and exhibits designed to improve physician well-being and professional satisfaction. Numerous topics and varied workshop lengths give Internal Medicine Meeting 2019 attendees a unique opportunity to customize their learning experience.

Learning Objectives:
• Refine physical examination skills
• Learn indications and contraindications for commonly performed office procedures
• Improve skills in commonly performed office procedures

Clinical Skills Center Hours of Operation
Thursday, April 11: 9:00 a.m.–6:00 p.m.
Friday, April 12: 7:00 a.m.–6:00 p.m.
Saturday, April 13: 8:00 a.m.–3:00 p.m.
All Clinical Skills Center activities are located inside Hall C.

Hackathon—MIT Hacking Medicine at Internal Medicine Meeting 2019
ACP is partnering with MIT’s renowned Hacking Medicine program to bring a 4-hour Hackathon to Internal Medicine Meeting 2019 on Saturday, April 13. Forward-thinking health professionals, engineers, designers, developers, and technologists will build teams to develop interdisciplinary hacks (solutions) to improve clinician workflows. Note: Prior registration was required in advance of the meeting. No walk-ins permitted.

Ticketing
Because of high demand, Clinical Skills Center activities are reserved, ticketed sessions. Ticketing for Clinical Skills Center activities was conducted online in advance of Internal Medicine Meeting 2019. There is no onsite registration for the Clinical Skills Center; however, walk-ins will be admitted if capacity allows. Seats may be available for select sessions if ticket holders do not show up for these activities.

Reserved Ticket Policy
Attendees who purchased reserved tickets are expected to arrive for activities on time. Reserved seats will be held until 10 minutes after the activity begins. After 10 minutes, unfilled seats will be made available to walk-ins. Late arrivals who have purchased tickets will be admitted if capacity allows.

Clinical Skills Center Open House
Friday, April 12, 7:00–7:45 a.m.
Stop by for complimentary coffee and an opportunity to meet the faculty and experience all that the Clinical Skills Center has to offer. Participate in a scavenger hunt and a putting contest for a chance to win fantastic prizes, such as a free copy of the new MKSAP® 18 or an ACP gift card.

Walk-ins Welcome
While tickets to most activities sold out in advance online, there are often no-shows, leaving seats unfilled. These unfilled seats will be made available to walk-ins at no charge. There are also several activities that don’t require tickets, including Interactive “Virtual Dx” Microlearning activities and Physician Well-Being and Personal Satisfaction presentations.
This year, the Clinical Skills Center will host several activities related to physician well-being and professional satisfaction. Participate in a series of mini skills sessions to enhance well-being; 4 different sessions will be repeated each day. Take a look at the interactive exhibit on workflow innovations for hospitalists and ambulatory care and add your ideas. Finally, tell us what keeps YOUR heart in medicine by posting a short note on our popular Hearts in Medicine banner.

Please note: Tickets are not required for these sessions.

Mini But Mighty: Skills for Well-Being Sessions Schedule

Thursday, 4/11/2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Featured Mini Skill</th>
</tr>
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<tr>
<td>10:35-10:50 a.m.</td>
<td>Mindfulness based stress reduction (relaxation and self-regulation)</td>
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<td>10:55-11:10 a.m.</td>
<td>Self-care to increase endorphins</td>
</tr>
<tr>
<td>12:50-1:05 p.m.</td>
<td>Practicing gratitude for sustained well-being</td>
</tr>
<tr>
<td>1:10-1:25 p.m.</td>
<td>Well-being elevator speech</td>
</tr>
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<td>3:50-4:05 p.m.</td>
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<td>4:10-4:25 p.m.</td>
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Join us for the
Clinical Skills Center Open House
Friday, April 12, 2019 • 7:00 a.m.–7:45 a.m. • Exhibit Hall C

Rise, shine, and explore the “Thrills and Skills” epicenter of Internal Medicine Meeting.

Meet and greet the faculty and learn about the hands-on learning opportunities available to you.

Participate in a Scavenger Hunt for a chance to win a free copy of the new MKSAP 18.

Check out the activities dedicated to improving Physician Well-Being and Professional Satisfaction.

Put your golf putting skills to the test for a chance to win an ACP gift card.

Or just come for the Philadelphia beans! Enjoy some local complimentary coffee while discovering what the Clinical Skills Center has to offer.
**Clinical Skills Center**

**21st-Century Bedside Medicine Skills**

*1.5-hour sessions*
- **Friday:** Noon, 2:00 p.m., 4:00 p.m.
- **Saturday:** 9:00 a.m., 11:00 a.m.

**Faculty:**
- Maja K. Artandi, MD, FACP
- Andrew Elder, MD, FACP
- Brian Garibaldi, MD, MEHP, FACP (Course Director)
- John F. Kugler, MD
- Timothy Niessen, MD, FACP
- Stephen W. Russell, MD, FACP

Learn to perform and interpret high-yield physical exam maneuvers and to incorporate emerging technology into your clinical practice.

**Arthrocentesis & Bursal Injection**

*1-hour sessions*
- **Thursday:** 9:30 a.m., 11:00 a.m., 12:30 p.m., 2:00 p.m., 3:30 p.m., 5:00 p.m.
- **Friday:** 8:00 a.m., 9:30 a.m., 11:00 a.m., 12:30 p.m., 2:00 p.m., 3:30 p.m., 5:00 p.m.
- **Saturday:** 8:00 a.m., 9:30 a.m., 11:00 a.m., 12:30 p.m., 2:00 p.m.

**Faculty:**
- Eric J. Anish, MD, FACP, FACSM
- Harshad Chaudhari, MD, Resident/Fellow Member
- Kenneth A. Epstein, MD, Member
- Theresa J. Frimel, NP-C
- Paul F. Howard, MD, MACP, FACR (Course Director)
- Kevin J. Kempf, MD, FACP, FACR
- Marcia G. Ko, MD, FACP
- Trent H. Smith, MD, Member, FACR
- Andrea Labus, MD, Resident/Fellow Member

Faculty will demonstrate joint injection techniques, and participants will practice these procedures on joint models. An instructional video of these procedures will also be available for viewing. Participants will learn the anatomical landmarks used to identify injection sites and the procedural steps for performing arthrocentesis and soft-tissue injection on shoulders and knees.

**Workshop Prerequisite:** Viewing of 25-minute arthrocentesis video. To view the video, visit annualmeeting.acponline.org/csvideos or the meeting app.

**Building Your Ultrasound Portfolio: Image Review and Feedback**

*1-hour sessions*
- **Thursday:** 9:00 a.m., 2:30 p.m., 3:30 p.m., 4:30 p.m.
- **Friday:** 8:00 a.m., 9:00 a.m., 10:00 a.m., 1:30 p.m.
- **Saturday:** 8:00 a.m., 9:00 a.m., 11:00 a.m., Noon

**Faculty:**
- Keith R. Barron, MD, Member
- Michael S. Wagner, MD, FACP (Course Director)

Enhance the quality of your portable ultrasound examinations by reviewing your images in person with experts in the field. This session is ideal for participants of prior ultrasound workshops who do not have local access to image quality assurance and would like personalized feedback and mentorship as they learn this important skill.

**Cardiac Diagnosis with “Harvey®,” the Cardiopulmonary Patient Simulator**

*1.5-hour sessions*
- **Thursday:** 9:30 a.m., 11:30 a.m., 1:30 p.m., 3:30 p.m.
- **Friday:** 8:00 a.m., 10:00 a.m., Noon, 2:00 p.m., 4:00 p.m.
- **Saturday:** 8:00 a.m., 10:00 a.m., Noon

**Faculty:**
- Donald D. Brown, MD, FACP, FACC
- Joseph B. Esterson, MD, FACP, FACCC, FCCP
- George T. Kondos, MD, Member
- Ross J. Scalese, MD, FACP (Course Director)

Using repetitive practice with feedback, this workshop will teach the most important bedside cardiac findings (“The Big 12”) by using a proven training system: “Harvey®,” the Cardiopulmonary Patient Simulator. Skills learned in this workshop will be based on an understanding of the cardiac pressure and volume curves and involvement through interaction and mimicry of auscultation.
Chronic Leg Wound Management

1.5-hour sessions
Thursday: 2:00 p.m., 4:00 p.m.
Friday: 2:00 p.m., 4:00 p.m.
Saturday: 8:30 a.m., 10:30 a.m.

Faculty:
Theodore G. MacKinney, MD, MPH, FACP (Course Director)
Margaret McCarty Stanisic, PT, CLT, CWS, MS
Barbara J. Provo, MSN, FNP-BC, CWON

Participants will learn to differentiate among major leg wound categories and how to prepare wounds for treatment and know which topical or systemic treatments to use on chronic leg wounds. The workshop will focus on when to use multilayer compression wraps and provide practical tips for the management of venous leg ulcers.

Diagnosis-Driven Physical Examination of the Knee

1.5-hour sessions
Thursday: 9:00 a.m., Noon, 3:00 p.m.
Friday: 8:00 a.m.

Faculty:
Sameer Dixit, MD, FACP
Kevin Eerkes, MD
Michal "Kalli" Hose, MD
David G. Liddle, MD, FACP
Meg Pearson, MD
Anna P. Quan, MD
Carlin H. Senter, MD, FACP (Course Director)
Sara Slattery, MD, Member
Leslie Yen, MD, RMSK, FACP

Improve your skills at taking a focused history and performance of the diagnosis-driven physical examination of the knee. Learn knee exam maneuvers that are useful in identifying the most commonly diagnosed knee problems seen by internists in primary care. Participants will change into scrubs (provided by the Clinical Skills Center) and break into small groups for hands-on practice on each other.

Workshop Prerequisite: Viewing of video on physical examination skills. To view the video, visit annualmeeting.acponline.org/csvideos or go to the meeting app.

Diagnosis-Driven Physical Examination of the Shoulder

1.5-hour sessions
Thursday: 10:30 a.m., 1:30 p.m., 4:30 p.m.
Friday: 9:30 a.m.

Faculty:
Sameer Dixit, MD, FACP
Kevin Eerkes, MD
Michal "Kalli" Hose, MD
David G. Liddle, MD, FACP
Meg Pearson, MD
Anna P. Quan, MD
Carlin H. Senter, MD, FACP (Course Director)
Sara Slattery, MD, Member
Leslie Yen, MD, RMSK, FACP

Improve your skills at taking a focused history and performance of the diagnosis-driven physical examination of the shoulder. Learn shoulder exam maneuvers that are useful in identifying the most commonly diagnosed shoulder problems seen by internists in primary care. Participants will change into scrubs (provided by the Clinical Skills Center) and break into small groups for hands-on practice on each other.

Workshop Prerequisite: Viewing of video on physical examination skills. To view the video, visit annualmeeting.acponline.org/csvideos or go to the meeting app.

Foot and Ankle Disorders

1.5-hour sessions
Thursday: 10:00 a.m., Noon
Friday: 8:00 a.m., 10:00 a.m.

Faculty:
Richele L. Corrado, DO, MPH, Member
Kim F. Gibson, MD, FACP
Jeanne P. Mitchell, MD, FACP
Joan B. Ritter, MD, FACP (Course Director)

Become familiar with common complaints involving the foot and ankle. Participants will learn the appropriate use of foot and ankle orthotics and recognize indications for imaging studies and subspecialty referral.

annualmeeting.acponline.org
Function-Focused Gait Assessment

1.5-hour sessions

**Friday:** 1:00 p.m., 3:00 p.m.
**Saturday:** 9:00 a.m., 11:00 a.m.

**Faculty:**
- Everett Hills, MD
- Natasha L. Romanoski, DO
- Matthew Silvis, MD
- John Wawrzyniak, ATC, PT, CSCS

Strengthen your knowledge of normal versus abnormal walking and running by combining highly effective clinical history gathering methods with hands-on practice of focused clinical physical examination skills.

Incision and Drainage of Abscesses

1-hour sessions

**Thursday:** 12:30 p.m., 2:00 p.m., 3:30 p.m., 5:00 p.m.
**Friday:** 12:30 p.m., 2:00 p.m., 3:30 p.m., 5:00 p.m.
**Saturday:** 8:00 a.m., 9:30 a.m., 11:00 a.m., 12:30 p.m., 2:00 p.m.

**Faculty:**
- Greg Casey, DO
- Lisa M. Filippone, MD
- Brian Freeze, MD
- Kanika Gupta, MD
- Anthony S. Mazzeo, MD, FACEP, FFAEM (Course Director)
- Joseph Maciuba, MD, Resident/Fellow Member
- Sundip Patel, MD
- Thomas Rebbechi, MD

Using simulation models, participants will learn how to incise, drain, irrigate, and pack abscesses under the supervision of expert faculty. Supplies and postprocedure care will also be discussed.

Intraosseous Catheter Placement

1-hour sessions

**Thursday:** Noon, 1:30 p.m.
**Friday:** 8:00 a.m., 9:30 a.m.
**Saturday:** 11:00 a.m., 12:30 p.m.

**Faculty:**
- Anshu R. Abhat, MD, MPH, Member
- YiJu Teresa Liu, MD
- Adrian P. Umpierrez, MD, FACP
- Jason Williams, MD, Member (Course Director)

Learn the potentially lifesaving applications for IO catheters and how to minimize and monitor for complications. Participants will break into small groups for hands-on practice placing IO catheters on task trainers.

Ophthalmoscopic Skills

1.5-hour sessions

**Thursday:** 10:00 a.m., Noon, 2:00 p.m., 4:00 p.m.
**Friday:** 8:00 a.m., 10:00 a.m., Noon, 2:00 p.m., 4:00 p.m.
**Saturday:** 8:30 a.m., 10:30 a.m.

