

2011
CTMC
 CRITICAL CARE TRANSPORT
 MEDICINE CONFERENCE

APRIL 4-6, 2011
 APRIL 3, 2011
 CRITICAL CARE PROCEDURAL
 ANATOMY PROGRAM

Loews Vanderbilt Hotel
 NASHVILLE, TENNESSEE

Conference Planning Committee:

Michael W. Brunko, MD, FACEP
 Sandra Correia, RN, BSN, CFRN, CCRN, CMTE
 Michael A. Frakes, APRN, MS, CCNS, CFRN, CCRN, EMT-P
 Cliff Larrabee, FP-C
 P.S. Martin, MD, FACEP
 Mike Shown, BS, LP, FP-C
 Toby Witt, FP-C

Conference Coordinator: Patricia Petersen



Air Medical
 Physician Association
 951 E. Montana Vista Lane
 Salt Lake City, UT 84124

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2011



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Jointly Sponsored
 by St. Anthony
 Hospital and Air
 Medical Physician
 Association

Presented by Air Medical Physician Association (AMPA)
 Air & Surface Transport Nurses Association (ASTNA)
 International Association of Flight Paramedics (IAFP)



The *Critical Care Transport Medicine Conference* is designed to address topics pertinent to the prehospital 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 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.
- Describe ten important airway management studies that patients need transport teams to know, recognize when minor surgery becomes a major emergency, and describe prehospital considerations in chest trauma.
- Learn how to measure quality of care, manage conflict resolution in the work place, assess the safety of 24 hours shifts, outline the anatomy of an airway lawsuit, and describe the dangers of farming.
- Apply discussion and case presentation to management of the OB patient during transport, management of pediatric head injuries and congenital heart defects, heat emergencies, and assessment and treatment of the critical burn patient.
- Identify and understand malignant hyperthermia, acute lung injury and ARDS, advanced airway algorithms, and methods and materials for establishing hemostasis in the field.
- Evaluate severe pain and apply appropriate management options, describe winning customer service concepts in healthcare, and discover from Abraham Lincoln how to connect yesterday's lessons to today's transport environment problems.
- Discuss cuffed pediatric tracheal tubes, challenges of big hearts and big bellies, administration of high flow oxygen, and toxins, tablets and drugs.

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 program offers state-of-the-art updates on clinical procedures. The didactic sessions include topics on emergent airway management, surgical airway management, chest tube insertion and management and pericardiocentesis, ventilation assessment and ventilator management, intraosseous vascular access, and tourniquets and control of bleeding. A Procedure Lab at the Vanderbilt University Health Science Center will be provided for participants to practice the techniques they have discussed during the lecture session.

Continuing Education Credits For Both Programs:

Nurses/EMT-P: CECH education credits will be provided by the Air & Surface Transport Nurses Association (ASTNA) for both programs.

Accreditation: Physicians

St. Anthony Hospital is accredited by the Colorado Medical Society to provide continuing medical education to physicians.

St. Anthony Hospitals designates the CCTMC educational activity for a maximum of 12 *AMA PRA Category 1 Credits*[™].

St. Anthony Hospitals designates the Critical Care Procedural Anatomy Program for a maximum of 8 *AMA PRA Category 1 Credits*[™].

Physicians should only claim credit commensurate with the extent of their participation in the activity.

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 Sponsorship of St. Anthony Central Hospital and Air Medical Physician Association.

Educational Objectives:

At the completion of the Critical Care Procedural Anatomy Program participants will 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.

SCIENTIFIC FORUM

Tenth Annual Scientific Forum is sponsored by AMPA, ASTNA and IAFP. Posters will be presented and reviewed on April 4th and an Outstanding Research Award will be given prior to the opening General Session on April 5. Our goal is to nurture and provide an appropriate forum for research in air and ground medical transport. See association websites for details, or contact Reed Brozen, MD at Reed.brozen@dartmouth.edu



LIMITED TO 40

7:30 A.M.
**On-Site Registration/
 Continental Breakfast**

8:00 – 8:15 A.M.
**Welcome, Lab Orientation
 and Program Overview**
 William Hinckley, MD, FACEP

