

2023  
VIRGINIA EMS  
SYMPOSIUM  
*an education for life*



Online registration open  
through Oct. 6, 2023

Learn more and register online at:  
[www.vdh.virginia.gov/symposium](http://www.vdh.virginia.gov/symposium)

More than  
400 classes  
available

2023  
COURSE  
CATALOG

Various  
Course  
Tracks

**November 8-12, 2023**

Norfolk Waterside Marriott, Sheraton  
Waterside Norfolk & Hilton Norfolk The Main  
Norfolk, Virginia

**VDH** VIRGINIA  
DEPARTMENT  
OF HEALTH

**Virginia**   
OFFICE OF EMERGENCY MEDICAL SERVICES  
Virginia Department of Health

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**\*Note - Classes are arranged by day, time and track for ease of use when planning your schedule. Please be sure to plan for enough time to get to your classes when choosing your schedule.**

## Thank You Sponsors!

- Medline
- Norfolk Fire/Rescue
- Platinum Educational Group
- Regional EMS Councils Executive Directors Group
- State EMS Advisory Board
- Virginia Association of Volunteer Rescue Squads
- Virginia Department of Fire Programs
- Virginia Department of Health
- Virginia Emergency Nurses Association
- Virginia EMS for Children
- Western Virginia EMS Council

# Registration Information

## Registration Deadline - October 6, 2023

The Virginia EMS Symposium registration deadline is Friday, Oct. 6, 2023 at 5 p.m. A worksheet in the center of this catalog will help you choose your classes by day, time, category and area to help fulfill your necessary credit hours (see Symposium Course/Area quick reference sheet.) You can register online and transfer or change your class selections with the new online registration program.

**Mail paper registration forms, located on pages 4 - 7, to the following address:**

**Virginia EMS Symposium  
1944 Peters Creek Road NW  
Roanoke, VA 24017-1613**

Registration will close Oct. 6, 2023 or when 1,800 participants are registered, whichever comes first. Please keep this in mind and register early! Classes fill up quickly.

## How to Register

**Online** - Our online registration system is quick and easy to use. Online registration is preferred and will accommodate group registration. The online registration process has many new options to assist you in the selection of course sessions that best meet your EMS educational needs.

Online registration accepts credit card and invoice payments. To register online, please visit: [www.vdh.virginia.gov/emergency-medical-services/ems-symposium/](http://www.vdh.virginia.gov/emergency-medical-services/ems-symposium/). There will also be a copy of your course confirmation in your packet, which you will receive upon check-in to the Virginia EMS Symposium.

**Paper Registration** - Each registration must be on a separate form. To mail your paper registration form, you can use the registration sheet provided on pages 4 - 7 of this catalog or download the registration sheet from our website. When submitting a paper registration,

you will pay by check, made payable to the "Virginia EMS Symposium". Payment must be included with your paper registration to successfully register. Mail all paper registrations and payment to the address in the first column. You will receive a registration confirmation, which will include your registration information and course selection via email.

## Registration Questions

### Web Support

If you are registering online and have technical support questions, please email the Symposium Help Desk at [OEMS-AppSupport@vdh.virginia.gov](mailto:OEMS-AppSupport@vdh.virginia.gov).

### Payment Support

If you have questions about your registration payment, please call Sandi McGrath at 866-992-3637 or email [symposium@vaems.org](mailto:symposium@vaems.org).

### General Registration Inquiries

For general Symposium registration questions, please call 804-888-9100.

## Payment

### Cash payments will not be accepted.

**Credit Card** - If you pay with your credit card, then you must register online at: [www.vdh.virginia.gov/emergency-medical-services/ems-symposium/](http://www.vdh.virginia.gov/emergency-medical-services/ems-symposium/). For security purposes, credit card payments will only be accepted online.

**Check** - If you pay by check, then you must send your paper registration and check via mail. You may also register online and select invoice, then print the invoice and remit payment to the address in the first column. Please include the invoice number(s) on the check and make checks payable to the "Virginia EMS Symposium". Check and paper registration must be received at the same time.

**Invoice** - EMS agencies or organizations that pay for multiple agency personnel to attend the Symposium

should have personnel register online and generate an invoice. Print the invoice after completing the registration process and submit the invoice to the paying organization. When payments for group registrations are submitted, include all invoice numbers along with the payment. Once the payment is processed, each registrant will receive an email that includes confirmation of their itinerary.

