

Maryland EMS News



Vol. 48 No. 8

For All Emergency Medical Clinicians

December 2022

MIEMSS Issues Emergency Protocol to Address Surge of Pediatric Respiratory Illness

15.2-A

Optional Supplemental Protocol – AIRWAY MANAGEMENT: HEATED/HUMIDIFIED HIGH-FLOW NASAL CANNULA (HHFNC)

1. **PURPOSE**
To define the indications for the initiation or continuation of HHFNC by an appropriately trained paramedic for patients 13 years of age and older.
2. **INDICATIONS**
Patients with hypoxic respiratory failure, which may be due to the following causes: pulmonary edema, pneumonia, pulmonary embolism, pulmonary hypertension, or interstitial lung disease.
3. **CONTRAINDICATIONS**
 - a) Inability to provide continuous, heated humidification using an approved delivery device.
 - b) Inability to provide therapy through an appropriate sized nasal prongs
 - c) Insufficient supply of oxygen to complete the transport
 - d) Basilar skull fracture or severe facial trauma
 - e) Circumstances in which BiPAP/CPAP, endotracheal intubation or surgical airway is indicated
 - f) Patient cannot tolerate transport on 100% FiO₂ (if blended air is not available)
4. **PROCEDURE**
 - a) Ensure that an adequate supply of oxygen is available for the transport.
 - (1) Calculate the amount of oxygen available to transport the patient with current therapy:
Minutes of available oxygen = $\frac{\text{Tank PSI} \times \text{Tank Factor}}{\text{Flow rate} \times \text{FiO}_2}$
 Tank PSI: pounds
 Tank Factor: D size = 0.16; E size = 0.28; G size = 2.41; H and K size = 3.14;
 M size = 1.56
 Flow rate: liters per minute
 FiO₂: expressed as a fraction (e.g., 40% = .40)
 - (2) Estimate total duration of transport, and ensure there is at least twice the amount of necessary oxygen available.
 - b) Perform appropriate patient assessment, including obtaining vital signs, pulse oximeter (SpO₂) reading, and cardiac rhythm.
 - c) Set FiO₂ to maintain SpO₂ at or above 94% (or to patient's baseline oxygen saturation, if known).
 - d) Set flow rate in liters per minute (L/min) to decrease work of breathing.
 - (1) Flow calculation: 2 L/kg/min up to the first 12 kg, plus 0.5 L/kg/min for each kg thereafter, up to a maximum flow rate of 60 L/min.
 - e) Reassess vital signs, work of breathing, mental status and breath sounds.
 - f) Consider the need for escalation of respiratory support if patient remains in respiratory failure on more than 2 L/kg/min of flow or maximum settings for the delivery device.

ALERT FOR CIRCUMSTANCES IN WHICH THE PATIENT DOES NOT IMPROVE OR CONTINUES TO DETERIORATE ON HHFNC, TERMINATE HHFNC ADMINISTRATION AND ESCALATE RESPIRATORY SUPPORT TO PROVIDE POSITIVE PRESSURE VENTILATION VIA CPAP, BiPAP, BVM OR ENDOTRACHEAL INTUBATION, IF NECESSARY.

Release Date July 1, 2023

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www.miemss.org

Optional Supplemental Protocol – AIRWAY MANAGEMENT: HEATED/HUMIDIFIED HIGH-FLOW NASAL CANNULA (HHFNC) FOR PEDIATRIC PATIENTS

15.2-P



1. **PURPOSE**
To define the indications and contraindications for continuation of HHFNC for patients less than 13 years of age undergoing interfacility transport by an appropriately trained paramedic, who is credentialed and operating as part of a specialty care transport service. The SCT service must routinely transport pediatric patients and have age-appropriate HHFNC equipment.
2. **INDICATIONS**
Patients with hypoxic respiratory failure who meet **all** of the following criteria:
 - a) Patient age: 3 months (corrected gestational age) to 12 years
 - b) Patient started on HHFNC flow prior to transport for support of respiratory illness
 - c) Patient has been on stable or decreasing rate of flow for at least 6 hours prior to transport
 - d) HHFNC rate is ≤2L/kg/min, up to 24 L/min maximum rate of flow, and FiO₂ is ≤ 50%
 - e) Patient has been screened by a specialty care transport team medical director or RN and has been approved for paramedic only transport
3. **CONTRAINDICATIONS**
 - a) Inability to provide continuous HHFNC using approved delivery device
 - b) Inability to provide therapy through appropriate sized nasal prongs
 - c) Insufficient supply of oxygen to complete the transport
 - d) Basilar skull fracture or severe facial trauma
 - e) Circumstances in which BiPAP/CPAP, endotracheal intubation or surgical airway is indicated
 - f) Patient cannot tolerate transport on 100% FiO₂ (if blended air is not available)
4. **PROCEDURE**
 - a) Ensure that an adequate supply of oxygen is available for the transport.
 - (1) Calculate the amount of oxygen available to transport the patient with current therapy:
Minutes of available oxygen = $\frac{\text{Tank PSI} \times \text{Tank Factor}}{\text{Flow rate} \times \text{FiO}_2}$
 Tank PSI: pounds
 Tank Factor: D size = 0.16; E size = 0.28; G size = 2.41; H and K size = 3.14;
 M size = 1.56
 Flow rate: liters per minute
 FiO₂: expressed as a fraction (e.g., 40% = .40)
 - (2) Estimate total duration of transport, and ensure there is at least twice the amount of necessary oxygen available.
 - b) Perform appropriate patient assessment, including obtaining vital signs, pulse ox (SpO₂) and breath sounds.
 - c) If using blended air, set FiO₂ to match the FiO₂ on which patient has been maintained in the sending facility. Goal SpO₂ of ≥ 94% or per medical direction.
 - d) Set flow rate (L/min) to match the flow rate the patient is currently receiving. If the flow rate cannot be matched exactly, round up to next closest flow rate setting on the transport HHFNC device.
 - e) Reassess vital signs, work of breathing, mental status and breath sounds.
 - f) If patient appears unstable for transport (e.g., hypoxic, agitated) on current HHFNC settings, consult the SCT service medical direction.