**Faculty:**
- Eugene C. Corbett Jr., MD, MACP (Course Director)
- Simon J. Lehtinen, MD, FACP
- Andrew Parsons, MD, Member
- J. Andrew Starr, MD, Member

This workshop is designed to enhance ophthalmoscopic examination of the cornea; anterior chamber; lens; and retina, including venous pulsations.
Skin Biopsy & Cryosurgery

1-hour sessions
Thursday: 9:30 a.m., 11:00 a.m., 12:30 p.m., 2:00 p.m., 3:30 p.m., 5:00 p.m.
Friday: 8:00 a.m., 9:30 a.m., 11:00 a.m., 12:30 p.m., 2:00 p.m., 3:30 p.m., 5:00 p.m.
Saturday: 8:00 a.m., 9:30 a.m., 11:00 a.m., 12:30 p.m., 2:00 p.m.

Faculty:
Irina Burman, MD, FACP
Roger W. Bush, MD, MACP
Duyen T. Faria, DO
Auguste H. Fortin VI, MD, MPH, MACP (Course Director)
Carrie A. Horwitch, MD, MPH, MACP
Joseph Maciuba, MD, Resident/Fellow Member
Richard Shellenberger, DO, FACP

Learn how to perform various skin biopsy and cryosurgery techniques. Faculty members are available to provide instruction and feedback as participants practice these techniques on pigs’ feet. Participants will practice three skin biopsy techniques: shave, punch, and elliptical excision; become familiar with the supplies and equipment needed to do skin biopsies in the office setting; and learn how to remove a lesion with cryosurgery.

Workshop Prerequisite: Viewing of 25-minute video on skin biopsy. To view the video, visit annualmeeting.acponline.org/csvideos or go to the meeting app.

Suturing Skills

1-hour sessions
Thursday: 9:30 a.m., 11:00 a.m., 12:30 p.m., 2:00 p.m., 3:30 p.m., 5:00 p.m.
Friday: 8:00 a.m., 9:30 a.m., 11:00 a.m., 12:30 p.m., 2:00 p.m., 3:30 p.m., 5:00 p.m.

Faculty:
Sean P. Gnecco, MD
Ritesh B. Patel, MD, FACP
Vijay Rajput, MD, MBBS, FACP, SFHM (Course Director)
Sunil Sapru, MD, FACP

Learn how to perform various suturing techniques, and become familiar with the supplies and equipment needed to suture wounds in the office setting. Expert faculty will provide instruction and feedback as participants practice these techniques on pigs’ feet.

Toenail Removal

1-hour sessions
Friday: 8:00 a.m., 9:30 a.m., 11:00 a.m.
Saturday: 8:00 a.m., 9:30 a.m., 11:00 a.m.

Faculty:
Galen T. Foulke, MD (Course Director)
Charlene Lam, MD, MPH

Learn the indications for toenail removal and which procedures are appropriate for generalists. Using a realistic model and actual surgical instruments, practice a digital block, wedge resection and removal of an ingrown toenail, and wound care. Necessary supplies, follow-up care, and complication guidelines will also be discussed.

Workshop Prerequisite: Viewing of 15-minute video on toenail removal. To view the video, visit annualmeeting.acponline.org/csvideos or go to the meeting app.

Ultrasound-Guided Central Venous Line Placement

2-hour sessions
Thursday: 9:00 a.m., 9:30 a.m., 10:00 a.m., 10:30 a.m., 12:30 p.m., 1:00 p.m., 1:30 p.m., 2:00 p.m., 2:30 p.m., 3:00 p.m.
Friday: 8:00 a.m., 8:30 a.m., 9:00 a.m., 9:30 a.m., 10:00 a.m., 10:30 a.m., 12:30 p.m., 1:00 p.m., 1:30 p.m., 2:00 p.m.
Saturday: 8:30 a.m., 9:00 a.m., 9:30 a.m., 10:00 a.m., 10:30 a.m., 11:00 a.m., 11:30 a.m.

Faculty:
Cyrus Askin, MD, Resident/Fellow Member
Rita N. Bakhru, MD, MS (Course Director)
Keith Boniface, MD
Steven Fox, MD, Resident/Fellow Member
Joan Hoch Kinniry, MSN, CRNP
Paul A. Kinniry, MD, Member
Shruti Patel, MD, Member
William Schweickert, MD, Member
Hamid Shokoohi, MD, MPH, RDMS, FACEP
Jason Williams, MD, Member

annualmeeting.acponline.org
This workshop will use ultrasonography, live patient models, and simulators to teach safe central venous line placement skills. Moving through three separate learning stations, participants will learn how to find vessels by using hand-held ultrasonography, practice line placement technique on high-fidelity simulators, and learn about the equipment necessary to perform the procedure. Expert faculty will be onsite to provide instruction and feedback.

**Ultrasound-Guided Lumbar Puncture**

1.5-hour sessions

**Thursday:** 1:30 p.m., 3:00 p.m., 4:30 p.m.

**Friday:** 1:30 p.m., 3:00 p.m., 4:30 p.m.

**Saturday:** Noon, 1:30 p.m.

**Faculty:**
Jack Badawy, MD, MBChB
Mary Catherine Johnson, MD
Robert Nathanson, MD, FACP (Course Director)
Joshua Pazos, MD, MPH
Raudel Rodriguez, MD, Member
Benjamin E. Stephens, MBBS, Member
Alison Wiseman, MD

Participants will watch a demonstration of lumbar puncture technique and then practice the procedure on simulation models. Expert faculty will provide feedback and discuss these techniques pre- and postprocedure.

**Ultrasound-Guided Paracentesis**

1.5-hour sessions

**Thursday:** Noon, 2:00 p.m., 4:00 p.m.

**Friday:** 8:00 a.m., 10:00 a.m., Noon

**Saturday:** 8:00 a.m., 10:00 a.m.

**Faculty:**
Ola Al Sous, MD, Member
Alyssa V. Burkhart, MD, FACP
Jeremy Hatchett, MD
Joshua D. Lenchus, DO, FACP, SFHM (Course Director)
Jacob Ludwig, DO, MBA, Resident/Fellow Member
Maria Antonietta Mosetti, MD, Member

Using ultrasonography equipment and training models, participants will learn how to find landmarks and practice paracentesis technique. The indications, contraindications, and complications of the procedure will also be reviewed.

**Ultrasound-Guided PICC Line Placement**

1.5-hour sessions

**Thursday:** 9:00 a.m., 10:30 a.m.

**Friday:** 1:00 p.m., 2:30 p.m.

**Saturday:** 8:00 a.m., 9:30 a.m.

**Faculty:**
Hailey Hogue, MD, Member
Michael J. McNeal, MD, FACP
Austin Metting, MD, FACP
Curtis R. Mirkes, DO, FACP (Course Director)
Megan G. Newman, MD, FACP

This workshop will teach the indications, technical skills, and practice implications regarding placement of PICC lines and provide hands-on training in placing PICC lines with the aid of hand-held ultrasonography and partial task simulators.

**Ultrasound-Guided Thoracentesis**

1.5-hour sessions

**Thursday:** 9:00 a.m., 11:00 a.m., 2:00 p.m.

**Friday:** 8:00 a.m., 10:00 a.m., 1:00 p.m.

**Faculty:**
Tonya Anderson, MD, FACP, FHM
Aaron J. Calderon, MD, FACP (Course Director)
Alice Gallo De Moraes, MD, FACP
Emily R. Gilbert, MD
Joan Hoch Kinniry, MSN, CRNP
Ranju Kunwor, MD, Resident/Fellow Member
Neil H. Winawer, MD, Member, SFHM

Using ultrasonography equipment and training models, participants will learn to identify landmarks, diagnose pleural effusions, and practice thoracentesis technique. They will also review the indications, contraindications, and complications of the procedure.
Interactive "Virtual Dx" Microlearning
Enhance your ECG interpretation skills, dermatologic image interpretation skills, and point-of-care ultrasound analysis skills by engaging in a variety of microlearning opportunities based on the popular Virtual Dx program from MKSAP. Relax and learn at your pace and on your schedule.

Physician Well-Being and Professional Satisfaction Activities
- Participate in a series of mini skills sessions to designed to enhance well-being.
- Add your ideas to an interactive exhibit on workflow innovations for hospitalists and ambulatory care.
- Tell us what keeps YOUR heart in medicine by posting a short note on the Hearts in Medicine banner.

Tickets are not required for these activities.

2019 Herbert S. Waxman Chief Resident Teaching Scholarship
This scholarship was established to recognize outstanding Chief Medical Residents and to provide them an opportunity to assist teaching popular clinical skills workshops under the guidance and mentorship of expert faculty at the ACP Internal Medicine Meeting. ACP is proud to acknowledge this year’s chief resident awardees:
Cyrus Askin, MD
Steven Fox, MD
Ranju Kunwor, MD
Andrea Labus, MD
Jacob Ludwig, DO, MBA
Joseph Maciuba, MD

Video Prerequisites
For free online access to the video prerequisites indicated, use the following link or scan the QR code with your smartphone or tablet (QR code-reading software required):

annualmeeting.acponline.org/csvideos
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<td>Cardiac Diagnosis with Harvey®, the Cardiopulmonary Patient Simulator</td>
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<td>Chronic Leg Wound Management</td>
<td>1.5-hour workshops</td>
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<td>Dermatologic Image Interpretation</td>
<td>Open admission/no time limit; Available 9:00 a.m.-6:00 p.m.</td>
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<td>ECG Interpretation Skills</td>
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<td>Incision and Drainage of Abscesses</td>
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</tr>
<tr>
<td>Intraosseous Catheter Placement</td>
<td>Noon, 1:30 p.m.</td>
</tr>
<tr>
<td>Ophthalmoscopic Skills</td>
<td>1-hour workshops</td>
</tr>
<tr>
<td>Skin Biopsy and Cryosurgery</td>
<td>Noon, 2:00 p.m., 4:00 p.m.</td>
</tr>
<tr>
<td>Suturing Skills</td>
<td>1-hour workshops</td>
</tr>
<tr>
<td>Toenail Removal</td>
<td>1-hour workshops</td>
</tr>
<tr>
<td>Ultrasound-Guided Central Venous Line Placement</td>
<td>2-hour workshops</td>
</tr>
<tr>
<td>Ultrasound-Guided Lumbar Puncture</td>
<td>1.5-hour workshops</td>
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<tr>
<td>Ultrasound-Guided Paracentesis</td>
<td>1.5-hour workshops</td>
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<tr>
<td>Ultrasound-Guided PICC Line Placement</td>
<td>1.5-hour workshops</td>
</tr>
<tr>
<td>Ultrasound-Guided Thoracentesis</td>
<td>1.5-hour workshops</td>
</tr>
<tr>
<td>Ultrasound Image Analysis Skills</td>
<td>Open admission/no time limit; Available 9:00 a.m.-6:00 p.m.</td>
</tr>
<tr>
<td>Schedule of Activities</td>
<td>Friday, April 12</td>
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<tr>
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</tr>
<tr>
<td><strong>21st-Century Bedside Medicine Skills</strong></td>
<td>Noon, 2:00 p.m., 4:00 p.m.</td>
</tr>
<tr>
<td>1-hour workshops</td>
<td></td>
</tr>
<tr>
<td><strong>Arthrocentesis and Bursal Injections</strong></td>
<td>8:00 a.m., 9:30 a.m., 11:00 a.m., 12:30 p.m., 2:00 p.m., 3:30 p.m., 5:00 p.m.</td>
</tr>
<tr>
<td>1-hour workshops</td>
<td></td>
</tr>
<tr>
<td><strong>Building Your Ultrasound Portfolio: Image Review and Feedback</strong></td>
<td>8:00 a.m., 9:00 a.m., 10:00 a.m., 1:30 p.m.</td>
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<tr>
<td>1-hour workshops</td>
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</tr>
<tr>
<td><strong>Cardiac Diagnosis with Harvey®, the Cardiopulmonary Patient Simulator</strong></td>
<td>8:00 a.m., 10:00 a.m., Noon, 2:00 p.m., 4:00 p.m.</td>
</tr>
<tr>
<td>1.5-hour workshops</td>
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</tr>
<tr>
<td><strong>Chronic Leg Wound Management</strong></td>
<td>2:00 p.m., 4:00 p.m.</td>
</tr>
<tr>
<td>1.5-hour workshops</td>
<td></td>
</tr>
<tr>
<td><strong>Dermatologic Image Interpretation</strong></td>
<td>Open admission/no time limit; Available 9:00 a.m.-6:00 p.m.</td>
</tr>
<tr>
<td><strong>Diagnosis-Driven Physical Examination of the Knee</strong></td>
<td>8:00 a.m.</td>
</tr>
<tr>
<td>1.5-hour workshops</td>
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</tr>
<tr>
<td><strong>Diagnosis-Driven Physical Examination of the Shoulder</strong></td>
<td>9:30 a.m.</td>
</tr>
<tr>
<td>1.5-hour workshops</td>
<td></td>
</tr>
<tr>
<td><strong>ECG Interpretation Skills</strong></td>
<td>Open admission/no time limit; Available 9:00 a.m.-6:00 p.m.</td>
</tr>
<tr>
<td><strong>Foot and Ankle Disorders</strong></td>
<td>8:00 a.m., 10:00 a.m.</td>
</tr>
<tr>
<td>1.5-hour workshops</td>
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</tr>
<tr>
<td><strong>Function-Focused Gait Assessment</strong></td>
<td>1:00 p.m., 3:00 p.m.</td>
</tr>
<tr>
<td><strong>Incision and Drainage of Abscesses</strong></td>
<td>12:30 p.m., 2:00 p.m., 3:30 p.m., 5:00 p.m.</td>
</tr>
<tr>
<td>1-hour workshops</td>
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</tr>
<tr>
<td><strong>Intraosseous Catheter Placement</strong></td>
<td>8:00 a.m., 9:30 a.m.</td>
</tr>
<tr>
<td>1-hour workshops</td>
<td></td>
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<tr>
<td><strong>Ophthalmoscopic Skills</strong></td>
<td>8:00 a.m., 10:00 a.m., Noon, 2:00 p.m., 4:00 p.m.</td>
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<tr>
<td>1.5-hour workshops</td>
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<tr>
<td><strong>Skin Biopsy and Cryosurgery</strong></td>
<td>8:00 a.m., 9:30 a.m., 11:00 a.m., 12:30 p.m., 2:00 p.m., 3:30 p.m., 5:00 p.m.</td>
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<tr>
<td>1-hour workshops</td>
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<tr>
<td><strong>Suturing Skills</strong></td>
<td>8:00 a.m., 9:30 a.m., 11:00 a.m., 12:30 p.m., 2:00 p.m., 3:30 p.m., 5:00 p.m.</td>
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<tr>
<td>1-hour workshops</td>
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<tr>
<td><strong>Toenail Removal</strong></td>
<td>8:00 a.m., 9:30 a.m., 11:00 a.m.</td>
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<tr>
<td>1-hour workshops</td>
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<tr>
<td><strong>Ultrasound-Guided Central Venous Line Placement</strong></td>
<td>8:00 a.m., 8:30 a.m., 9:00 a.m., 9:30 a.m., 10:00 a.m., 10:30 a.m., 12:30 p.m., 1:00 p.m., 1:30 p.m., 2:00 p.m.</td>
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<tr>
<td>2-hour workshops</td>
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<tr>
<td><strong>Ultrasound-Guided Lumbar Puncture</strong></td>
<td>1:30 p.m., 3:00 p.m., 4:30 p.m.</td>
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<tr>
<td>1.5-hour workshops</td>
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<tr>
<td><strong>Ultrasound-Guided Paracentesis</strong></td>
<td>8:00 a.m., 10:00 a.m., Noon</td>
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<tr>
<td>1.5-hour workshops</td>
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<tr>
<td><strong>Ultrasound-Guided PICC Line Placement</strong></td>
<td>1:00 p.m., 2:30 p.m.</td>
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<tr>
<td>1.5-hour workshops</td>
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<tr>
<td><strong>Ultrasound-Guided Thoracentesis</strong></td>
<td>8:00 a.m., 10:00 a.m., 1:00 p.m.</td>
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<tr>
<td>1.5-hour workshops</td>
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<tr>
<td><strong>Ultrasound Image Analysis Skills</strong></td>
<td>Open admission/no time limit; Available 9:00 a.m.-6:00 p.m.</td>
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<td><strong>Schedule of Activities</strong></td>
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<tr>
<td>Schedule of Activities</td>
<td>Saturday, April 13</td>
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<tr>
<td>21st-Century Bedside Medicine Skills</td>
<td>9:00 a.m., 11:00 a.m.</td>
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<td>1-hour workshops</td>
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</tr>
<tr>
<td>Arthrocentesis and Bursal Injections</td>
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<td>1-hour workshops</td>
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<tr>
<td>Building Your Ultrasound Portfolio: Image Review and Feedback</td>
<td>8:00 a.m., 9:00 a.m., 11:00 a.m., Noon, 6:00 p.m.</td>
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<td>1-hour workshops</td>
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<td>Cardiac Diagnosis with Harvey®, the Cardiopulmonary Patient Simulator</td>
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<td>Chronic Leg Wound Management</td>
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<td>Intraosseous Catheter Placement</td>
<td>11:00 a.m., 12:30 p.m.</td>
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<td>Toenail Removal</td>
<td>8:00 a.m., 9:30 a.m., 11:00 a.m.</td>
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<tr>
<td>1-hour workshops</td>
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<tr>
<td>Ultrasound-Guided Central Venous Line Placement</td>
<td>8:30 a.m., 9:00 a.m., 9:30 a.m., 10:00 a.m., 10:30 a.m., 11:00 a.m., 11:30 a.m.</td>
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<td>2-hour workshops</td>
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<tr>
<td>Ultrasound-Guided Lumbar Puncture</td>
<td>Noon, 1:30 p.m.</td>
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<td>1.5-hour workshops</td>
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</table>
HIV Care is Built on Brief Conversations Between Providers and Patients

