ACCOMMODATIONS:

**HOTEL ALBUQUERQUE AT OLD TOWN**
800 Rio Grande Boulevard NW, Albuquerque, New Mexico 87104

**Reservations: Call 1-866-505-7829**
Mention group block 19049AMPA to obtain the conference room rate of $149.00 (single or double plus taxes) or use the following link:


Reservations must be made by March 24, 2019.
**CCTMC PROGRAM DESCRIPTION:**

**MONDAY-WEDNESDAY, APRIL 15-17, 2019**

The Critical Care Transport Medicine Conference is designed to address topics pertinent to the out-of-hospital and emergency care of the critically ill and injured patient. Physicians, nurses, paramedics, respiratory therapists and allied healthcare professionals will be provided information that offers them a deeper understanding of the essentials of care required for the complex patient requiring critical care air and ground transport. Lectures will be presented that will help participants develop leadership skills.

**EDUCATIONAL OBJECTIVES:**

At the completion of this conference participants should know or be able to:

- Use state-of-the-art information to enhance and influence their clinical practice in the critical care and ground transport environment, increase their skills, and influence their awareness of the unique environment in which they deliver medical care.
- Discuss the most common complications/medical emergencies seen in cf-LVAD patients and specific management strategies for each; compare and contrast TTE and TEE; and review the love affair with the lactate.
- State the predictive value of ‘difficult airway prediction’ tools; describe current and future tools in shock assessment; and state the current best practice strategies for identifying pulmonary embolism in critically ill patients.
- Apply the hacker mindset to solve common, vexing problems faced in HEMS / CCTM / PHARM jobs; define high reliability; and describe the effects that committing an error will have on you and your career.
- Describe how the brain works in stressful situations; identify the fallacy in reductionism and the simplicity of failure; and recognize team dysfunction in the setting of high reliability organizations.
- Describe and analyze the utility of VL as compared to DL in terms of providing airway management in the field and the supervision thereof; identify situations in which volume resuscitation may be detrimental; and discuss the criteria and challenges of whole blood use in aeromedical transport.
- Discuss the presentation and toxidromes of a patient that has overdosed on Beta and Calcium Channel Blockers; describe how to choose fluid type and amount based on evidence; and identify conditions that do not respond to frontline treatments.
- Recognize and treat most common causes of Pediatric Bradycardia; review the clinical findings associated with TBI in the pediatric patient; discuss Placenta Abruptio and Placenta Previa, and common causes for obstetric DIC.
- Discuss the relevance of anion gap acidosis to transport medicine; define patient populations at high risk for deterioration during intubation; and relate an algorithm to quickly manage hypotensive, hypoxic and acidic patients in the peri-intubation period.
- Highlight the controversies in mechanical circulatory support, including the evolving role of the intra-aortic balloon pump, right-sided MCS devices; and ECMO indications and contraindications.
- Use state-of-the-art information to enhance and influence their clinical practice in the critical care and ground transport environment, increase their skills, and influence their awareness of the unique environment in which they deliver medical care.
- Discuss the presentation and toxidromes of a patient that has overdosed on Beta and Calcium Channel Blockers; describe how to choose fluid type and amount based on evidence; and identify conditions that do not respond to frontline treatments.
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- Highlight the controversies in mechanical circulatory support, including the evolving role of the intra-aortic balloon pump, right-sided MCS devices; and ECMO indications and contraindications.

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**CCTMC SIMULATION PROGRAM DESCRIPTION:**

**BREAKOUT III**

**TUESDAY, APRIL 16, 2019 – 8:15 AM – 4:30 PM**

**Course Directors:** Brendan C. Berry, MD, CMTE, FACEP • Amar P. Patel, DHSc, MS, NRP

**60-MINUTE SESSION**

**Foundations of Simulation in Healthcare**

This session will focus on understanding the foundational principles in simulation. We will discuss why simulation is effective, what educational theories are routinely utilized, and how to make your students successful.

**90-MINUTE SESSION**

**Establishing the Ground Rules: What Briefing, Prebriefing, and Debriefing Really Mean**

This session will focus on the components of a successful simulation experience. Prebriefing, briefing, the simulation experience, and debriefing will be discussed.

**60-MINUTE SESSION**

**Building a Competency-Based Simulation Program**

In this session competency-based assessment and its tools will be discussed, and we will focus on how to build your educational curriculum around competency-based learning.

