

PROGRAM

Thirty-Ninth Annual Meeting of the Surgical Infection Society



**Coronado, CA
June 5-8, 2019**

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

CONTINUING MEDICAL EDUCATION CREDIT INFORMATION

Accreditation

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the 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 24.50 *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 18.75 credits meet the requirements for Self-Assessment.



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Disclosure Information

In compliance 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 has disclosed all relevant financial relationships with any commercial interest. All reported conflicts are managed by a designated official to ensure a bias-free presentation. Please see the insert to this program for the complete disclosure list.

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SURGICAL INFECTION SOCIETY THIRTY-NINTH ANNUAL MEETING
Coronado, California, June 5-8, 2019

Wednesday, June 5, 2019

12:00-18:00	Registration	Commodore Foyer
12:30	Council Lunch	Constellation A
13:00-16:00	Council Meeting	Constellation A
Nominating Committee met by Phone 2/19		
18:00	Buses Depart for President's Dinner	Hotel Lobby
18:30-21:00	President's Dinner (<i>By invitation</i>)	Herb & Wood

Thursday, June 6, 2019

06:30-07:15	Breakfast	Scientific Studies MCT Info Session	Commodore E
06:30-07:15	Awards Committee Meeting		Commodore CD
07:15-07:30	Welcome - President May, Recorder Evans		Commodore AB
	New Members and Presidential Citation Winners will be recognized		
07:30-12:15	OPENING SYMPOSIUM		Commodore AB
07:30-07:35	Introduction to the Symposium (Evans)		
07:35-09:15	Patient Generated Health Data and Surgical Site Infection		
	<i>Part 1: Current and Future (45 min)</i>		
07:35-07:45	The current state of mHealth apps for SSI detection: a CDC-sponsored Health Technology Assessment (Sheri Chernetsky Tejedor, MD)		
07:45-07:55	Artificial intelligence data methods for surgical site infection detection and monitoring (Aven Samareh)		
07:55-08:05	Patient generated health data: how will imaging change the definition of SSI? (Rob Sawyer, MD)		
	Panel discussion (15 min)		
	<i>Part 2: Workflow and Implementation (45 min)</i>		
8:20-8:30	Creating and implementing a patient-centered mHealth intervention for post-op SSI surveillance (John Semple, MD)		
8:30-8:40	Engaging the patient in surgical site infection monitoring (Danielle Lavalley, PhD)		
8:40-8:50	Changing workflow and care delivery with patient generated health data (Bill Lober, MD, MS)		
	Panel discussion (15 min)		
09:15-10:45	Global Health		
09:15-09:45	"Surgical Infections and Global Health: from neglect to emerging frontier"		
	Invited Speaker: Emmanuel A. Ameh, MBBS, FWACS, FACS. National Hospital Nigeria		

09:45-10:15 **Pro-Con Debate** *Task sharing in surgery improves capacity and does not compromise surgical care.* Speakers: *Jennifer Rickard, MD, University of Minnesota and Julie Valenzuela, MD, Vanderbilt University*

10:15-10:45 "Raising the Bar for Global Health" - *Thomas Weiser, MD, Stanford University*

11:00-12:15 **Year in Review**

Moderator: Daniel Dante Yeh, MD

11:00-11:20 **Clinical review - Rishi Rattan**

11:20-11:40 **Translational review - April Mendoza**

11:40-12:00 **Basic Science review - Elliott Williams**

12:00-12:10 Discussion

12:15-13:30 LUNCHEON SYMPOSIUM

(This session made possible by a Grant from Merck; not part of scientific program)

Update on Pneumonia:

Kamal M.F. Itani, MD

Fredric M. Pieracci, MD

Lillian S. Kao, MD

13:30-17:00 Top Papers (10 min presentation/10 minute discuss)

The Art and Science of Surgical Infections (Papers 1-10)

Moderators: Addison K. May, MD and Greg Beilman, MD

01. Preoperative Dietary Rehab Reduces the Risk of Lethal Gut Derived Sepsis. Robert Keskey (Resident Award) presenting. University of Chicago. *Discussant: William Cheadle, MD*

02. Immunomodulatory Effects of Remote Ischemic Conditioning in Hemorrhagic Shock Patients in a Randomized Controlled Trial. Chung Ho Leung presenting. St. Michael's Hospital. *Discussant: John Alverdy, MD*