Tools and information from CDC can help health care providers talk to patients about HIV treatment, care, and transmission prevention.

Access Now: www.cdc.gov/preventioniscare
10% off MKSAP® 18!

Visit us today to receive your special onsite-only meeting discount.

The all-new MKSAP 18 is available at a 10% discount if you order Print, Digital, or Complete at Internal Medicine Meeting 2019.

Be sure to visit the MKSAP booth in the ACP Resource Center located within the exhibit hall before you leave.

Don’t miss out on this opportunity for your special meeting discount!
Convocation Ceremony
Thursday • 6:00 p.m. • CC, Hall B
Please join ACP leaders in honoring those recently elected to Fellowship. Recognized by their peers for outstanding medical scholarship and professional achievement, new Fellows march alongside their ACP Governor and local awardees in a moving ceremony. Designed to showcase excellence in medicine, Convocation includes the presentation of Masterships and specific individual and organizational awards granted by the College. The global community of internal medicine is represented with colleagues from the International Society of Internal Medicine, the European Federation of Internal Medicine, and the Royal Colleges and Academies joining ACP leaders on stage to celebrate this important event.
For further information about new Fellows, awards, awardees, new Masters, Honorary Fellows, and international dignitaries, see the separate Convocation Program, available at Convocation and on request at Internal Medicine Meeting 2019 registration. Everyone invited to march in Convocation has been notified in advance with detailed information. General information follows.

Honorary Fellows and Special Representatives
Honorary Fellowships are presented to invited presidents (or equivalents) from international medical associations who attend Convocation and are not already members of the College. Presidents who are already members or Honorary Fellows and distinguished guests representing presidents who could not themselves attend sit on stage as Special Representatives.

Gowning Information
All gowning and preparation for Convocation takes place in Hall C of the Convention Center. Gowns for Fellows to be inducted are available in Hall C beginning at 11:30 a.m., Thursday, April 11, 2019. Pre-Convocation assembly of new Fellows is in Hall C from 5:00-5:30 p.m.
Gowning for the President and Chair of the Board of Regents, distinguished guests, new Masters, and national award recipients is in Hall C beginning at 4:00 p.m. to allow sufficient time for official photographs to be taken.
Gowning for other Officers and Regents is at 4:30 p.m. in Hall C. Gowning for Governors and chapter awardees is at 5:00 p.m. in Hall C. The Governor groups and chapter awardees are to assemble with their new Fellows by 5:30 p.m. in Hall C.

Photographs in Academic Regalia
Any Fellow or Master of the College may order a photograph in academic regalia. Professional photographers will be available on Thursday, April 11, and Friday, April 12, should you wish to have a formal portrait taken. Photos are taken on Thursday from noon-8:00 p.m. and on Friday from 9:30 a.m.-noon in the Broad Street Atrium. Various portrait options are available, and prices vary according to the selection. Appointments can be made at the Lifetouch Photography center located in the Broad Street Atrium.

Guests
Convocation is held in Hall B. Guests are welcome to attend Convocation; no tickets are required. Seating for Convocation is on a first-come, first-served basis from 5:00-5:50 p.m. in Hall B and continues after the processional. No one is admitted during the processional, which begins at 6:00 p.m. Those with small children are encouraged to use the child care services at their hotel or the service available for Internal Medicine Meeting 2019 attendees at the Philadelphia Marriott Downtown.

Celebrate New Fellows, Masters, and Awardees
Be sure to attend the reception given by your chapter to celebrate the accomplishments of new Fellows, new Masters, and awardees. For a list of receptions, see page 76. New Fellows and new Masters are invited to wear ribbons on their badges and use the Fellows and Masters Lounge in the Exhibit Hall at location 124.
DVDs of Convocation may be purchased after the ceremony for shipment later in the year. Order forms are included in the Convocation Program and are also available in the gowning areas. In addition, don’t miss a visit to the “Wall of Fame” in the lobby outside Hall C for a unique photo opportunity.

Legend
CC Pennsylvania Convention Center
HQ Philadelphia Marriott Downtown (Headquarter Hotel)
2018-19 Awardees of the American College of Physicians

John Phillips Memorial Award for Outstanding Work in Clinical Medicine
John C. LaRosa, MD, MACP
Brooklyn, New York

James D. Bruce Memorial Award for Distinguished Contributions in Preventive Medicine
Lawrence Deyton, MD
Washington, District of Columbia

Alfred Stengel Memorial Award for Outstanding Service to the American College of Physicians
Virginia L. Hood, MBBS, MPH, MACP
Burlington, Vermont

Harriet P. DusTAN Award for Outstanding Work in Science as Related to Medicine
Mary M. Horowitz, MD, MACP
Milwaukee, Wisconsin
Cynthia L. Sears, MD, FACP
Baltimore, Maryland

Edward R. Loveland Memorial Award
The Connecticut Hospice
Branford, Connecticut

Jane F. Desforges Distinguished Teacher Award
Lewis E. Braverman, MD, MACP
Boston, Massachusetts
Jeffrey G. Wiese, MD, MACP
New Orleans, Louisiana

Richard and Hinda Rosenthal Award #1 from The Rosenthal Family Foundation
Shyam Kottilil, MBBS, FACP
Baltimore, Maryland

Richard and Hinda Rosenthal Award #2 from The Rosenthal Family Foundation
The Grady Liver Clinic
Atlanta, Georgia

Ralph O. Claypoole Sr. Memorial Award for Devotion of a Career in Internal Medicine to the Care of Patients
Roger B. Daniels, MD, FACP
Philadelphia, Pennsylvania

Nicholas E. Davies Memorial Scholar Award for Outstanding Contributions to Humanism in Medicine
Joseph J. Fins, MD, MACP, FRCP
New York, New York

Joseph F. Boyle Award for Distinguished Public Service
Vivek H. Murthy, MD
Washington, District of Columbia

Oscar E. Edwards Memorial Award for Volunteerism and Community Service
Alan W. Keister, MD, FACP
Amarillo, Texas

Alvan R. Feinstein Award
David K. Henderson, MD, FACP
Bethesda, Maryland

Walter J. McDonald Award for Young Physicians
Jillian S. Catalanotti, MD, FACP
Arlington, Virginia

Joseph E. Johnson Leadership Award
Hind Rafei, MD
Houston, Texas

Herbert S. Waxman Award for Outstanding Medical Student Educator
J.S. Neumeister, MD, FACP
Omaha, Nebraska

W. Lester Henry Award for Diversity and Access to Care
Deidra C. Crews, MD, FACP
Baltimore, Maryland

Samuel Eichold II Memorial Award for Contributions in Diabetes
Ruth S. Weinstock, MD, FACP
Syracuse, New York

ACP Award for Distinguished Contributions to Behavioral Medicine
Kevin Volpp, MD, FACP
Philadelphia, Pennsylvania

ACP Award for Outstanding Educator of Residents and Fellows
James B. Lewis Jr., MD, MACP
Memphis, Tennessee

ACP Award for a Distinguished Contribution by ACP National or Chapter Staff
John Derrickson
Ocean City, New Jersey

Steven E. Weinberger Award for Physician Executives/Leaders
D. Craig Brater, MD, MACP
Indianapolis, Indiana

Elizabeth and Emily Blackwell Award for Outstanding Contributions to Advancing the Careers of Women in Medicine
Jeanne M. Clark, MD, FACP
Baltimore, Maryland
2018-2019 Masters
Robert L. Allison, MD, MACP
Fort Pierre, South Dakota
Keith B. Armitage, MD, MACP
Cleveland Heights, Ohio
John Zaven Ayanian, MD, MACP
Ann Arbor, Michigan
Harriet A. Bering, MD, MACP
Lexington, Massachusetts
David Blumenthal, MD, MACP
Brookline, Massachusetts
Marie L. Borum, MD, EdD, MPH, MACP
Fairfax Station, Virginia
Lewis E. Braverman, MD, MACP
Boston, Massachusetts
Marie T. Brown, MD, MACP
Riverside, Illinois
Patricia D. Brown, MD, MACP
Grosse Pointe Park, Michigan
Helen Burstin, MD, MPH, MACP
Washington, District of Columbia
James F. Bush, MD, MACP
Cheyenne, Wyoming
Lynn M. Cleary, MD, MACP
Syracuse, New York
Steven L. Cohn, MD, MACP
Miami Beach, Florida
Ellen M. Cosgrove, MD, MACP
Las Vegas, Nevada
John V. Cox, DO, MACP
Dallas, Texas
Richard E. Deichmann Jr., MD, MACP
River Ridge, Louisiana
Karen B. DeSalvo, MD, MPH, MSc, MACP
Jefferson, Louisiana
Charlene M. Dewey, MD, M.Ed., MACP
Nashville, Tennessee
Andrew S. Dunn, MD, MPH, SFHM, MACP
Montebello, New York
Donald Echenberg, MD, MACP
Sherbrooke, Quebec, Canada
Linda S. Efferen, MD, MACP
Dix Hills, New York
Roberto Esquerra, MD, MACP
Bogota, Colombia
George D. Everett, MD, MACP
Casselberry, Florida
S. Clark Fincher, MD, MACP
Searcy, Arkansas
Thomas E. Finucane, MD, MACP
Bookline, Massachusetts
Bruce D. Fisher, MD, MACP
Edison, New Jersey
Gordon L. Fung, MD, MACP
San Francisco, California
Gregory C. Gardner, MD, MACP
Seattle, Washington
Ray H. Hall Jr., MD, MACP
Jonesboro, Arkansas
Walid M. Hassan, MBBChe, MACP
Jeddah, Saudi Arabia
Michael M. Hawkins, MD, MACP
Meggett, South Carolina
Jairo T. Hidal, MD, MACP
Sao Paulo, Brazil
Carrie A. Horwitch, MD, MPH, MACP
Seattle, Washington
Quazi Tarikul Islam, MBBS, MACP
Dhaka, Bangladesh
David A. Johnson, MD, MACG, FASGE, MACP
Norkolk, Virginia
Daniel W. Jones, MD, MACP
Jackson, Mississippi
Gregory C. Kane, MD, MACP
Philadelphia, Pennsylvania
John C. LaRosa, MD, MACP
Brooklyn, New York
Lia S. Logio, MD, MACP
Philadelphia, Pennsylvania
Robert H. Lohr, MD, MACP
Rochester, Minnesota
Ana María López, MD, MPH, MACP
Philadelphia, Pennsylvania
Germán E. Malaret, MD, MACP
San Juan, Puerto Rico
Ernest D. Moritz, MD, MACP
New Haven, Connecticut
Stuart B. Mushlin, MD, MACP
Longboat Key, Florida
Robert J. Nardino, MD, MACP
Madison, Connecticut
James S. Newman, MD, MACP
Rochester, Minnesota
Robert C. Pendleton, MD, MACP
Draper, Utah
John R. Pierce Jr., MD, MACP
Lakewood, Colorado
Michael P. Pignone, MD, MPH, MACP
Austin, Texas
Joel H. Popkin, MD, MACP
Shrewsbury, Massachusetts
Orlando Quesada-Vargas, MD, MACP
San Jose, Costa Rica
COL RechelG. Rodriguez, MD, MACP
San Diego, California
Maher A. Roman, MD, MBA, MACP
Loma Linda, California
Donna P. Seminara, MD, MACP
Staten Island, New York
Joseph I. Shapiro, MD, MACP
Huntington, West Virginia
Robert S. Urban, MD, MACP
Amarillo, Texas
Andrew J. Varney, MD, MACP
Springfield, Illinois
Soma Wali, MD, MACP
Porter Ranch, California
John Alfred Walker, MD, MACP
Mystic, Connecticut
Jeffrey G. Wiese, MD, MACP
New Orleans, Louisiana
Joyce E. Wipf, MD, MACP
Edmonds, Washington
Wednesday, April 10

