

Pre-sessions, Tuesday, September 28th 1:00-5:00 PM EST

A reception will be held for Optional Session attendees and speakers from 5:00-6:00 PM EST

Pre-session: *The New Surgeon: Life after Residency and Fellowship (AAST Associate Member Council)*

13:00-13:05 Introduction: Julia Coleman & Kovi Besoff

Clinical

13:05 – 13:20 Managing the OR as a Junior Attending: Balancing resident autonomy—Brittany Bankhead-Kendall (Texas Tech)

13:20 – 13:35 Dealing with complications—Patrick Murphy (Wisconsin)

13:35 – 13:45 Q&A

Coding and Billing

13:45 – 14:00 Coding & Billing Basics: Following the rules. Finding the codes—Jennifer Grant (UTSW)

14:00 – 14:15 “How would the masters code”—Stephanie Bonne (Rutgers)

14:15 – 14:25 Q&A

Becoming an Academic Surgeon

14: 25 – 14:40 What to do with non-clinical time (education, committees, organizations, research)—Jonathan Meizoso (Miami)

14:40 – 14:55 Becoming an effective educator—Clay Cothren Burlew (Denver)

14:55 – 15:10 P&T Promotion & Tenure—Kimberly Davis (Yale)

15:10 – 15:25 How to write a great LOR—Ashley Meagher (Indiana)

15:25 – 15:35 Q&A

Developing a Research Plan

15:35 – 15:50 Start small-->think big: from small society grants to R01 funding—Lisa Knowlton (Stanford)

15:50 – 16:05 Get to know your colleagues! Getting involved in MCTs—Todd Constantini (UC San Diego)

16:05 – 16:20 Starting your own translational research program—Raul Coimbra (Riverside)

16:20 – 16:30 Q&A

Fellowship application process

16:30 – 16:45 Finding the perfect fellowship—Navpreet Dhillon

16:45 – 16:50 – Closing remarks

Pre-session: *Emerging Technology, Artificial Intelligence, Telemedicine, and Simulation: Where are we now? (Education Committee)*

Speakers: Rachel Callcut, MD; Joseph Forrester, MD; Andrea Pakula, MD; Caroline Park, MD; Alexander Colonna, MD; Marko Bukur, MD; Joseph DuBose, MD; Matthew Tadlock, MD; Joseph Sakran, MD;
Moderators: Elizabeth Benjamin, MD; Ryan Dumas, MD

A robust session that highlights the newest and most promising technologies and educational techniques in Trauma and Acute Care Surgery. What you need to know and how can you apply this to your practice. This session will feature a fast-paced window into the future of technology, artificial

intelligence, and simulation, showing how these ideas are accessible to everyday practice.

Pre-session: The AAST Neurocritical Care Update and Board Review Course (Education, Critical Care, Geriatric Committees)

Speakers: Anastasia Kunac, MD; Samuel Tisherman, MD; Purvi Patel, MD; Christopher Michetti, MD; Tanya Egodage, MD; Bellal Joseph, MD; Tommy Thomas, MD; Deborah Stein, MD; Jonathan Ratcliff MD; Krista Kaups, MD; Jonathan Agapian, MD; Carlos Brown, MD; Jonathan Ratcliff, MD; Salina Wydo, MD; Moderators: Christopher Michetti, MD; Deborah Stein, MD; Matthew Martin, MD

Neurocritical care has traditionally been a major component of both medical and surgical critical care practice but has lacked a formal subspecialty certification process that is readily open to surgical intensivists. In 2021, the American Board of Surgery announced a newly established subspecialty certification in Neurocritical Care that will be a collaborative effort with the American Board of Anesthesiology. This will include a high-stakes board exam to be administered in October of 2021. With the AAST Annual Meeting occurring in September of 2021, we believe this ideally positions us to offer this unique prep course ahead of the exam. Preparation for this exam will require not only familiarization with standard neurotrauma management, but also knowledge in non-surgical areas such as acute stroke and other neurologic emergencies, neuroanatomy and MRI interpretation, and neuropharmacology. This session will provide an intense focused review covering the core topics and focus areas that will be covered on the Neurocritical Care Exam (see figure below). The format will involve short didactic lectures on high-yield topics as well as case examples with sample question and answer reviews. In addition to the syllabus materials, attendees would also receive a copy of "The Pocket Guide to Neurocritical Care" which would be included in the registration fee.