8:15 – 9:00 A.M.
Airway Adjuncts
 Christopher Zammit, MD

9:00 – 9:30 A.M.
Surgical Airway Management
 William Hinckley, MD, FACEP

9:30 – 10:00 A.M.
**Insertion and Maintenance of
 Chest Tubes, Pleural Pigtail
 Catheters, and
 Pericardiocentesis**
 Michael T. Bigham, MD, FAAP

10:00 – 10:30 A.M.
**Ventilation Assessment &
 Ventilator Management**
 Lauri Bolton, MD

10:30 – 10:45 A.M. **BREAK**

10:45 – 11:15 A.M.
**Transport Considerations
 for Patients with Ventricular
 Assist Devices**
 P.S. Martin, MD, FACEP

11:15 – 11:45 A.M.
Intraosseous Vascular Access
 Michael Abernethy, MD, FAAEM

11:45 A.M. – 12:15 P.M.
**Tourniquets and Control
 of Bleeding**
 Harinder S. Dhindsa, MD, MPH, MBA

12:15 – 12:45 P.M.
Procedure Lab Orientation
 Greg Wamack, RN, BSN, CFRN, EMT-IV

12:45 - 1:45 P.M.
LUNCH ON OWN

2:00 P.M.
**Bus to Vanderbilt Health
 Science Center**

2:15 – 6:00 P.M.
**Procedure Lab: Vanderbilt
 University Health Science Center**
 Coordinator: Greg Wamack, RN, BSN,
 CFRN, EMT-IV
 Skills Day Faculty/Vanderbilt Life
 Flight Staff



NOON - 1:00 P.M.
**CCTMC Conference Registration
 SCIENTIFIC FORUM
 Poster Preview**

OPENING GENERAL SESSION:
 1:00 - 1:50 P.M.
**Airway Management in Critical
 Care Transport: Top Ten Studies
 Since 2008 That Your Patients
 Need You to Know**
 William Hinckley, MD, FACEP, CMTE

BREAKOUT SESSIONS:
 2:00 - 2:50 P.M.
BREAKOUT I
**Severe Pain + 2 mg of morphine
 = Severe Pain – Emergent
 Analgesia: Treating Our
 Patients, Not Ourselves**
 Michael Abernethy, MD, FAAEM

BREAKOUT II
**Is High Flow Oxygen Killing
 Our Patients?**
 Rick Erickson, NREMT-P, EMS-I,
 CCP-C, FP-C

2:50 – 3:30 P.M. **BREAK**
**Scientific Forum
 Informal Poster Presentations**
 Coordinator: Reed Brozen, MD,
 FACEP, FAAEM

3:30 – 4:20 P.M.
BREAKOUT I
**Pre-Hospital Considerations
 in Chest Trauma: A Trauma
 Surgeon's Perspective**
 J. Bracken Burns, Jr., DO

BREAKOUT II
**The Anatomy of an
 Airway Lawsuit**
 Eric Beck DO, EMT-P, CCEMT-P

4:30 – 5:20 P.M.
BREAKOUT I
**When Minor Surgery Becomes
 a Major Emergency!**
 Susan Thibeault, MS, APRN/CFNA, EMT-P

BREAKOUT II
**AAA – Advanced Airway
 Algorithms**
 Keith H. Carter, BS, MS4, NREMT-P,
 CCREMT-P, LP, FP-C



TUESDAY, APRIL 5

7:30 – 8:00 A.M.
Registration/Continental Breakfast

8:00 – 8:15 A.M.
Welcome & Award Presentations

GENERAL SESSION:

8:15 – 9:05 A.M.
System Performance: Measuring Quality Care
Russell D. MacDonald, MD, MPH, FRCPC

BREAKOUT SESSIONS:

9:10 - 10:00 A.M.
BREAKOUT I
Too Hot to Handle... Malignant Hyperthermia
Susan Thibeault, MS, APRN/CFNA, EMT-P

BREAKOUT II
Achy Breaky Heart-Pediatric Congenital Heart Defects in the Transport Environment
Kelly Holdren, RN, BSN, CFRN
Teri Campbell, RN, BSN, CFRN

10:00 – 10:30 A.M. **BREAK**

10:30 TO 11:20 A.M.
BREAKOUT I
Toxins, Tablets, and Drugs, Oh My!
Michael D. Gooch, RN, MSN, ACNP-BC, FNP-BC, CFRN, CEN, NREMT-P