**Annals of Internal Medicine: “On Being a Doctor” Story Slam**
5:30-7:30 p.m. • HQ, Liberty Ballroom
*Open to all attendees. Tickets required: RSVP event with cash bar and light hors d’oeuvres.*

For more than two decades, *Annals of Internal Medicine* has published personal essays by physicians in a series called “On Being a Doctor.” Building on this popular series, *Annals* developed the “On Being a Doctor” Story Slam ([annals.org/storyslam](http://annals.org/storyslam)). Story slams are events that celebrate storytelling by inviting participants to verbally share brief stories with an audience. Sharing stories reminds us what is special about our profession—storytellers and listeners alike find the Story Slams rejuvenating. Join us for an evening of storytelling during Internal Medicine Meeting 2019. Ten of your colleagues will share stories that are sure to provoke thought and inspire you. This event is not designated for CME credit.

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Dr. Murthy will join ACP Executive Vice President and Chief Executive Officer Darlyn V. Moyer, MD, FACP for a question-and-answer session.

We hope to see you there!

See pages 74-75 for a complete list of leaders of major domestic medical organizations who were invited to attend the Opening Ceremony as our guests.

**Volunteerism Networking Luncheon**
12:45 -2:15 p.m. • CC, Room 123
*Reservations required.*

This luncheon provides an opportunity for physicians to share plans, experiences, and information about medical volunteer work both in the U.S. and abroad. Experienced volunteers and those who are considering to volunteer are all welcome.

**International Reception**
8:00-9:30 p.m. • HQ, Salon H

This reception is open to all international attendees and their guests, as well as other attendees who are interested in meeting with leaders from ACP and internal medicine societies from around the world.

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Thursday, April 11

**Opening Ceremony and Keynote Speaker**
9:30-10:30 a.m. CC, Hall B
*Open to all attendees. No tickets required.*

This year’s Opening Ceremony will feature keynote speaker Vice Admiral Vivek Murthy, MD, MBA, who served as the 19th Surgeon General of the United States from 2014 to 2017. During his time as Surgeon General, Dr. Murthy helped address critical public health issues, including the Ebola outbreak, Zika virus, low rates of physical activity, and the explosion in e-cigarette use among youth.

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Friday, April 12

**Clinical Skills Center Open House**
7:00-7:45 a.m. • CC, Hall C

Stop by for complimentary coffee and an opportunity to meet the faculty and to experience all that the Clinical Skills Center has to offer. Participate in a scavenger hunt and a putting contest for a chance to win fantastic prizes, such as a free copy of the new MKSAP® 18 or an ACP gift card.

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**Legend**

- **CC** Pennsylvania Convention Center
- **HQ** Philadelphia Marriott Downtown (Headquarter Hotel)
International Forum
9:00–11:00 a.m. • HQ, Salon G

Reservations required.

The Thirteenth Annual ACP International Forum will provide an opportunity for leaders of internal medicine societies from ACP and around the world to have a discussion on the topic of Global Experiences and Initiatives to Promote Physician Well-Being. A moderator will lead a panel of physicians in commenting on key questions, followed by a discussion with other attendees. The Forum is open to attendees; however, space is limited.

Networking Luncheon for Women Physicians
1:00–2:00 p.m. • HQ, Salon H

This event is designed for post-training women physicians from all career paths as an opportunity to share experiences, meet new friends, and discuss common concerns.

Saturday, April 13

Hackathon–MIT Hacking Medicine at ACP Internal Medicine Meeting 2019
8:00 a.m.–Noon • CC, Hall C

ACP is partnering with MIT’s renowned Hacking Medicine program to bring a 4-hour Hackathon to Internal Medicine Meeting 2019. Forward-thinking health professionals, engineers, designers, developers, and technologists will build teams to develop interdisciplinary hacks (solutions) to improve clinician workflows.

Note: Prior registration was required in advance of the meeting. No walk-ins permitted.

annualmeeting.acponline.org/hackathon

ACP Innovation Challenge 2019: Fostering Partnerships between Physicians and Patients
10:30 a.m.–Noon • CC, Innovation Theater 2

Come and witness this live competition focused on innovative ideas to transform internal medicine. Selected finalists present their ideas to a panel of judges who award prize money totaling $25,000 to implement their best and brightest ideas. Vote for your favorite finalist at this fun, high-stakes, interactive competition and see who has what it takes to transform health care! (This event is not designated for CME credit.)

Annual Business Meeting and Town Hall
12:45–1:45 p.m. • CC, Room 108

Open to all attendees. No tickets required.

All ACP members are encouraged to attend. Incoming Officers, new Regents, and first-year Governors will be introduced. The Treasurer and EVP/CEO will report on the College’s current status and priorities.

Legend
CC Pennsylvania Convention Center
HQ Philadelphia Marriott Downtown (Headquarter Hotel)
The American College of Physicians invited the following leaders of major domestic medical organizations to attend the Opening Ceremony as our guests:

Thomsa J. Nasca, MD, MACP, CEO
Accreditation Council for Graduate Medical Education
D. Craig Brater, MD, MACP, President
Alliance for Academic Internal Medicine
Robert A. Wood, MD, MS, FAAAAI, President
Bryan L. Martin, DO, FAAAAI, Past President
American Academy of Allergy, Asthma and Immunology
Ralph L. Sacco, MD, MS, FAHA, FAAN, President
American Academy of Neurology
Jonathan E. Sobel, DMSc, MBA, PA-C, DFAAPA, FAPACVS, President
American Academy of Physician Assistants
Michael W. Fried, MD, FAASLD, President
American Association for the Study of Liver Diseases
Daniel L. Hurley, MD, FACE, President
American Association of Clinical Endocrinologists
Joyce Marth Knestrick, PhD, APRN, CFNP, FAANP, President
American Association of Nurse Practitioners
Naresh Parikh, MD, President
American Association of Physicians of Indian Origin
Patricia M. Conolly, MD, Chair
Richard J. Baron, MD, MACP, President and CEO
American Board of Internal Medicine
Todd A. Mahr, MD, FAAP, FAAAAI, FACAAI, President
American College of Allergy, Asthma and Immunology
Richard J. Kovacs, MD, FACC, President
American College of Cardiology
Clayton T. Cowl, MD, FCCP, President
American College of Chest Physicians
Sunanda V. Kane, MD, MSPH, FACG, President
American College of Gastroenterology
Annette T. Carron, DO, FACOI, President
American College of Osteopathic Internists
Paula Marchetta, MD, MBA, President
American College of Rheumatology
David A. Lieberman, MD, AGAF, President
American Gastroenterological Association
Laurie Jacobs, MD, FACP, AGSF, President
American Geriatrics Society
Barbara McNeny, MD, MACP, President
James L. Madara, MD, Executive Vice President
American Medical Association
Douglas B. Frisdema, MD, PhD, President
American Medical Informatics Association
Chad Asplund, MD, MPH, President
American Medical Society for Sports Medicine
Robert E. Gebhard, DO, President
American Medical Women’s Association
Robert Juhasz, DO, FACOI, FACP, Past President
William Mayo, DO, President
American Osteopathic Association
Brad Tice, PharmD, MBA, FAPhA, President
American Pharmacists Association
Sharon L. Dunn, PT, PhD, OCS, President
American Physical Therapy Association
Georges Benjamin, Executive Vice President
American Public Health Association
Dan Hartman, MD, President
American Society for Clinical Pharmacology and Therapeutics
Karen L. Woods, MD, FASGE, President
American Society for Gastrointestinal Endoscopy
Navneet S. Majhail, MBBS, MD, MS, President
American Society of Blood and Marrow Transplant
Monica M. Bertagnolli, MD, FACS, FASCO, President
American Society of Clinical Oncology
Roy L. Silverstein, MD, President
American Society of Hematology
Mark E. Rosenberg, MD, FASN, President
American Society of Nephrology
Polly E. Parsons, MD, President
Lynn Schnapp, MD, Secretary-Treasurer
American Thoracic Society
Darrell G. Kirch, MD, Executive Vice President
Association of American Medical Colleges
Nancy J. Brown, MD, President
Association of Professors of Medicine
Donna J. Astiz, MD, President
Association of Program Directors in Internal Medicine
Kevin M. McKown, MD, President
Association of Subspecialty Professors
Shobhina G. Chheda, MD, MPH, President
Clerkship Directors in Internal Medicine
David Hoyt, MD, President
Helen Burstin, MD, MPH, MACP, Executive Vice President and CEO
Council of Medical Specialty Societies
Susan J. Mandel, MD, MPH, President
Ann Danoff, MD, Council Member
The Endocrine Society
Humayun J. Chaudhry, DO, MS, MACP, FACOI, President
Patricia A. King, MD, PhD, FACP, Chair
Federation of State Medical Boards
S. Michal Jazwinski, PhD, President
The Gerontological Society of America

Clyde J. Behney, Executive Vice President
Health and Medicine Division of the National Academies

Cynthia L. Sears, MD, FIDSA, President
Infectious Diseases Society of America

Beverley H. Johnson, President
Institute for Patient- and Family-Centered Care

Mark R. Chassin, MD, FACP, MPP, MPH, Executive Vice President
The Joint Commission

Peter Katsufakis, MD, MBA, President
Miguel Arturo Paniagua, MD FACP, Medical Advisor
National Board of Medical Examiners

Elena V. Rios, MD, MSPH, President
National Hispanic Medical Association

Niva Lubin-Johnson, MD, President
National Medical Association

Debra L. Ness, President
National Partnership for Women & Families

Jeffrey A. Perlmutter, MD, President
Renal Physicians Association

Maria Trent, MD, MPH, President
Society for Adolescent Medicine

Uwe Siebert, MD, MPH, MSc, ScD, President
Society for Medical Decision Making

Jerry J. Zimmerman, MD, PhD, FCCM, President
Society of Critical Care Medicine

Giselle Corbie-Smith, MD, MSc, President
Society of General Internal Medicine

Nasim Afsar, MD, SFHM, President
Society of Hospital Medicine

Lia S. Logio, MD, MACP, Chair
Daniel V. Schidlow, MD, Dean
Drexel University College of Medicine

Margrit M. Shoemaker, MD, FACP, Chair
Steven J. Scheinman, MD, Dean
Geisinger Commonwealth School of Medicine

John Ferretti, DO, Chair
Silvia M. Ferretti, DO, Dean
Lake Erie College of Osteopathic Medicine-Erie

Justin P. Psaila, MD, Chair
Larry R. Kaiser, MD, FACS, Dean
Lewis Katz School of Medicine at Temple University

Thomas Y. Ma, MD, PhD, Chair
A. Craig Hillemeier, MD, Dean
Penn State University College of Medicine

Pat Lannutti, DO, Chair
Kenneth Veit, DO, MBA, FACOFP, Dean
Philadelphia College of Osteopathic Medicine

Michael S. Parmacek, MD, FACP, Chair
J. Larry Jameson, MD, PhD, MACP, Dean
Raymond & Ruth Perelman School of Medicine at the University of Pennsylvania

Thomas. F. Morley, DO, FCCP, FACOI, FAASM, Chair
Thomas A. Cavalieri, DO, MACOI, FACP, Dean
Rowan University School of Osteopathic Medicine

Marc Klapholz, MD, FACC, Chair
Robert L. Johnson, MD, FAAP, Dean
Rutgers-New Jersey Medical School

Fredric E. Wondisford, MD, Chair
Sherine E. Gabriel, MD, MSc, Dean
Rutgers-Robert Wood Johnson Medical School

Mark T. Gladwin, MD, FACP, Chair
Arthur S. Levine, MD, Dean
University of Pittsburgh School of Medicine
Internal Medicine Meeting 2019 Receptions
Many ACP governors have organized chapter or regional receptions devoted to their memberships and alumni associations. Some ACP governors are sponsoring joint events with one or more chapters. Please be advised that this reception list is accurate as of time of printing. Changes and cancellations after printing are common. Please check your invitations to verify the reception time, date, and location.

