

PROGRAM

**Forty First Annual Meeting of the
Surgical Infection Society**



**Dallas, TX
April 23-26, 2022**

CONTINUING MEDICAL EDUCATION CREDIT INFORMATION

Accreditation

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of American College of Surgeons and Surgical Infection Society. The American College of Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

AMA PRA Category 1 Credits™

The American College of Surgeons designates this live activity for a maximum of **19.5 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Of the *AMA PRA Category 1 Credits™* listed above, a maximum of **19.5** credits meet the requirements for Self-Assessment.



AMERICAN COLLEGE OF SURGEONS
*Inspiring Quality:
Highest Standards, Better Outcomes*



AMERICAN COLLEGE OF SURGEONS
DIVISION OF EDUCATION

Learning Objective(s)-- This activity is designed for Physicians, Pharmacists and Nurses. Upon completion of this course, participants will be able to

1. Describe the appropriated diagnostic measures for the diagnosis of Surgical Site Infection
2. Summarize results on the latest research relevant to the diagnosis and treatment of surgical infections
3. Illustrate the correct use of antimicrobials for empiric treatment of sepsis in surgical patients
4. Examine elements of Quality in Surgery
5. Recognize the current controversies in the diagnosis and treatment of surgical infections
6. Evaluate the use of antimicrobials for a set course in the treatment of surgical infections
7. Discuss recent developments in the study of cellular and molecular mechanisms in the pathogenesis of surgical infections

DISCLOSURE INFORMATION

In accordance with the ACCME Accreditation Criteria, the American College of Surgeons must ensure that anyone in a position to control the content of the educational activity (planners and speakers/authors/discussants/moderators) has disclosed all financial relationships with any commercial interest (termed by the ACCME as “ineligible companies”, defined below) held in the last 24 months (see below for definitions). Please note that first authors were required to collect and submit disclosure information on behalf all other authors/contributors, if applicable.

Ineligible Company: The ACCME defines an “ineligible company” as any entity producing, marketing, re-selling, or distributing health care goods or services used on or consumed by patients. Providers of clinical services directly to patients are NOT included in this definition.

Financial Relationships: Relationships in which the individual benefits by receiving a salary, royalty, intellectual property rights, consulting fee, honoraria, ownership interest (e.g., stocks, stock options or other ownership interest, excluding diversified mutual funds), or other financial benefit. Financial benefits are usually associated with roles such as employment, management position, independent contractor (including contracted research), consulting,

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Conflict of Interest: Circumstances create a conflict of interest when an individual has an opportunity to affect CME content about products or services of a ineligible company with which he/she has a financial relationship.

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*Please see the insert to this program for the complete disclosure list.

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The Surgical Infection Society wishes to recognize and thank the following companies for their commercial promotion towards this educational activity.

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SURGICAL INFECTION SOCIETY FORTY FIRST ANNUAL MEETING

Dallas, Texas, April 23-26, 2022

Saturday, April 23, 2022

12:00-6:00	Registration	Ballroom Promenade
12:00-4:00	Potential Committee Meetings	Cottonwood
4:00-6:00	Council Meeting #1	Fairway Ranch
	Nominating Committee met by Phone 3/17	
7:00-9:00	President's Dinner (<i>By Invitation</i>)	Pavilion

Sunday, April 24, 2022

8:00-9:00	Breakfast Buffet	Ballroom AB
8:00-9:00	Committee Meetings	Ballroom AB
	Audit	Tina L. Palmieri, MD
	Awards	Laura Kreiner, MD - Jeffrey W. Shupp, MD
	Bylaws & Special Projects	Chadi T. Abouassaly, MD
	Diversity & Inclusion	Vanessa P. Ho, MD
	Fellowship	Lillian S. Kao, MD
	Global	Jennifer L. Rickard, MD
	Informatics	Haytham Kaafarani, MD
	Membership	Jeffrey L. Johnson, MD - Manuel Lorenzo, MD,
	Program	Heather L. Evans, MD - Daithi S. Heffernan, MD
	Scientific Studies	Sebastian D. Schubl, MD
	Strategic Planning	Mayur Narayan, MD
	Therapeutics & Guidelines	Jared M. Huston, MD
9:15-9:30	Welcome to the Meeting	Ballroom CD
	<i>Jeffrey Claridge, MD and Heather Evans, MD</i>	
9:30-10:30	Surgical Infection Society Presidential Address	Ballroom CD
	“Leading Change: How History Influences Navigation”	
	David P. Blake, MD, MPH, FACS, DMCC	
	INOVA Medical Center	
10:30-10:45	BREAK-Visit the Exhibits	Ballroom Foyer
10:45-12:30	Plenary Session I	
	The Art and Science of Surgical Infections (Papers 1-5)	Ballroom CD
	<i>Moderators: Jeffrey Claridge, MD and David Blake, MD</i>	
	<i>All Papers in this session are Susman Award Eligible</i>	