## Governmental Agencies

Individuals whose registrations will be paid for by a governmental agency may register themselves online and choose the "Invoice My Agency" option at checkout. An invoice will be created when the order is placed. The invoice must be given to the agency and the agency must include this invoice with their payment. Local, state and federal agencies may also pay for one or more individuals by purchase order on governmental letterhead. You must mail or attach to an email the purchase order with the completed registration form for each person being registered. Please submit one registration packet per person. A separate, valid email address for each registrant is required on each paper form. The registrant and agency will receive a registration confirmation via the email address provided.

## Changes to Your Registration

You can now make changes or update your class schedule and registration information online. If you have submitted a paper registration and need to make a change, please contact Debbie Akers at 804-888-9122.

**Cancellations** - The symposium registration fee will be refunded if requested in writing and received at the Virginia EMS Symposium office by 5 p.m., Friday, Oct. 13, 2023. A \$25 processing fee is charged for all cancellations.

# General Information

## Additional Fees

Please read the full descriptions of the courses you are registering for, as some courses require extra fees to cover additional materials or costs associated with the course. This extra fee is noted in the description of the course, as well as on the registration page.

## On-Site Check-In Times

Below are the hours that on-site registration will be open during the 2023 Virginia EMS Symposium.

Tuesday, Nov. 7, 2023, 3 p.m. - 9 p.m.  
Wednesday, Nov. 8, 2023, 7 a.m. - 5 p.m.  
Thursday, Nov. 9, 2023, 7 a.m. - 5 p.m.  
Friday, Nov. 10, 2023, 7 a.m. - 5 p.m.

## Lodging

This year, there will be a new hotel reservation system, which will allow symposium participants to book their hotel reservations directly through the symposium registration process. This new reservation system will only apply to our three host hotels: the Norfolk Waterside Marriott, Sheraton Norfolk Waterside and the Hilton Norfolk The Main.

Hotel rooms at the three host hotels MUST be obtained through the symposium registration process. Participants will not be able to call the hotels or reserve a room online as part of the symposium room block and rate.

Additionally, participants will not be able to book a hotel room on behalf of anyone else. They will be required to go through the Symposium registration process to obtain a personal hotel room confirmation. The hotel confirmation received will be unique to the participant's registration information.

To learn more about the new hotel reservation system, visit: <https://www.vdh.virginia.gov/emergency-medical-services/ems-symposium/virginia-ems-symposium-new-hotel-reservation-system/>.

Some area hotels may offer a special EMS Symposium state per diem rate,

please ask when making your reservation. Bring your provider i.d. card, as you may be asked for it upon check in to receive the special rate. The state per diem rate is adjusted in October, so hotel rates may be subject to change.

## Free Symposium Parking & Local Transportation

Symposium participants can park at no charge for the entire symposium at the Harbor Park baseball stadium parking lot. Harbor Park is about four blocks from the Marriott and offers plenty of lighted parking. Harbor Park parking permits will be available at the parking information booth located in the symposium registration area of the Marriott. You will receive a parking permit to display on your dashboard, which can only be used at Harbor Park for the duration of symposium.

A shuttle service is being provided and will run continuously between Harbor Park, the Sheraton, Marriott and Hilton hotels.

The shuttle will run during the following hours:

Wednesday, 6:15 a.m. – 6:00 p.m.  
Thursday, 6:15 a.m. – 6:00 p.m.  
Friday, 6:15 a.m. – 1:00 a.m.  
Saturday, 6:15 a.m. – 1:00 a.m.  
Sunday, 6:15 a.m. – 2:00 p.m.

Please note that free parking does NOT include the parking garages. Free parking only applies to the designated area in the Harbor Park baseball stadium parking lot. More information will be available on site.

To get from Harbor Park back downtown you can walk or ride. The Tide transit bus and the Light Rail are \$2 for one trip. For more Hampton Roads Transit fares information, visit: [goht.com/fares/bus-fares/](http://goht.com/fares/bus-fares/).

## Vendor Exhibit Halls

There will be two exhibit halls featuring over a hundred vendors from across the nation. Vendor halls will be located at the Marriott and the Hilton Norfolk the Main hotels. Retail Exhibitors in locations outside of the vendor hall may have different hours of operation posted on site.