Thursday, April 11
Florida and Georgia Chapters Reception—8:00-9:30 p.m., Philadelphia Marriott Downtown, Franklin 1-2.
Illinois Chapter Reception—8:00-10:00 p.m., Time Restaurant, 1315 Sansom Street, Philadelphia.
International Reception—8:00-9:30 p.m., Philadelphia Marriott Downtown, Salon H.
Iowa Chapter Social—6:30-8:00 p.m., Philadelphia Marriott Downtown, Room 410.
DC, Delaware, Maryland, & Virginia Chapters Reception—8:15-10:15 p.m., Ocean City Restaurant, 234-236 N. 9th Street, Philadelphia.
New Jersey and Connecticut Chapters Reception—8:00-9:30 p.m., Philadelphia Marriott Downtown, Franklin 10.
New York Chapter ACP and Joint Medical Schools Reception—8:00-10:00 p.m., Philadelphia Marriott Downtown, Franklin 11-13.
Puerto Rico Chapter Reception—8:00-10:00 p.m., Philadelphia Marriott Downtown, Franklin 9.
Roll Signing for New Fellow of the Royal College of Physicians of Edinburgh (RCP E)—8:00-9:00 p.m., Philadelphia Marriott Downtown, Room 405.
St. George's University School of Medicine Alumni Association Alumni Reception—8:00-9:30 p.m., Philadelphia Marriott Downtown, Franklin 3-4.
Wisconsin Chapter Reception—8:00-10:30 p.m., Volvér Restaurant, 300 S. Broad St., Philadelphia.

Indiana Chapter Reception—5:30-7:30 p.m., Con Murphy's, 1700 Ben Franklin Parkway, Philadelphia.
Japan Chapter Reception—6:00-8:00 p.m., Philadelphia Marriott Downtown, Franklin 1.
Kansas Chapter Reception—6:30-8:30 p.m., Philadelphia Marriott Downtown, Rooms 411-412.
Med-Peds Reception—6:00-7:00 p.m., Philadelphia Marriott Downtown, Franklin 13.
Massachusetts and Michigan Chapters Reception—6:00-7:30 p.m., Philadelphia Marriott Downtown, Franklin 8-9.
Minnesota—ACP and Mayo Clinic Alumni Association Reception—6:00-7:15 p.m., Philadelphia Marriott Downtown, Franklin 2.
Missouri Chapter Reception—5:30-7:00 p.m., Time Restaurant, 1315 Sansom Street, Philadelphia.
Nebraska Chapter Reception—6:00-7:00 p.m., Philadelphia Marriott Downtown, Rooms 407-408.
Northwest Regional Reception: Alaska, Montana, Oregon, Utah, and Washington—6:00-8:00 p.m., Field House Sports Bar, 1150 Filbert Street, Philadelphia.
Ohio, Air Force, Army, and Navy Chapters Reception—6:00-7:30 p.m., Philadelphia Marriott Downtown, Salons JK.
Oklahoma Chapter Reception—6:30-8:30 p.m., Spirit of Philadelphia Cruise, 401 S Christopher Columbus Blvd, Philadelphia.
Pennsylvania Chapter Reception—7:00-9:00 p.m., McCormick and Schmick's, 1 South Broad Street, Philadelphia.
Ross University School of Medicine Alumni Reception—6:00-8:00 p.m., Maggiano's Little Italy, 1201 Filbert Street, Philadelphia.
Tennessee and North Carolina Chapters Reception—6:00-7:00 p.m., Philadelphia Marriott Downtown, Franklin 5-6.
Texas Chapter Reception—6:00-8:00 p.m., Philadelphia, see meeting app for updated location details.
UMASS Medical School Alumni, Faculty & Friends, Reception—6:00-8:00 p.m., Philadelphia Marriott Downtown, Salon L.
West Virginia Chapter & Alumni Social Hour—5:00-7:00 p.m., Hard Rock Café Bar, 1113 Market Street #31, Philadelphia.

Friday, April 12
African American Physicians Reception—6:00-7:30 p.m., Philadelphia Marriott Downtown, Franklin 11-12.
Alabama, Arkansas, Louisiana, and Mississippi Chapters Reception—5:30-6:30 p.m., Philadelphia Marriott Downtown, Salon I.
Brazil Chapter Reception—6:00-8:00 p.m., Philadelphia Marriott Downtown, Franklin 10.
California, Hawaii, and Arizona Chapters Reception—6:00-8:00 p.m., Philadelphia Marriott Downtown, Salon H.
Canadian Chapters Reception—6:00-8:00 p.m., Field House Sports Bar, 1150 Filbert Street, Philadelphia.

Legend
CC  Pennsylvania Convention Center
HQ  Philadelphia Marriott Downtown (Headquarter Hotel)
Thursday, Friday, and Saturday

**Medical Student and Resident/Fellow Member Welcome Centers**
CC, Hall DE
Thursday • 10:00 a.m.-4:30 p.m.
Friday • 10:00 a.m.-4:30 p.m.
Saturday • 10:00 a.m.-2:30 p.m.

Are you attending the Internal Medicine Meeting for the first time as a medical student or resident/fellow-in-training? Please stop by the Medical Student and Resident/ Fellow Member Welcome Center specifically for members-in-training. The Welcome Centers are located in Hall DE near the Posters Hospitality Area and will be open Thursday, April 11, through Saturday, April 13, during the hours of operation printed above. Representatives of the national Councils of Student Members and Resident/Fellow Members and ACP staff will be available to greet ACP members-in-training and provide information about programs and networking activities planned specifically for students and residents taking place throughout the meeting.

**ACP Doctor’s Dilemma®**
Thursday • 2:00-5:30 p.m.
Friday • 3:30-5:00 p.m.
HQ, Salons E & F
Saturday • 5:15-6:30 p.m. (Immediately following the Highlights session)
CC, Terrace I & II

Enjoy this fast-paced, Jeopardy-style program in which resident winners from local chapters test their knowledge of internal medicine.

**ACP Posters Area**
Thursday-Saturday • CC, Hall DE
Finalists in the Early Career Physician, Resident/Fellow, and Medical Student Poster Competitions display their work in multiple poster sessions.

**ACP Posters Hospitality Area**
Thursday-Saturday • CC, Hall DE
Relax with friends and colleagues while enjoying coffee and refreshments.

Thursday, April 11

**Resident/Fellow Luncheon Forum: 2019 The Patient Said %!#$# (What)?**
12:45-2:15 p.m. • CC, Room 126
*Hosted by the ACP Council of Resident/Fellow Members.*

Do you ever find yourself involved in a nonclinical conversation that you are unsure how to handle? Has a patient or family member ever made you uncomfortable by making offensive or unsolicited comments in a clinical setting? The Council of Resident/Fellow Members invites you to an interactive, lively session where you can equip yourself with tools to navigate difficult conversations in the exam room. Complimentary boxed lunches will be available to the first 100 attendees.

**Early Career Physicians Networking Luncheon**
12:45-2:15 p.m. • CC, Room 117
*Hosted by the ACP Council of Early Career Physicians.*

This luncheon provides the opportunity for doctors who have recently completed training to network with more experienced physicians, discuss common problems relating to medical practice today, and learn how to become active in the College and advance to Fellowship. Complimentary boxed lunches will be available to the first 100 attendees.

**Early Career Physicians Presentations**
2:45-4:15 p.m. • CC, Room 117

Early Career Physician members who had the highest scoring abstracts in the Early Career Physician Abstract Competition and capstone projects as part of the Certificate in Physician Leadership will present their award-winning work. Refreshments are provided. Presentations are not designated for CME credit.

Friday, April 12

**Resident/Fellow Abstract Luncheons**
12:45-2:15 p.m. • CC, Rooms 123 & 124

Winners of the competition present their award-winning work in the Research and Clinical Vignette categories. Complimentary boxed lunches are provided. All winner and finalist abstracts will be available on our Web site. (Abstract presentations are not designated for CME credit.)

**International Medical Students Information Session**
4:00-5:30 p.m. • CC, Room 117

Hosted by the Council of Student Members, this event will be facilitated by residency program directors and will address the questions and concerns of international medical students. Representatives from the Educational Commission for Foreign Medical Graduates (ECFMG) will also be available to offer advice to international medical students.
Saturday, April 13

**Medical Student Mentoring Breakfast**
7:00–9:00 a.m. • HQ, Salon H

*Hosted by the ACP Council of Student Members.*  
This is a ticketed event.

Medical students are invited to gather with internist mentors to discuss career options in internal medicine. Students are encouraged to register for this event onsite at the Medical Student Welcome Center located in the Convention Center throughout the meeting.

**Medical Student Abstract Luncheon**
11:00 a.m.–12:30 p.m. • CC, Room 124

Winners of the competition present their award-winning work in the Research and Clinical Vignette categories. Complimentary boxed lunches will be provided. All winner and finalist abstracts will be available on our Web site. (Abstract presentations are not designated for CME credit.)

**Recognition Reception for Young Achievers**
6:30–7:30 p.m. • CC, Terrace Ballroom Foyer

Join us as we celebrate the winners of the Early Career Physician, Resident/Fellow Member, and Student Member Abstract Competitions; the 2019 ACP Doctor’s Dilemma® winning team, and other national award winners.

**Council Members**
The members of the Councils of Resident/Fellow Members (CRFM), Student Members (CSM), and Early Career Physicians (CECP) serve as representatives to the College and have planned courses and networking events on behalf of their respective constituents for Internal Medicine Meeting 2019. Many of these council representatives are attending the meeting and can be identified by a ribbon specific to their Council membership on their meeting badges. Please feel free to introduce yourself.

**2018-19 Council of Early Career Physicians (CECP)**
Danny Newman, MD, FACP, Augusta, GA, *Chair*  
Richard M. Wardrop III, MD, PhD, FAAP, FACP, Chapel Hill, NC,  
*Chair-elect*
Maj. Tatjana Calvano, MC USA, FACP, San Antonio, TX  
Lt. Col. Joshua Hartzell, MD, FACP, Potomac, MD  
Tracey Henry, MD, MPH, MS, FACP, Powder Springs, GA  
Lacy Hobgood, MD, FACP, Winterville, NC  
Ryan Kraemer, MD, FACP, Homewood, AL  
Tiffany Leung, MD, MPH, FACP, Maastricht, Netherlands Antilles  
Joshua M. Liao, MD, FACP, Seattle, WA  
Avital Y. O’Glasser, MD, FACP, Portland, OR  
Mary Anderson Wallace, MD, FACP, Colorado Springs, CO

**2018-19 Council of Resident/Fellow Members (CRFM)**
Sarah G. Candler, MD, MPH, FACP, Houston, TX, *Chair*  
John Hunninghake, MD, Windcrest, TX, *Chair-elect*  
Lyle W. Baker, MD, Tulsa, OK  
Brian L. Block, MD, San Francisco, CA  
Zachary C. Junga, MD, Silver Spring, MD  
Rita K. Kuwahara, MD, MIH, Durham, NC  
Neena Mohan, MD, Philadelphia, PA  
Matthew T. Nelson, MD, Bethesda, MD  
Nathaniel S. Nolan, MD, MPH, Columbia, MO  
Jacob Quinton, MD, MPH, New Haven, CT  
Jesse Richards, DO, Mission, KS  
Frederique St-Pierre, MD, Rochester, MN  
Grant A. Turner, MD, Omaha, NE  
Erica P. Turse, DO, MPH, Columbia, MO

**2018-19 Council of Student Members (CSM)**
Chelsea Cockburn, Richmond, VA, *Chair*  
Hanna Erickson, Champaign, IL, *Vice-Chair*  
Andrew N. Abboud, Pittsburgh, PA  
Steven X. Chen, Indianapolis, IN  
E. McAuley Fish, Goldsboro, NC  
Renato Guerrieri, Houston, TX  
Diana Jung, Kansas City, MO  
Brendan J. Kim, Elk Grove, CA  
Katelyn Madigan, Saint Paul, MN  
Kevin C. Miller, Rochester, MN  
Aleesha Shaik, Plainsboro, NJ  
Alexandria Valdrighi, Omaha, NE
Routine HIV Screening. Every Patient.

CDC recommends HIV screening for all patients ages 13-64

An estimated 1.1 million people in the United States are living with HIV, and approximately 1 in 7 are unaware of their status and would benefit from treatment. Early detection and treatment means your patients can live longer, healthier lives and help prevent further HIV transmission.

For free materials to incorporate HIV screening into your practice, call 1-800-CDC-INFO or visit:

www.cdc.gov/actagainstaids/hssc.

HIV SCREENING. STANDARD CARE.™
Speed Time To Answer With DynaMed Plus®
And Earn CME Credit Every Time You Use It

DynaMed Plus provides:
• Quick access at the point of care to accurate evidence-based content
• Optimized for easy navigation on any device
• Complimentary downloadable mobile app
• Cutting-edge search technology to answer questions quickly

Take advantage of this free ACP member benefit today! Visit Booth #1348 to learn more. acponline.org/dynamedplus
**Exhibit Hall DE–Learn, Engage, & Enjoy**

The Exhibit Hall is the meeting’s epicenter for the latest innovations, learning opportunities, and break-time activities. You’ll find over 200 exhibitors demonstrating the latest in medical advances, educational resources, and job opportunities. It’s also a great place to network and relax. With so much to see and do, you’ll be glad you scheduled time in your day to enjoy the Exhibit Hall!

**Reasons to Spend Time in the Exhibit Hall**

- **NEW! ACP Tech Hub, Booth #1467**—Tech Hub participants ranging from startups to established companies will share their innovations through presentations and hands-on demos. See pages 84-85 for the presentation schedule.
- **NEW! Headshots, Booth #1525**—Put your best face forward and enhance your profile page with a new complimentary professional headshot. You can quickly e-mail the photo to yourself as well as share on social media.
- **ACP Relaxation Station, Booth #973**—Unwind and enjoy a complimentary massage.
- **ACP Briefings**—Hear brief presentations from ACP staff and leadership on current medical issues. Consult the schedule on page 82 for details.
- Complimentary lunch on Thursday and Friday.
- Complimentary morning and afternoon refreshment breaks.
- See page 80 for even more reasons to visit the Exhibit Hall!