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Release Date July 1, 2023

MIEMSS HAS ISSUED an emergency protocol for specialty care transport (SCT) commercial services following approval by the Executive Director of MIEMSS and the Chairman of the State Emergency Medical Services Board.

MIEMSS developed Protocol 15.2-P to address the surge of pediatric patients requiring heated and humidified high-flow nasal cannula during interfacility transport. Protocol 15.2-A has also been revised to remove the brief pediatric section and ensure overall consistency. The State EMS Board reviewed and approved the proto-

col at its December 2022 meeting.

Heated and humidified high-flow nasal cannula (HHFNC) uses newer technology to deliver oxygen at high concentrations. This intervention allows some critically ill patients to receive oxygen without a tight-fitting mask (e.g., CPAP) or an invasive breathing tube. It has been used extensively by health care clinicians during recent surges of COVID-19 and RSV illness.

See **PROTOCOL** page 20

EMS News Digest

■ **Governor Hogan and Transportation Officials Honor Victims of Crashes Involving Drunk, Drugged Drivers at 19th Annual Maryland Remembers Ceremony** (*Office of the Governor*). On November 21, Governor Larry Hogan joined other state officials, Maryland Department of Transportation (MDOT) leaders, safety advocates, and law enforcement officers for the 19th annual Maryland Remembers ceremony, an event honoring Marylanders who have lost their lives to impaired driving. Maryland Remembers is held annually at the beginning of the holiday season, when impaired driving crashes tend to increase. Last year, 173 people were killed and more than 2,800 were injured on Maryland roadways due to impaired driving. Read more: <https://bit.ly/3uGELYX>

■ **Maryland Poison Center Celebrates 50 Years of Service** (*University of Maryland, Baltimore*). From using paper records and operating out of a basement of a building that is no longer on the University of Maryland, Baltimore campus to becoming

a thriving solution-providing center serving the entire state, the Maryland Poison Center's five decades of service were celebrated with a reception and reflections on its storied history and influence. Read more: <https://bit.ly/3FogHyY>

■ **Md. County Commissioners OK Purchase of Four Ambulances for Carroll County EMS Department** (*EMSI*). The new Board of Carroll County Commissioners held its first public meeting on December 8, and with it came a \$1.27 million purchase approval for four ambulances to be used by the county's new Department of Fire and Emergency Medical Services. Although manufacturing delays could push back delivery of the vehicles by up to two years, placing the order now will ultimately save the county more than \$100,000, according to Michael Robinson Sr., director and chief of the county's Department of Fire and Emergency Medical Services. Read more: <https://bit.ly/3USBCQr>

■ **Evidence-Based Infection Prevention and Control Recommenda-**

tions for the EMS/9-1-1 Workforce (*US Fire Administration*). A new report summarizing current evidence on exposures to infectious pathogens has found that EMS workers appear to be at a higher risk of infection when compared to firefighters and other frontline emergency personnel. Published by the Agency for Healthcare Research and Quality, "Infection Prevention and Control for the Emergency Medical Services and 9-1-1 Workforce" also includes recommendations for areas where further research is needed. Read more: <https://bit.ly/3UQePoc>

■ **"Suck It Up" Culture is Killing First Responders** (*Journal of Emergency Medical Services*). Generally, we humans are not designed to constantly sift through the blood and gore of humanity and see the worst that humankind has to offer daily. There are consequences to the work we do. Read more: <https://bit.ly/3FMwXLi>. ■

Submit recent EMS-related news and headlines for consideration to ptandy@miemss.org.

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Maryland Resuscitation Academy



THE MARYLAND RESUSCITATION ACADEMY (RA) is typically held twice per year at the James N. Robey Howard County Public Safety Training Center. During the COVID-19

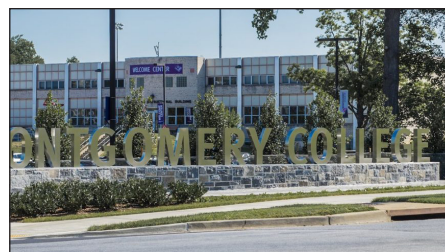
pandemic, in-person sessions were limited due to social distancing requirements, however, the class held on November 29-30, 2022, drew more than 80 attendees from

throughout Maryland, and other states on the east coast.

Through an intensive train-the-trainer practical experience providing real-time feedback to sharpen their knowledge and skills, the RA gives attendees an understanding of the interventions important to prehospital cardiac arrest survival for adults and pediatric patients, reinforcing strategies to improve survival rates in their own community. Additionally, participants learn about the critical link Dispatch/9-1-1 Centers play in the chain of survival. By applying the RA principles, some US communities have been able to achieve 60% survival rates for victims of ventricular fibrillation cardiac arrest, which far exceeds the national average. Participants return to their communities feeling inspired to train others in high-performance CPR techniques. ■

MDERS Expands Public Access Trauma Care to Montgomery College

THE MARYLAND-NATIONAL CAPITAL REGION EMERGENCY RESPONSE SYSTEM (MDERS) continuously engages with regional partners to expand the Public Access Trauma Care (PATC) program throughout Montgomery and Prince George's Counties. The PATC capability seeks to empower bystanders with the requisite medical equipment, knowledge, skills, and abilities to treat life threatening trauma prior to the arrival of first responders. To achieve this goal, MDERS coordinates the procurement and installation of readily accessible PATC kits, in a similar fashion to fire extin-



[Photo: MDERS.]

guishers or automated external defibrillators (AEDs), throughout government buildings, public schools, or other heavily populated facilities.

MDERS staff coordinated with officials from Montgomery College to strategize the expansion of the PATC capability into their facilities.

As part of an expedited planning process, MDERS staff and Montgomery College officials walked through the Rockville campus to identify potential locations for the PATC kits and complete the necessary Environmental and Historic Preservation (EHP) paperwork. Montgomery College officials then repeated this process at their Germantown campus, Takoma Park campus, and Central Services facility.

