PROGRAM

Thirty-Fifth Annual Meeting of the
Surgical Infection Society

Westlake Village, California
April 15-18, 2015
Accreditation Statement
This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education through the joint providership of the American College of Surgeons and the Surgical Infection Society. The American College Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

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Learning Objectives:

This activity is designed for physicians, research scientists, nurses, nurse practitioners, and pharmacists.

Learning Objective(s)—At the end of this activity, participants will be able to:

Summarize results on the latest research relevant to the diagnosis and treatment of surgical infections
Use antimicrobials for empiric treatment of sepsis in trauma patients
Debate current controversies in the diagnosis and treatment of surgical infections
Use antimicrobials for a set course in the treatment of surgical infections
Discuss recent developments in the study of cellular and molecular mechanisms in the pathogenesis of surgical infections
Understand current treatment for secondary bacterial peritonitis

American College of Surgeons, Division of Education
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Thirty-Fifth Annual Meeting Sponsors

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SURGICAL INFECTION SOCIETY THIRTY-FIFTH ANNUAL MEETING
Westlake Village, California, April 15-18, 2015

Wednesday, April 15, 2015

19:00-21:30 Presidential Dinner (By invitation)  Pagoda Lawn

Thursday, April 16, 2015

06:30-07:30 Breakfast  Garden Lawn
07:00-07:30 Executive Council Breakfast (By invitation)  Georgian
07:30-11:30 Executive Council Meeting (By invitation)  Georgian
07:30-11:30 SURGICAL INFECTION UPDATE SYMPOSIUM  Ballroom

BIOLOGY OF SEPSIS and PHARMACOLOGY
07:30-07:45 Microbiology of surgical pathogens: Gram-positive cocci  Lena Napolitano
07:45-08:00 Biology and metabolism of sepsis  Matthew Rosengart
08:00-08:15 Organ physiology and multiple organ failure/dysfunction  John Marshall
08:15-08:30 Antimicrobials and antibiotic PDs: Anti-staphylococcal drugs  Pamela Lipsett
08:30-09:45 Q and A session

RISK PREVENTION/PROPHYLAXIS
08:45-09:05 New intra-abdominal infection guidelines  John Mazuski
09:00-09:15 Clostridium difficile infections  Brian Zuckerbraun
09:15-09:30 Antibiotic stewardship  Robert Sawyer
09:30-09:45 Q and A session
09:45-10:00 BREAK

SPECIFIC INFECTIONS
10:00-10:15 Necrotizing soft tissue infections  Addison May
10:35-10:55 DEBATE: Acute diverticulitis: Lavage or resect? Anastomose or divert?  Lillian Kao vs. Christine Cocanour
10:55-11:15 DEBATE: Acute appendicitis: Antibiotics or appendectomy?  Therese Duane vs. E. Patchen Dellinger
11:15-11:30 Q and A session

11:30-11:45 Nominating Committee (By invitation)  Georgian

12:00-13:00 LUNCHEON SYMPOSIUM (Industry-sponsored; not part of scientific program)  Garden Lawn

13:00-16:45 PLENARY SYMPOSIUM  Ballroom
The Art and Science of Surgical Infections (Papers 1-10)  Moderators: Nicholas Namias, MD, MBA, and John C. Alverdy, MD
O1. Pathway Analysis of the Intestinal Transcriptome of Mice Rescued From Sepsis via a Fecal Microbiota Transplant Demonstrates a Role for IL22. Monika Krezalek (Resident), presenting. University of Chicago. Discussant: Michaela West, MD, PhD


O6. Obesity is not Associated with Antimicrobial Treatment Failure for Intra-Abdominal Infection. Zachary Dietch (Resident), presenting. University of Virginia. Discussant: E. Patchen Dellinger, MD

O7. Deficiency in Oncostatin M Receptor Results in Improved Survival in Older Mice Following Sepsis Through Down-Regulation of IL-10. Saad Salim (New Member), presenting. University of Alberta. Discussant: Brian Zuckerbraun, MD


16:45-17:30  “SIS WAIT FOR IT Planning Study”-Robert G. Sawyer, MD  Library
16:45-17:30  Committee Meetings  Garden Lawn
17:30-18:15  Surgical Infections Editorial Reception (By Invitation)  Balcony B
18:15-19:00  SIS Foundation Board Meeting (By Invitation)  Library
19:00-20:30  Welcome Reception  Waterfall

Friday, April 17, 2015

06:30-08:00  Breakfast  Garden Lawn
07:00-08:00  Breakfast Symposium  Garden Lawn
(Industry-sponsored; not part of scientific program)

08:00-09:45  PARALLEL SESSION I  Ballroom BCD
Clinical Research (Papers 11-15)
Moderators: Daithi S. Heffernan, MD, and Sandra Swoboda, RN, MSN
**Discussant: Addison K. May, MD**


O13. Contact Isolation In Trauma Patients: An Analysis Of Infectious Complications. Mark Hamill, presenting. University of Virginia. **Discussant: Sandra M. Swoboda, MSN, RN**