Hilton Exhibit Hall Hours of Operation:  
Thursday, 8:00 a.m. - 7:00 p.m.  
Friday, 8:00 a.m. - 3:00 p.m. and  
5:00 p.m. - 7:00 p.m.

Marriott Exhibit Hall Hours of Operation:  
Thursday, 8:00 a.m. - 5:00 p.m.  
Friday, 8:00 a.m. - 2:00 p.m.

For a complete listing of Exhibit Hall vendors, please visit [www.vdh.virginia.gov/emergency-medical-services/ems-symposium](http://www.vdh.virginia.gov/emergency-medical-services/ems-symposium). This list will be updated regularly.

## OEMS Symposium Opening Ceremony

Please join the Office of EMS Executive Director Gary Brown and OEMS staff as we welcome you to the 43rd Annual Virginia EMS Symposium on Wednesday from 12:00 - 1:15 p.m. A keynote address will be delivered. Speaker to be announced at a later date. Lunch will be served and registration is required (**ADM-107**).

## Annual Governor's EMS Awards Program and Reception

On Saturday, Nov. 11, join us in celebrating the Commonwealth's 2023 Governor's EMS Award presentation. This year, there will be no fee for this event. Everyone is invited to attend but seating is on a first come first serve basis. We'll have the EMS Memorial Tribute and the presentation of the awards.

Doors open at 5:30 p.m. The program starts at 6:15 p.m. Dinner will be served and limited banquet-style seating will be available.

## Youth and Teen Camps

Rescue Camp for Youth is a fast paced and fun-filled session for children ages 8 to 12. Training covers CPR, water rescue, basic first aid, personal safety, as well as ropes and repelling or SCUBA Diving introduction. Class is limited, registration required.

Rescue Camp for Teens is a fast paced and fun-filled class designed for teens ages 13-17. Special emphasis placed

# CEU & Course Information

on rescue operations to include vertical (ropes), water rescue operations and Emergency Medical First Aid skills. This is an interactive event designed for students interested in public safety careers. Class is limited, registration required.

Be sure to register while filling out your symposium registration form. Youth and Teen Camps are sponsored by The Fairfax County Fire and Rescue Department and the Virginia Office of EMS.

## Important Symposium Policies

**Cancellations** - The symposium registration fee will be refunded if requested in writing and received at the Virginia EMS Symposium office by 5 p.m., Friday, Oct. 13, 2023. A \$25 processing fee is charged for all cancellations.

**No Smoking** - All symposium activities, classes, exhibits and hallways are designated strictly non-smoking. Smoking is only allowed outside of the conference center. Also, please refrain from using other tobacco products in class.

**No Children in Classes** - In order to reduce classroom distractions, children and infants are not permitted in symposium classes.

**No Admittance if Late to Class** - You must be in class for the entire time designated to earn your CEUs. If you arrive late, you will not be admitted.

## CEU Worksheets

To ensure that you take the proper courses you need to obtain continuing education units (CEU), please refer to the following worksheets in the center of the catalog: BLS and ALS credit hours. If you have questions regarding CEUs, call the OEMS Division of Accreditation, Certification and Education at 804-888-9120.

## Continuing Education Credit

**Virginia EMS Providers** - CEUs for Virginia recertification credit will be awarded, as indicated by area, topic and category, to EMS providers certified by the Office of EMS. CEUs are

offered for completion of class for Categories 1 and 2. ALS and BLS topics for recertification are listed by CE subject matter, date, time and category. Category 2 applies to both ALS and BLS, unless otherwise noted.

**Non-Virginia Certified EMS Providers** - Upon request, Non-Virginia EMS providers will receive a document that lists the symposium programs that they attended from the Office of EMS.

Requests must be made no later than December 31, 2023.


**Nurses** - An education record will be generated by the Office of EMS as a record of classes attended. You will be able to turn this into your professional organization or employer for CE.


**OMD Registration** - Physicians attending the Operational Medical Directors Workshop (**ADM-113**) are required to register for the symposium, but are exempt from paying registration and class fees for this course. Please fill out the Virginia EMS Symposium registration form and mail or register online. For more information on how to register, please see page 1.