Upon completion of all the necessary EHP documentation and paperwork, MDERS supplied Mont-

See *MDERS* page 20

MIEMSS on the Move



Todd Abramovitz

TODD ABRAMOVITZ has joined MIEMSS as Director of Media Services and Public Information, effective September 21, 2022.

Although new to the world of emergency medical services, the former Dean of Arts and Humanities at Harford Community College brings a wealth of experience in art, design, and interactive media that uniquely enable him to support the mission, vision, and goals of MIEMSS and the broader EMS community.

"My personal goals for increasing the quality of life for people and strengthening communities aligns well with MIEMSS' mission to help provide effective care to patients by reducing preventable deaths, disability, and discomfort," explains Todd. "I look forward to

working with the EMS community to increase the quality to and access of medical information, media and educational services, and providing communication that bolsters pride throughout the EMS community.

◆ ◆ ◆

KATIE HALL, MSN, RN has joined MIEMSS as Director of Cardiac Interventional Centers, effective November 16, 2022.

Over the course of her 19-year nursing career, Katie has served as a bedside nurse, charge nurse, nurse navigator, and, for the last seven years,



Katie Hall, MSN, RN

served as program coordinator for stroke and chest pain programs. She has led hospitals through successful MIEMSS Stroke Center re-designations, as well as Chest Pain with

Primary PCI Accreditation through the American College of Cardiology.

Katie views her new role as an opportunity to improve our system of care for acute cardiac services across the state.

"I'd love to improve access to high-quality cardiac care through developing a Maryland Cardiac System that aligns with national standards through cultivating multi-level Cardiac Designations," she explains.

◆ ◆ ◆

ABBY BUTLER, MSN, RNC-OB has joined MIEMSS as Director of Perinatal and Neonatal Referral Centers, effective November 30, 2022.

Abby has dedicated many years of her nursing career to improving perinatal and neonatal health outcomes at both Level II and Level IV centers. Prior to joining the MIEMSS team, she served as the Director of Nursing for Women's Services at Mon Health Medical Center, where she focused on new program development, service line growth, and quality improvement. Abby holds a master's degree in nursing leadership and management, as well as a national professional certification in inpatient

obstetrical nursing. She helped successfully lead her previous organizations through various accreditation surveys and also served as a MIEMSS perinatal site reviewer before taking on her new role.

Abby considers being part of the healthcare system a "privilege."

"Both in emergency



Abby Butler, MSN, RNC-OB

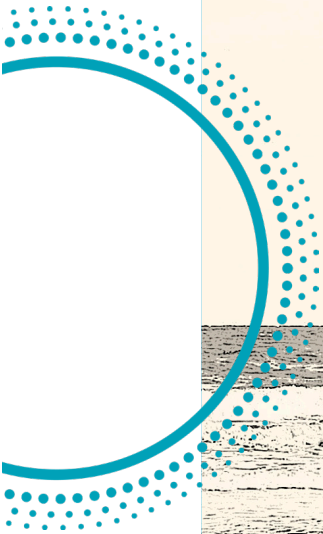
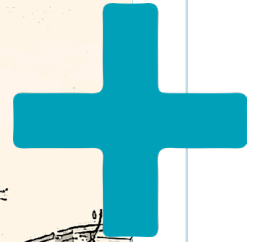
medicine and in childbirth, we are a part of people's lives that do not happen regularly," she explains. "I like to think that I can have a small but positive and comforting impact during these often scary times." As Director of Perinatal and Neonatal Referral Centers, she looks forward "to partnering with the skilled healthcare facilities throughout the state to help build a better, brighter future for our families." ■



VISIT MIEMSS ONLINE AT WWW.MIEMSS.ORG



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FEBRUARY 3 - 5



WINTERFEST

EMS CONFERENCE

February 3 - February 5, 2023 | Location: Easton, MD | winterfest@talbotdes.org



Practice Makes Perfect — An Interactive Pediatric Medical Workshop

Fee: \$50

Date/Time: Friday, February 3 | 9:30 am - 3:30 pm

Location: Chesapeake College Health Professions and Athletics Center (HPAC), Wye Mills, MD 21679

Credit(s): Medical 4.5 hours

Through a series of five medical case-based simulations and scenarios, ALS and BLS clinicians will have the opportunity to practice their pediatric assessment and medical intervention skills. Each clinician will have the opportunity to be the “team lead” for at least one scenario in a simulated environment designed to be as close to “real life” as possible. This intense, hands-on workshop will allow ALS and BLS clinicians to enhance their pediatric skills and become more confident and comfortable in treating a sick child.

EMT 12-Hour Skills Refresher

Fee: \$85

Lecture Portion

Friday, January 20 | 6 pm

Online via Zoom

Skills Portion

Friday, February 3, 2022 | 8 am - 5 pm

Easton Elks Lodge #1622
502 Dutchmans Ln, Easton, MD 21601

For EMTs; complete all your recertification needs with us at Winterfest 2023. The EMT refresher will have an online lecture portion via Zoom and an online exam. The skills portion will be at the Easton Elks Lodge #1622. Lunch is included.

Space is limited. Register early!





DAY 1

CONFERENCE

AGENDA

Saturday, February 04, 2023

Easton High School, Easton, MD 21601

0730–0800 Registration

0800–0845 Welcome with Dr. Ted Delbridge

0.75 M

Ted Delbridge, MD, MPH, FACEP, Executive Director, MIEMSS

Dr. Delbridge will highlight some of the latest trends in EMS as well as share Future Plans for Maryland Emergency Medical Services as we move forward in 2023 and beyond.

0845–1000 Cannabis Exposure from Tots to Teens

1 M

Elizabeth Quaal Hines, MD, Assistant Medical Director, Maryland Poison Center; Assistant Professor, Department of Pediatric Emergency Medicine, UMMS

This presentation will identify the incidence and trends seen in the exposure to cannabis for “pediatrics”. The presentation will discuss both intentional and unintentional forms of cannabis ingestions / inhalation, key assessment sign and symptoms, and prioritized care by EMS Clinicians.

