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.

2019 CRITICAL CARE TRANSPORT MEDICINE CONFERENCE

Jointly Sponsored by
The Air Medical Physician Association and Center for Emergency Medical Education

Presented by
Air Medical Physician Association (AMPA)
Air & Surface Transport Nurses Association (ASTNA)
International Association of Flight & Critical Care Paramedics (IAFCCP)
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 air 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 toxicidromes 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.

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.

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
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.

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.

**SCHEDULE**

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

**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, pneumatisos, pneumobilia, emphysematous infection).

• Demonstrate an eFAST examination.

• Demonstrate catastrophic abdominal scanning protocol, and 2-point lower extremity compression examination.

**SCHEDULE**

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<tbody>
<tr>
<td>8:00 – 8:55 a.m.</td>
<td>Practical Scanning Lecture (Physics/Knobology)</td>
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<tr>
<td>Craig Bates, MD, MS, FACEP</td>
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<tr>
<td>9:00 – 10:00 a.m.</td>
<td>eFAST Examination Lecture</td>
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<tr>
<td>Craig Bates, MD, MS, FACEP</td>
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<tr>
<td>10:00 – 10:15 p.m.</td>
<td>BREAK</td>
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<tr>
<td>10:15 a.m. – 12:00 p.m.</td>
<td>Hands-on Scanning</td>
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<tr>
<td>Time</td>
<td>Event</td>
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<tr>
<td>Noon – 1:00 p.m.</td>
<td>CCTMC Conference On-Site Registration East Atrium Foyer</td>
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<tr>
<td>1:00 – 1:50 p.m.</td>
<td>Opening General Session: Alvarado E,F,G,H</td>
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<tr>
<td></td>
<td>Old Unreliable</td>
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<tr>
<td></td>
<td>Michael A. Frakes, MS, APRN, CCNS, CFRN, CNTF, EMTP, CMTE, FACHE</td>
</tr>
<tr>
<td>1:50 – 2:10 p.m.</td>
<td>BREAKOUT SESSIONS</td>
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<tr>
<td>1:50 – 2:10 p.m.</td>
<td>Breakout I: Alvarado E,F,G,H</td>
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<td>Breakout II: Alvarado D</td>
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<tr>
<td>2:10 – 2:40 p.m.</td>
<td>Prehospital Damage Control</td>
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<td>Charles W. Sheppard, MD</td>
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<tr>
<td>2:40 – 3:00 p.m.</td>
<td>Mechanical Ventilation, Recruitment and Minute Ventilation: A Pig Lung</td>
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<td>Perspective</td>
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<td>Jason Halsey, AAS-RT</td>
</tr>
<tr>
<td>3:00 – 3:30 p.m.</td>
<td>LABORATORY DATA: FROM BORING TO INSIGHTFUL</td>
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<tr>
<td>4:00 – 4:30 p.m.</td>
<td>CRITICAL CARE TRANSPORT MEDICINE CONFERENCE</td>
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<tr>
<td></td>
<td>Monday, April 15, 2019</td>
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<td>Breakout II: Alvarado D</td>
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<tr>
<td>2:10 – 2:40 p.m.</td>
<td>Breakout III: Alvarado A,B,C</td>
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<tr>
<td>2:40 – 3:00 p.m.</td>
<td>Pediatric Mechanical Ventilation Simplified: It Doesn’t Have to be</td>
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<td></td>
<td>Scary</td>
</tr>
<tr>
<td>3:00 – 3:30 p.m.</td>
<td>How Can Anyone Bleed That Much and Not DIE? Third Trimester Bleeding</td>
</tr>
<tr>
<td>3:30 – 4:00 p.m.</td>
<td>Updates in Transport of Patients with Cardiogenic Shock</td>
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<tr>
<td>4:00 – 4:30 p.m.</td>
<td>Approach to Refractory Hypoxemia in the Transport Environment</td>
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<td>The Great Masquerader</td>
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<td></td>
<td>Valvular Badness: Valve Disorders in Critical Care Transport</td>
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<tr>
<td></td>
<td>The Patient Arrested – Now What? Evidence-based Resuscitation 2019</td>
</tr>
</tbody>
</table>

**Breakout I: Alvarado E,F,G,H**
- Hemodynamic Optimization: Current Controversies and Future Possibilities
  - Fredrik Granholm, MD

**Breakout II: Alvarado D**
- The View From the Handle and the View from the Download: The Utility of Video-laryngoscopy in Pre-hospital Care
  - Gary McCulla, MD, MBA
  - Philip Grieve, BSc, FP-C

**Breakout III: Alvarado A,B,C**
- Quality Assurance Metrics: Are We Looking in the Right Place?
  - Darren Braude, MD, Paramedic

**Simulation Program: Foundations of Simulation in Healthcare**
- Case Studies in Pediatric Bradycardia
  - Crystal MacDonald, RN, CCRN, CFRN, CTRN
  - Jacob Nizam Qutab, BS, RN, NRP, CCRN, CTRN

**Simulation Program: Establishing the Ground Rules**
- Pedictric Mechanical Ventilation
  - Michael A. Jasumback, MD, FACEP