O1. Gut microbiota metabolites regulate host-pathogen interactions by altering pathogen virulence and host AhR signaling. Jason Xiao presenting. University of Chicago. *Discussant: William G. Cheadle, MD*

O2. Interhospital Transfer is an Independent Risk Factor for Hospital-acquired Infection. Camden Gardner presenting. Henry Ford Health System. *Discussant: Michaela A. West, MD, PhD*

O3. Neutrophil Extracellular Traps Induced by COVID-19 Plasma Persist Longitudinally: A Link to Endothelial Injury. Edward J. Kelly presenting. (Resident Award) MedStar Washington Hospital Center. *Discussant: Ori D. Rotstein, MD*

O4. Non-operative management of Appendicitis: Variations in Racial and Social disparities across the United States. Carmen Fahlen presenting. Rhode Island Hospital. *Discussant: Philip S. Barie, MD*

O5. Teasing pathologic from benign pneumatosis intestinalis. Julia Song presenting. Harvard Medical School. *Discussant: Kamal M.F. Itani, MD*

12:30-1:30 Luncheon Symposium I: La Jolla Ballroom AB
(Industry-sponsored; not part of scientific program)

1:30-1:50 Multi-Centered Trials Initiative Ballroom CD
Moderators: Christopher A. Guidry, MD

1:50-2:20 Pfizer Global Grant Update
Moderators: Mayur Narayan, MD and Manjari Joshi, MBBS

2:20-2:30 Discussion

2:30-2:45 BREAK-Visit the Exhibits Ballroom Foyer

2:45-4:30 Plenary Session II Ballroom CD
The Art and Science of Surgical Infections (Papers 6-10)
Moderators: Gregory J. Beilman, MD and Michaela A. West, MD, PhD
All Papers in this session are Susman Award Eligible

O6. Geriatric Trauma patients admitted for a fall are more likely to have a Community Acquired UTI. Leonardo Diaz presenting. (Resident Award) Washington University School of Medicine. *Discussant: Vanessa P. Ho, MD*

O7. Impact of Race on Outcomes and Management of Necrotizing Soft Tissue Infections. Brittany Fields presenting. (Resident Award) Augusta University Medical Center. *Discussant: Sabrina Sanchez, MD, MPH*

O8. De-novo Belatacept therapy is associated with higher levels of BK viremia, lower rates of BK clearance and increased risk of CMV disease after kidney transplant. Gregory Petrossian presenting. Albany Medical Center. *Discussant: Robert G. Sawyer, MD*

O9. Burn Wound Microbiome Differences in the Setting of Xenografted vs. Autografted Wounds. Mary Oliver presenting. Medstar Health Research Institute. *Discussant: Nicholas Namias, MD*

O10. The Distressed Community Index is not associated with mortality in critically ill patients with sepsis. Chloe Williams presenting. (Resident Award) The Ohio State University Wexner Medical Center. *Discussant: E. Patchen Dellinger, MD*

4:30-5:30 Business Meeting Ballroom CD
5:30-6:30 SIS Foundation Board Meeting (By Invitation) Fairway Ranch
6:30-7:30 Welcome Reception Poolside

- 1:00-2:00 Fellowship Award Recipient Presentations** **Ballroom CD**
Moderators: Philip S. Barie, MD, MBA and Laura Kreiner, MD
- Innovation Award 2019**
 Lillian S. Kao, MD
 LBJ General Hospital
- SIS Foundation Junior Faculty Basic Fellowship 2020**
 Jessica Weaver, MD, PhD
 UC San Diego
- SIS Foundation Junior Faculty Clinical Fellowship 2020**
 Christopher A. Guidry, MD
 University of Kansas Medical Center
- COVID-19 Foundation Grant Award**
 Sebastian D. Schubl, MD, FACS
 University of California - Irvine
- 2:15-3:30 Plenary Session IV** **Ballroom CD**
The Art and Science of Surgical Infections (Papers 16-20)
Moderators: Kevin P. Mollen, MD and Lillian S. Kao, MD
- O16.** Towards Proactive Surgical Infection Management: Development and External Validation of an AI-based Prediction Tool. Siri van der Meijden presenting. Healthplus.ai. *Discussant: Heather L. Evans, MD*
- O17.** Activated Collagen Powder Significantly Reduces Surgical Site Infections in Patients Undergoing Elective Surgery. Ryan Nowrouzi presenting. Baylor College of Medicine. *Discussant: Catherine J. Hunter, MD*
- O18.** Burn Wound Location Influences the Composition of Buccal and Wound Bed Swab Microbiomes. Edward J. Kelly presenting. (Resident Award) MedStar Washington Hospital Center. *Discussant: Marc G. Jeschke, MD, PhD*
- O19.** Evaluation of nasal methicillin-resistant Staphylococcus aureus screening for intraabdominal infections. Gabrielle Gibson presenting. Barnes-Jewish Hospital. *Discussant: Lillian S. Kao, MD*
- O20.** Is there a community microbial community? A comparison of pathogens between 2 hospital SICUs in a single city. Mikayla Moody presenting. Western Michigan University. *Discussant: Allison Berndtson, MD*
- 3:30-5:00 Update C. Diff 2022** **Ballroom CD**
Moderator: Jared M. Huston, MD
- 3:30-3:50** Colorectal Society Guideline (Non-Surgical Management): Kristin P. Colling, MD
- 3:50-4:10** Surgical Management of *C. Diff* the SIS Guideline: Joseph D. Forrester, MD
- 4:10-4:30** State of the Art of Antibiotic Treatment: Robert G. Sawyer, MD
- 4:30-4:50** Innovations in Therapy: Microbiome: John C. Alverdy, MD
- 4:50-5:00** Panel Discussion and Questions
- 5:15-6:15 STOP-IT Trial** **Fairway Ranch**
Speaker: Robert G. Sawyer, MD
- Free Night**