03. Spatially nested pathobionts in cecal crypts as a potential source of sepsis. Olga Zaborina presenting. University of Chicago. *Discussant: Michaela West, MD, PhD*

04. An Adaptive Surgical Infection Prevention Program in Ethiopia Improves Quality and Reduces Postoperative Infections. Jared Forrester (Resident Award) presenting. Stanford University. *Discussant: Greg Beilman, MD*

05. Hydrogel delivery of antibiotics in a mouse model of methicillin-resistant *Staphylococcus aureus* osteomyelitis. Christopher Dussik presenting. Yale School of Medicine. *Discussant: Kamal Itani, MD*

06. Following Feline Sarcoma Related (FER) Kinase in Immune Cells during *Klebsiella* Pneumonia (PNA). Vladislav Dolgachev presenting. University of Michigan. *Discussant: John Mazuski, MD, PhD*

07. Intestinal Microbiota And Butyrate Depletion Drive Gut-Derived Infections In Necrotizing Pancreatitis. Fons van den Berg presenting. University of Amsterdam *Discussant: Ori Rotstein, MD*

O8. Sepsis-Induced Increases in Inflammatory Mediators Associated with Adipose Tissue Browning in Burn Patients. Carly Knuth presenting. University of Toronto. *Discussant: Nicholas Namias, MD, MBA*

O9. Catheter-Associated Urinary Tract Infections Among Trauma Patients: Poor Quality of Care or Marker of Effective Rescue? Husayn Ladhani (Resident Award) presenting. MetroHealth Medical Center.
Discussant: Don Fry, MD

O10. Is Postoperative Infection a Predictor of 1-year Mortality? A Propensity Score Analysis. William O'Brien presenting. VA Boston Healthcare System. *Discussant: Rob Sawyer, MD*

17:00-18:00 Innovation Award Competition

Commodore AB

Robert Sawyer, MD - Trial planning for STOP IT Implementation Study

Lillian Kao, MD - Alliance for Surgical Site Infections Studies (ASSIST)

Haytham Kaafarani, MD - Using Machine-Learning Optimal Classification Trees and Optimal Prescription Trees to design novel, interactive, and personalized risk-calculators for Emergency and Non-Emergency Surgery

18:00-19:00 Committee Meetings

Commodore CD

Audit	Manuel Lorenzo, MD, MBA
Bylaws & Special Projects	Lillian S. Kao, MD
Fellowship	Lewis J. Kaplan, MD
Informatics	Jill Cherry, MD
Membership	Jeffrey Johnson, MD
Program	Heather Evans, MD, MS
Scientific Studies	Haytham Kaafarani, MD
Strategic Planning	Charles H. Cook, MD
Therapeutics & Guidelines	Therese M. Duane, MD

18:00-19:00 SIS Foundation Board Meeting (By Invitation)

Constellation A

19:00-21:00 Opening Reception

Marina Terrace

Friday, June 7, 2019

07:00-08:00 Breakfast

Commodore E

08:00-09:45 SESSION II (Papers 11-14)(8min/7min discussion)
Moderators: Robert Sawyer, MD and Chris Guidry, MD

Commodore AB

O11. Cost-Effective Methods of Optimizing Antibiotic Stewardship in Pediatric Non-Complicated Appendicitis. Angela Kao (Resident Award, New Member) presenting. Carolinas Medical Center.
Discussant: Manuel Lorenzo, MD, MBA

O12. Multicenter Outcomes of Chlorhexidine Oral Decontamination in Intensive Care Units. Joshua Parreco (Sawyer Award) presenting. University of Miami. *Discussant: Michael Cripps, MD*

O13. High Tidal Volume Ventilation is Associated with Ventilator-Associated Pneumonia in Acute Cervical Spinal Cord Injury. Gabrielle Hatton (Resident Award, New Member) presenting. UT Health. *Discussant: Laura Kreiner, MD*

O14. Are intra-operative bile cultures obtained during pancreatoduodenectomy of clinical benefit? Essa Aleassa presenting. Cleveland Clinic. *Discussant: E. Patchen Dellinger, MD*

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

10:00-11:00 SESSION III (Papers 15-18)(8min/7min discussion) **Commodore AB**
Moderators: Jeff Claridge, MD and David Blake, MD