**Simulation Program: Building a Competency-Based Simulation Program**
- State of the Art: Volume Resuscitation
  - Charles F. Swearingen, BS, Paramedic

**Simulation Program: Simulation and Competition-Based Learning**
- Death by Induction
  - Michael A. Frakes, MS, APRN, CCNS, CFRN, CNTF, EMTP, CMTE, FACHE

**Simulation Program: Simulation and Competition-Based Learning**
- When it’s not DKA: Exploring HHNK
  - Jason Bazelow, FP-C, C-CMT, C-P

**Simulation Program: Simulation and Competition-Based Learning**
- ANNE1! Are You OK?
  - The Science Behind The Resuscitation
    - Teri Campbell, RN, BSN, CEN, CFRN, PHRN

**Simulation Program: Simulation and Competition-Based Learning**
- ANNE1! Are You OK?
  - Simulation Program: Establishing the Ground Rules
  - The Science Behind The Resuscitation
    - Teri Campbell, RN, BSN, CEN, CFRN, PHRN

**Simulation Program: Building a Competency-Based Simulation Program**
- Advances in Continuous Flow Ventricular Assist Devices: The Heartmate III
  - Allen C. Wolfe, Jr., MSN, CNS, APRN, CFRN, CCRN, CTTRN, CMTE

**Simulation Program: Establishing the Ground Rules**
- Updates in Transport of Patients with Cardiogenic Shock
  - Susan R. Wilcox, MD, FACEP, FCM

**Simulation Program: Establishing the Ground Rules**
- The Great Masquerader
  - Michael A. Frakes, MS, APRN, CCNS, CFRN, CNTF, EMTP, CMTE, FACHE

**Simulation Program: Simulation and Competition-Based Learning**
- The Illusion of Competency: How Simplicity Fails Us
  - Fred Jeffries, FP-C, C-NPT, MTSP-C

**Simulation Program: Simulation and Competition-Based Learning**
- Valvular Badness: Valve Disorders in Critical Care Transport
  - Vahe Ender, NRP, FP-C

**Simulation Program: Simulation and Competition-Based Learning**
  - Jacob A. Miller, MS, FNP, ACNP, CNS, CCRN, CFRN, EMT-P, FP-C
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  Breakout II: Alvarado D
Operationalize Resuscitation Before Intubation  All the Little Things
Matthew A. Roginski, MD, MPH  Michael A. Jasumback, MD, FACEP

9:00 – 9:30 a.m.
Resuscitative TEE  Massive Upper GI Hemorrhage: Damage Control Management in the Transport Setting
Darren Braude, MD, Paramedic  Robert Whitford, MD

9:30 – 10:00 a.m.
A Year with Sydney HEMS: Lessons Learned  Beta Blocker and Calcium Channel Blocker Overdose Case Study
Justin McLean, MD  Johanna R. Thompson, Paramedic, CCEMT-P, FP-C

10:00 – 10:15 a.m. BREAK

10:15 – 10:45 a.m.
Ultrasound: A Flashlight in the Darkness of Shock  Kicking the Ass of Metabolic Acidosis
Nikolai Schnittke, MD, PhD  Daniel Rauh, MS, ACNP, EMT-P

10:45 – 11:15 a.m.
SA*WT – I Know That Just Ain’t So!  The Thinker’s Guide to Airway Management
Charles W. Sheppard, MD  Michael A. Frakes, MS, APRN, CCNS, CRN, 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, CRFN, NRP  Shane Turner, FP-C, NRP

2019 CCTMC ADJOURNED!

2020 CCTMC
April 20-23, 2020
The Hotel Albuquerque
Albuquerque, New Mexico

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 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

Name: ____________________________________________________

Transport Program: _________________________________________

Title/position: _____________________________________________

Home address: _____________________________________________

City, State, Zip _____________________________________________

Home Phone: _____________________ Work Phone: ________________

E-Mail: ____________________________________________________

Member: q AMPA  q ASTNA  q IAFCCP

Critical Care Transport Medicine Conference
Pre-registration: Payment Received Prior to March 20, 2019
$q299.00  Member  $399.00  Non-Member

Payment Received After March 20, 2019
$q349.00  Member  $449.00  Non-Member

Critical Care Procedural Anatomy Program
(Limited to 40 participants)
Additional Registration Fee MUST Pre-Register
$q325.00  Member  $395.00  Non-Member

Ultrasound Workshop (Limited to 40 participants)
Additional Registration Fee MUST Pre-Register
$q250.00  Member  $325.00  Non-Member

Total Enclosed

Member: q AMPA  q ASTNA  q IAFCCP

Additional Registration Fee

(q) Must be received by 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

q VISA  q MasterCard

Card Number:______________________________________________

Expiration Date: ___________________________________________

Signature: __________________________________________________

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

Partial registration refund to March 20, 2019;
No refunds after March 20, 2019.
ACCREDITATION:

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 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, CCRN
Ryan Walter, FP-C

CONFERENCE COORDINATOR:

Patricia Petersen

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