Tuesday, April 26, 2022

- 7:00-8:00** **Breakfast Symposium: Crely** **Ballroom AB**
(Industry-sponsored; not part of scientific program)
- 8:00-9:15** **Scientific Session V** **Ballroom CD**
The Art and Science of Surgical Infections (Papers 21-25)
Moderators: Charles H. Cook, MD and Tina L. Palmieri, MD
- O21.** Readmissions in Patients with Necrotizing Soft Tissue Infections: Continuity of Care Matters. Clara Kit Nam Lai presenting. (Resident Award) MetroHealth Medical Center. *Discussant: Amani D. Politano, MD*
- O22.** A Systematic Review of Preoperative Oral Health Intervention in Abdominal Surgery Patients. Chelsea Guy-Frank presenting. (Resident Award) University of Texas Health Science Center at Houston. *Discussant: David P. Blake, MD*
- O23.** Abdominal sepsis and the open abdomen in the geriatric patient: to operate or not to operate? Jefferson A. Proano-Zamudio presenting. Massachusetts General Hospital. *Discussant: Jennifer L. Rickard, MD*
- O24.** Bacteremia in Trauma: A Contemporary Analysis of Blood Culture Results and Outcomes in 158,884 Patients. Samir Fakhry presenting. HCA Healthcare. *Discussant: Therese M. Duane, MD*
- O25.** Prevalence of cultures, sensitivity testing and antibiotic use among SSI studies: a query of the top surgical journals. Kaylie Machutta presenting. University of Nevada Reno. *Discussant: Charles H. Cook, MD*
- 9:15-9:30** **BREAK-Visit the Exhibits** **Ballroom Foyer**
- 9:30-10:30** **FSIS Update – What Does It Mean? Where Are We Going?** **Ballroom CD**
Moderator: Lillian S. Kao, MD
- 9:30-9:35** Introduction and History: Why? - Philip S. Barie, MD
9:35-10:00 Where Are We Now? - Lillian S. Kao, MD and Laura Brown, MD, PhD
10:00-10:15 Poll: Needs Assessment - Jeffrey G. Chipman, MD
10:15-10:30 Panel Discussion and Questions - Philip S. Barie, MD
- 10:45-12:00** **Scientific Session VI** **Ballroom CD**
The Art and Science of Surgical Infections (Papers 25-30)
Moderators: Jared M. Huston, MD and Laura Brown, MD, PhD
- O26.** Prolonged Therapy Is Not Associated with Delayed Identification of Recurrent Intra-Abdominal Infection. Andrew Dulek presenting. University of Kansas Medical Center. *Discussant: Jeffrey S. Upperman, MD*
- O27.** Cross-Border Antibiotic Resistance Patterns in Burn Patients. Chance Dunbar presenting. University of California San Diego. *Discussant: Tina L. Palmieri, MD*
- O28.** Skin Closure after Laparotomy: A National Survey of Surgeon Risk Assessment and Management. Chelsea Guy-Frank presenting. (Resident Award) University of Texas Health Science Center at Houston. *Discussant: April Mendoza, MD*

O29. Open Mandible and Maxillary Fractures Associated with Higher Risk of Infection in Victims of Violence. Melissa Canas presenting. Washington University in St. Louis. *Discussant: Mayur Narayan, MD*

O30. Use of Antibigrams and Changes in Bacterial Resistance Patterns in a Burn Population. Josephine D'Abbondanza presenting. (Resident Award) University of Toronto. *Discussant: Lauren Moffatt, PhD*

12:00-1:00 **SIS Luncheon Symposium III: AbbVie** **Ballroom AB**
(Industry-sponsored; not part of scientific program)

1:00-2:00 **Pro/Con Debate** **Ballroom CD**
Moderators: Matthew R. Rosengart, MD, MPH and Fredric M. Pieracci, MD, MPH

2:00-2:15 **BREAK-Visit the Exhibits** **Ballroom Foyer**

2:15-4:30 **Mini Orals (21) – Case Reports (3)** **Fairway Ranch**
Session I *Moderators: Jessica Weaver, MD, PhD, Kristin P. Colling, MD and Robel T. Beyene, MD*

MO1. Associations of injury severity with debridement and irrigation practices among patients with open facial fractures. Matthew Hatch presenting. Injury Outcomes Network.