O15. Impact of Type of Insurance on Infection Rates after Trauma. Jaswin Sawhney (Resident), presenting. Brown University. **Discussant: Amy A. McDonald, MD**

**08:00-9:45 PARALLEL SESSION II**

**Ballroom AE**

**Basic Science (Papers 16-20)**

**Moderators:** Carl Hauser, MD and Brian Eliceiri, PhD


O17. *Listeria monocytogenes* Inhibits Th17 Responses Through TLR2 Signaling. Song Liu, presenting. Medical School of Nanjing University. **Discussant: Meihong Deng, MD**

O18. Mitochondrial ROS Induces Cardiac Inflammation via Damage in Mitochondrial DNA and Stimulation of RAGE Pathway in a Pneumonia-related Sepsis Model. Qun (Sophia) Zang, presenting. University of Texas-Southwestern. **Discussant: Carl Hauser, MD**


**09:45-10:00 BREAK-Visit the Exhibits**

**10:00-11:00 William A. Altemeier Memorial Lecture**

**Ballroom BCD**

“Evolving Epidemiology of MOF into PICS”

**Frederick A. Moore, MD, FACS, MCCM**

Professor and Chief of Acute Care Surgery, University of Florida Health

**11:00-12:00 Surgical Infection Society Presidential Address**

**Ballroom BCD**

“Let’s Go Far”

**John C. Alverdy, MD**

The Sara and Harold Lincoln Thompson Professor and Executive Vice Chair
Department of Surgery, University of Chicago Medicine
12:00-13:15 LUNCHEON SYMPOSIUM
(Industry-sponsored; not part of scientific program) Garden Lawn

13:30-15:15 UPDATE SYMPOSIUM I
International Topics in Surgical Infections
Moderator: Joseph Solomkin, MD

- Topic 1: Strategies to Prevent SSI in Japan
- Topic 2: Approach to Surgical Site Infection in Nicaragua
- Topic 3: Surgical Infections in the Deployed Setting
- Topic 4: Surgical site infection rates following cesarean section in sub-Saharan Africa: A focus point for guideline-based intervention

15:15-13:30 Break-Visit the Exhibits

15:30-17:00 PARALLEL SESSION III
Clinical Research (Papers 21-26)
Moderators: Samir S. Awad, MD and Heather L. Evans, MD, MS


15:30-17:00 PARALLEL SESSION IV
Basic Science (Papers 27-32)
Moderators: Matthew R. Rosengart, MD, MPH and Todd W. Costantini, MD

O27. Paucity of Bacteria Implicated in Pathogenesis of Experimental Necrotizing Enterocolitis. Joanna Lim (Resident), presenting. Children's Hospital Los Angeles. Discussant: Michael J. Morowitz, MD

O28. Pre-B Cell Colony Enhancing Factor (PBEF)/Nampt Phosphorylation by PI3 Kinase is Indispensable for the Inhibition of Neutrophil (PMN) Apoptosis in Patients with Sepsis. Song Jia (New Member), presenting. Keenan Research Centre for Biomedical Science, St. Michael's Hospital, Toronto. Discussant: John Mazuski, MD, PhD
O29. Acute Appendicitis in Children is Associated with an Abundance of Bacteria from the Genus *Fusobacterium*. Matthew Rogers (New Member), presenting. Children's Hospital of Pittsburgh. Discussant: Jose J. Diaz, MD

O30. Effect of Remote Ischemic Preconditioning on LPS-Induced Pulmonary Inflammation In Mice. So Jung Choi (New Member), presenting. University of Toronto. Discussant: Brian Eliceiri, PhD

O31. Latent Cytomegalovirus Infection Predisposes Immune Competent Hosts to Pro-Inflammatory Pulmonary Immune Responses. Varun Dwivedi, presenting. The Ohio State University. Discussant: Ori Rotstein, MD

O32. Defining The Mitochondrial DAMP Repertoire: Formyl Peptides are Not all Created Equal! Carl Hauser, presenting. Center for Vascular Biology Research, Harvard Medical School, BI Deaconess Medical Center. Discussant: Gary C. An, MD

17:00-18:00  Annual Business Meeting *(Members only)*

18:00  Free Evening

Saturday, April 18, 2015

07:00-08:00  Executive Council Meeting *(By invitation)*

07:00-08:00  Breakfast

08:00-09:00  UPDATE SYMPOSIUM II

What to do with the Darned Sub-specialists: Common Practices in Surgical Infections

*Moderator: Jeffrey Claridge, MD*

Topic 1: Thoracic Surgery
Topic 2: Orthopedic Surgery

09:00-10:00  UPDATE SYMPOSIUM III

PRO-CON DEBATES

*Moderator: John Mazuski, MD, PhD*

DEBATE: Nutritional Support: Does it Matter?
Patricia Byers vs. Michael Morowitz
DEBATE: Fever-Suppress or Let it Ride?
Carl Schulman vs. Kaysie Banton

10:00-10:15  FELLOWSHIP AWARD RECIPIENT PRESENTATIONS

*Moderators: Philip S. Barie, MD, MBA and Kevin P. Mollen, MD*

**SIS Foundation Basic or Translational Research Training Fellowship-2014**
Anthony J. Lewis, MD. University of Pittsburgh