BREAKOUT II
Gizmo's, Gadgets, and Thing-a-ma-bobs: What Really Secures the Pediatric ETT?
Leslie Grant, RN, BSN, CCRN, CFRN
Matt Payne, RN, EMT-P, FP-C, CFRN

11:30 A.M. TO 12:20 P.M.
BREAKOUT I
Acute Lung Injury and ARDS: Challenges in Patient Transport
Russell D. MacDonald, MD, MPH, FRCPC

BREAKOUT II
Big Hearts and Big Bellies Don't Mix
Lindsey Little, RN, BSN

12:20 TO 1:40 P.M.
LUNCH ON OWN

BREAKOUT SESSIONS:
1:40 – 2:30 P.M.
BREAKOUT I:
Don't Put Me with Him! A Look at Conflict Resolution in the Workplace
Mike Clumpner, PhD(c), MBA, CHS, NREMT-P, CCEMT-P, PNCCT, EMT-T, FP-C
Jim Mobley, RN, BSN, CEN, CFRN, NREMT-P, FP-C, CMTE

BREAKOUT II:
In Vogue... Cuffed Pediatric Tracheal Tubes. Don't be Seen Without One!
Susan Thibeault, MS, APRN/CFNA, EMT-P

2:40 – 3:30 P.M.
BREAKOUT I:
How Safe are 24hr Shifts?
Michael D. Gooch, RN, MSN, ACNP-BC, FNP-BC, CFRN, CEN, NREMT-P

BREAKOUT II:
Managing Little Ones Under High Pressure: Pediatric Head Injuries
Christina A. Martinka, NREMT-P, CCEMT-P, PNCCT
Amy Cantwell, BS, FP-C, NREMT-P

3:30 – 4:00 P.M. **BREAK**

4:00 – 4:50 P.M.
BREAKOUT I:
We Can Learn A Lot From Abraham Lincoln
Janie Ford, RN, MSN, CFRN

BREAKOUT II:
Response to the Critical Burn Patient: Is Your Assessment and Treatment Optimal?
Mike Clumpner, PhD(c), MBA, CHS, NREMT-P, CCEMT-P, PNCCT, EMT-T, FP-C
Jim Mobley, RN, BSN, CEN, CFRN, NREMT-P, FP-C, CMTE



ADDITIONAL ACTIVITIES:

TraCER - Transport Certification Exam Review Course
Friday, April 1 and Saturday, April 2, 2011
Guiding you to success on your transport certification exam, this fast-paced two-day course helps to prepare clinicians for the critical care transport certification exams: CCP-C®, CFRN®, CTRN®, and FP-C®. Register Online at www.astna.org or www.flightparamedic.org. (Member discounts apply)

TNATC Advanced Provider Course:
Saturday, April 2, 2011
To register contact the ASTNA Office at 800-897-6362, or visit www.astna.org for a registration form

FP-C® / CCP-C® Exams:
Sunday, April 3, 2011
8:00 to 10:30 a.m.
Register online at www.BCCTPC.org

CEN®, CFRN®, and CTRN® Exams:
Sunday, April 3, 2011 • 9:00 a.m.
To register contact BCEN Office, 1-800-900-9659, Ext. 2630



8:00 – 8:30 A.M.

Registration/Continental Breakfast

BREAKOUT SESSIONS:

8:30 – 9:20 A.M.

BREAKOUT I:

**ABCs of ABGs, CBCs, and CMPs:
Mining Alphabet Soup for
Clinical Gold**

Sean G. Smith, RN, EMT-P, CCRN, CSC,
CMC, CEN, CFRN, BS

BREAKOUT II:

**It's Not Your Mother's
Mother-To-Be**

Michael A. Frakes, APRN, MS, CCNS,
CFRN, CCRN, EMT-P

9:25-10:15 A.M.

BREAKOUT I:

**Out of the Fire and Into the Frying
Pan: Managing Heat Emergencies**

Christina A. Martinka, NREMT-P,
CCEMT-P, PNCCT
Amy Cantwell, BS, FP-C, NREMT

BREAKOUT II:

The Dangers of Farming

Chris Hartsfield, BA, MSN, FNP

10:15-10:30 A.M. **BREAK**

10:30-11:20 A.M.