## Course Information

**BLS Academy** - This academy offers students the ability to find all of the required BLS continuing education credits with greater ease. These courses can be identified by the course track that begins with BLS.

 **EMS Leadership and Management Certificate** - EMS personnel are encouraged to take classes to assist in leading and managing EMS agencies. Registered attendees can earn the EMS Leadership and Management Certificate by taking a minimum of twelve (12) hours of courses identified with a Star of Life next to the course title. Attendees may register to receive the certificate by signing up on the 3rd Floor of the Marriott, opposite the registration area. Once attendance is verified, certificates will be distributed via email, and only upon the request of the attendee. Please direct questions regarding the EMS Leadership and Management Certificate to Tristen Franklin at [Tristen.Franklin@vdh.virginia.gov](mailto:Tristen.Franklin@vdh.virginia.gov).

 **Hands-on** - All hands-on classes are denoted by the hand icon.

 **Health & Safety** - This track focuses on the health and safety of EMS providers. This icon also identifies courses outside of this track that are health and safety-related.

**Course Areas:** All course areas will be noted in the catalog as follows: Classes in BLS and ALS category 1 will be designated with the assigned area number, for ex. BLS 11/ ALS 16. Courses in BLS and ALS category 2 will be noted as CAT 2, for ex. BLS CAT 2/ALS CAT 2.

## Course Tracks

ADM - Administrative

ARV - Airway, Respiration and Ventilation

BLS - BLS Academy

CAR - Cardiac

CRI - Critical Care

EDU- Educator

HEA - Health & Safety

LMGT - Leadership & Management

MED - Medical

OPE - Operations

PED - Pediatric

SPEC - Specialty (Mobile Integrated Healthcare/Community Paramedicine and Air Medical)

TRA - Trauma

# 2023 Virginia EMS Symposium Registration Form

## 1. Registration Information: Legibly print name and affiliation as you want them to appear on your name badge.

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone: Work ( ) \_\_\_\_\_ Home ( ) \_\_\_\_\_

Email Address: (Please print clearly) \_\_\_\_\_

EMS Agency/Organization Affiliation \_\_\_\_\_

Certification Level: \_\_\_\_\_ EMR \_\_\_\_\_ EMT \_\_\_\_\_ AEMT \_\_\_\_\_ Intermediate \_\_\_\_\_ Paramedic \_\_\_\_\_ Educator  
\_\_\_\_\_ Nurse \_\_\_\_\_ Physician \_\_\_\_\_ Other \_\_\_\_\_ Faculty \_\_\_\_\_ Vendor \_\_\_\_\_ Staff

Virginia EMS Certification Number \_\_\_\_\_  
*(You will not be registered without this info. To assure CE is awarded, all Virginia certified EMS providers must provide their Virginia EMS Certification number. If you do not possess Virginia EMS certification, then you must provide a valid email address.)*

Date of Birth \_\_\_\_\_ City/County and State in which you reside \_\_\_\_\_

## 2. Registration Fees:

\$125	Full registration includes: all courses held Nov. 8 - 12 2023, class materials, breaks and special events	\$ _____
\$295	CRI-1101 - FPC Review Course	\$ _____
\$75	TRA-1201 - ASHI Wilderness Emergency Care	\$ _____
\$175	MED-801 - Infection Control Basic Designated Officer Training Course	\$ _____
\$80	TRA-1227 - Advanced Moulage Techniques	\$ _____
\$75	OPE-923 - Who Let the Dogs Out?	\$ _____
\$10	ARV-217 - A Cut Above the Rest, the Failed Airway and Emergency Front of Neck Access	\$ _____

**Online Registration  
is Quick & Easy!**

There are two ways  
to register:

Online and  
Paper Registration

### 3. Print Your Name

\_\_\_\_\_

**4. Check Your Classes** - Limited class size is indicated with an L. Prerequisites for classes are indicated with an asterisk\*. Place a 1, 2 and 3 for your first, second and third choices per time period.