Lunch Sessions, Wednesday, September 29th 12:25-1:40 PM EST

All lunch sessions include lunch with the registration fee

Lunch Session: Jacks of All Trades: Military, Rural, and Humanitarian Surgical Perspective on Competencies for Surgical Care in Austere Settings (Military Committee)

Speakers: Jay Yelon, MD; Alison Wilson, MD; Jeremy Cannon, MD; Matthew Martin, MD; Moderator: David Kauvar, MD

- Surgical care in rural and austere settings requires competencies beyond those routinely employed in the urban medical center environment. Military surgeons, rural surgeons, and those with humanitarian mission experience have a unique and valuable perspective on the knowledge and skill sets required to provide effective care when resources are limited. This session will be a moderated panel discussion/Q&A with surgeons who have experience in the austere surgical environment and will provide insight into these skill sets through discussion of their experiences and lessons learned. Session will consist of an introductory statement followed by brief presentations from panelists on best practices, followed by moderated Q&A.
- Proposed agenda:
 - 1. Moderator Introduction (5 min)
 - 2. Specific Topic Presentations (10 min each)
 - Translating civilian best practices into austere, deployed, and mass casualty/humanitarian environments (Jay Yelon)
 - Optimizing resources when resources are scarce (Alison Wilson)
 - Resuscitation practices when blood products are limited/unavailable (Jeremy Cannon)

- Damage control surgery anywhere and anytime (Matt Martin)
- Subspecialty surgical competencies including vascular, neuro, thoracic, and orthopaedic (Dave Kauvar)
- 3. Group Discussion/Q&A (20 min)

Lunch Session: *Cultural Complications: Using M&M to learn, change, improve (Diversity, Equity, Inclusion, Patient Assessment, and Acute Care Surgery Committees)*

Speakers: Lauren Tanner, MD; Andre Campbell, MD; Mitu Agarawal, MD; Paul Maggio, MD; Robert Winchell, MD; Moderators: Marc de Moya, MD; Neil Parry, MD; Jamie Coleman, MD

The session will engage the audience in active participation.

Introduction (10 minutes): The Cultural Complications Curriculum will be introduced (<https://www.culturalcomplications.com/>); this curriculum uses a case-based format to teach 12 diversity, equity, and inclusion themes including but not limited to implicit bias and microaggressions, stereotype threat, and intersectionality. The cases are presented as part of morbidity and mortality (M&M) conference.

How to Get Started (10 minutes): Practical tips on how to start a cultural complications M&M.

Mock Cultural Complications M&M Cases (20 minutes): One trauma and one emergency general surgery (EGS) case will be presented using the cultural complications curriculum format. Audience participation will be encouraged.

Q&A (15 minutes): All speakers and M&M participants will be available for Q&A

Lunch Session: *Beyond hospital survival: improving outcomes after injury (Patient Assessment, Palliative Care Committees)*

Speakers: Ali Salim, MD; Deborah Stein, MD; Benjamin Zarzaur, MD; Moderator: David Livingston, MD

Although trauma systems have improved in-hospital mortality following moderate to severe trauma, many patients suffer long-term disability, increased risk for both repeated injury and long-term mortality compared to the general population. We propose a discussion to educate the audience on the issues as well as identifying potential solutions to improve outcomes.

- Long-term consequences of acute injuries
- Thirty-day mortality doesn't mean survival for adult
- Moderate to Severe Traumatic Brain Injury – A lifelong condition
- How can we improve these outcomes?

Lunch Session: *Disaster medicine opportunities for the interested surgeon: How to get involved and what to expect (Disaster Committee)*

Speakers: Adam Fox, MD; David Shatz, MD; Tarek Razek, MD; Moderator: Randeep Jawa, MD

Surgeons interested in practicing disaster medicine have opportunities to get involved with both national and international disaster response organizations. This includes the National Disaster Medical System (DMAT, TCCT), FEMA (USAR) and non-governmental organizations (NGO's) among others.

The purpose of this session will be to provide an overview of the various opportunities available to the interested surgeon. Practical tips regarding how to get involved, how to prepare and what to expect will be shared.

Lunch Sessions, Thursday, September 30th 1:10-2:25 PM EST

All lunch sessions include lunch with the registration fee

Lunch Session: Staffing a Trauma/Acute Care Surgery Service – What is a full-time employee (FTE) (Acute Care Surgery Committee)

Speakers: Marc de Moya, MD; Patrick Murphy, MD; Sarmila Dissanaik, MD; Nicholas Namias, MD;
Moderator: Patrick Murphy, MD

The idea behind this session is providing guidance on staffing an acute care surgery service (trauma, EGS, SICU) at Level 1-4 trauma centers. There are widely differing opinions regarding the clinical and academic responsibilities as well as the remuneration for a 1.0 FTE. This session will explore the challenges and evidence behind answering the question of how many FTEs are required for a well-functioning ACS service.