O15. Does intra-wound vancomycin application during spinal surgery increase rates of surgical wound infection and disruption? Victor R. Vakayil presenting. University of Minnesota. *Discussant: Sandy Swoboda, RN, MSN*

O16. Comprehensive improvement of infection prevention practices in Ethiopia: Further refining the Lifebox Clean Cut program. Nichole Starr (Resident Award, New Member) presenting. University of California, San Francisco. *Discussant: Julie Valenzuela, MD*

O17. The ACA's Impact on Emergency General Surgery Admissions for Complicated Diverticulitis. Paul Albini presenting. University of California, San Diego. *Discussant: Sebastian Schubl, MD*

O18. Risk of Surgical Site Infection in Exploratory Laparotomy. Erin Andrade (Resident Award) presenting. Washington University in St. Louis. *Discussant: Theodore Delmonico, MD*

11:00-12:00 Surgical Infection Society Presidential Address **Commodore AB**
"Serendipity"
Gregory J. Beilman, MD
University of Minnesota

12:00-13:15 LUNCHEON SYMPOSIUM II Tetrphase-Don Fry/Vanessa Ho **Commodore E**
(Industry-sponsored; not part of scientific program)

13:30-15:00 SESSION IV (Papers 19-23)(8min/7min discuss) **Commodore AB**
Moderators: Jill Cherry, MD and Lillian Kao, MD

O19. Machine Learning Prediction Of Surgical Site Infection Using Color Images Of Wound Captured By Community Health Workers. Robert Riviello (New Member) presenting. Harvard Medical School Brigham and Women's Hospital. *Discussant: Jennifer L. Rickard, MD*

O20. Trauma Center Ratings in Hospital Compare: Poor Performance or Biased Modeling? Brian Young (Resident Award, Sawyer Award Winner 2019) MetroHealth Medical Center. *Discussant: George Maish, MD*

O21. Primary and Secondary Empyema have distinct bacterial pathogens: implications for empiric antibiotic treatment. Sudershan Srinivasan Presenting. University Hospitals Cleveland Medical Center. *Discussant: Chaitan K. Narsule, MD*

O22. Aged Dependent Long-Term Outcomes after Sepsis in Critically Ill Surgical Patients. Philip Efron presenting. University of Florida. *Discussant: Vanessa Ho, MD*

O23. Even Surgeons Can Use Quality Improvement Science To Eliminate CAUTIs From ICUs. Joseph Golob Jr. presenting. MetroHealth Medical Center. *Discussant: John M. Davis, MD*

15:00-15:15 BREAK-Visit the Exhibits **Commodore Foyer**

15:15-16:45 SESSION V (Papers 24-28)(8min/7min discuss) **Commodore AB**
Moderators: Therese Duane and Jared Huston, MD

O24. Necrotizing Soft Tissue Infection: Time is Crucial and The Admitting Service Matters. Napaporn Kongkaewpaisan presenting. Massachusetts General Hospital. *Discussant: Arpania Jain, MD*

O25. An Actionable Risk Model for the Development of Surgical Site Infection Following Emergency Surgery. Joseph Fernandez-Moure presenting. University of Pennsylvania. *Discussant: Haytham Kaafarani, MD*

O26. Post-operative Antibiotics After Simple (Acute) Appendicitis Are Not Associated with Improved Clinical Outcomes. Alexis Cralley presenting. Denver Health. *Discussant: Lillian Kao, MD*

O27. The usefulness of subjective vs objective factors in predicting postoperative complications after appendectomy. Andrew Vallejo presenting. Boston University School of Medicine. *Discussant: Kevin Mollen, MD*

O28. The Impact of Elder-friendly Care on Infection and Delirium following Acute Care Surgery. Rachel Khadaroo presenting. University of Alberta. *Discussant: David Blake, MD*

16:45-17:00 New Member Initiation Certificate Ceremony **Commodore AB**

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

18:00-18:15 Council Meeting #2 **Commodore AB**

18:30-19:15 Surgical Infections Editorial Reception (By Invitation) **Lenore**

Saturday, June 8, 2019

06:30-07:30 Breakfast Symposium AKPA **Commodore E**
(Industry-sponsored; not part of scientific program)

07:30-09:30 Mini Oral SESSIONS

07:30-08:30 Soft Tissue and Extremity Infections Part 1 (9)