#### Wednesday, November 8

8:00 AM - 5:30 PM

\_\_\_CRI-1101(L)      \_\_\_TRA-1201  
DAY 1\*              DAY 1\*

\_\_\_ADM-101(L)  
DAY 1

8:00 AM - 5:00 PM

\_\_\_ADM-102(L)\*      \_\_\_HEA-601  
\_\_\_EDU-501(L)\*

8:00 AM - 12:00 PM

\_\_\_CAR-401      \_\_\_HEA-602(L)\*

8:00 - 11:00 AM

\_\_\_ARV-201(L)

8:00 - 9:30 AM

\_\_\_BLS-301

8:00 - 9:00 AM

\_\_\_CRI-1102\*      \_\_\_PED-1002  
\_\_\_HEA-603      \_\_\_PED-1003  
\_\_\_LMGT-701      \_\_\_TRA-1202  
\_\_\_LMGT-702      \_\_\_TRA-1203  
\_\_\_OPE-901      \_\_\_TRA-1204  
\_\_\_PED-1001

9:30 - 11:30 AM

\_\_\_HEA-604      \_\_\_MED-802  
\_\_\_HEA-605

9:30 - 10:30 AM

\_\_\_ADM-103      \_\_\_MED-804  
\_\_\_CAR-402      \_\_\_PED-1004  
\_\_\_CAR-403\*      \_\_\_TRA-1205  
\_\_\_CRI-1103      \_\_\_TRA-1206  
\_\_\_LMGT-703      \_\_\_TRA-1207  
\_\_\_MED-803

10:00 AM - 12:00 PM

\_\_\_BLS-302      \_\_\_HEA-606  
\_\_\_CRI-1104      \_\_\_PED-1005(L)

11:00 AM - 12:00 PM

\_\_\_ADM-104      \_\_\_OPE-902

\_\_\_ADM-105      \_\_\_PED-1006  
\_\_\_ADM-106      \_\_\_PED-1007  
\_\_\_CAR-404      \_\_\_SPEC-1601  
\_\_\_HEA-607      \_\_\_TRA-1208  
\_\_\_MED-805

12:00 - 1:15 PM

\_\_\_ADM-107

1:30 - 5:30 PM

\_\_\_ARV-202(L)      \_\_\_CRI-1105(L)  
\_\_\_BLS-303      \_\_\_PED-1008(L)  
\_\_\_CAR-405

1:30 - 3:30 PM

\_\_\_OPE-903

1:30 - 2:30 PM

\_\_\_ADM-108      \_\_\_MED-806  
\_\_\_ADM-109      \_\_\_MED-807\*  
\_\_\_ARV-203      \_\_\_MED-808  
\_\_\_CAR-406      \_\_\_OPE-904  
\_\_\_CRI-1106      \_\_\_OPE-905  
\_\_\_CRI-1107      \_\_\_PED-1009  
\_\_\_EDU-502      \_\_\_SPEC-1602  
\_\_\_EDU-503      \_\_\_TRA-1209  
\_\_\_HEA-608      \_\_\_TRA-1210

3:00 - 5:00 PM

\_\_\_ADM-110      \_\_\_OPE-906  
\_\_\_ARV-204      \_\_\_PED-1010(L)  
\_\_\_CRI-1108(L)      \_\_\_SPEC-1603  
\_\_\_HEA-609      \_\_\_TRA-1211  
\_\_\_MED-809

3:00 - 4:00 PM

\_\_\_ADM-111      \_\_\_MED-812  
\_\_\_CAR-407      \_\_\_OPE-907  
\_\_\_EDU-504      \_\_\_PED-1011  
\_\_\_MED-810      \_\_\_PED-1012  
\_\_\_MED-811

4:30 - 5:30 PM

\_\_\_ADM-112      \_\_\_LMGT-704  
\_\_\_ARV-205      \_\_\_MED-813  
\_\_\_ARV-206      \_\_\_MED-814  
\_\_\_CAR-408      \_\_\_PED-1013  
\_\_\_EDU-505      \_\_\_PED-1014  
\_\_\_EDU-506      \_\_\_TRA-1212

#### Thursday, November 9

8:00 AM - 5:30 PM

\_\_\_CRI-1101(L)      \_\_\_TRA-1201  
DAY 2\*              DAY 2\*

\_\_\_ADM-101(L)      \_\_\_MED-801  
DAY 2              DAY 1\*

8:00 - 5:00 PM

\_\_\_ADM-113      \_\_\_HEA-610  
\_\_\_ARV-207      \_\_\_PED-1015(L)

