PROGRAM

Fortieth Annual Meeting of the Surgical Infection Society

Denver, CO
April 17-20, 2020
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
Commercial Support Acknowledgement
The Surgical Infection Society wishes to recognize and thank the following companies for their ongoing commercial support:

**Platinum:**
- Merck
- BD

**Gold:**
- Tetraphase

**Silver:**
- KCI, an Acelity Company
- Paratek Pharmaceuticals

**Sponsors and Exhibitors:**
- Allergan
- Merck
- KCI, an Acelity Company
- PrescientSurgical
Friday, April 17, 2020

12:00-6:00  Registration  Grand Ballroom Foyer
4:00 - 8:00  Council Meeting  Aspen
Nominating Committee met by Phone 2/20
FREE NIGHT

Saturday, April 18, 2020

7:00 - 8:00  Breakfast  Cottonwood Ballroom
7:30 - 8:00  Committee Meetings  Cottonwood Ballroom

Audit  Manuel Lorenzo, MD, MBA
Awards  Peter A. Burke, MD
Bylaws & Special Projects  Chadi T. Abouassaly, MD
Fellowship  Lewis J. Kaplan, MD
Global  Jennifer L. Rickard, MD
Informatics  Jill Cherry, MD
Membership  Jeffrey Johnson, MD
Program  Heather Evans, MD, MS
Scientific Studies  Haytham Kaafarani, MD
Strategic Planning  Mayur Narayan, MD
Therapeutics & Guidelines  Jared M. Huston, MD

7:00 - 7:45  Surgical Infections Editorial Reception (By Invitation)  TBD
8:00 - 9:15  Mini Oral Session I – Case Reports and Case Series  Alpine
Moderators: Donald E. Fry, MD and Vanessa P. Ho, MD


CR2. Lumbar and Sacral Brucellosis due to Queso Fresco Ingestion. Cassandra Krause presenting. Loma Linda University Health.

CR4. Outbreak of Carbapenemase-Producing Enterobacteriaceae in a Regional Burn Centre. Sarah Rehou presenting. Sunnybrook Health Sciences Centre.

CR5. Necrotizing Soft Tissue Infection Within 48 Hours Post-Scald Burn: A Rare Presentation. Lius Enrique Meza presenting. Sunnybrook Health Sciences Centre.


8:00 - 9:15  Mini Oral Session I  
Maple

Moderators: Christopher A. Guidry, MD and Jong Lee, MD


M44. Alcoholism and Infection Risk in the Intensive Care Unit. Kristen Colling presenting. Essentia Health - Saint Mary's Medical Center Discussant: Sandy M. Swoboda, RN, MS

M45. Chemical Dependency Evaluation During ICU Admission is Associated with Decreased 1 year Mortality. Kristen Colling presenting. Essentia Health - Saint Mary's Medical Center Discussant: Tina L. Palmieri, MD

M46. Gender disparity in medical comorbidity distribution that affect trauma related infectious outcomes. Amelia Gurley presenting. Rhode Island Hospital, Brown University. Discussant: Caleb J Mentzer, DO

M47. Innovation in Perioperative Skin Preparation: A Novel Approach Utilizing a Dual Antimicrobial Film Drape. Katherine Evely presenting. Covalon Technologies, LTD. Discussant: Christopher A. Guidry, MD

M48. Mortality and Discharge disposition: Characterizing the burden of NSTI in the United States. Adara McCarty presenting. The Ohio State University. Discussant: Jong Lee, MD
M49. A Retrospective Single-Center Case-Matched Review of Robotic Colorectal Surgery at a Safety-Net Hospital. Naila Dhanani presenting. University of Texas Health Science Center. Discussant: Elizabeth Fox, MD

9:25 – 9:30 Welcome to the Meeting
Greg Beilman, MD and Heather Evans, MD MS

9:30 - 11:00 Year in Review
Moderator: Therese M. Duane, MD and Jeffrey M. Tessier, MD

9:30–10:00 Clinical review – Margaret Lauerman, MD
10:00–10:30 Translational review – Joseph S. Fernandez-Moure, MD
10:30-10:45 Basic Science review - Rondi Gelbard, MD PhD
10:45-11:00 Discussion

11:00-12:30 Methods in Surgical Infections Research Session
Moderator: Daniel D. Yeh, MD

11:00-11:30 Daniel D. Yeh, MD - “How to sniff out a good study”
11:30-11:50 Gabrielle Hatton, MD - “Why Bayes is the right kind of statistical approach to surgical decision making”
11:50-12:10 Saskya Byerly, MD - “What is this “machine learning” and how do I trust data mining and artificial intelligence?”
12:10-12:30 Joseph F. Golob Jr., MD - “What do you mean by implementation science?”