BREAKOUT I:

**Stop the Bleeding! Timeless
and Cutting Edge Methods
and Materials for Establishing
Hemostasis in the Field**

Christopher Zammit, MD

BREAKOUT II:

**What Caliber Was That?
The Ballistic Wound**

Marsha Roberts, RN, MSN, CNS

CLOSING GENERAL SESSION:

11:25 A.M. - 12:15 P.M.

**Thanks, and Hurry Back!
A Look at Customer Service
Concepts in Healthcare**

Mike Clumpner, PhD(c), MBA,
CHS, NREMT-P, CCEMT-P, PNCCT,
EMT-T, FP-C
Jim Mobley, RN, BSN, CEN, CFRN,
NREMT-P, FP-C, CMTE

CCTMC Adjourned!

Michael Abernethy, MD, FAAEM

Chief Flight Physician, University of
Wisconsin MedFlight • Madison, WI
Board of Trustees Member, AMPA

Eric Beck, DO, EMT-P, CCEMT-P

Flight Physician, University of Chicago
Aeromedical Network (UCAN)
Emergency Medicine PGY-3/EM-2
University of Chicago Hospitals and
Clinics, Illinois

Michael T. Bigham, MD, FAAP

Medical Director, Pediatric Transport
Akron Children's Hospital • Akron, OH
Board of Trustees Member, AMPA

Lauri Bolton, MD

LIFE STAR – Hartford Hospital
Hartford, CT
Board of Trustees Member, AMPA

Reed Brozen, MD, FACEP, FAAEM

Medical Director, Dartmouth-
Hitchcock Advanced Response Team
Lebanon, NH

Michael W. Brunko, MD, FACEP

Chief Medical Officer, Flight for Life
Colorado • Denver, CO
CME Faculty Representative, AMPA

J. Bracken Burns, Jr., DO

Medical Director/Flight Physician –
TraumaOne Helicopter EMS
Assistant Professor of Surgery
University of Florida College of
Medicine • Jacksonville, FL

Teri Campbell, RN, BSN, CFRN

Flight Nurse, University of Chicago
Aeromedical Network (UCAN)
Chicago, IL

Amy Cantwell, BS, FP-C, NREMT-P

Clinical Educator, PHI Air Medical
Group - Northeast • Stafford, VA

**Keith H. Carter, BS, MS4, NREMT-P,
CCREMT-P, LP, FP-C**

Flight Paramedic, CareFlite Air Medical
Shreveport, LA

**Mike Clumpner, PhD(c), MBA, CHS,
NREMT-P, CCEMT-P, PNCCT, EMT-P, FP-C**
Flight Paramedic, Regional One Air
Medical; Clinical Faculty, University of
Maryland Baltimore County (UMBC)
Spartanburg, SC

**Sandra Correia, RN, BSN, CFRN, CCRN,
CMTE**

Flight Nurse/Outreach Coordinator
Stanford Life Flight • Stanford, CA
President-Elect, ASTNA

Harinder S. Dhindsa, MD, MPH, MBA

Life Evac of Virginia • Mechanicsville, VA
Board of Trustees Member, AMPA

Rick Erickson, NREMT-P, EMS-I, CCP-C, FP-C

Flight Paramedic, LifeNet Air Medical
Services; Critical Care Coordinator,
Creighton University • Omaha, NE

Janie Ford, RN, MSN, CFRN

Chief Flight Nurse, Clinical Educator,
University of Utah AirMed
Salt Lake City, UT

**Michael A. Frakes, APRN, MS, CCNS,
CFRN, CCRN, EMT-P**

Clinical Nurse Specialist, Boston
MedFlight • Boston, MA
President, ASTNA

**Michael D. Gooch, RN, MSN, ACNP- BC,
FNP-BC, CFRN, CEN, NREMT-P**

Flight Nurse, Vanderbilt LifeFlight
Nashville, TN

Leslie Grant, RN, BSN, CCRN, CFRN

Flight Nurse, Virginia Commonwealth
University (VCU) LifeEvac
Midlothian, VA

Chris Hartsfield, BA, MSN, FNP

Flight Nurse, Vanderbilt Life Flight
Nashville, TN

William Hinckley, MD, FACEP, CMTE

Medical Director and Flight Physician
Air Care & Mobile Care
University Hospital of Cincinnati, OH
President-Elect, AMPA