8:00 AM - 3:00 PM

\_\_\_EDU-507(L)      \_\_\_LMGT-705

8:00 - 11:00 AM

\_\_\_BLS-304

8:00 - 10:00 AM

\_\_\_PED-1016

8:00 - 9:00 AM

\_\_\_CAR-409      \_\_\_MED-816  
\_\_\_EDU-508      \_\_\_OPE-908  
\_\_\_HEA-611      \_\_\_PED-1017  
\_\_\_HEA-612      \_\_\_PED-1018(L)  
\_\_\_LMGT-706      \_\_\_TRA-1213  
\_\_\_LMGT-707      \_\_\_TRA-1214  
\_\_\_MED-815

9:30 - 11:30 AM

\_\_\_HEA-613      \_\_\_MED-817(L)  
\_\_\_LMGT-708      \_\_\_PED-1019(L)

9:30 - 10:30 AM

\_\_\_ADM-114      \_\_\_MED-818  
\_\_\_ADM-115(L)      \_\_\_MED-819  
\_\_\_ARV-208      \_\_\_PED-1020  
\_\_\_CAR-410      \_\_\_PED-1021  
\_\_\_CAR-411      \_\_\_PED-1022  
\_\_\_CRI-1109      \_\_\_TRA-1215  
\_\_\_CRI-1110      \_\_\_TRA-1216  
\_\_\_EDU-509      \_\_\_TRA-1217  
\_\_\_LMGT-709

10:00 AM - 12:00 PM

\_\_\_TRA-1218

11:00 AM - 12:00 PM

\_\_\_ADM-116      \_\_\_OPE-910  
\_\_\_CAR-412      \_\_\_PED-1023  
\_\_\_CAR-413      \_\_\_PED-1024  
\_\_\_CRI-1111      \_\_\_PED-1025  
\_\_\_EDU-510(L)      \_\_\_SPEC-1604  
\_\_\_EDU-511      \_\_\_SPEC-1605  
\_\_\_MED-820      \_\_\_SPEC-1606  
\_\_\_MED-821      \_\_\_TRA-1219  
\_\_\_MED-822      \_\_\_TRA-1220  
\_\_\_OPE-909

1:30 - 5:30 PM

\_\_\_ADM-117(L) \_\_\_PED-1026(L)  
\_\_\_ARV-209(L) \_\_\_TRA-1221  
\_\_\_MED-823(L)

1:30 - 4:30 PM

\_\_\_CRI-1112(L)

1:30 - 3:30 PM

\_\_\_BLS-305 \_\_\_PED-1027(L)

1:30 - 2:30 PM

\_\_\_ADM-118(L) \_\_\_OPE-912  
\_\_\_ADM-119 \_\_\_PED-1028  
\_\_\_CAR-414 \_\_\_PED-1029  
\_\_\_EDU-512 \_\_\_SPEC-1607  
\_\_\_EDU-513 \_\_\_SPEC-1608  
\_\_\_LMGT-710 \_\_\_SPEC-1609  
\_\_\_MED-824 \_\_\_TRA-1222  
\_\_\_MED-825 \_\_\_TRA-1223  
\_\_\_OPE-911

3:00 - 5:00 PM

\_\_\_ADM-120(L) \_\_\_LMGT-711(L)  
\_\_\_ADM-121\* \_\_\_MED-826  
\_\_\_CAR-415(L) \_\_\_PED-1030(L)  
\_\_\_CRI-1113 \_\_\_SPEC-1610  
\_\_\_HEA-614

3:00 - 4:00 PM

\_\_\_ADM-122 \_\_\_MED-828  
\_\_\_ARV-210 \_\_\_PED-1031  
\_\_\_CRI-1114 \_\_\_PED-1032  
\_\_\_EDU-514 \_\_\_TRA-1224  
\_\_\_MED-827(L) \_\_\_TRA-1225

4:00 - 5:30 PM

\_\_\_BLS-306

4:30 - 5:30 PM

\_\_\_ADM-123 \_\_\_EDU-515  
\_\_\_ARV-211 \_\_\_MED-829  
\_\_\_CAR-416 \_\_\_MED-830  
\_\_\_CRI-1115(L)