1000–1030 Break with the Exhibitors

1030–1145 Managing the Effects of Less-Lethal Munitions

1 T

Randy G. Stair, MSN, MA, RN, NRP, Supervisory Emergency Services Specialist, Emergency Services, James J. Rowley Training Center, United States Secret Service

This course will cover the less-lethal weapons utilized by Maryland Police agencies to perform their job duties. This course will cover a variety of less-lethal weapons, how they are used by Law Enforcement, why they are used, and general safety concerns/challenges.

1145–1300 Lunch (included with registration)

1300–1430 Breakout Sessions

1430–1500 Break with the Exhibitors

1500–1630 Breakout Sessions (repeated)





BREAKOUTS

A Human Error & Patient Safety

1.5 M

Thomas G. Chiccone, MD, FACEP, Region IV EMS Medical Director

Given the inevitability of human error, this session shows that adverse events are still able to be prevented and that patient safety can still be assured. The session focuses on human and system factors, and explores the most common logic errors and biases of providers, as well as the actual process of decision-making through evitral thinking.

B The Beating Heart

1.5 M

Kevin Pearl, MD, Base Station Medical Director for Emergency Department, EMMS Shore Health

A pulse is always good, but what does the pulse and the EKG really tell us? Let's look at the clinicial presentation of rhythm with a focus on patient care.

C Advanced Airway Management: Trauma

1.5 T

Cody Winniford, BA, EMT-P, CCP-C, FP-C, PHI Air Medical
Bill Jansen, EMTP, FPC, Maryland State Police SOD

The goal of this session is to present you with new tools, ideas, and mental models that you can use without the need to modify approved clinical protocols (mostly), that will enhance your ability to safely and effectively manage a trauma patient's airway.

D LEADing Forward: How EMS Clinicians Can Interact with Individuals with Intellectual and Developmental Disabilities

1.5 M

Rae A. Oliveira, NRP, RN, ALS Education Coordinator, Montgomery County Fire and Rescue

Approximately 6.5 million people in the United States are diagnosed with Intellectual Disabilities and Developmental Disabilities (IDD/DD). Most IDD/DD are non-institutionalized and therefore live, work, shop, and interact within the communities served by EMS clinicians. This course will identify characteristics of IDD/DD patients, and how their behaviors and communication abilities may vary from the non-disabled population in crises or emergency situations. Using the Self-Advocate Educators (SAEs) with IDD/DD as simulated patient, participants will observe or take part in an emergency scenario for a patient with IDD/DD. ***Pre-requisite: Completion of the MIEMSS Online Training Center course - Fire & Medical First Responders and People with Intellectual Disabilities and Developmental Disabilities. Participants will need to bring proof of completion for the prerequisite.***





BREAKOUTS

E When Animals Go Wild

1.5 T

Mary Alice Vanhoy, MSN, RN, CEN, CPEN, NRP, FAEN, Acting Director, Emergency Services, UMMS Shore Health

Humans and animals have lived together for thousands of years, but it has not always been a positive interaction. In only seconds they can go from majestic and loving to vicious and life-threatening. Let's explore the risk and patient care from your pet pig to a cute bear cub.

F Pelvic Injuries: EMS Triage to Temporizing/Definitive Surgical Management

1.5 T

Peter Mittwede, MD, PhD, Orthopaedic Trauma Fellow, R Adams Cowley Shock Trauma Center

This presentation will address the management of pelvic ring injuries, focusing on EMS triage, followed by emergency department management, then finally temporizing and definitive surgical treatment options.

G It's in Your Hands: Pediatric Out of Hospital Cardiac Arrest

1.5 M

Jennifer Anders, MD, FAAP, Associate State EMS Medical Director for Pediatrics, Base Station Medical Director, Johns Hopkins Children's Center

Pediatric Out of Hospital Cardiac Arrests (POHCA) occur in Maryland almost daily and the survival rate is low. Survival is directly impacted by the response of everyone in the Chain of Survival. First the caregivers (family, friends, child care) take action - CPR, and 9-1-1 call. Then - the focus is High Performance CPR for infants, children, teens, and adults. Pediatric HPCPR depends upon early, high-quality CPR (rate, depth and recoil), rapid defibrillations, and remaining in place. Pediatric HPCPR requires ALS to focus on epinephrine before intubation. Children are NOT small adults - the equipment is different sizes. But they deserve the same intentional on scene time, standardized range of dosages, and precision in CPR from Clinicians.

Dr. Jen Anders has a challenge for every station - "It is in your hands" learn what needs to change in the delivery of CPR to children. Stay and practice on manikins that give feedback.





DAY 2

CONFERENCE

AGENDA

Sunday, February 05, 2023

Easton High School, Easton, MD 21601

0830–0845 Registration

0845–0900 Welcome

0900–1015 Reassessing On-Going Assessment

1 M

Peter Fiackos, NRP, ALS Clinician Manager, MIEMSS

Although we train for the most extreme patient conditions, the reality is that the majority of patients that we treat are not truly critical. But how do we know if their condition worsens? The ongoing assessment of course... but are we so intent on monitors and numbers that we are missing important patient care components?

1015–1030 Break with the Exhibitors

1030–1145 See It...Say It: Keeping Our Patients Safe

1 M

Tim Chizmar, MD, FACEP, FAEMS, State EMS Medical Director, MIEMSS

Dr. Chizmar will discuss ways to recognize and avoid common errors in medical decision making. We will explore why some cases seem to “take wrong turns.” Finally, we will identify strategies that promote a culture of patient safety in EMS.

1145–1245 Lunch (included with registration)

1300–1415 Pedestrian Injuries & Fatalities in Maryland

1 T

Tim Kerns, PhD and Cynthia Spriggs, Maryland Highway Safety Office
Margaret Lauerman, MD Assistant Professor Surgical Critical Care, UMMS R A Cowley Shock Trauma Center

Pedestrian safety is an issue that affects everyone in Maryland— young and old, drivers and walkers, during the day and at night. Everyone is a pedestrian in some capacity at one point or another. Many unnecessary injuries and fatalities occur because of intoxication, ignorance, or inattentiveness by either or both motorists and/or pedestrians. This presentation will provide state and local injury & fatality data, injury patterns seen from pedestrian vs motor vehicle, and EMS treatment priorities after these crashes. Specific prevention measure to improve safety will also be discussed.