Continued

Kelly Holdren, RN, BSN, CFRN
Flight Nurse, University of Chicago
Aeromedical Network (UCAN)
Pediatric-Cardiac ICU Nurse, Comer
Children's Hospital at the University of
Chicago Medical Center • Chicago, IL

Cliff Larrabee, FP-C
Oakdale, CA • Vice President, IAFP

Lindsey Little, RN, BSN
OB Chief Flight Nurse, University of Utah
AirMed • Salt Lake City, UT

Russell D. MacDonald, MD, MPH, FRCPC
Medical Director, Research Program,
Ornge Transport Medicine
Associate Professor, Faculty of Medicine,
University of Toronto
Toronto, Ontario, Canada

P.S. Martin, MD, FACEP
Medical Director, Life Flight
Allegheny General Hospital
Pittsburgh, PA • President, AMPA

**Christina A. Martinka, NREMT-P,
CCEMT-P, PNCCT**
Critical Care Flight Paramedic, PHI Air
Medical • Haymarket, VA

**Jim Mobley, RN, BSN, CEN, CFRN,
NREMT-P, FP-C, CMTE**
Program Director/Chief Flight Nurse
Regional One Air Medical
Spartanburg, SC • Board Member, ASTNA

Matt Payne, RN, EMT-P, FP-C, CFRN
Flight Paramedic, Virginia
Commonwealth University (VCU)
LifeEvac • Richmond, VA

Marsha Roberts, RN, MSN, CNS
Flight Nurse, Vanderbilt LifeFlight
Nashville, TN

**Sean G. Smith, RN, EMT-P, CCRN, CSC,
CMC, CEN, CFRN, BS**
Clinical Nurse/AHA, NAEMT Instructor –
Duke Medical • Durham, NC

Mike Shown, BS, LP, FP-C
PI/Clinical Education Coordinator
San Antonio AirLIFE, TX
Board Member, IAFP

Susan Thibeault, MS, APRN/CFNA, EMT-P
Flight Nurse, LIFE STAR
Hartford Hospital • Hartford, CT

Greg Wamack, RN, BSN, CFRN, EMT-IV
Flight Nurse, Vanderbilt LifeFlight
Nashville, TN
Board Member, ASTNA

Toby Witt, FP-C
Air Methods Corporation
Lake City, FL • President, IAFP

Christopher Zammit, MD
Flight Physician, Air Care & Mobile Care
Resident Physician, Department of
Emergency Medicine
University Hospital of Cincinnati, OH

Name _____

RN EMT-P MD RT

Title _____

Transport Program _____

Member: AMPA ASTNA IAFP

Is this your first time attending CCTMC? Yes No

Home Address _____

City _____ State _____ Zip _____

Home Phone _____

Work Phone _____

E-Mail _____

CRITICAL CARE TRANSPORT MEDICINE CONFERENCE

Pre-registration Payment received **Prior to March 13, 2011**

\$245.00 Member \$295.00 Non-Member

Payment received **After March 13, 2010**

\$270.00 Member \$325.00 Non-Member \$350 On-Site Registration

CRITICAL CARE PROCEDURAL ANATOMY PROGRAM

Additional Registration Fee (*Limited to 40 participants*)

MUST Pre-Register \$225.00 Member \$260.00 Non-Member

_____ Total Enclosed

Make check payable in US Funds to the Air Medical Physician Association* and
mail to **CCTMC, 951 East Montana Vista Lane, Salt Lake City, Utah 84124.**

Or charge to VISA 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 13, 2011; NO refunds after March 13, 2011.

*AMPA Federal Tax ID #87-0510123

Loews Vanderbilt Hotel

2100 West End Avenue, Nashville, Tennessee 37203

Room Rate: \$133.00 (Single or double occupancy, plus taxes)

Individuals may make reservations at the Loews Vanderbilt Hotel by
calling 800-336-3335. In order to obtain the conference room rate
please refer to our group code **2011 Critical Care Transport Medicine
Conference or Air Medical Physician Association.**

RESERVATIONS MUST BE MADE BY TUESDAY, MARCH 7, 2011 IN
ORDER TO RECEIVE THE CONFERENCE RATE.