Friday, November 10

7:30 AM - 5:30 PM

\_\_\_RSC-1301(L) \_\_\_RSC-1302(L)  
DAY 1 DAY 1

8:00 AM - 5:30 PM

\_\_\_CRI-1101(L) \_\_\_MED-801  
DAY 3\* DAY 2\*

8:00 AM - 5:00 PM

\_\_\_PED-1033(L) \_\_\_TRA-1227(L)\*

\_\_\_TRA-1226(L)

8:00 AM - 3:00 PM

\_\_\_OPE-913(L)

8:00 AM - 12:00 PM

\_\_\_ARV-212(L) \_\_\_BLS-307

8:00 - 11:00 AM

\_\_\_OPE-914

8:00 - 9:00 AM

\_\_\_CAR-417 \_\_\_OPE-915  
\_\_\_CAR-418 \_\_\_OPE-916  
\_\_\_EDU-516 \_\_\_OPE-917  
\_\_\_EDU-517 \_\_\_PED-1034(L)  
\_\_\_HEA-615 \_\_\_TRA-1228  
\_\_\_MED-831 \_\_\_TRA-1229  
\_\_\_MED-832

9:30 - 11:30 AM

\_\_\_ADM-124 \_\_\_OPE-918

9:30 - 10:30 AM

\_\_\_ADM-125 \_\_\_OPE-920  
\_\_\_ADM-126 \_\_\_PED-1035  
\_\_\_CAR-419 \_\_\_PED-1036(L)  
\_\_\_EDU-518 \_\_\_PED-1037  
\_\_\_MED-833 \_\_\_SPEC-1611  
\_\_\_MED-834 \_\_\_TRA-1230  
\_\_\_MED-835 \_\_\_TRA-1231  
\_\_\_OPE-919

10:00 AM - 12:00 PM

\_\_\_ADM-127 \_\_\_CAR-420  
\_\_\_ARV-213 \_\_\_HEA-616

11:00 AM - 12:00 PM

\_\_\_ADM-128 \_\_\_MED-836  
\_\_\_ADM-129 \_\_\_OPE-921(L)  
\_\_\_ADM-130 \_\_\_OPE-922  
\_\_\_ARV-214 \_\_\_PED-1038(L)  
\_\_\_CAR-421 \_\_\_TRA-1232  
\_\_\_CRI-1116 \_\_\_TRA-1233(L)  
\_\_\_EDU-519 \_\_\_TRA-1234  
\_\_\_HEA-617

1:30 - 5:30 PM

\_\_\_ADM-131(L) \_\_\_ARV-215(L)

1:30 - 4:30 PM

\_\_\_ADM-132 \_\_\_TRA-1235(L)  
\_\_\_MED-837(L)

1:30 - 3:30 PM

\_\_\_BLS-308 \_\_\_OPE-923\*

1:30 - 2:30 PM

\_\_\_ADM-133 \_\_\_OPE-924  
\_\_\_ARV-216 \_\_\_OPE-925  
\_\_\_CAR-422 \_\_\_OPE-926  
\_\_\_CRI-1117(L) \_\_\_PED-1039(L)  
\_\_\_EDU-520 \_\_\_PED-1040  
\_\_\_HEA-618 \_\_\_SPEC-1612  
\_\_\_HEA-619 \_\_\_TRA-1236  
\_\_\_MED-838 \_\_\_TRA-1237  
\_\_\_MED-839

3:00 - 5:00 PM

\_\_\_ADM-134 \_\_\_CRI-1118(L)  
\_\_\_ARV-217(L)\* \_\_\_HEA-620  
\_\_\_CAR-423 \_\_\_LMGT-712

3:00 - 4:00 PM

\_\_\_ADM-135 \_\_\_MED-840  
\_\_\_ARV-218 \_\_\_MED-841  
\_\_\_CRI-1119 \_\_\_MED-842  
\_\_\_EDU-521 \_\_\_OPE-927  
\_\_\_EDU-522 \_\_\_PED-1041(L)  
\_\_\_HEA-621 \_\_\_TRA-1238  
\_\_\_LMGT-713 \_\_\_TRA-1239

4:30 - 5:30 PM

\_\_\_ADM-136 \_\_\_LMGT-714  
\_\_\_ADM-137 \_\_\_MED-843  
\_\_\_ARV-219 \_\_\_MED-844  
\_\_\_CAR-424 \_\_\_OPE-928(L)  
\_\_\_CAR-425 \_\_\_PED-1042(L)  
\_\_\_CRI-1120 \_\_\_TRA-1240  
\_\_\_CRI-1121 \_\_\_TRA-1241  
\_\_\_EDU-523