1415–1430 Break with the Exhibitors

1430–1545 Hemorrhage: The Silent Killer

1 T

Matt Levy, DO, MSc, FAWMS, FACEP, Medical Director, Howard County Fire & Rescue/
MIEMSS Region III Medical Director

This session will provide an overview of the science behind current hemorrhage control interventions. The importance of prompt recognition and control of life-threatening hemorrhage will be reviewed. Strategies and best practices for prehospital care of the traumatic hemorrhage will be discussed.





EMS CONFERENCE DETAILS

Location

Easton High School, 723 Mecklenburg Avenue, Easton, MD 21601

Winterfest EMS will be held at Easton High School, Easton, MD. The EMT Skills Refresher Pre-Conference will be held at the Elks Lodge #1622, 502 Dutchman's Lane, Easton, MD 21601. Practice Makes Perfect—An Interactive Pediatric Medical Workshop will be held at Chesapeake College Health Professions and Athletic Center (HPAC).

Payment and Cancellation Policy

Preregistration is required. We request that registrations be submitted by **Friday, January 20, 2023**. Walk-in registrations will not be allowed. **In the event that payment is not readily available from the registrant's department, registration forms must be submitted with a letter of intent to pay on department letterhead.** Otherwise, payment of all fees must be included with preregistration. All students must be paid in full prior to Winterfest. There is a \$25 fee for bad checks. Any student with an outstanding balance from any previous Winterfest will not be allowed to participate until their account is paid in full. All requests for cancellations must be made in writing and either emailed to winterfest@talbotdes.org or mailed to:

Winterfest EMS

C/O Talbot County DES
605 Port Street, Easton, MD 21061

There is a \$10.00 processing fee for refunds. Speakers and topics are subject to change.

Accommodations

WINTERFEST EMS WILL NOT BE TAKING ANY RESERVATIONS.

All reservations must be made by the student. Please contact any hotel directly to reserve and pay for your room. All hotels listed include a hot breakfast and free Wi-fi. Ask for the Winterfest rate from the suggested local lodging:

Fairfield by Marriott - \$99/night
(410) 822-0050

Holiday Inn Express - \$90/night
(410) 819-6500

Weather Cancellation

The Conference Planning Committee will make a decision about cancellation of Winterfest EMS due to severe weather by **Wednesday, February 1, 2023**. Call Talbot County DES at (410) 770-8161 for details. Written requests for refunds will be accepted within 30 days of cancellation.

For additional information or registration confirmations, call TCDES at (410) 770-8161, email us at winterfest@talbotdes.org, or contact us through Facebook. The Winterfest EMS Committee is committed to ensuring that individuals with disabilities are able to fully participate in the conference. If you require additional assistance, please call the Winterfest EMS Committee.





2023 REGISTRATION

Name: _____

Street Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Other Phone: _____

*** Clinician #: _____

Email (required): _____

Primary Affiliation: _____

Certification/Licensure (Circle): EMR EMD EMT CRT Paramedic LPN RN NP PA MD

Pre-Conferences (Select Only One)

_____ EMT Skills Refresher \$85

_____ Practice Makes Perfect — An Interactive
Pediatric Medical Workshop \$50

Weekend Registration Fees

Single-Day Registration \$90

(Select Only One)

Two-Day Registration \$150

(Saturday and Sunday)

_____ Saturday - General Sessions & Breakouts _____ General Sessions & Breakouts

_____ Sunday

Saturday Afternoon Breakout Sessions (Choose one for each session)

First Session - A B C D E F G

Second Session - A B C D E F G

Total Amount Due \$ _____ = Pre-conference fees + Conference fees

Make checks payable to Winterfest EMS. Reservations are **due by Friday, January 20, 2023**. Send check along with this form to Winterfest EMS, C/O Talbot Co. DES, 605 Port Street., Easton, MD 21601. *If payment is not readily available from the registrant's department, registration forms must be submitted with a letter of intent to pay on department letterhead.*

***** Clinician Number is REQUIRED to Receive Continuing Education Credits *****



Meet the Region III Pediatric EMS Champions

MARYLAND'S EMS SYSTEM is comprised of 29 EMS operational programs divided into five regions. In this month's article, we continue to highlight some of the members of the Region III Pediatric Team.

JEANNIE HANNAS, NRP

ANNE ARUNDEL COUNTY
PEDIATRIC EMS CHAMPION

JEANNIE HANNAS, NRP is the Anne Arundel County Pediatric EMS Champion. Jeannie is a Firefighter/Paramedic in the Training and Research Division of the Anne Arundel County Fire Department. Additionally, she serves as an ALS Education Instructor, QI Coordinator, RSI Program Coordinator, and Tactical Medic.



Jeannie's favorite thing about a career in public service is the ability to help people in what may possibly be the very worst day of their life. On the training side, she also thoroughly enjoys breaking information down to allow clinicians to better understand and critically think through things.

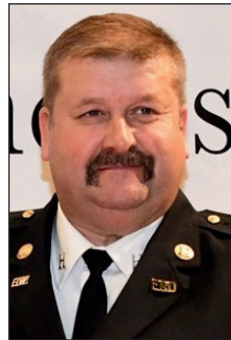
As a child, Jeannie loved playing outside – whether it was catching frogs, playing with chickens (riding with them on the handlebars of her bike), fishing, crabbing, cheerleading, and gymnastics. It comes as no surprise then that she still loves to be outdoors (crabbing, fishing, and boating) as a means to relax and decompress when not at work. Jeannie's favorite holiday is Thanksgiving, as her family gets to spend the entire week together thanks to a timeshare.

What drew Jeannie to working with EMS and Maryland EMSC? She shares that pediatric calls are often the most feared and stressful situations that an EMS clinician will encounter. After running a few priority pediatric calls herself, she was determined to research information and become more confident in

See HANNAS page 20

LINAS SAURUSAITIS

BWI THURGOOD MARSHALL AIRPORT FIRE &
RESCUE DEPARTMENT PEDIATRIC EMS CHAMPION



LINAS SAURUSAITIS, NRP is the outgoing Pediatric EMS Champion for the Baltimore-Washington International Thurgood Marshall Airport Fire Rescue Department. Chief Saurusaitis is transitioning the Pediatric EMS Champion role to a new individual because of increased roles and responsibilities as he moves

from Captain to Acting Division Chief for Emergency Medical Services.