Commodore A

Moderators: Laura Kreiner, MD and George O. Maish III, MD

P01. Obesity Paradox in patients with necrotizing soft tissue infections: A Validation Study. Ricardo Fonseca presenting. Washington University in St. Louis. *Discussant: Jeff Claridge, MD*

P02. Methicillin Resistance Does Not Impact Disease Severity in *S. aureus* Necrotizing Soft Tissues Infection. Alexis L. Woods, presenting. UCLA. *Discussant: Isaiah Turnbull, MD*

P03. The impact of culture site on length of stay among burn patients. Sarah Rehou, presenting. Sunnybrook Health Sciences Centre. *Discussant: Lauren Moffatt, PhD*

P04. Hypoalbuminemia is Not a Predictor of Mortality in Patients with Necrotizing Soft Tissue Infections. Manuel Castillo-Angeles, presenting. Brigham and Women's Hospital. *Discussant: Jeff Johnson, MD*

P05. Prevalence and Predictors of Opioid Prescription at Discharge after Necrotizing Soft Tissue Infections (NSTIs). Manuel Castillo-Angeles, presenting. Brigham and Women's Hospital. *Discussant: Manny Lorenzo, MD*

P06. A Randomized, Controlled Trial on the Efficacy of Perioperative Antibiotics in Grafting After Thermal Injury. Robert Ball, presenting. MedStar Washington Hospital Center. *Discussant: Jong Lee, MD*

P07. Recidivism in Surgical Intervention for Skin and Soft Tissue Infections from Injection Drug Use: Risks and Patterns. Mary Condron, presenting. St. Charles Health Care. *Discussant: Haytham Kaafarani, MD*

P08. Risk Factors Associated with Readmission following Surgical Management of Necrotizing Soft Tissue Infections. Hayoung Park, presenting. Harbor-UCLA Medical Center. *Discussant: Grant Bochicchio, MD*

P09. The susceptibility of sporadic nonpuerperal breast infections: a changing epidemiologic distribution! Morgan Lane, presenting. University of South Carolina. *Discussant: Tara Huston, MD*

08:30-09:30 Trauma (7)

Commodore A

Moderators: Laura Kreiner, MD and George O. Maish III, MD

P10. Adding Infectious Insult to Traumatic Injury in End-of-Life Discussions. Elizabeth Tindal, presenting. Brown University/Rhode Island Hospital. *Discussant: Laura Kreiner, MD*

~~**P11.** Infections and Other Morbidities in Operative and Nonoperative Management of Blunt Abdominal Trauma. Michelle Mulder, presenting. University of Miami. *Discussant: David Blake, MD*~~

P12. Temporary Abdominal Closure is Associated with Increased Risk for Fungal Intraabdominal Infections in Trauma Patients. Christina X Zhang, presenting. SUNY Downstate Medical Center. *Discussant: Rishi Rattan, MD*

P13. The effect of traumatic brain injuries on the development of pneumonia in the critically ill patient. Patrick Knight, presenting. Western Michigan University Homer Stryker M.D. School of Medicine.
Discussant: Felicia Williams, MD

P14. Direct peritoneal resuscitation in trauma patients results in similar rate of intra-abdominal infectious complications. Jacob Edwards, presenting. The Brody School of Medicine at East Carolina University.
Discussant: Reza Askari, MD

P15. Is There a Difference in the Incidence of UTI and Outcome Between Emergency General Surgery and Trauma Patients? Jose A. Aldana, presenting. Washington University St. Louis. *Discussant: Robert E. Bulander, MD, PhD*

P16. Differential long term survival following decortication for empyema and non-infectious etiologies. Christopher Towe, presenting. University Hospitals Cleveland Medical Center. *Discussant: Jared Huston, MD*

P17. Reintubation does not Increase Pneumonia Rates when Controlled for Ventilator Time. Jessica Weaver, presenting. University of Pennsylvania. *Discussant: Brian G. Harbrecht, MD*

07:30-08:30 Case Reports, Case Series (7)

Commodore C

Moderators: Donald E. Fry, MD and Fredric M. Pieracci, MD, MPH

P18. First case of acute cholecystitis due to *Gemella morbillorum*. Hugo Bonatti, presenting. Memorial Hospital at Easton.

P19. Acute cholecystitis in a gastric bypass patient complicated by Takotsubo cardiomyopathy. Hugo Bonatti, presenting. Memorial Hospital at Easton.