**90-MINUTE SESSION**

**Simulation and Competition-Based Learning: Is There Such a Thing?**

This session will focus on how to utilize simulation and educational methodologies to create a competition type environment. We will discuss and develop the tools, set the stage, and lay out what is needed to ensure you create a unique, but impactful environment.
CRITICAL CARE PROCEDURAL ANATOMY PROGRAM

SUNDAY, APRIL 14, 2019
7:30 A.M. – 6:00 P.M.
Course Director: Jack B. Davidoff, MD, EMT-P
Limited to 40 participants

PROGRAM DESCRIPTION:
This portion of the Critical Care Transport Medicine Conference is for transport crew members who wish to update and practice critical care techniques that will enhance their ability to provide the best possible care to patients who are most in need. The entirety of the Critical Care Procedural Program will be held at the University of New Mexico. Students will receive state-of-the-art updates on clinical procedures at the side of the cadaver model. Sessions include topics on emergent airway management, surgical airway management, chest tube insertion and management and pericardiocentesis, ventilation assessment and ventilator management, ventilator assist devices, intraosseous vascular access, and tourniquets and control of bleeding.

EDUCATIONAL OBJECTIVES:
At the completion of the Critical Care Procedural Anatomy Program participants should know or be able to:
• Demonstrate understanding and hands-on skills practice for critical care procedures to include central line insertion, chest tube insertion, intraosseous access, ventilator management and surgical airway (cricothyroidotomy).
• List the indications, contraindications, success rates and complications from the use of these devices and techniques used in the emergency treatment of the critically ill and/or injured patient.

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<thead>
<tr>
<th>SCHEDULE</th>
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<tbody>
<tr>
<td>7:30 a.m. On-Site Registration/Continental Breakfast</td>
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<tr>
<td>8:00 – 8:15 a.m. Welcome, Lab Orientation and Program Overview</td>
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<tr>
<td>CRITICAL CARE SKILLS SESSIONS</td>
</tr>
<tr>
<td>8:30 a.m. Students Transfer to the University of New Mexico</td>
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<tr>
<td>12:00 – 1:00 p.m. LUNCH PROVIDED</td>
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<tr>
<td>6:00 p.m. Program is Completed and Students are Transferred Back to the Hotel Albuquerque</td>
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SCIENTIFIC FORUM – POSTER REVIEW

MONDAY, APRIL 15, 2019
9:00 A.M. – 12:00 P.M.
Coordinator: Lauri Bolton, MD

CRITICAL CARE TRANSPORT MEDICINE CONFERENCE ULTRASOUND WORKSHOP

MONDAY, APRIL 15, 2019
8:00 AM – 12:30 PM
Course Director: Craig Bates, MD, MS, FACEP

PROGRAM DESCRIPTION:
This 4-hour ultrasound course focuses primarily on the use of point-of-care ultrasound in the critically ill patient. Using a step-by-step approach, learners will be taught a shock protocol that will allow them to quickly diagnose a wide variety of pathologic conditions. The lecture portion discusses essential physics and knobology and the use of ultrasound to evaluate the critically ill patient at the bedside, and is followed by a hands-on practice session.

EDUCATIONAL OBJECTIVES:
At the completion of the Critical Care Transport Medicine Conference Ultrasound Workshop participants should know or be able to:
• Demonstrate proper machine settings/image acquisition.
• Describe sonographic findings of the hemopericardium, hemoperitoneum, hemothoraces, pneumothoraces, and right heart strain, pericardial tamponade and acute valvular insufficiency.
• Describe sonographic findings of catastrophic intra-abdominal conditions (pneumoperitoneum, pneumatosis, pneumobilia, emphysematous infection).
• Demonstrate an eFAST examination.
• Describe sonographic findings of abdominal aortic aneurysms, as well as proximal lower extremity DVT.
• Demonstrate catastrophic abdominal scanning protocol, and 2-point lower extremity compression examination.

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<tbody>
<tr>
<td>8:00 – 8:55 a.m. Practical Scanning Lecture (Physics/Knobology) Craig Bates, MD, MS, FACEP</td>
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<tr>
<td>9:00 – 10:00 a.m. eFAST Examination Lecture Craig Bates, MD, MS, FACEP</td>
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<tr>
<td>10:00 – 10:15 p.m. BREAK</td>
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<tr>
<td>10:15 a.m. – 12:00 p.m. Hands-on Scanning</td>
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### Monday, April 15, 2019

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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</table>
| Noon – 1:00 p.m. | CCTMC Conference On-Site Registration  
|               | East Atrium Foyer                                                   |
| 1:00 – 1:50 p.m. | Opening General Session: Alvarado E,F,G,H  
|               | Old Unreliable                                                       |
|               |  
| 1:50 – 2:10 p.m. | **BREAKOUT SESSIONS**                                               |

#### Hemodynamic Optimization: Current Controversies and Future Possibilities
- *Fredrik Granholm, MD*
  - The View From the Handle and the View from the Download: The Utility of Video-laryngoscopy in Pre-hospital Care
  - Gary McCalla, MD, MBA
  - Phillip Grieve, BSc, FP-C