**Exhibit Hall Hours**

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
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<tr>
<td>Thursday, April 11</td>
<td>10:00 a.m.–4:30 p.m.</td>
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<tr>
<td>Friday, April 12</td>
<td>10:00 a.m.–4:30 p.m.</td>
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<tr>
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<td>10:00 a.m.–2:30 p.m.</td>
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**Parents, please note:** Children under 12 years of age must be accompanied by a registered attendee at all times in the Exhibit Hall. For safety reasons, strollers are not permitted.

**Scientific Program Break Schedule**

**Thursday and Friday**

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<th>Time</th>
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<tr>
<td>Morning</td>
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**Saturday**

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Visit annualmeeting.acponline.org/ExhibitHall to view a directory of exhibitors, search for products, and see the Exhibit Hall floorplan. When you’re in the Exhibit Hall, use the Onsite Industry Guide, Exhibit Xtra, and the meeting app to make sure you don’t miss a thing.
Explore the Exhibit Hall

Explore, Learn, Socialize, and Relax

ACP Resource Center, Booth #1339—A broad array of ACP products and digital services are on hand for attendees to test drive and ask questions. See more information on page 81.

Rest and Recharge Lounge, Booth #1157—Take a few minutes to charge your devices and challenge your friends to a giant game of Operation.

FACP/MACP Lounge, Booth #124—For ACP Fellows and Masters only. The lounge includes computers, complimentary Wi-Fi access, and a comfortable place to meet with other Fellows and Masters or relax between activities.

ACP Innovation Challenge 2019, Booth #671—This live competition will feature finalists with the best and brightest ideas that have the potential to transform the practice of internal medicine on a national level. Winners will be selected and awarded prize money to support implementation/study of the idea. The competition will be in Innovation Theater 2 on Saturday, April 13 from 10:30 a.m.-12:00 p.m.

Raffle Booth, Booth #1474—Visit daily for a chance to win free registration to Internal Medicine Meeting 2020, gift certificates, College products, and more exciting prizes.

ACP Posters Area, Hall DE—Finalists in the Medical Student, Resident/Fellow, and Early Career Physicians Abstract Competitions display their work in multiple poster sessions Thursday through Saturday.

Doctor’s Challenge—Participate in ACP’s exciting, interactive challenge in which attendees visit exhibitors to answer a question on the challenge card. Submissions with all the correct answers are entered into several prize drawings. See page 86 for more details.

Innovation Theaters, Booths #645, #671, #1083—New medical innovations will be revealed at these informative lunch or snack-break discussions. See the Additional Learning Opportunities schedules on pages 87-92 for more information.

Stop by the Exhibit Hall for complimentary lunch on Thursday and Friday and daily morning and afternoon refreshment breaks.

Disclaimer: Exhibit Hall products and services are not the property of ACP nor does ACP endorse or have any control over such Exhibit Hall products or services. The presence of any exhibition at ACP’s Internal Medicine Meeting 2019 does not imply an endorsement of any such product or service by ACP. By attending ACP’s Internal Medicine Meeting 2019 and entering the Exhibit Hall, the registrants acknowledge, agree, and accept that ACP does not assume any responsibility as to the quality of Exhibit Hall products or services and, provided, further, ACP shall not be responsible for any review, investigation, or approval of any Exhibit Hall product or services, and has not reviewed, investigated, or otherwise approved the quality, type, message, nature, or value of any product or service presented in the Exhibit Hall. Attendees are encouraged to, and are responsible for, performing their own independent review, investigation, and analysis of the Exhibit Hall products or services. ACP wholly, entirely, and without any exception disclaims any and all liability for any damages to any person or property arising out of or relating to any product or service presented in the Exhibit Hall as part of ACP’s Internal Medicine Meeting 2019.
See the latest digital offerings from ACP, all of which are designed to meet your needs from any and all of your many devices. Stop by the Digital Products area of the ACP Resource Center, Booth #1339 in the center of the Exhibit Hall to test drive programs and speak with members of our technology team to learn more.

WEB SITES
• ACPOnline.org, featuring:
  • MyACP, your personalized portal to all-things ACP
  • ACP Online Learning Center, your one-stop shop for hundreds of online learning activities
  • Member Forums, to connect with your ACP colleagues
• Annals.org, featuring a plethora of online-only content and resources
• ACP Clinical Search, a comprehensive search across all ACP clinical resources
• ACPInternist.org (and Internist Weekly)
• ACPHospitalist.org (and Hospitalist Weekly)

CLINICAL DECISION SUPPORT
• ACP JournalWise—JournalWise.org
• DynaMed Plus—acponline.org/dynamedplus

EDUCATIONAL RESOURCES
• MKSAP® 18 Digital—mksap18.acponline.org
• ACP Online Learning Center—acponline.org/learning
• Annals Virtual Patients—vp.annals.org (now available on an all-new mobile-optimized platform)

PRACTICE RESOURCES
• ACP Practice Advisor—practiceadvisor.org
• Patient Education Center—acponline.org/patients
• Physician and Practice Timeline—acponline.org/timeline
• Quality Improvement Programs and the Genesis Registry—acponline.org/qi

MOBILE APPS
Note that all of the above products are optimized for mobile devices, but we additionally offer many native apps for iOS (Apple) and Android (Google):
• MKSAP 18 and MKSAP 18 Flashcards Apps
• Annals of Internal Medicine App
• ACP Clinical Guidelines App
• ACP Meetings App (including this Internal Medicine Meeting 2019)
• DynaMed Plus App
ACP Resource Center Briefings Theater Schedule

Hear brief presentations to answer common questions and learn about key offerings from ACP.

ACP Resource Center • Exhibit Hall, Booth #1339

Thursday

Morning Break
10:30-10:40 • ACP MOC Resources
10:50-11:00 • Maximize Your MIPS Score in 2019 (Merit-Based Incentive Payment System)
11:00-11:10 • The Changing Landscape of APMs in 2019 (Alternative Payment Model)

Lunch Break
1:00-1:20 • How to Achieve ACP Fellowship
1:20-1:30 • Never Miss Articles Important to You with ACP JournalWise, a Free Member Benefit
1:30-1:40 • ACP’s Women in Medicine Program Update

Afternoon Break
3:50-4:00 • ACP MOC Resources
4:00-4:10 • IM Well: How ACP Supports Physician Well-Being and Professional Satisfaction
4:10-4:20 • How to Succeed and Engage in Quality Improvement Initiatives

Friday

Morning Break
10:30-10:50 • ACP MOC Resources
10:50-11:00 • Never Miss Articles Important to You with ACP JournalWise, a Free Member Benefit
11:00-11:10 • ACP’s Women in Medicine Program Update

Lunch Break
1:00-1:20 • How to Achieve ACP Fellowship
1:20-1:30 • The Changing Landscape of APMs in 2019 (Alternative Payment Model)
1:30-1:40 • Hot Topics in Hospital Medicine from ACP Hospitalist

Afternoon Break
3:50-4:00 • ACP MOC Resources
4:00-4:10 • Maximize Your MIPS Score in 2019 (Merit-Based Incentive Payment System)
4:10-4:20 • IM Well: How ACP Supports Physician Well-Being and Professional Satisfaction
4:20-4:30 • How to Succeed and Engage in Quality Improvement Initiatives

Saturday

Morning Break
10:30-10:40 • IM Well—ACP Resources For Physician Well-Being & Professional Satisfaction
10:40-10:50 • Hot Topics in Hospital Medicine from ACP Hospitalist
ACP Job Placement Center—For Job Seekers and Employers

A Must-See While in Philadelphia, PA
Exhibit Hall, Booth #618

- Submit a physician profile and/or CV and have it distributed to participating employers. There is no charge for this service.
- Submit job postings for openings in your organization.*
- View a multitude of job postings nationwide (also available electronically for your convenience).
- Register for two free, valuable services**: CV Review and Consultation Service Navigating the J1 Waiver Job Search.
- Meet with potential employers or employees.
- Register with ACP’s Career Connection for online job search.

2019 ACP Job Placement Center Premium Sponsors

- CALIFORNIA CORRECTIONAL HEALTH CARE SERVICES
  Booth #1152
- TEAMHealth
  Booth #1210
- Community Health Systems
  Booth #925
- Envision
  Booth #908
- TOWER HEALTH
  Booth #820
- vituity*
  Booth #924

* Must be a physician attending Internal Medicine Meeting 2019, ACP Job Placement Center Sponsor, or exhibitor.
** Limited availability—appointment required. See a Job Placement Center representative or e-mail jobplacementcenter@acponline.org to reserve a spot.
Digital Health and other emerging technologies are changing medicine. Tech Hub participants ranging from startups to established companies will share their innovations through presentations and hands-on demos. Presentations on entrepreneurship in medicine will also be offered.

Check the meeting app and onsite signs for additions to this schedule.

**Thursday**

**10:45 a.m. • Entrepreneurship: Protecting Your Idea**

One of the first steps in the development process should be protecting your idea. Learn about patents, copyrights, trademarks, and design

- What is patentable?
- How to protect your idea
- Is your idea original?

**1:00 p.m. • First of its Kind: AI Diagnostics for the Real World**

Point of care diabetic retinopathy testing is here today with IDx-DR, the first autonomous AI system ever cleared by the FDA. Learn how to:

- Move a specialist diagnostic into the front lines of care
- Increase diabetic testing adherence
- Distinguish medical grade AI from the hype

**1:15 p.m. • Entrepreneurship: Structuring a Business**

Explore the key steps, structures, pitfalls and resources available to move from idea to a viable business

- Building the right team
- Finding the right partners
- Laying the groundwork to add value to your company for acquisition
- Product Development

**3:45 p.m. • How to Finance a Startup**

Getting your idea from napkin to customer has a number of steps and each step takes money. Understand the various sources of capital available to you and the pros and cons of each.

- Sources of capital
- Where to find them
- The “Give and Take” of each

**4:00 p.m. • The Future of Skin Assessment and Artificial Intelligence in Primary Care**

Skin—both the body’s most visible organ and the site of its most diverse pathology. Skin lesions worry patients and can be subtle and difficult to assess in the office. Primary health care, more than ever before, is being asked to play a significant role in skin lesion assessment as dermatologists are stretched by demand. Artificial intelligence has huge potential to change the way you think about managing skin lesions in practice. The future brings accurate, instantaneous, handheld assessment into your rooms to give you confidence in your diagnosis.

Tech Hub presentations are promotional in nature and are not eligible for CME credit.
Friday

11:00 a.m. • Early Stage Innovation: How Physicians Participate

There are several integral roles that a physician can have in developing, supporting and advancing emerging technologies.
• Roles and responsibilities—Creator, Advisor, Chief Medical Officer, Board Member, etc.
• Measuring physician value in participating
• Capitalizing on your value

1:00 p.m. • Environmental Factors of Healthcare Innovation

Understanding the environment surrounding the healthcare market that your emerging technology serves is vital in determining its viability, value and market potential. These environmental factors should influence how you develop, evaluate, advise, test or invest.
• Economics, Efficiency and Outcomes
• Factoring in reimbursement
• Hospital/Health System decision making
• Path to commercialization or acquisition

1:30 p.m. • What is Digital Medicine and How Can it Help Patients?

Explore how digital medicines are empowering patients and connecting them closely with physicians to enable better treatment decisions, and ultimately improved clinical outcomes.
• Challenge of Medication Adherence
• Technological Advancement—Ingestible Sensor, Wearable Sensor, Mobile App, EMR Portal providing more complete picture of patients’ health
• Clinical trial and real world results
• Patient and Provider case studies
• Outcomes-based payment model

3:45 p.m. • Forecasting Changes In Health Care

The healthcare landscape continues to transition from analog to digital. Innovations spring forward almost every day, aiding the actions of healthcare professionals and patients alike. Learn how to:
• Arm yourself with the right information to stay ahead of the changing healthcare landscape
• Lead the charge to affect change instead of having change thrust upon you
• Give a voice back to the physician to lead and improve healthcare

Supporting Companies:

Abbott Diabetes Care

Skyscape

Participating Companies:

AngelMD

DermaSensor

IDX

Proteus Digital Health

Startups:

Visualmed
**Innovation Theaters**
Held during lunch and snack breaks, these informative discussions offer insight on the latest clinical information as it pertains to a specific disease state. Seating for these events is limited and available on a first-come, first-served basis. No CME credit is provided for these discussions.

**Industry-Supported Symposia**
Symposia presented at the meeting provide additional learning opportunities. These insightful lunch or dinner sessions are held in the Convention Center or at nearby hotels and provide a well-rounded educational experience. Preregistration is recommended; walk-ins are welcome as space permits.

The Additional Learning Opportunities schedules are listed on pages 87-92. For the most up-to-date listings, please review the Onsite Industry Guide or use the meeting app for full details.

*Industry-Supported Symposia and Innovation Theaters are independently organized and are not an official part of the Internal Medicine Meeting 2019 education program. For symposia offering Category 1 CME credit, CME is provided by organizations other than ACP.

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**Win a $100 Amazon gift card, complimentary registration to Internal Medicine Meeting 2020, and other valuable prizes!**

**The Doctor’s Challenge**
The Doctor’s Challenge provides an opportunity to discover the latest innovative products, services, career opportunities, and developments in medical technology. Look for the Challenge card in your tote bag or participate online via the meeting app.