12:30-1:45 LUNCHEON SYMPOSIUM I
Cottonwood Ballroom
(Industry-sponsored; not part of scientific program)

1:45 - 2:45 Innovation Award Competition
Moderators: Peter A. Burke, MD, Todd W. Costantini, MD, Kamal M.F. Itani, MD, John C. Alverdy, MD and Ori D. Rotstein, MD

Haytham Kaafarani, MD (MGH)- Using Optimal Classification Trees to design and validate interpretable AI-based surgical risk calculators for non-trauma and trauma emergency surgery.
Thomas G. Weiser, MD (Stanford)- Expanding a surgical infection prevention program using a novel surgical headlight to increase provider engagement.
Anne Stey, MD (Northwestern)- Intra-abdominal Sepsis Source Control Intervention Timeliness and Interprofessional Communication.

2:45 - 3:00 BREAK - Visit the Exhibits
Grand Ballroom Foyer

3:00 – 5:40 Top Papers (10 min presentation/8 minute discuss)
The Art and Science of Surgical Infections (Papers 1-10)
Moderators: Greg Beilman, MD and Jeff Claridge, MD
O1. Synthetic versus Biologic Mesh for Complex Open Ventral Hernia Repair: A Pilot Randomized Controlled Trial (NCT03091790). Oscar A. Olavarria (Resident Award) presenting. McGovern Medical School at UTHealth. Discussant: Kamal M.F. Itani


O3. Administration of diclofenac causes clinically severe anastomotic leakage in the rat distal colon independent of diet. Melissa Aaron presenting. Radboud University Medical Center Nijmegen. Discussant: Ori Rotstein


O9. STING-dependent sensing of mtDNA initiated autophagy dysfunction drives sepsis-associated acute lung injury. Jie Wu presenting. Jinling Hospital, Medical School of Nanjing University. Discussant: Michaela West


6:00 - 7:00  SIS Foundation Board Meeting (By Invitation)  Aspen
7:00 - 10:00 President’s Dinner – FSIS – All Welcome  Cottonwood Ballroom

Sunday, April 19, 2020

7:00 - 8:00  BREAKFAST SYMPOSIUM  (Industry-sponsored; not part of scientific program)  Cottonwood Ballroom
8:00 - 9:15  SESSION II  (Papers 11-15)(8min/7min discussion)  Grand Ballroom

SIS 2020
Moderators: David P. Blake, MD and Ronald V. Maier, MD


9:15 - 10:00 BREAK - Visit the Exhibits

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

“???”
Ewen M. Harrison, MB, ChB, MSc, PhD, FRCS
Professor of Surgery and Data Science at the University of Edinburgh

11:15-11:45 MCT Initiative
Moderator: Haytham Kaafarani, MD

Fredric M. Pieracci, MD - The Duration of Antibiotic Treatment for Early VAP (DATE) Trial.
April Mendoza, MD - FUNgal coverage after Gastrointestinal Ulcer Surgery: The FUNGUS Trial.
Daniel D. Yeh, MD - Restricted vs. Liberal Post-Operative Antibiotics for Simple and Complicated Appendicitis using Desirability of Outcome Ranking and Response.

12:00 - 1:15 LUNCHEON SYMPOSIUM II
(Industry-sponsored; not part of scientific program)

1:15 - 2:30 SESSION III (Papers 16-20)(8min/7min discussion)


SIS 2020


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

2:45 - 3:45  Surgical Infection Society Presidential Address  
Grand Ballroom

“???”  
Jeffrey A. Claridge, MD  
MetroHealth Medical Center

3:45 - 4:00  BREAK - Visit the Exhibits  
Grand Ballroom Foyer

4:00 - 5:00  SESSION IV (Papers 21-24)(8min/7min discuss)  
Grand Ballroom

Moderators: Jeffrey S. Upperman, MD and Mayur Naryan, MD


*Discussant: Arpana Jain, MD*


O24. To Culture or Not to Culture: Does Microbiology Affect Mortality After Intra-abdominal Infection? Laura Stearns presenting. Western Michigan University. *Discussant: Julie Valenzuela, MD*