#### Lung Rescue
- *Darren Braude, MD, Paramedic*
  - Pain and Prejudice: Pain Management During Transport
  - Renee Semonin Holleran, FNP-BC, PhD, CEN, FAEN (Retired CCRN, CCRN, CTRN)

#### Prehospital Damage Control
- *Charles W Sheppard, MD*
  - Prehospital Traumatic Brain Injury: Is it NAT?  
  - Assessment and Treatment Even When the History Denies Trauma
  - Tina Johnson, MSN, RN

#### Whole Blood: A LifeFlight Experience
- *Matthew Poremba, DO*
  - Mechanical Ventilation, Recruitment and Minute Ventilation: A Pig Lung Perspective
  - Jason Halsey, AAS-RT

#### Critical Care Literature Review 2019
- *Michael A. Jasumback, MD, FACEP*
  - VAD MAX: Beyond Milirone
  - Brendan Riordan, PA-C

### Tuesday, April 16, 2019

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<tr>
<th>Time</th>
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<tr>
<td>7:30 – 8:00 a.m.</td>
<td>On-Site Registration/Continental Breakfast</td>
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<tr>
<td>8:00 – 8:15 a.m.</td>
<td>Welcome &amp; Award Presentations</td>
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</table>
| 8:15 – 9:00 a.m. | General Session: Alvarado E,F,G,H  
|               | Emergency Reflex Actions Drill                                        |
|               | Michael Lauria, MD, NRP, FP-C                                        |

#### BREAKOUT SESSIONS

<table>
<thead>
<tr>
<th>Breakout I: Alvarado E,F,G,H</th>
<th>Breakout II: Alvarado D</th>
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</table>
| Quality Assurance Metrics: Are We Looking in the Right Place?  
| Darren Braude, MD, Paramedic |

#### Breakout II: Alvarado D
- *Michael A. Jasumback, MD, FACEP*
  - State of the Art: Volume Resuscitation
  - Charles F. Swearingen, BS, Paramedic

#### Breakout III: Alvarado A,B,C
- *Simulation Program: Building a Competency-Based Simulation Program*
  - When it’s not DKA: Exploring HHNK
  - Jason Bazelow, FP-C, CCEMT-P

#### Laboratory Data: From Boring to Insightful
- *Darren Braude, MD, Paramedic*
  - Tips and Tricks for Your Next ECMO Transport
  - Leon Eydelman, MD

#### Updates in Transport of Patients with Cardiogenic Shock
- *Susan R. Wilcox, MD, FACEP, FCCM*
  - How Can Anyone Bleed That Much and Not DIE? Third Trimester Bleeding
  - Teri Campbell, RN, BSN, CEN, CCRN, PHRN

#### Approach to Refractory Hypoxemia in the Transport Environment
- *Matthew A. Roginski, MD, MPH*
  - An Atypical RVAD Transport
  - Douglas R. Dixon, MD, FACEP

#### The Great Masquerader
- *Michael A. Frakes, MS, APRN, CCNS, CCRN, CTRN, EMTP, CMTE, FACHE*
  - The Illusion of Competency: How Simplicity Fails Us
  - Fred Jeffries, FP-C, C-NPT, MTSP-C

#### Valve Arrested – Now What? Evidence-based Resuscitation in 2019
- *Jacob A. Miller, MS, FNP, ACNP, CNS, CCRN, CCRN, EMT-P, FP-C*
  - Simulation Program: Building a Competency-Based Simulation Program

CRITICAL CARE TRANSPORT MEDICINE CONFERENCE

Wednesday, April 17, 2019

8:00 – 8:30 a.m.  Registration/Continental Breakfast

**BREAKOUT SESSIONS**

8:30 – 9:00 a.m.

Breakout I: Alvarado E,F,G,H
- Operationalize Resuscitation Before Intubation
  Matthew A. Roginski, MD, MPH

Breakout II: Alvarado D
- All the Little Things
  Michael A. Jasmund, MD, FACEP

9:00 – 9:30 a.m.

- Massive Upper GI Hemorrhage: Damage Channel Blocker Overdose Case Study
  Johanna R. Thompson, Paramedic, CCETM-P, FP-C

9:30 – 10:00 a.m.

- A Year with Sydney HEMS: Lessons Learned
  Justin McLean, MD

- Beta Blocker and Calcium
  Channel Blocker Overdose Case Study
  Johanna R. Thompson, Paramedic, CCETM-P, FP-C

10:00 – 10:15 a.m. BREAK

10:15 – 10:45 a.m.

Ultrasound: A Flashlight in the Darkness of Shock
- Nikolai Schnittke, MD, PhD

- Kicking the Ass of Metabolic Acidosis
  Daniel Rauh, MS, ACNP, EMT-P

10:45 – 11:15 a.m.