**Participating Exhibitors**
- Arbor Pharmaceuticals, LLC • Booth #1524
- NEJM Group • Booth #1017
- Sanofi Pasteur • Booth #1367
- Tower Health • Booth #820
- VISTA Staffing Solutions, Inc. • Booth #1057
Thursday, April 11 • Morning Break

A Roadmap for Addressing Social Determinants of Health in a Practice Setting
Supported by Humana
10:30-11:15 a.m., Booth #645
This panel, moderated by leading population health advocates, will discuss different methods to assess and address social determinants of health. Hear a variety of perspectives for tackling food insecurity, loneliness, social isolation and transportation, among others.
Kim Prendergast, RD, MPP (Panelist)
Feeding America
Anne Boland Docimo, MD, MBA (Panelist)
UCHealth
Andrew Schutzbank, MD, MPH (Panelist)
Iora Health
Zeev Neuwirth, MD (Moderator)
Atrium Health

New CGM Proven to Reduce HbA1c: FreeStyle Libre 14 Day System
Supported by Abbott Diabetes Care
10:30-11:15 a.m., Booth #1083
Join us to learn about the #1 CGM worldwide used by more than 1.3 million people¹, FreeStyle Libre 14 day system. Barbara Hirsch, MD, MS, FACE—a practicing endocrinologist for 30+ years—will share how FreeStyle Libre 14 day system helps her patients significantly reduce their HbA1c and manage their diabetes.
¹Data on file: Abbott Diabetes Care.
Barbara Hirsch, MD, MS, FACE
New Hyde Park, NY

Thursday, April 11 • Lunch

Jardiance® (empagliflozin) Tablets: Data from the Comprehensive Clinical Development Program
Supported by Boehringer Ingelheim Pharmaceuticals, Inc./Lilly USA
1:00-1:45 p.m., Booth #645
This program will discuss recent data from the ongoing JARDIANE clinical development program. The presentation will cover efficacy and safety data, as well as the dosing information for JARDIANE. Attendees will also have the opportunity to ask the faculty questions about the data presented.
Todd C. Villines, MD, FACC, FAHA, FSCCT
Washington, DC

Expert Conversations in Heart Failure: Practical Approaches for Primary Care and Hospitalists*
Supported by Novartis Pharmaceuticals Corporation
1:00-1:45 p.m., Booth #671
Heart failure (HF) is a complex syndrome that often leads to hospitalization. This program will discuss the role of PCPs and hospitalists in HF management, review the impact of HF hospitalization on patient outcomes and quality of life, and provide insights on transitions of care and guideline-directed medical therapy.
This program is sponsored by Novartis Pharmaceuticals Corporation, and the faculty will be compensated for their time.

Implementing Shingrix (Zoster Vaccine Recombinant, Adjuvanted)
Supported by GlaxoSmithKline
1:00-1:45 p.m., Booth #1083
Learn the proper implementation of SHINGRIX within a practice. This session will include a shingles overview, the clinical profile of SHINGRIX, implementing SHINGRIX, and counseling tips about SHINGRIX for your patients.
Jeffrey Stoddard, MD
Philadelphia, PA

*Session title, presenter, or description not available at time of printing. Please view the Internal Medicine Meeting 2019 app for updated schedule information. Select the Schedules icon, and then click on Innovation Theaters for updated schedule.
Thursday, April 11 • Afternoon Break

Improving Outcomes for Hospitalized Patients with HFrEF: Looking Beyond Stabilization*
Supported by Novartis Pharmaceuticals Corporation
3:45-4:30 p.m., Booth #645

Friday, April 12 • Morning Break

Lower Together: LDL-C, Risk, Hassle, Cost
Supported by Amgen
10:30-11:15 a.m., Booth #645
Join Dr. Michael J. Bloch for an educational presentation on the treatment of very high risk patients described in the 2018 ACC/AHA Guidelines on the Management of Blood Cholesterol. Hear about his experience and the treatment options available for appropriate patients.

Michael J. Bloch, MD, FACP, FASH, FSVM, FNLA
Reno, NV

An HIV Prevention Medication: Reducing the Risk of Acquiring HIV-1 Infection
Supported by Gilead Sciences, Inc.
10:30-11:15 a.m., Booth #1083
Each year, approximately 40,000 new HIV infections are diagnosed in the U.S. This presentation will educate providers on an HIV prevention option and how to identify appropriate candidates. Additionally, clinical studies and recommended guidelines will be discussed.

Wilfredo Giordano-Perez, MD
Johnston, RI

Friday, April 12 • Lunch

Advances in the Management of CAD/PAD: A New Treatment for Thrombotic Risk Reduction
Supported by Janssen Pharmaceuticals, Inc.
1:00-1:45 p.m., Booth #645
Patients with chronic coronary artery disease (CAD) or peripheral artery disease (PAD) are at risk for major cardiovascular events, including cardiovascular death, myocardial infarction, and stroke. Join us for a presentation describing a newly approved approach to reducing the risk of these events.

Marc Cohen, MD, FACC
Newark, NJ

Selecting a First-Choice Therapy for Systolic HF: The Growing Body of Evidence*
Supported by Novartis Pharmaceuticals Corporation
1:00-1:45 p.m., Booth #671

INFLUENZA IMMUNIZATION: Helping to Prevent Disease in Adults 50 Years of Age and Older
Supported by Sanofi Pasteur
1:00-1:45 p.m., Booth #1083

• Examine the medical burden of influenza and its economic impact in adults 50+ years of age.
• Explore how influenza can exacerbate chronic health conditions and lead to adverse outcomes.
• Review results from two pivotal relative efficacy and safety trials that compared higher-dose and recombinant influenza vaccines to standard-dose, inactivated influenza vaccines.

Edward A. Dominguez, MD, FACP, FIDSA
Dallas, TX

Friday, April 12 • Afternoon Break

Criticality of LDL-C Lowering: A Focus on New Cholesterol Management Guidelines
Supported by Amgen
3:45-4:30 p.m., Booth #645
Please join Dr. James A. Underberg for a disease state educational program that will focus on the criticality of LDL-C lowering with a focus on the new cholesterol management guidelines.

James A. Underberg, MD, MS, FACPM, FACP, FNYAM, FASPC, FNLA
New York, NY

*Session presenter or description not available at time of printing. Please view the Internal Medicine Meeting 2019 app for updated schedule information. Select the Schedules icon, and then click on Innovation Theaters for updated schedule.
Tuesday, April 9 • Lunch

Treating Influenza: Where We’ve Been and Where We’re Going
Supported by: Genentech, Inc.
12:15-1:15 p.m.
Registration: Noon
(Lunch will be served)
CC • Terrace I Ballroom
Online: vindicocme40919.eventbrite.com
Better diagnostic modalities and more effective treatments for patients with influenza are needed. Although diagnostic tests for influenza exist and are being utilized, newer modalities are emerging that have promising advantages. This educational activity will explore existing and newer diagnostic methods, as well as the safety and efficacy of new and emerging therapies, for influenza.

The Latest Data for Aimovig® (erenumab-aooe)
Supported by: Amgen/Novartis
12:15-1:15 p.m.
Registration: Noon
CC • Terrace II Ballroom
Industry Therapeutic Update sponsored by Amgen and Novartis.
This program does not offer CME credit.

Wednesday, April 10 • Lunch

It’s in the Blood! A Practical Approach to Screening for Plasma Cell Disorders
Supported by: The Binding Site, Inc.
12:15-1:15 p.m.
Registration: Noon
CC • Terrace I Ballroom
Online: https://www.register-lunch-symposium.com/
Plasma cell disorders, namely MGUS, Multiple Myeloma and AL Amyloidosis have likely been under-diagnosed. Patients often present with non-specific symptoms, requiring the internist to consider multiple clinical and laboratory factors. Appropriate screening for plasma cell disorders is critical as they are most often diagnosed late in the disease course, resulting in irreversible end organ damage. Historically screening was in the form of a serum protein electrophoresis, but this excludes patients who have light chain only disease. Guidelines recommend that a modern screening approach include the use of the more sensitive immunoglobulin free light chain assay analysis. This symposium will provide a clear and practical approach to screening patients and interpreting results, while ensuring a rational use of resources to yield the best outcome for patients.

Addressing the Opioid Epidemic: A Call to Action to Save Our Communities
Supported by: Johnson & Johnson
12:15-1:15 p.m.
Registration: Noon
CC • Terrace II Ballroom
Online: www.cmeoutfitters.com/opioidCTA
The impact of opioids on the US and its communities is a constantly growing burden, and all health care providers should be taking a role in addressing the opioid epidemic. The importance of HCPs who feel caught between prescribing guidelines and patients’ needs, understanding acute and chronic pain pathways, and the underlying mechanisms to assessment and management of pain is key to making a difference in their communities. This CME Outfitters symposium features expert faculty evaluating current opioid prescribing practices, discussing strategies that will optimize safe and competent prescribing, and highlighting concepts from novel community programs that address opioid overdose and treat patients with OUD.

Industry-Supported Symposia are independently organized and are not an official part of the Internal Medicine Meeting 2019 education program. For symposia offering Category 1 CME credit, CME credit is provided by organizations other than ACP. Please view the Internal Medicine Meeting 2019 app for updated schedule information. Select the Schedules icon, and then click on Industry-Supported Symposia for updated schedule.
Wednesday, April 10 • Dinner

**Cutting CVD Risk by Adding PCSK9s: What the Internist Needs to Know**

Supported by: Amgen, Inc.

7:00-9:00 p.m.
Registration: 6:30 p.m.
Philadelphia Marriott Downtown • Franklin 8-10
Online: https://www.gotoper.com/conferences/pcsk919/meetings/cvd-pcsk919

Incorporating PCSK9 inhibitors and other non-statin therapies into clinical practice requires an understanding of new indications, guideline recommendations, and individualized patient strategies. This program is designed to help you apply the latest cholesterol-lowering national guidelines, and to assess the available evidence for non-statin options for patients who are not reaching lipid-lowering goals. In this engaging, interactive, case-based symposium, a panel of renowned experts in dyslipidemia management will not only arm you with a knowledge of the latest clinical trial data on PCSK9 inhibitors, but they will also provide insights into the most challenging lipid-lowering scenarios for management of patients with CVD in your own practice.

**Changing Paradigms in Insomnia: Improving Patient Wake Time and Quality of Life Through Better Sleep**

Supported by: Eisai Ltd. and Imbrium Therapeutics L.P.

7:00-8:30 p.m.
Registration: 6:30 p.m.
Loews Philadelphia Hotel • Commonwealth AB
Online: www.paradigmmmc.com/801

Insomnia is among the most common disorders encountered by primary care clinicians, with an estimated 5.5 million annual visits. Unfortunately, training regarding screening, assessment, and management is often insufficient. In addition, several medications commonly prescribed are not indicated for insomnia, which leads to suboptimal outcomes. Traditional agents have significant drawbacks, such as adverse events, potential for abuse, memory disruption, and more. Newer and emerging agents more effectively reduce wakefulness throughout the night without daytime safety issues and with reduced adverse events. This 90-minute, CME-certified symposium will be presented by three sleep experts; it will feature a didactic lecture and case-based presentations with the most current data as well as a moderated Q&A session.

**Managing CVD and Renal Disease in T2DM: Individualizing Treatment Using Guideline- and Evidence-based Data**

Supported by: AstraZeneca

6:30-7:30 p.m.
Registration: 6:00 p.m.
Loews Philadelphia Hotel • Commonwealth CD
Online: www.rockpointe.com/diabetes

Your patients with T2DM, even those with optimal control of blood pressure and lipid levels, continue to have residual CVD risk. Recent cardiovascular outcome trials of antihyperglycemic agents have shown that some of these agents reduce cardiovascular and renal events in patients with T2DM. Join us at 6:00 p.m. on Wednesday, April 10, 2019 to learn more. The CME program, “Managing CVD and Renal Disease in T2DM: Individualizing Treatment Using Guideline-and Evidence-based Data,” will review clinical trial data on the cardiovascular and renal benefits of antihyperglycemic agents—information that you may find useful as you individualize therapies for your patients with T2DM.

Thursday, April 11 • Dinner

**Reducing LDL-C and Cardiovascular Risk with Nonstatin Therapy: From Evidence to Practice**

Supported by: Amgen

6:30-8:30 p.m.
Registration: 6:00 p.m.
(Dinner will be served)
Philadelphia Marriott Downtown • Salons A-D
Online: WWW.SYMPOSIAREG.COM/21903
Phone: 973-467-1966

LDL-C remains a central focus of cardiovascular risk reduction. Guidelines have identified statin benefit groups for whom the atherosclerotic cardiovascular disease (ASCVD) risk reduction clearly outweighs the risk of adverse events. Even among those treated with high-intensity statins, many adults with cardiovascular disease are not achieving recommended LDL-C levels; while intensifying statin therapy provides additional risk reduction, residual cardiovascular risk remains. Certain patient populations may benefit from adding nonstatin, LDL-C-lowering therapy; clinical trials have demonstrated benefits in high-risk patient populations with the use of ezetimibe and PCSK9 inhibitors. In this symposium, lipid experts Drs. Robert Giugliano, Marc Sabatine, and James Underberg will describe best practices for internists in managing LDL-C cholesterol and reducing the risk for major cardiovascular events with the addition of nonstatin therapy.

*Industry-Supported Symposia are independently organized and are not an official part of the Internal Medicine Meeting 2019 education program. For symposia offering Category 1 CME credit, CME credit is provided by organizations other than ACP. Please view the Internal Medicine Meeting 2019 app for updated schedule information. Select the Schedules icon, and then click on Industry-Supported Symposia for updated schedule.*
New Opportunities to Improve Management of Patients with or at High Risk of ASCVD Events
Supported by: Amarin Pharma Inc.
7:00-9:00 p.m.
Registration: 6:30 p.m.
(Dinner will be served)
Philadelphia 201 Hotel • Liberty Ballroom AB
Online: https://events.medintelligence.net/
Phone: 201-682-2414
This timely and engaging CME-certified symposium will offer in-depth coverage of important clinical issues and data. Featuring a faculty of leading experts in the management of atherosclerotic cardiovascular disease (ASCVD), the program will utilize case-based learning in a highly interactive format to optimize clinical strategies. Clinical pearls will be highlighted to improve the patient care decision process and to solve important challenges related to treating patients at risk for progressive and serious ASCVD, including the impact of residual risk beyond statin therapy. Attendees will apply evidence-based guidelines and recent randomized clinical trial data to lifestyle and therapeutic approaches for personalized patient care. Results from REDUCE-IT, arguably the most significant ASCVD outcomes trial in decades, will be presented, along with results of other pertinent clinical studies.