Chief Saurusaitis is also an active volunteer in the Carroll County Department of Fire and EMS. He is a life member, Past President, and Past Fire Chief of the Lineboro Volunteer Fire Department and is presently the Vice Chair of the Carroll County Emergency Services Advisory Council.

Additionally, Chief Saurusaitis is an active volunteer with the National Fallen Firefighters Foundation (NFFF). He serves as the co-coordinator of the BWI reception area that welcomes survivor families traveling to the memorial weekend as well as a family escort. In October 2021, Chief Saurusaitis received a Governor's Service Award from Governor Larry Hogan for his volunteer work with NFFF.

The Maryland EMSC Department would like to thank Chief Saurusaitis for his years of service as one of the original Pediatric EMS Champions for Maryland and sends best wishes for continued success in his new role. ■

EMSC Education Corner

THE MARYLAND EMS FOR CHILDREN DEPARTMENT is pleased to announce two upcoming pediatric nursing educational opportunities.

■ February 15 & 16, 2023 – Pediatric Care After Re- suscitation (PCAR) – An-



napolis, MD. Pediatric Care After Resuscitation (PCAR) is the pediatric-specific version of the adult focused TCAR course, ideal for nurses who occasionally or primarily care for injured children. The PCAR course offers healthcare professionals the foundational, evidence-based information and critical thinking skills necessary to address the needs of the hospitalized, injured child. Course topics include sepsis, fluid management, rhabdomyolysis, multiple organ failure, non-accidental trauma, compartment syndrome, trauma stress disorder and much more!

Please note, the PCAR course is specifically designed to meet the learning needs of trauma NURSES and does not attempt to address areas or issues specific to other disciplines. However, since so much of trauma care is multidisciplinary and core principles cross MANY patient care professions, other healthcare professionals who attended value the information and insight gained. As such, the course is open to all healthcare professionals interested in the content.

For further information, please visit <https://bit.ly/3Wgyi2U>. To register online, please visit <https://bit.ly/3YHCOsU>.

■ March 8 & 9, 2023 – Certified Pediatric Emergency Nurse (CPEN) Review Course – Flintstone, MD.

The CPEN course will provide a comprehensive review based on the detailed CPEN content established by the Board of Certification for Emergency Nursing (BCEN®). This course is presented in a manner that is easy to understand and would also be an excellent review for any nurse interested in increasing his or her knowledge and comfort level in managing pediatric emergencies.



Through the use of lectures, graphics, videos and practice questions, the course will review many of the areas that are tested on the CPEN examination. This course will provide not only a knowledge base for successfully completing the exam, but also may be used towards CE to renew a CPEN or CEN certification.

The CPEN Review Course cannot guarantee that all participants will pass the CPEN certification exam. It is the responsibility of the emergency nurse to take the necessary time to study & gain mastery of the required topics.

For further information or to register, please visit <https://bit.ly/3WpHiDa>.

■ **Pediatric Education for All.** Resources from the national EMSC EIIC PEAKS (Pediatric Education and Advocacy Kits) were updated over the summer. PEAKS include a variety of resource types and formats ranging from evidence-based guidelines, podcasts, and webinars. PEAKS are organized in a matrix, first by topic and then by target audience. In the January 2022 issue of *Maryland EMS News*, we highlighted the clinical content for EMS clinicians.

This month's focus is the resources for Parents and Caregivers. Maryland EMSC has a Family Advisory Network that focuses on providing resources to families, injury prevention is one example, and encouraging family input on educational programs for a wide audience.

PEAK kit current topics include:

- Agitation
- Pain
- Status Epilepticus
- Suicide

Please visit <https://bit.ly/3VirIHZ> for further information and access to these wonderful resources.

■ **The American Academy of Pediatrics (AAP)** also has a website dedicated to educating parents on health promotion, injury prevention and helping families anticipate the day to day joys (okay, and challenges) of helping children grow and learn in today's busy world. AAP's website features a wealth of information designed to help parents better understand the current rise in pediatric respiratory illnesses, such as RSV: <https://www.healthychildren.org/English/health-issues/conditions/chest-lungs/Pages/RSV-When-Its-More-Than-Just-a-Cold.aspx>. Other AAP resources to share with families include:

- *Ages and stages:* from newborn through going to college, what parents should anticipate and prepare for.
- *Healthy living:* from oral health & nutrition to sports
- *Safety and prevention:* Immunizations and safety at home, at play, and on the go
- *Health issues:* common childhood health questions from A to T (including RSV and monkeypox)
- *Tips and tools:* Checklists, interview questions, newsletters, and webinars

Visit the AAP parenting website at <https://www.healthychildren.org/>.



Visit Maryland EMS for Children online at www.miemss.org/home/emsc.

This Holiday Season, Make Sure Your Gift Includes a Helmet

CHILDREN AND PRESENTS go together, and so do bikes and helmets.

If you give a child in your life a bike, or any other wheeled gift, make sure you add a helmet to the present. Bikes, scooters, skateboards, and roller blades are great ways to learn balance and get exercise, but they can also give the rider a one-way ticket to the emergency room.

Just like adults, kids come in different sizes, and helmets do, too. For helmets to work best, they need to fit correctly and be worn correctly on every outing. The helmet should sit level on the head and come down to just above the eyebrows, with the straps snugly buckled under the chin.

Checking your helmet fit is as easy as 1-2-3: eyes, ears, mouth:



- When looking up, your **eyes** should see the bottom rim of the helmet.
- The straps should form a “V” under your **ears** when they are buckled.
- The helmet should hug your head when you open your **mouth** wide.

Even kids on balance bikes

should wear an appropriate helmet. Starting early can begin a lifelong habit of safety.