- S&*#T – I Know That Just Ain’t So!
  Charles W. Sheppard, MD

- The Thinker’s Guide to Airway Management
  Michael A. Frakes, MS, APRN, CCNS, CFRN, CNTP, EMTP, CMTE, FACHE

11:15 a.m. – 12:00 p.m.

Closing General Session: Retreating Stall – Aviation/Clinical Team Collapse
- Robin House, RN, CEN, CFRN, NRP

- Shane Turner, FP-C, NRP

**2019 CCTMC ADJOURNED!**

2020 CCTMC

APRIL 20-23, 2020
THE HOTEL ALBUQUERQUE
ALBUQUERQUE, NEW MEXICO

**ADDITIONAL ACTIVITIES:**

**18TH ANNUAL SCIENTIFIC FORUM:**

Sponsored by AMPA, ASTNA and IAFCCP. Posters will be presented and reviewed on April 15th. An Outstanding Research Award will be given prior to the opening General Session on April 16th. Our goal is to nurture and provide an appropriate forum for research in air and ground medical transport.

**TIM HYNES FOUNDATION SEVENTH ANNUAL SILENT AUCTION:**

Plan now to donate silent auction items to help raise awareness and funds to support the scholarships and activities of the THF. Contact m.newman@flightparamedic.org for details.

**THE PITTMAN COURSE FLIGHT & CRITICAL CARE PARAMEDIC REVIEW**

Friday & Saturday, April 12 & 13
This IAFCCP-sponsored review course, developed by the late Corey Pittman, is designed to prepare students for the FP-C® and CCP-C® examinations and as a review for FP-C®/CCP-C® certification holders. Our engaging, dynamic instructors have extensive critical care transport experience and currently hold one or more IBSC certifications. Register Online at www.IAFCCP.org (Member discounts apply)

**IBSC EXAM ADMINISTRATION:**

Sunday, April 14
8:00 to 10:30 a.m.
Register online at http://www.IBSCertifications.org

**7TH ANNUAL RUNNING WITH AN ANGEL 5K:**

Monday, April 15
Registration: 8:30 a.m.
Run: 9:00 a.m.
A run/walk to honor our fallen colleagues and support their loved ones! Contact www.ASTNA.org 303-344-0457 or astna@astna.org. Proceeds will go to the ASTNA Bereavement Fund to assist the families of fallen crew members.

**2019 CCTMC CONFERENCE REGISTRATION**

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**2019 CCTMC Conference Registration**

- MUST Pre-Register
- Pre-registration: Payment Received Prior to March 20, 2019
  - $325.00 Member
  - $395.00 Non-Member

- Payment Received After March 20, 2019
  - $349.00 Member
  - $449.00 Non-Member

**Critical Care Transport Medicine Conference Pre-registration:**

- Payment Received Prior to March 20, 2019
  - $299.00 Member
  - $399.00 Non-Member

**Critical Care Procedural Anatomy Program**

- Limited to 40 participants
- Additional Registration Fee MUST Pre-Register
  - $325.00 Member
  - $395.00 Non-Member

**Ultrasound Workshop**

- Limited to 40 participants
- Additional Registration Fee MUST Pre-Register
  - $250.00 Member
  - $325.00 Non-Member

**Total Enclosed**

To register by phone with a credit card, call Patricia Petersen at 801-263-2672, or fax registration form to 801-534-0434.

Partial registration refund to March 20, 2019; NO refunds after March 20, 2019.

Make check payable in US Funds to the Air Medical Physician Association and mail to CCTMC, 951 East Montana Vista Lane, Salt Lake City, UT 84124. (AMPA Federal Tax ID #87-0510123)

Or charge to VISA or MasterCard only.
ACCRREDITATION:

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 provision of the Center for Emergency Medical Education and the Air Medical Physician Association. The Center for Emergency Medical Education is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Center for Emergency Medical Education designates this live activity for a maximum of 26.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

8.25 AMA PRA Category 1 Credits™
for the Anatomy Program

3.75 AMA PRA Category 1 Credits™
for the Ultrasound Workshop

14.75 AMA PRA Category 1 Credits™
for CCTMC

CE Credits for Nurses and Paramedics have been applied for through the Air & Surface Nurses Association.

CONFERENCE PLANNING COMMITTEE:

Brendan C. Berry, MD, CMTE, FACEP
Lauri Bolton, MD
Tina Johnson, MSN, RN
Stacy Prater, EMT-P, CCEMT-P, FP-C
Sharon Purdom, RN, BSN, CEN, CFRN
Ryan Walter, FP-C

CONFERENCE COORDINATOR:

Patricia Petersen