Individualized Management of Challenging Chronic Respiratory Diseases: Cases in Asthma, COPD, and Asthma-COPD Overlap
Supported by: GlaxoSmithKline
6:30-8:00 p.m.
Registration: 6:00 p.m.
Philadelphia Marriott Downtown • Salons I-L
Online: www.paradigmmc.com/773
A person walks into a doctor’s office with shortness of breath. As a clinician, you know this is not the beginning of a joke; rather, it is the beginning of a clinical scenario you’ve seen countless times in myriad patients, possibly with frustrating results. Better results are possible, but how? Get an inside look at real-life cases of asthma, COPD, and their overlap, featuring videotaped clinician-patient encounters, interactive decision-points, and expert guidance to illuminate the path to accurate diagnosis and individualized treatment of these common, challenging, and heterogeneous respiratory diseases.

Friday, April 12 • Dinner
Taking T2DM to Heart: Treating to Decrease CVD
Supported by: Boehringer Ingelheim Pharmaceuticals, Inc. and Lilly USA, LLC
6:30-7:30 p.m.
Registration: 6:15 p.m.
Philadelphia Marriott Downtown • Salons A-D
Online: www.forefrontcollabactivities.com/T2DMwithCVD
Patients with type 2 diabetes mellitus (T2DM) face increased risk for coronary heart disease and other vascular disorders, including heart failure, cardiac dysrhythmia, sudden death, hypertensive disease, pulmonary embolism, and aortic aneurysm. In Taking T2DM to Heart: Treating to Decrease CVD, Drs. Richard Pratley and Neil Skolnik will present new data and equip attendees with strategies to address patient barriers and apply emerging and adjunctive therapies to their daily clinical practice.

HPV Vaccination - Expanding the Playing Field for Cancer Prevention
Supported by: Merck & Co., Inc.
6:30-8:00 p.m.
Registration: 6:00 p.m.
Philadelphia Marriott Downtown • Salon G
Online: https://vindicocme41219.eventbrite.com
With the recent expansion of the age at which males and females may be eligible for HPV vaccination, internists need education on the burden of HPV, the impact of vaccination, and how to educate eligible patients to be vaccinated. This session will use traditional and gamified learning to address these points.

Industry-Supported Symposia are independently organized and are not an official part of the Internal Medicine Meeting 2019 education program. For symposia offering Category 1 CME credit, CME credit is provided by organizations other than ACP. Please view the Internal Medicine Meeting 2019 app for updated schedule information. Select the Schedules icon, and then click on Industry-Supported Symposia for updated schedule.
REDUCING MIGRAINE PAIN: New Therapeutic Options to Enhance Patient Care

Supported by: Lilly

6:30-7:30 p.m.
Registration: 6:00 p.m.
Loews Philadelphia Hotel • Regency Ballroom B
Online: www.rockpointe.com/migraine

Patients with migraine can unfortunately experience misdiagnoses and inadequate treatments based on the challenges of differentiating migraine from other types of headache. Once diagnosed, several innovative agents have recently been approved to enhance the outcomes of your patients with migraine. However, chronic migraine management remains challenging, as many patients will require multiple therapies. Join us at 6:00 p.m. on April 12, 2019 to learn how to more effectively diagnose and treat your patients with migraine.

The CME activity, “Reducing Migraine Pain: New Therapeutic Options to Enhance Patient Care,” will distinguish migraine from other types of headache, explain the pathophysiology of migraine, and review the latest safety and efficacy data of new and emerging therapies for migraine prevention.

Industry-Supported Symposia are independently organized and are not an official part of the Internal Medicine Meeting 2019 education program. For symposia offering Category 1 CME credit, CME credit is provided by organizations other than ACP. Please view the Internal Medicine Meeting 2019 app for updated schedule information. Select the Schedules icon, and then click on Industry-Supported Symposia for updated schedule.
BRIEF SUMMARY

SHINGRIX (Zoster Vaccine Recombinant, Adjuvanted)

The following is a brief summary only; see full prescribing information for complete product information.

1 INDICATIONS AND USAGE

SHINGRIX is a vaccine indicated for prevention of herpes zoster (shingles) in adults aged 50 years and older.

Limitations of Use:

SHINGRIX is not indicated for prevention of primary varicella infection (chickenpox).

2 DOSAGE AND ADMINISTRATION

2.2 Administration Instructions

For intramuscular injection only.

After reconstitution, administer SHINGRIX immediately or store refrigerated between 2° and 8°C (36° and 46°F) and use within 6 hours. Discard reconstituted vaccine if not used within 6 hours.

2.3 Dose and Schedule

Two doses (0.5 mL each) administered intramuscularly according to the following schedule: A first dose at Month 0 followed by a second dose administered anytime between 2 and 6 months later.

4 CONTRAINDICATIONS

Do not administer SHINGRIX to anyone with a history of a severe allergic reaction (e.g., anaphylaxis) to any component of the vaccine or after a previous dose of SHINGRIX [see Description (11) of full prescribing information].

5 WARNINGS AND PRECAUTIONS

5.1 Preventing and Managing Allergic Vaccine Reactions

Prior to administration, the healthcare provider should review the immunization history for possible vaccine sensitivity and previous vaccination-related adverse reactions. Appropriate medical treatment and supervision must be available to manage possible anaphylactic reactions following administration of SHINGRIX.

6 ADVERSE REACTIONS

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a vaccine cannot be directly compared with rates in the clinical trials of another vaccine, and may not reflect the rates observed in practice. There is the possibility that broad use of SHINGRIX could reveal adverse reactions not observed in clinical trials.

Overall, 17,041 adults aged 50 years and older received at least 1 dose of SHINGRIX in 17 clinical studies.

The safety of SHINGRIX was evaluated by pooling data from 2 placebo-controlled clinical studies (Studies 1 and 2) involving 29,305 subjects aged 50 years and older who received at least one dose of SHINGRIX (n = 14,645) or saline placebo (n = 14,660) administered according to a 0- and 2-month schedule. At the time of vaccination, the mean age of the population was 69 years; 7,286 (24.9%) subjects were aged 50 to 59 years, 4,488 (15.3%) subjects were aged 60 to 69 years, and 17,531 (59.8%) subjects were aged 70 years and older. Both studies were conducted in North America, Latin America, Europe, Asia, and Australia. In the overall population, the majority of subjects were white (74.3%), followed by Asian (18.3%), black (1.4%), and other racial/ethnic groups (6.0%); 58% were female.

Solicited Adverse Events

In Studies 1 and 2, data on solicited local and general adverse events were collected using standardized diary cards for 7 days following each vaccine dose or placebo (i.e., day of vaccination and the next 6 days) in a subset of subjects (n = 4,886 receiving SHINGRIX; n = 4,881 receiving placebo with at least 1 documented dose). Across both studies, the percentages of subjects aged 50 years and older reporting each solicited local adverse reaction and each solicited general adverse event following administration of SHINGRIX (both doses combined) were pain (78.0%), redness (38.1%), and swelling (25.9%); and myalgia (44.7%), fatigue (44.5%), headache (37.7%), shivering (26.8%), fever (20.5%), and gastrointestinal symptoms (17.3%), respectively.

The reported frequencies of specific solicited local adverse reactions and general adverse events (overall per subject), by age group, from the 2 studies are presented in Table 1. Total vaccinated cohort for safety included all subjects with at least 1 documented dose (n).

6.2 Postmarketing Experience

There were no differences in the proportions of subjects reporting any or Grade 3 adverse events (headache, shivering, myalgia, and fatigue) were reported more frequently by subjects after Dose 2 (28.2% and 21.4%, respectively) compared with Dose 1 (24.4% and 13.8%, respectively). Grade 3 solicited general adverse events (headache, shivering, myalgia, and fatigue) were reported more frequently by subjects after Dose 2 (2.3%, 3.1%, 3.6%, and 3.5%, respectively) compared with Dose 1 (1.4%, 1.4%, 2.3%, and 2.4%, respectively).

(continued on next page)
Unsolicited Adverse Events

Unsolicited adverse events that occurred within 30 days following each vaccination (Day 0 to 29) were recorded on a diary card by all subjects. In the 2 studies, unsolicited adverse events occurring within 30 days of vaccination were reported in 50.5% and 32.0% of subjects who received SHINGRIX (n = 14,645) and placebo (n = 14,660), respectively (Total Vaccinated Cohort). Unsolicited adverse events that occurred in ≥1% of recipients of SHINGRIX and at a rate at least 1.5-fold higher than placebo included chills (3.5% versus 0.2%), injection site pruritus (2.2% versus 0.2%), malaise (1.7% versus 0.3%), arthralgia (1.7% versus 1.2%), nausea (1.4% versus 0.5%), and dizziness (1.2% versus 0.8%).

Gout (including gouty arthritis) was reported by 0.18% (n = 27) versus 0.05% (n = 8) of subjects who received SHINGRIX and placebo, respectively, within 30 days of vaccination; available information is insufficient to determine a causal relationship with SHINGRIX.

Serious Adverse Events (SAEs)

In the 2 studies, SAEs were reported at similar rates in subjects who received SHINGRIX (2.3%) and placebo (2.2%) from the first administered dose up to 30 days post last vaccination. SAEs were reported for 10.1% of subjects who received SHINGRIX and for 10.4% of subjects who received placebo from the first administered dose up to 1 year post last vaccination. One subject (<0.01%) reported lymphadenitis and 1 subject (<0.01%) reported fever greater than 39°C; there was a basis for a causal relationship with SHINGRIX.

Optic ischemic neuropathy was reported in 3 subjects (0.02%) who received SHINGRIX (all within 50 days after vaccination) and 0 subjects who received placebo: available information is insufficient to determine a causal relationship with SHINGRIX.

Deaths

From the first administered dose up to 30 days post last vaccination, deaths were reported for 0.04% of subjects who received SHINGRIX and 0.05% of subjects who received placebo in the 2 studies. From the first administered dose up to 1 year post last vaccination, deaths were reported for 0.8% of subjects who received SHINGRIX and for 0.9% of subjects who received placebo. Causes of death among subjects were consistent with those generally reported in adult and elderly populations.

Potential Immune-Mediated Diseases

In the 2 studies, new onset potential immune-mediated diseases (pIMDs) or exacerbation of existing pIMDs were reported for 0.6% of subjects who received SHINGRIX and 0.7% of subjects who received placebo from the first administered dose up to 1 year post last vaccination. The most frequently reported pIMDs occurred with comparable frequencies in the group receiving SHINGRIX and the placebo group.

Dosing Schedule

In an open-label clinical study, 238 subjects 50 years and older received SHINGRIX as a 0- and 2-month or 0- and 6-month schedule. The safety profile of SHINGRIX was similar when administered according to a 0- and 2-month or 0- and 6-month schedule, and was consistent with that observed in Studies 1 and 2.

7 DRUG INTERACTIONS

7.1 Concomitant Vaccine Administration

For concomitant administration of SHINGRIX with inactivated influenza vaccine see Clinical Studies (14.5) of full prescribing information.

7.2 Immunosuppressive Therapies

Immunosuppressive therapies may reduce the effectiveness of SHINGRIX.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

There are no available human data to establish whether there is vaccine-associated risk with SHINGRIX in pregnant women [see Use in Specific Populations (8.1) of full prescribing information].

8.2 Lactation

It is not known whether SHINGRIX is excreted in human milk. Data are not available to assess the effects of SHINGRIX on the breastfed infant or on milk production/excretion [see Use in Specific Populations (8.2) of full prescribing information].

8.5 Geriatric Use

Of the total number of subjects who received at least 1 dose of SHINGRIX in the 2 efficacy trials (n = 14,645), 2,243 (15.3%) were aged 60 to 69 years, 6,837 (46.7%) were aged 70 to 79 years, and 1,921 (13.1%) were 80 years and older. There were no clinically meaningful differences in efficacy across the age groups or between these subjects and younger subjects [see Clinical Studies (14.1, 14.2, 14.3) of full prescribing information].

The frequencies of solicited local and general adverse events in subjects aged 70 years and older were lower than in younger adults (aged 50 through 69 years) [see Adverse Reactions (6.1)].

17 PATIENT COUNSELING INFORMATION

• Inform patients of the potential benefits and risks of immunization with SHINGRIX and of the importance of completing the 2-dose immunization series according to the schedule.

• Inform patients about the potential for adverse reactions that have been temporally associated with administration of SHINGRIX.

• Provide the Vaccine Information Statements, which are available free of charge at the Centers for Disease Control and Prevention (CDC) website (www.cdc.gov/vaccines).

Storage:

Store vials of Lyophilized gE Antigen and Adjuvant Suspension Components refrigerated between 2° and 8°C (36° and 46°F). Protect vials from light. Do not freeze. Discard if the vials have been frozen.

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Produced in USA.
Indication

SHINGRIX is a vaccine indicated for prevention of herpes zoster (shingles) in adults aged 50 years and older. SHINGRIX is not indicated for prevention of primary varicella infection (chickenpox).

Important Safety Information

- SHINGRIX is contraindicated in anyone with a history of a severe allergic reaction (e.g., anaphylaxis) to any component of the vaccine or after a previous dose of SHINGRIX.
- Review immunization history for possible vaccine sensitivity and previous vaccination-related adverse reactions. Appropriate medical treatment and supervision must be available to manage possible anaphylactic reactions following administration of SHINGRIX.
- Solicited local adverse reactions in subjects aged 50 years and older were pain (78.0%), redness (38.1%), and swelling (25.9%).
- Solicited general adverse reactions in subjects aged 50 years and older were myalgia (44.7%), fatigue (44.5%), headache (37.7%), shivering (26.8%), fever (20.5%), and gastrointestinal symptoms (17.3%).
- SHINGRIX was not studied in pregnant or lactating women, and it is unknown if it is excreted in human milk. Therefore, it cannot be established whether there is vaccine-associated risk with SHINGRIX in pregnant women or if there are effects on breastfed infants or milk production/excretion.
- Vaccination with SHINGRIX may not result in protection of all vaccine recipients.

Please see Brief Summary of Prescribing Information for SHINGRIX on inside adjacent pages.

Learn more at SHINGRIXHCP.com.