P20. Case Report: Vascular Graft Infection Presenting 40 Years After Index Operation. Amani Politano, presenting. Salem Health Medical Group.

P21. Gastric Perforation Secondary to Invasive Gastric Mucormycosis: A Case Report. Karla Bernardi, presenting. University of Texas Health Science Center at Houston.

P22. Intraperitoneal Extra-Intestinal *Clostridium Difficile*: A Rare Case. Serena Murphy, presenting. University of Vermont Medical Center.

P23. Quaternary Ammonium Salt Gauze Impregnated Reduces Bacterial Colonization of Surgical Drains After Breast Reconstruction. David Jansen, presenting. Tulane University School of Medicine.

P24. Prophylactic incisional vac in spine surgery. Kyle Mueller, presenting. Medstar Georgetown University Hospital.

08:30-09:30 Bugs and Drugs (11)

Commodore C

Moderators: Donald E. Fry, MD and Fredric M. Pieracci, MD, MPH

- P25.** Microbiology and outcomes of hospitalization with intra-abdominal infections in the US: A retrospective cohort study. Andrew Shorr, presenting. Washington Hospital Center. Discussant: *Jeffrey Tessier, MD*
- P26.** Factors that Impact Duration of Antibiotic Therapy from Phase 3 Studies of Eravacycline for Intra-Abdominal Infection. Kenneth Lawrence, presenting. Tetrphase Pharmaceuticals. Discussant: *John Mazuski, MD*
- P27.** Analysis of Antibiotic Treatment Regimens for Hirschsprung's Associated Enterocolitis. Jonathan Vacek, presenting. Ann and Robert Lurie Children's Hospital of Chicago. Discussant: *Chris Gayer, MD*
- P28.** 2017 Global Surveillance of the in vitro activity of eravacycline against clinical isolates from GI infections. Kenneth Lawrence, presenting. Tetrphase Pharmaceuticals. Discussant: *Joe Solomkin, MD*
- P29.** Is a shorter duration of antibiotic therapy associated with more resistant secondary infections? Cole Kircher, presenting. Western Michigan University Homer Stryker M.D. School of Medicine. Discussant: *Jill Cherry, MD*
- P30.** The Influence of the STOP-IT Trial on Antibiotic Prescribing in the ICU. Max Kopitnik, presenting. OhioHealth Riverside Methodist Hospital. Discussant: *Patrick Jon O'Neill, PhD, MD*
- P31.** Efficacy of Eravacycline in Non-Appendiceal Complicated Intra-Abdominal Infections: An Analysis of Two Phase 3 Trials. Vanessa Grant-DiFelice, presenting. Tetrphase Pharmaceuticals Discussant: *Donald E. Fry, MD*
- P32.** Penicillin allergy in pancreatoduodenectomy leads to a negative impact on surgical site infection and fistula formation. Essa Aleassa, presenting. Cleveland Clinic. Discussant: *Greg Beilman, MD*
- P33.** Tuberculosis and the acute abdomen: an evaluation of the National Inpatient Sample. Joseph D Forrester, presenting. Stanford University. Discussant: *Jennifer Rickard, MD*
- P34.** Increased disease severity in patients with appendicitis who grow *Streptococcus anginosus*. Laura E. Baumann, presenting. Dartmouth-Hitchcock Medical Center. Discussant: *Dante Yeh, MD*
- P35.** Microbial Epidemiology of Acute and Perforated Appendicitis in Adults Treated with Appendectomy or Percutaneous Drain. Sinong Qian, presenting. University of Miami. Discussant: *Rob Sawyer, MD*

07:30-08:30 Transplant, Immunology and Critical Care (8)

Britannia

Moderators: Todd W. Costantini, MD and Joseph F. Golob Jr., MD

- P36.** Lipopolysaccharide Decreases Expression of the Farnesoid X Receptor and its Downstream Products. Michael Philippe-Auguste, presenting. Children's Hospital Los Angeles. Discussant: *Allison Berndtson, MD*
- P37.** Burn Patients with History of Kidney Transplant Experience Increased Incidence of Wound Infection. Ahmed Elfadaly, presenting. University of Toledo. Discussant: *April Mendoza, MD, MPH*