5:00 - 5:30  Annual Business Meeting (Members only)  
Grand Ballroom

5:30 - 6:00  Council Meeting #2  
Grand Ballroom

FREE NIGHT

**Monday, April 20, 2020**

7:00 - 8:00  BREAKFAST SYMPOSIUM  
Cottonwood Ballroom

*(Industry-sponsored; not part of scientific program)*

O26. Short Courses of Antibiotics are Safe in Necrotizing Soft Tissue Infections. Maria Valadez presenting. Harbor UCLA Medical Center. Discussant: Laura Kreiner, MD

O27. Age More Than 40 and Appendiceal Diameter More Than 10mm Predict Malignancy in Appendicitis: A Multicenter Study. Leon Naar presenting. Massachusetts General Hospital. Discussant: Jeffrey Chipman, MD


9:45 - 10:00 BREAK–Visit the Exhibits

10:00-11:25 SIS Update III: Delphi - Then & Now
Moderators: Haytham Kaafarani, MD and Sebastian Schubl, MD

10:00-10:05 Fredric M. Pieracci, MD – Then: Introduction 2006 Delphi Studies
10:05-10:15 Philip S. Barie, MD - Strict glycemic control
10:15-10:25 Robert G. Sawyer, MD - Fixed short-course IAI therapy
10:25-10:35 Ernest E. Moore, MD - Empiric vs. withholding abx for VAP/IAI (do you wait for cultures)

10:35-10:45 Sebastian Schubl, MD – Now: Introduction 2020 Delphi Studies
10:45-10:55 Vanessa P. Ho, MD, MPH - Are there effective non-antimicrobial prevention strategies or treatments to treat or address resistance/colonization?
10:55-11:05 Laura Brown, MD, PhD - Does standard duration of antibiotics for bacteremia (14 days) affect mortality and recurrent bacteremia vs. treatment until afebrile, no leukocytosis and repeat blood culture negative with minimum 7 days?
11:05-11:15 Habeeba S. Park, MD - What is the optimal duration of antimicrobial therapy for NSTI?
11:25-11:45  FELLOWSHIP & INNOVATION AWARD RECIPIENT PRESENTATIONS
Moderators: Philip S. Barie, MD, MBA and Peter Burke, MD  Grand Ballroom

Surgical Infection Research Innovation Award-2019
Lillian S. Kao, MD
LBJ General Hospital

SIS Foundation Junior Faculty Basic Research Fellowship-2019
Joseph Fernandez-Moure, MD
University of Pennsylvania

SIS Foundation Junior Faculty Clinical Research Fellowship-2019
Margaret Lauerman, MD
R Adams Cowley Shock Trauma Center

SIS Foundation Junior Faculty Fellowship-2018-2020
Jonathan Wisler, MD
Ohio State University Medical Center

11:45 - 1:00  LUNCHEON SYMPOSIUM III
(Industry-sponsored; not part of scientific program)  Cottonwood Ballroom

1:00 - 3:00  GLOBAL SYMPOSIUM  Grand Ballroom
Moderators: Jennifer L. Rickard, MD and Joseph S. Solomkin, MD

1:00-1:45  Dr. Nobhojit Roy, MD, PhD - Antimicrobial resistance in South Asia.
1:45-2:20  Allison Berndtson, MD and Andrew H. Stephen, MD - Pro/Con Debate (35 min: 10 min each, then 3 min rebuttal, 5 min questions)
2:20-2:35  Joseph D. Forrester, MD - Survey of national surgical site infection surveillance programs in low- or middle-income countries (15 min)
2:35-2:50  Mayur Naryan, MD and Jennifer Rickard, MD - Update on SIS-Pfizer study

3:00 - 3:15  COFFEE BREAK–Visit the Exhibits  Grand Ballroom Foyer

3:15 - 5:15  Mini Oral Session II - Thoracic and GI Surgery  Alpine
Moderators: Amani Politano, MD and Rishi Rattan, MD