Lunch Session: Taking your Research to the Next Level: What can CNTR do for you? (Program Committee)

Speakers: Avery Nathens, MD; Elliot Haut, MD; Bellal Joseph, MD Moderators: Eileen Bulger, MD; Benjamin Zarzaur, MD

This session will provide an overview the Coalition for National Trauma Research with a focus on the resources that have been built to support clinical investigators. These include support for trial design, identification of sites, grant preparation & submission, and study implementation. Dr. Nathens will describe the opportunity to utilize the TQIP data platform to support data collection for clinical trials. Dr. Zarzaur will discuss CNTR's mentorship program for investigators and Drs Joseph and Haut will discuss their experience working with CNTR for grant submission and project execution. Participants will learn about the submission and review process for proposals to CNTR.

Lunch Session: ACS Fellowships: Hot Topics for Program Directors (Acute Care Surgery and Program Directors Committees)

Speakers: Thomas Carver, MD; Eric Toschlog, MD; Nathan Mowery, MD; Tanya Anand, MD; Amy Gore, MD; Nancy Parks; Moderator: Stephanie Savage, MD

This session will focus on the more difficult aspects of running a AAST ACS Fellowship. This will not only provide a forum for shared experiences, problems, and solutions but to explore best practices. This will also provide institutions interested in starting fellowships a venue to have questions answered. (Acute Care Surgery and Program Directors Committees)

Add-on Sessions, Thursday, September 30th 2:30-6:00 PM EST

Heavy appetizers will be available for Add-on Session attendees and speakers from 4:00-4:30 PM EST

Add-on Session: Continuous Certification: Hot Topics, Case Challenges, and Current Literature in Trauma and Emergency General Surgery (Education Committee)

| Times | Topic | Faculty |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 2:30-4:00pm | SESSION 1: EMERGENCY GENERAL SURGERY | |
| | <u>Hot Topics in EGS Talks:</u> (Moderator: Chrissy Guidry) | |
| 2:30-2:45 2:45-3:00 | 1) Choledocholithiasis: The Surgical “One-Stop Shopping” Approach 2) Duodenal Disasters: Repair, Resect, Exclude, or Bail? | Dennis Kim Paula Ferrada |
| 3:00-3:50 | Challenging EGS Cases and Current Management Expert Panel (Moderator: Matthew Martin) | Chrissy Guidry Michael Cripps Paula Ferrada Dennis Kim Morgan Schellenberg |
| 3:50-4:00 | 2021 Favorite Papers: Emergency General Surgery | All panelists |
| 4:00-4:30 | Break and Meet the Faculty | Break |
| 4:30-6:00PM | SESSION 2: TRAUMA | |
| | <u>Hot Topics in Trauma Talks:</u> (Moderator: Stan Kurek) | |
| 4:30-4:45 4:45-5:00 | 1) Direct Peritoneal Lavage: When, Why, and How 2) Always Be Closing! Novel Open Abdomen Management Strategies | Rishi Rattan Leah Tatebe |
| 5:00-5:50 | Challenging Trauma Cases and Current Management Expert Panel (Moderator: Elizabeth Benjamin) | Ryan Dumas Jen Gurney Sharon Henry Rishi Rattan Leah Tatebe |
| 5:50-6:00 | 2021 Favorite Papers: Trauma and Trauma Systems | All panelists |

Add-on Session: Pediatric Trauma Update Course (Pediatric Committee)

This would be the first of a year or bi-yearly pediatric trauma update course for Trauma Surgeons in practice. The primary audience is for surgeons who are moving from a Center where they don’t manage injured children to a facility that does. Additionally, it will update current evidence-based practice to facilitate the management of injured children.

| AAST Pediatric Trauma Update Course | | Length | Speaker | Live/Recorded | Session Moderators |
|-------------------------------------|-------------------------------------------------------|--------|------------------------|---------------|--------------------|
| Time | Topic | | | | |
| 2:30 PM | Welcome and Objectives | 0:05 | David Notrica, MD | Live | |
| 2:35 PM | Shock identification in pediatric patients and causes | 0:15 | Barbara Gaines, MD | Live | Notrica |
| 2:50 PM | Pediatric airway management | 0:15 | Christopher Newton, MD | Live | |