- P38.** Infection-related Hospital Readmissions after Heart Transplantation. Georgia Vasileiou, presenting. University of Miami. *Discussant: Addison May, MD*
- P39.** Acute Acalculous Cholecystitis associated bacteremia has worse outcomes. Javier Rincon, presenting. Washington University in Saint Louis. *Discussant: Javier Perez, MD*
- P40.** Acute inflammation induced coagulopathy (AIIC) is a/w an increase in mortality in patients with acute pancreatitis. Rohit Rasane, presenting. Washington University in Saint Louis. *Discussant: Jose J. Diaz, MD*
- P41.** Heart rate variability in human endotoxemia as potential marker for immune response using a practical wearable device. Mats Koeneman, presenting. Radboud University Medical Center. *Discussant: Sharven Taghavi, MD*
- P42.** Amicidin-alpha and Amicidin-beta: Synthetic proteins engineered to prevent and treat infections in surgery and trauma. Joseph Solomkin, presenting. University of Cincinnati Medical College. *Discussant: Daithi Heffernan, MD*
- ~~**P43.** Economic Burden of Intensive Care Acquired Bacteremia. Felix Chang, presenting. Uniformed Services University of the Health Sciences and the Walter Reed National Military Medical Center. *Discussant: Amanda Yang, MD*~~
- P44.** Predictors of and Mortality from Resistant Infections in ICU Patients. Laura Stearns, presenting. Western Michigan University. *Discussant: Joseph F. Golob Jr., MD*
- ~~**P45.** Pneumonia Mortality in General Surgery Patients Vs Solid Organ Transplant Patients. Jose Lopez-Vera, presenting. Western Michigan University Homer Stryker MD School of Medicine. *Discussant: Phillip K. Chang, MD*~~

08:30-09:30 Soft tissue and extremity infections 2 (7)

Britannia

Moderators: Todd W. Costantini, MD and Joseph F. Golob Jr., MD

- P46.** Readmissions Following Necrotizing Fasciitis, Both Common and Costly. Addison K May, presenting. Atrium Health. *Discussant: Therese Duane, MD*
- P47.** Mechanisms Behind Impaired Wound Closure in Elderly Burn Patients. Abdikarim Abdullahi, presenting. University of Toronto. *Discussant: Jong Lee, MD*
- P48.** The Revolving Door of Hospital Admissions for Diabetic Foot Infections In The United States. Rishi Rattan, presenting. University of Miami. *Discussant: Amani D. Politano, MD*
- P49.** Is Initial Management of Morel-Lavallee Lesions Associated with Subsequent Infection? Shuyan Wei, presenting. University of Texas Health Science Center at Houston. *Discussant: E. Patchen Dellinger, MD*
- P50.** The Costs and Complications Associated with Infected Ventral Hernia Repair Mesh. Margaret Plymale, presenting. University of Kentucky. *Discussant: Manuel Lorenzo, MD, MBA*

P51. Necrotizing Fasciitis: On the Rise. Kelsey Musgrove, presenting. West Virginia University.
Discussant: Sean Monaghan, MD

P52. Surgical outcomes in Patients with Late Debridement of Long Bone Fractures of Lower Extremities in Penetrating Injury. Stuart Campbell, presenting. Jersey Shore University Medical Center. *Discussant: Rondi Gelbard, MD*

~~**P53.** Risk Factors for SSI and Wound Dehiscence in Pediatric Surgical Patients in Tikur Anbessa Hospital, Ethiopia. Abay Gosaye, presenting. Ethiopia. *Discussant: Julie Valenzuela, MD*~~

07:30-08:30 Acute Care Surgery (11)

Cambria

Moderators: Charles H. Cook, MD and Vanessa P. Ho, MD, MPH

P54. Association between hollow viscus injury and invasive candidiasis in critically ill trauma patients. Mehreen Kisat, presenting. Brigham and Women's Hospital. *Discussant: John M. Davis, MD*

P55. Appendicitis in Pregnancy. Georgia Vasileiou, presenting. University of Miami. *Discussant: Thomas J. Schroepfel, MD*

P56. Are the Benefits of Rapid Source Control Laparotomy (RSCL) Realized Following Acute Colonic Perforation? Matthew Rosenzweig, presenting. Palisades Medical Center. *Discussant: Daithi S. Heffernan, MD, AFRCSI*

P57. An analysis of mortality in patients with colorectal carcinoma undergoing elective versus emergent colectomies. Shalwa Mohidul, presenting. Grand Strand Medical Center. *Discussant: Kaushik Mukherjee, MD, MSCI*