MO 18. Management of Sternal Infections and Sternal Disruptions after Sternotomy with Plate Fixation. Alexandra Blake presenting. Dominion Plastic Surgery

MO2. Factors Associated with Mortality in COVID-19 Patients Receiving Prolonged Ventilatory Support. Zachary Bergman presenting. (Resident Award) University of Minnesota.

MO3. AI discovery of multi-modal immunomodulatory control of sepsis in cases without effective antimicrobials. R. Chase Cockrell presenting. University of Vermont.

MO4. Influence of Maternal Diet on the Tight Junction Remodeling in Baboon Offspring. Alena Golubkova presenting. University of Oklahoma.

MO5. Pneumonia and Dysphagia after Cervical Spine Trauma. Laura Kreiner presenting. Case Western Reserve University School of Medicine/MetroHealth Medical Center.

MO6. Safety and Efficacy of Early Central Line Removal in Post Liver Transplant Patients. Elizabeth MacLean presenting. (Resident Award) Henry Ford Hospital.

MO7. The Effect of Time to Redebridement on 30-Day Mortality in Critically Ill Patients with NSTI. Jacob O'Dell presenting. University of Kansas Medical Center.

MO8. An acute care surgery clinical pathway improves antimicrobial stewardship in patients with acute appendicitis. Leo Andrew Benedict presenting. University of Missouri-Kansas Medical Center.

MO9. MSC-derived exosomes reduce oxidative damage and scarring to promote wound regeneration. Ayesha Aijaz presenting. Sunnybrook Research Institute.

MO10. Rectus femoris flap as the preferred salvage procedure for the management of vascular graft groin complications. Ashley Holly presenting. (Resident Award) Texas Health Resources.

CR2. Anaplasmosis Mimicking Acute Cholecystitis. Hannah Medeck presenting. UPMC Mercy Hospital

3:15-3:30 **BREAK-Visit the Exhibits**

Ballroom Foyer

3:30-4:30 **Session II.** *Moderators: Manuel Lorenzo, MD, Amanda Yang, MD and Brett Tracy, MD*

MO11. Ventilator-Associated Pneumonia: A riddle, wrapped in pleura, inside an enigma. Walter A. Ramsey presenting. (Resident Award) Jackson Memorial Hospital, University of Miami.

MO12. The impact of pre-operative sepsis on patients undergoing emergency general surgery. Anahita Jalilvand presenting. (Resident Award) Ohio State University Wexner Medical Center.

MO13. The Impact of the COVID-19 Pandemic on Utilization of Emergency Medical Services (EMS) in New York City (NYC). Megan Donnelly presenting. University of California, Irvine.

MO14. Temporal Profile of the Inflammatory Response During Six-month Follow Up After Severe Trauma. Lauren Kelly presenting. (Resident Award, Sawyer Award) University of Florida.

MO15. Risk Factors for Mortality Following Gastroduodenal Perforations: H. Pylori is alive and well in the USA! Lamis El Kabab presenting. (Resident Award) Southshore University.

MO16. The Performance of Fever as a Univariate Predictor of Infection. Victor Joe presenting. University of California, Irvine School of Medicine.

MO17. A Descriptive Review of Bacteremia in Trauma Patients. Arthur Grimes presenting. University of Oklahoma.

MO19. Analysis of the causes of lethal outcomes among patients with acute purulent-destructive lung diseases with COVID-19. Alisher Okhunov presenting. Tashkent Medical Academy.

MO20. Vitamin C deficiency may be a significant risk factor for surgical infections. Hugo Bonatti presenting. Meritus Health.

MO21. Burn-specific triage guidelines in state-based crisis standards of care. Rabia Nizamani presenting. University of North Carolina at Chapel Hill.

CR1. A new twist on an old trick: the use of MAAB soaks to treat angioinvasive Fusarium. Jennifer Schneider presenting. THR Fort Worth

CR3. Successful non-surgical management of isolated hepatic mucormycosis. Swarnalaxmi Umapathy presenting. (Resident Award). Medical City Health.

6:00-8:00 **Awards Banquet**

Ballroom AB

8:00 **ADJOURNMENT**