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|---------|--------------------------------------------------------------------|-------------|----------------------|----------|------------------|
| 3:05 PM | Clearing the pediatric c-spine at every age | 0:15 | Aaron Jensen, MD | Live | |
| 3:20 PM | BCVI in pediatric trauma; Memphis, Denver, Utah, or McGovern | 0:15 | Trey Eubanks, MD, | Live | |
| 3:35 PM | Pediatric Brain injury management, infant GCS | 0:15 | R Todd Maxson, MD | Recorded | Chris Newton, MD |
| 3:50 PM | Break 4pm to 4:30pm | 0:30 | | | |
| 4:20 PM | Pediatric Chest Problems: Pneumomediastinum, rib fx, Aortic injury | 0:15 | Jessica Naiditch, MD | Live | |
| 4:35 PM | Abdominal Imaging in Children: Who and How | 0:15 | Mary Edwards, MD | Live | |
| 4:50 PM | Liver/Spleen/Kidney bleeding and thresholds for failure of NOM | 0:15 | David Notrica, MD | Live | |
| 5:05 PM | Simplified management for duodenal injury | 0:15 | Jeremy Johnson, MD | Live | |
| 5:20 PM | The transected pancreas | 0:15 | Bindi Naik, MD | TBD | |
| 5:35 PM | Pediatric laparoscopy in trauma – early and late | 0:15 | Deirdre Wyrick, MD | Live | Mary Fallat, MD |
| 5:50 PM | Non-accidental injury identification & workup | 0:15 | Joseph Murphy, MD | Live | |
| 6:05 PM | Adjourn at 6pm | total hours | | | |

Lunch Sessions, Friday, October 1st 11:45-1:00 PM EST

All lunch sessions include lunch with the registration fee

Lunch Session: *What you need to know about Post-ICU Syndrome (Palliative Care, Critical Care, and Patient Assessment Committees)*

Speakers: Christine Toves, MD; Amy Gore, MD; Red Hoffman, MD; Moderator: Christopher Michetti, MD

Due to increased utilization of the ICU, especially during the pandemic, increasing numbers of patients discharged from the ICU suffer from declines in physical, cognitive and psychiatric function, known as post-ICU syndrome. Both medical literature and lay press have begun to show the debilitating and long-term symptoms that prevent full recovery for a substantial number of patients who have been in the ICU. As ICU care continues to improve survival for select patients, post-ICU syndrome is an increasing concern for patients and families. Trauma surgeons should understand the complexity and prognostic implications of PICS in the injured patient and facilitate setting expectations for patients and families. In this case-based panel we will discuss 1) the epidemiology, pathophysiology and symptom burden of PICS; 2) delivering supportive and palliative care for patients and families; 3) models of outpatient post-discharge care (e.g., PICU clinics).

Lunch Session: *Laparoscopic CBD exploration: When, why, and how to start doing them (Acute Care Surgery Committee and SAGES)*

Speakers: Rachel Morris, MD; Libby Schroeder, MD; Dennis Kim, MD; Moderator: Marc de Moya, MD

This session will focus on the emerging trends in ACS surgeons performing Laparoscopic CBD explorations for biliary stone disease. We will review the evidence, indications, techniques, and how to set up a program.

Lunch Session: Technical Aspects of Challenging Vascular Injuries for Military and Civilian Trauma Surgeons (Military Committee)

Speakers: Joseph Galante, MD; Juan A. Asensio, MD; R. Stephen Smith, MD; David V. Feliciano, MD;
Moderator: Juan Asensio, MD

Vascular injuries have vexed civilian and military surgeons since World War I and II. Beginning with the Surgical Mavericks in Korea that challenged the dictum of ligation; followed by the efforts for the development of defined outcome oriented strategies during the Vietnam conflicts and culminating with the Damage Control Strategies of the Iraq and Afghanistan Conflicts. Despite all the advances; vascular injuries still pose a great operative challenge to all civilian and military surgeons.

Penetrating vascular injuries requiring operative intervention account for approximately 5% of all Trauma patients even in busy urban Trauma Centers. Their low incidence, along with an ever-decreasing number of Trauma surgeons possessing the skills to manage them, pose a difficult didactic challenge to the training of military, civilian trauma and acute care surgeons.

In this session, the presenters will review the current training requirements in vascular injury management for military and civilian trauma surgeons, along with presenting operative techniques and tips and tricks to deal with vessel-specific injuries by experienced trauma surgeons. This session should be highly interactive, encouraging audience participation. Most importantly, it aims to provide clinically useful and relevant technical information and strategies for the management of these injuries for surgeons; whom either infrequently or regularly provide operative care of vascular injuries.