P58. Oncologic colorectal surgery and concomitant inflammatory bowel disease: NSQIP analysis of *C. Diff* infection. Georgina Alizo, presenting. University of South Carolina. *Discussant: Mike K. Liang, MD*

P59. Non-abdominal imaging: a marker of illness severity and outcome in elderly patients needing emergency abdominal surgery. Lavina Malhotra, presenting. Brown University / Rhode Island Hospital. *Discussant: Lillian S. Kao, MD*

P60. Prophylactic Drainage After Appendectomy for Perforated Appendicitis in Adults. Sinong Qian, presenting. University of Miami. *Discussant: Sebastian Schubl, MD*

P61. Concomitant HIV/AIDS Infection Worsens Clinical Outcomes in Patients with Acute Diverticulitis. Tiago Finco, presenting. Riverside University Health System. *Discussant: Lillian S. Kao, MD*

P62. Lights Off, Camera On! Laparoscopic Cholecystectomy Improves Outcomes in Cirrhotic Patients with Acute Cholecystitis. Tiago Finco, presenting. Riverside University Health System. *Discussant: Mayur Narayan, MD, MPH, MBA*

P63. Robotic Cholecystectomy in Acute Care Surgery—More Money, Less Problems? Kirolos Malek, presenting. Loma Linda University Medical Center. *Discussant: Heather L. Evans, MD, MS, FACS*

P64. Prehabilitation Before Abdominal Surgery: A Systematic Review of the Literature and Meta-Analysis. Karla Bernardi, presenting. University of Texas Health Science Center at Houston. *Discussant: Vanessa P. Ho, MD, MPH*

08:30-09:30 Quality Improvement (7)

Cambria

Moderators: Charles H. Cook, MD and Vanessa P. Ho, MD, MPH

P65. The Impact of Surgical Care Improvement Project Compliance on Surgical Site Infection in a Trauma Population. Adel Elkbuli, presenting. HCA Healthcare. *Discussant: Philip S. Barie, MD*

P66. A Successful Multipronged Approach to Reducing Infectious Complications to Zero Following Colon Surgery. Lael King, presenting. Sentara. *Discussant: Vanessa P. Ho, MD, MPH*

P67. Intraoperative enteral nutrition does not increase the incidence of aspiration pneumonia in adult burn patients. Julia Cartwright, presenting. University of Michigan. *Discussant: Margaret Lauerman, MD*

P68. Mandatory Brief Operative Wound Classification Alone Does Not Increase Accuracy of Nursing Wound Classification. Samuel Zolin, presenting. MetroHealth Medical Center. *Discussant: Carolyn L. Twomey, BSN*

P69. Implementation of a perioperative enteral nutrition guideline in the intensive care unit. Talya Lorenz, presenting. University of Michigan. *Discussant: Samantha Tarras, MD*

P70. Preliminary Outcomes of Perioperative Glucose Management in Elective Surgical Patients at a Community Hospital. Abdel Salous, presenting. Sinai Hospital of Baltimore. *Discussant: Jose J. Diaz, MD*

P71. Surgical Site Infection in Patients Undergoing Laparoscopic Appendectomy: A Single Center Review. Emily Stock, presenting. University Of Minnesota. *Discussant: William G. Cheadle, MD*

09:30-09:45 BREAK–Visit the Exhibits

Commodore Foyer

09:45-11:30 Scientific Session VI - Focused Paper Presentations (Papers 29-35) Commodore AB
(8min/7min discuss)

Moderators: Alfred Ayala, PhD and Daithi S. Heffernan, MD, AFRCSI

O29. Transcriptomic profiles of patients' peroperative samples developing colorectal anastomotic leak show distinct signature. Jasper van Praagh presenting. University of Groningen, University Medical Center Groningen. *Discussant: Todd W. Costantini, MD*

O30. Notch signaling is protective in CD4+ T cells against apoptosis via negative regulation of STING signaling pathway. Chenxuan Yang presenting. University of Pittsburgh. *Discussant: Daithi Heffernan, MD*

O31. STING-mediated intestinal barrier dysfunction contributes to lethal sepsis. Qiong-yuan Hu presenting. Jinling Hospital. *Discussant: Robert Sawyer, MD*