According to the National Highway Traffic Safety Administration, when bike helmets are used correctly, they reduce head injuries by 85 percent and brain injury by 88 percent. More children ages 5 to 14 are seen at the ER for injuries related to biking than any other sport.

Safety doesn't stop with helmets. If you ride a bike on the road, you are required to obey the same laws as other vehicle operators, including obeying traffic signs, signals, lane markings, and riding in the same direction as cars.

Bikes share the road with mo-

See **HELMETS** page 20

**MARYLAND
EMS
Care**



~ *Save the Date* ~
April 26-30, 2023

*Ocean City Fontainebleu Resort
Ocean City, Maryland*

Further details will be published as they become available.



MARYLAND STARS OF LIFE AWARDS

Each year, the Maryland Institute for Emergency Medical Services Systems (MIEMSS) celebrates EMS Week by honoring men and women across Maryland who have contributed to the EMS system. The eight categories for awards relate to specific incidents occurring from January 1, 2022, through December 31, 2022. For further information, call 410-706-3994, or email awards@miemss.org.

MARYLAND STAR OF LIFE AWARD

This award may be given to an individual, multiple individuals, or teams on the same incident for an outstanding rescue under extreme circumstances by EMS personnel.

MARYLAND EMS CITIZEN AWARD

This award is intended for citizen rescuers who have demonstrated quick thinking, fast action, and heroism.

EMS CLINICIAN OF THE YEAR

This award recognizes a clinician who has made outstanding contributions in the past year to the continuous improvement of emergency medical services in Maryland (for example, in the areas of quality assurance, public or EMS education, prevention, delivery of EMS services, and new technology).

EMD CLINICIAN OF THE YEAR

This award is given for extraordinary efforts in assisting the public through dispatch in this vital portion of the Chain of Survival.

OUTSTANDING EMS PROGRAM

This award recognizes a program that offers an innovative approach to reducing death and disability. The program must be affiliated with an EMS system component, such as a hospital, educational facility, rescue squad, or EMS organization.

LEON W. HAYES AWARD FOR LIFETIME EXCELLENCE IN EMS

This award is given to an individual who has devoted a lifetime of dedication to excellence in patient care, compassion and respect for each patient, and commitment to continuous improvement of the Maryland EMS system through his/her professional and personal life.

MARYLAND EMS-CHILDREN (EMS-C) AWARD

This award is given to an adult or program that has demonstrated ongoing dedication and commitment to improving the care for children and for promoting Family Centered Care in a Maryland EMS program or hospital.

MARYLAND EMS-GERIATRIC (EMS-G) AWARD

This award is given to an individual or program that has demonstrated ongoing dedication and commitment to improving the EMS care of the elderly in Maryland.

NOMINATIONS FOR 2023 are DUE by FRIDAY, MARCH 31, 2023.

SUBMIT THROUGH THE ONLINE LINK: <http://www.miemss.org/home/documents>

The Right Care When It Counts

Maryland EMSC 2023 Program



The Maryland EMS for Children program is in search of children and youth in Maryland who have demonstrated steps to take in an emergency or ways to be better prepared for an emergency. Actions taking place January 1, 2022, through December 31, 2022, are eligible for nomination. We will be recognizing

children and youth who acted so that others would receive “The Right Care When It Counts.” Each nominee will receive a patch and certificate and be eligible for a state award at a ceremony during EMS Week 2023.

Questions? Email awards@miemss.org

Children and youth who have met one or more of the following criteria are eligible for Right Care Awards:

1. Activates the Emergency Response System by calling 9-1-1 in an emergency
2. Calls the Poison Control Center in an emergency (1-800-222-1222)
3. Provides family emergency phone numbers, address, and contacts to emergency responders
4. Knows and practices an emergency plan at home
5. Applies knowledge learned in a first aid class
6. Performs CPR and/or uses an AED effectively
7. Knows his or her medical history (allergies, medications, special needs, etc.) and shares this information with emergency care providers
8. Participates in fire and injury prevention education in the community
9. Prepares, with his or her family, to respond to a disaster
10. Provides emergency assistance in the community

Nominations for 2023 are **DUE by March 31, 2023 (Friday)**
Submit through the online link: <http://www.miemss.org/home/documents>

MCFA Offers Reimbursement Scholarship for 1st Responder Mental Health and Wellness Conference, March 30-31, 2023

THE MARYLAND FIRE CHIEFS ASSOCIATION (MCFA) is pleased to announce the availability of grant-funded scholarships for our members to attend the 1st Responder Mental Health and Wellness Conference March 30-31, 2023, in Ocean City, Maryland. MCFA, with funds from the SAFER Grant, is sponsoring several scholarship opportunities for Maryland Fire Service Personnel to attend the conference. The scholarship will reimburse recipients up to \$478 for the conference registration and hotel expenses (\$89/night). There is no per diem (food) provision.

This is a reimbursement scholarship, which means the recipient must pay all costs in advance. Scholarship recipients will be required to submit all receipts at the conclusion of the conference for reimbursement up to the eligible amount. In addition, as part of the reimbursement process, attendees will be required to provide the MFCA Training Committee with a one-page synopsis of what they learned in the course and how they will share such information with their department and/or jurisdiction.

Individuals applying for the scholarship must be a current volunteer member in good standing of a Maryland volunteer fire, rescue, and/or EMS company. The MFCA Training Committee encourages everyone to apply for this scholarship opportunity. To apply for a reimbursement scholarship to attend

the 1st Responder Mental Health and Wellness Conference, please complete the Scholarship Application above and email it to scholarships@mdchief.org. **All completed and signed scholarship applications**

must be received no later than 5:00 p.m. on January 31, 2023. Once applications have been reviewed, you will be notified by the MFCA Grant Coordinator of your selection status and procedures for reimbursement. ■



Maryland Fire Chiefs Association
Training/Conference SAFER Scholarship Request



Scholarship Applicant Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Email: _____

Current Member of the Maryland Fire Chiefs Association: Yes No

Fire Company Name: _____

Fire Company Address: _____

Name of Training/Conference Program: _____

Dates of Training: _____

Estimated costs:

Travel:	_____	<small>No costs should be incurred by the individual until a determination of eligibility is made by the MFCA SAFER Grant Coordinator. Any costs incurred prior to a decision by the coordinator shall be at the member's own expense</small>
Lodging:	_____	
Registration:	_____	
Other:	_____	
Total estimated cost:	\$ 0.00	

Applicant Signature: _____ Date: _____

The below must be completed by a Chief Officer of your Fire Company

I, _____, hereby attest and affirm that the above individual requesting
Print Name
 above scholarship is an active and a member in good standing of the _____
Name of Fire Company/Department

Print Name/Rank of Chief Officer: _____

Signature: _____ Date: _____

Office Use Only

Received Date: _____ Approval Date: _____ Project #: _____

MFCA SAFER Grant Coordinator
 Signature: _____ Date: _____

MSFA/MFCA SAFER Grant Manager
 Signature: _____ Date: _____

Rev. 2.14.22

For more information
 about the conference,
 please visit

● <https://1stresponderconferences.org/ocean-city%2C-md>

Maryland Department of Transportation Motor Vehicle Administration's (MDOT MVA)

Maryland Highway Safety Office

The MDOT MVA Highway Safety Office (MHSO) is dedicated to saving lives and working with many partners across the State to reduce the number of crashes each year. In addition, the MHSO looks for ways to reduce crash severity and ways to treat crash victims easier and faster.

Maryland aims to reduce the number of crashes, and the resulting deaths and injuries, to zero by 2030.

Be the Make a Plan Driver this Holiday Season

This holiday season, don't push your luck. Whether you're enjoying drinks at the bar or simply a night with friends, remember that impaired driving is never the right choice.

Be the MAKE A PLAN Driver and ensure your ride home is planned *before* you drink. Never allow friends or family to drive if they have been using alcohol or drugs.

In order to help you Make a Plan, this holiday season we have partnered with the Governors Highway Safety Association, Responsibility.org, and Lyft to Marylanders \$5 in Lyft rideshare credits each weekend. Get the new code each weekend and read more at ZeroDeathsMD.gov/rideshare.



Emphasis Area Team Meetings

Looking to become more involved in local road safety? MHSO welcomes participation from the EMS community for all emphasis areas. Mark your calendar for the upcoming meetings:

- Impaired Driving:
January 23, 2023 (10:00 a.m. – Noon)
- Speed & Aggressive Driving:
February 8, 2023 (10:00 a.m. – Noon)

Contact MHSO@mdot.maryland.gov to register

Be Prepared for a Roadside Emergency this Winter

Winter is here, and with it comes potential for severe weather. To avoid unnecessary roadside emergencies, motorists should verify their vehicle is in good working condition before traveling, *especially* in the winter. Before your next trip double check that you have the following items.

Winter Car Emergency Kit Essentials:

- Jumper Cables
- First-Aid Kit
- Bottled Water
- Non-Perishable Food Items
- Multi-Tool
- Road Flares or Reflective Warning Triangle
- Flashlight with Extra Batteries
- Ice Scraper/Snow Brush
- Blanket/Gloves
- Small Portable Shovel
- Sand/Salt or Cat Litter (for traction)

Items should be stored in a sealed tote and checked/refreshed on a regular basis.

During winter months, ensure you maintain at least half a tank of gas. Check your windshield washer fluid and fill with a winter blend designed to prevent freezing.



MDERS...

(Continued from page 3)

gomery College with PATC bags and cabinets, which Montgomery College promptly installed in 90 locations across their facilities. Each of these bags stores a patient litter and five individual PATC kits. The individual kits contain a tourniquet, emergency compression dressing, compressed gauze, medical gloves, trauma shears, two chest seals, a survival blanket, a permanent marker, a mini duct tape roll, and a just-in-time instruction card. The expansion of the PATC capability throughout Montgomery College campuses provides an invaluable medical resource for prompt care of an injured victim.

MDERS staff recently met with Prince George's Community College to discuss how the program could

benefit their campus and is continuing to conduct targeted outreach to higher education institutions in the Maryland-National Capital Region.

For more information on the Public Access Trauma Care Program, or other emergency response capabilities, please visit www.mders.org. ■

HELMETS...

(Continued from page 15)

tor vehicles, and Maryland's law requires motorists to allow at least three feet of clearance when passing a bicyclist on the road. Cyclists take up less space than cars, making them harder for motorists to see, thus requiring extra caution. Wearing light and/or reflective clothing makes riders more visible and increases safety.

Putting safety first during the holiday season will help protect riders all year long.

Visit <https://miemss.org/home/bike-safety-project> to view and download a Helmet Fit Test poster (available in English or Spanish), or email bikesafety@miemss.org to request professionally printed post-

ers. Other posters and bike safety supplies are also available. This bike safety project is coordinated by MIEMSS with funds from the Maryland Highway Safety Office. ■

HANNAS...

(Continued from page 13)

handling such calls. Jeannie enjoys learning any new information regarding pediatric patients and ways to improve outcomes. By becoming a Pediatric EMS Champion, Jeannie hopes to share her knowledge and experience and help guide new and not-so-new EMS clinicians in their care of pediatric patients. ■

Maryland EMS News

MIEMSS

653 W. Pratt St.

Baltimore, MD 21201-1536



Governor Larry Hogan

Lt. Governor Boyd Rutherford

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PROTOCOL...

(Continued from page 1)

Previously, pediatric patients being transferred between hospitals required a nurse or specialty care paramedic to transport them. With this protocol change, Maryland paramedics who work for an SCT service may receive additional training that enables them to transport select pediatric patients on HHFNC. This modification will assist SCT services with meeting the increased demand generated by recent surges of viral respiratory illness.

Protocol 15.2-P and revised Protocol 15.2-A are available for immediate implementation by qualified SCT services. Please notify the State Office of Commercial Ambulance Licensing and Regulation (slegore@miemss.org) and the Office of the State EMS Medical Director (chzyer@miemss.org) if your SCT service would like to utilize this protocol.

Should you have any questions regarding the protocol content, please contact the Office of the State EMS Medical Director at chzyer@miemss.org. ■