**SIS Foundation Clinical Research Training Fellowship-2014**
Elinore J. Kaufman, MD. Weill Medical College of Cornell University
SIS Foundation Junior Faculty Fellowship-2014-2015
Heather L. Evans, MD, MS. University of Washington

10:15-10:30 BREAK–Visit the Exhibits

10:30-12:00 PARALLEL SESSION V
Clinical Research (Papers 33-38) Ballroom BCD

Moderators: Mary R. Kwaan, MD, MPH and David P. Blake, MD, MPH

O33. Does Circadian Rhythm Affect the Risk for Post-Operative Infectious Complications? Christopher Guidry (Resident), presenting. University of Virginia. Discussant: Christine S. Cocanour, MD

O34. WITHDRAWN


O38. Clinical Diagnosis of Infection in SICU: You are Not as Good as You Think! Madhu Subramanian (New Member), presenting. University of Texas, Southwestern. Discussant: Patrick J O'Neill, PhD, MD

10:30-12:00 PARALLEL SESSION VI
Basic Science (Papers 39-43) Ballroom AE

Moderators: Gary C. An, MD and Rachel Khadaroo, MD, PhD


O40. Lactobacillus Probiotic Species Strengthen Intestinal Barrier Function and Tight Junction Integrity. Brian Blackwood (Resident), presenting. Northwestern University Feinberg School of Medicine. Discussant: John Marshall, MD

O41. Mesenchymal Stem Cells Reverse Anemia and Bone Marrow Dysfunction Following Trauma, Hemorrhagic Shock, and Chronic Stress. Amy Gore (Resident), presenting. Rutgers-New Jersey Medical School. Discussant: Todd W. Costantini, MD

O42. Remote Ischemic Preconditioning Plasma Prevents Neutrophil Infiltration by Increased Anti-oxidative Capacity in the Zebrafish. Chung Ho Leung, presenting. University of Toronto. Discussant: Brian Zuckerbraun, MD

O43. Pseudomonas aeruginosa Infection Augments Burn-Induced Hepatic ER Stress. Mile Stanojcic (Resident), presenting. Sunnybrook Research Institute, University of Toronto, Toronto, Canada. Discussant: Steven E. Wolf, MD
12:00-13:15  **LUNCHEON SYMPOSIUM**  
(Industry-sponsored; not part of scientific program)  
Garden Lawn

13:30-15:00  **PARALLEL SESSION VII:**  
The Surgical Infection Society-Supreme Court (Papers 44-48) Ballroom BCD  
*Moderators: Pamela A. Lipsett, MD, MHE, John C. Alverdy, MD, John C. Marshall, MD, Robert G. Sawyer, MD, and William G. Cheadle, MD*

**O44.** Computed Tomography Versus Ultrasound for the Diagnosis of Acute Cholecystitis. D. Dante Yeh, presenting. Harvard Medical School, Massachusetts General Hospital.

**O45.** Comparison of Screening Tools' Ability to Detect Sepsis Accurately. Richard Wawrose, presenting. University of Texas Health Science Center at Houston.

**O46.** Pulmonary Microbiome and Cytokine Analysis of Bronchoalveloar Lavage in Mechanically Ventilated Trauma Patients? Ryan M. Huebinger, presenting. University of Texas Southwestern.

**O47.** The Transition from a Rural to Urban Environment in Africa Alters the Expression of Genes Involved in Cholesterol Metabolism: Potential Implications for Susceptibility to Infectious Diseases. Radhames Lizardo, presenting. University of California, San Diego.


16:00-17:20  **POSTER SESSION (Posters 1-52)**  
Basic and Clinical Studies in Surgical Infection  
Ballroom Foyer

*Moderators:*

Group 1: **Cell Biology** I (P1-P6)  
*Michael Cripps, MD and Catherine J. Hunter, MD*

Group 2: **Cell Biology** II (P7-P11)  
*Kevin P. Mollen, MD and Celeste C. Finnerty, PhD*

Group 3: **Outcomes** I (P12-P17)  
*Patrick J. O’Neill, PhD, MD and Michael K. Liang, MD*

Group 4: **Outcomes** II (P18-P23)  
*Soumitra R. Eachempati, MD and Charles A. Adams Jr., MD*

Group 5: **Pathogens** I (P24-P29)  
*Jeffrey W. Shupp, MD and Barbara Trautner, MD, PhD*

Group 6: **Pathogens** II (P30-P35)  
*Howard Belzberg, MD and Philip Chang, MD*

Group 7: **Wounds and Incisions** I (P36-P40)  
*Christine S. Cocanour, MD and Jose J. Diaz, MD*

Group 8: **Wounds and Incisions** II (P41-P45)  
*Weidun Alan Guo, MD and Kamal M. F. Itani, MD*

19:00-19:45  **New Member Reception**  
Ballroom Foyer

19:45-22:00  **Awards Banquet**  
Ballroom

22:00  **ADJOURNMENT**