M1. Identifying Risk Factors for Pneumonia and Sepsis in Patients Undergoing Rib Fixation for Isolated Rib Fractures. Alessia Cioci Presenting. University of Miami. Discussant: Jose Diaz

M2. Early Tracheostomy Decreases Ventilator Associated Pneumonia in Geriatric Trauma Patients with Rib Fractures. Christina X Zhang presenting. SUNY Downstate. Discussant: Rishi Rattan


M5. Thoracic Drainage and Decortication in Trauma is Associated with Worse Outcomes and Exacerbated by Splenectomy. Brett Tracey presenting. Emory University. Discussant: Christopher Towe, MD


M8. Risk of Mortality in Patients Infected With Clostridium Difficile Colitis and Underwent Colectomy. Robyn Guinto presenting. Jersey Shore University Medical Center. Discussant:


3:15 - 5:15 Mini Oral Session II - Trauma and Critical Care

M11. Outcome of Patients Managed with Rapid Source Control Laparotomy (RSCL) versus Primary Fascial Closure (PFC). Rachael Seddighzadeh presenting. HMH Palisades Medical Center. Discussant: Joe Golob

M12. Procalcitonin level is more indicative of trauma severity than infection in the acute recovery phase. Matthew Sussman presenting. University of Miami. Discussant: April Mendoza


M17. Reduction of unplanned (surgical infection related) ICU admissions with introduction of continuous vital sign monitoring. Yassin Eddahchouri presenting. Radboud University Medical Center. Discussant:
M18. Predicting Sepsis Within Four Hours of Admission to a Surgical Intensive Care Unit. Andrew Young presenting. University of Pennsylvania. Discussant: Rondi Gelbard


3:15 - 5:15 Mini Oral Session II - Soft tissue infections and SSI Elm Moderators: ??? and Laura Kreiner, MD


M23. Clustering of Positive Fungal Cultures in Burn Patients. Alison Monahan presenting. University of Colorado Hospital. Discussant: Jeff Shupp


M25. Use of Broad-Spectrum Antibiotics and Sepsis-3 Criteria in Burns. Luis Enrique Meza presenting. Sunnybrook Health Sciences Centre. Discussant:


M30. Socioeconomic well-being predicts mortality in necrotizing soft tissue infection. Michael Villarreal presenting. The Ohio State University. Discussant: Addison May


SIS 2020
3:15 - 5:15  Mini Oral Session II - *Special populations*  
*Ash*

*Moderators: Christopher Guidry, MD and Margaret Lauerman, MD*

**M32.** The Impact of Elder-friendly Care on Infection and Delirium following Acute Care Surgery. Rachel Khadaroo presenting. University of Alberta. *Discussant: Chadi Abouassaly*

**M33.** Pediatric Surgical Coverage is Associated with Increased Costs in the Operative Management of Uncomplicated Appendicitis. Nicholas Bandy presenting. Eastern Virginia Medical School. *Discussant: Kevin Mollen*

**M34.** Gender Disparities in the Operative Management of Complicated Diverticulitis. Laura Godat presenting. UC San Diego School of Medicine. *Discussant: Karla Bernardi*

**M35.** Association of Patient Frailty With Surgical Site Infections After Intestinal Surgery for Crohn’s Disease. Wenbin Gong presenting. Jinling Hospital. *Discussant: Chris Guidry*

**M36.** Ventral Hernia Repair in Immunocompromised Patients. Mahsa Shariat presenting. Brigham and Women's Hospital. *Discussant: Margaret Lauerman*

**M37.** Predictors of Pathologic Non-Occlusive Mesenteric Ischemia. Mahsa Shariat presenting. Brigham and Women's Hospital. *Discussant: George Maish*

**M38.** Outcomes of patients undergoing enterocutaneous fistula repair. Matthias Christensen presenting. Massachusetts General Hospital. *Discussant: Caleb Mentzer*

**M39.** Current Practice of Acute appendicitis Diagnosis and Management in China. Qinjie Liu presenting. Medical school of Nanjing university. *Discussant: Cindy Crosby*

**M40.** Community versus Hospital acquired Infections in Rwandan Acute Care Surgery Patients. Christophe Mpirimbanyi presenting. Kibungo Referral Hospital/ Rwanda Ministry of Health. *Discussant: Julie Valenzuela*


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

8:00  **ADJOURNMENT**