O32. Localization of staphylococcal superantigens in solid organs of rats with infected burn wounds. Gaurav Garg (Resident Award) presenting. The Burn Center, MedStar Washington Hospital Center. *Discussant: Tina Palmieri, MD*

O33. Synovial Fluid has Antibacterial Effects. Samy Gabriel presenting. University of Florida. *Discussant: Elizabeth Fox, MD*

O34. Machine learning for predicting pathogenic organisms in bacterial infection based on Gram Stain images. Kensuke Minami (Resident Award) presenting. Osaka General Medical Center. *Discussant: Gary An, MD*

O35. Manuka honey microneedles for enhanced wound healing and the prevention and/or treatment of MRSA surgical site infection. Galit Frydman presenting. Massachusetts Institute of Technology. *Discussant: Isaiah R. Turnbull, MD, PhD*

11:30-11:45 FELLOWSHIP AWARD RECIPIENT PRESENTATIONS Commodore AB
Moderators: Philip S. Barie, MD, MBA and Peter Burke, MD

SIS Foundation Basic or Translational Research Training Fellowship-2018
Elliot Williams, MD
University of California – San Diego

SIS Foundation Clinical Research Training Fellowship-2018
Hunter Moore, MD, PhD
University of Colorado

SIS Foundation Junior Faculty Fellowship-2017-2019
Isaiah Turnbull, MD
Washington University School of Medicine

11:45-13:00 LUNCHEON SYMPOSIUM III AKPA Commodore E
(Industry-sponsored; not part of scientific program)

13:00-14:00 William A. Altemeier Memorial Lecture Commodore ABCD

“Critical Care Research in the Age of Electronic Medical Records”
Gordon R. Bernard, M.D.
Executive Vice President for Research and
Chief Research Officer, Vanderbilt University Medical Center

14:00-15:15 TRANSLATIONAL SYMPOSIUM Commodore ABCD
Translational Update 2019
Moderators: Tina Palmieri, MD and Phil Efron, MD.

The challenges of undertaking basic science research in under-developed countries - *Jared Forrester, MD*
Advancing technologies in the diagnosis of sepsis - *Elizabeth Fox, MD*

Burns: From bench to bedside and back again - *Tina Palmieri, MD*
Chronic critical illness as the new sepsis paradigm - *Phil Efron, MD*

15:15-15:30 BREAK–Visit the Exhibits **Commodore Foyer**

15:30-17:00 Pro-Con Debates: Ethics in Surgical Infections Research **Commodore ABCD**
Moderators: Fred Pieracci, MD

DEBATE #1: Opt-in, opt-out

Pro: The SIS should pursue a multicenter “opt-out” system for automatic subject enrollment into time sensitive trials of surgical infections.

Speaker: *Addison May* (15:30 - 15:38)

Con: “opt-out” research programs violate patient autonomy and should not be implemented.

Speaker: *Greg Beilman* (15:38 - 15:44)

Discussion: 15:44 - 15:50

DEBATE #2: Who pays for it?

Pro: Patients randomized to surgery vs. non-operative intervention should pay the costs of their treatment arm, whichever it may be.

Speaker: *Fred Pieracci* (15:50 - 15:58)

Con: Patients randomized to surgery vs. non-operative intervention should not have to pay the costs of their treatment arm, whichever it may be.

Speaker: *Vanessa Ho* (15:58 - 16:06)

Discussion: 16:06 - 16:12

DEBATE #3: Open Access journals

Pro: We should embrace Open Access journals as the future of scientific publishing

Speaker: *Donald Fry* (16:12 - 16:20)

Con: Open Access journals are predatory and dilute the quality of scientific reporting

Speaker: *Phil Barie* (16:20 - 16:28)

Discussion: 16:28 - 16:34

Debate #4: Show me the \$\$\$

Pro: The majority of funding should go to basic science research

Speaker: *Jared Huston* (16:34-16:42)

Con: The majority of funding should go to clinical research

Speaker: *Jeff Shupp* (16:42 – 16:50)

Discussion: (16:50 – 16:56)

17:00-18:00 Shock Society Presidential Address **Commodore ABCD**

18:00-19:00 Combined Reception for Both Societies **Bay Terrace**

19:00-21:00 Awards Banquet: Shock Members Invited **Commodore E**
(Tickets May Be Purchased if Not Registered for SIS)

21:00 ADJOURNMENT