Saturday, November 11

7:30 AM - 5:30 PM

\_\_\_RSC-1301(L) \_\_\_RSC-1302(L)  
DAY 2 DAY 2

8:00 AM - 5:00 PM

\_\_\_OPE-929(L)

8:00 - 9:00 AM

\_\_\_ARV-220 \_\_\_LMGT-715  
\_\_\_CAR-426 \_\_\_MED-845  
\_\_\_CAR-427 \_\_\_MED-846  
\_\_\_CRI-1122 \_\_\_MED-847  
\_\_\_EDU-524 \_\_\_OPE-930  
\_\_\_EDU-525 \_\_\_OPE-931  
\_\_\_HEA-622 \_\_\_TRA-1242

9:30 - 11:30 AM

\_\_\_CAR-428 \_\_\_MED-848  
\_\_\_EDU-526

9:30 - 10:30 AM

\_\_\_ADM-138 \_\_\_MED-849
\_\_\_ARV-221 \_\_\_MED-850
\_\_\_CAR-429 \_\_\_MED-851
\_\_\_CAR-430 \_\_\_OPE-932
\_\_\_CRI-1123 \_\_\_OPE-933
\_\_\_CRI-1124 \_\_\_PED-1043
\_\_\_EDU-527 \_\_\_PED-1044
\_\_\_HEA-623 \_\_\_TRA-1243
\_\_\_LMGT-716 \_\_\_TRA-1244
\_\_\_LMGT-717

11:00 AM - 12:00 PM

\_\_\_ADM-139 \_\_\_OPE-935
\_\_\_CAR-431\* \_\_\_OPE-936(L)
\_\_\_CRI-1125 \_\_\_OPE-937
\_\_\_EDU-528 \_\_\_PED-1045
\_\_\_EDU-529 \_\_\_PED-1046
\_\_\_HEA-624 \_\_\_TRA-1245
\_\_\_LMGT-718 \_\_\_TRA-1246

\_\_\_MED-852 \_\_\_TRA-1247(L)
\_\_\_OPE-934 \_\_\_TRA-1248

1:30 - 2:30 PM

\_\_\_ADM-140 \_\_\_MED-853
\_\_\_CAR-432 \_\_\_MED-854
\_\_\_CRI-1126 \_\_\_MED-855
\_\_\_EDU-530 \_\_\_MED-856
\_\_\_EDU-531 \_\_\_OPE-938
\_\_\_HEA-625 \_\_\_PED-1047
\_\_\_HEA-626 \_\_\_TRA-1249
\_\_\_LMGT-719 \_\_\_TRA-1250
\_\_\_LMGT-720 \_\_\_TRA-1251

3:00 - 5:00 PM

\_\_\_CAR-433(L) \_\_\_OPE-939
\_\_\_EDU-532 \_\_\_OPE-940(L)
\_\_\_HEA-627 \_\_\_TRA-1252
\_\_\_MED-857

3:00 - 4:00 PM

\_\_\_ADM-141 \_\_\_MED-860
\_\_\_CAR-434 \_\_\_OPE-941
\_\_\_CRI-1127 \_\_\_OPE-942
\_\_\_EDU-533 \_\_\_PED-1048
\_\_\_MED-858 \_\_\_PED-1049(L)
\_\_\_MED-859 \_\_\_TRA-1253(L)

Sunday, November 12

9:00 - 11:00 AM

\_\_\_ADM-142 \_\_\_MED-862
\_\_\_ARV-222 \_\_\_MED-863
\_\_\_ARV-223 \_\_\_OPE-943
\_\_\_CRI-1128 \_\_\_PED-1050
\_\_\_MED-861

5. Please Select Youth Camp or Teen Camp (Limited to two children per camp):

- Youth Camp Child's Name, Date of Birth
Teen Camp Child's Name, Date of Birth

Emergency Contact Information for Rescue Camp Participants:

Primary Contact Name: (First) (Last)
Primary Contact Phone: ( )
Primary On-site Phone: ( )
Secondary Contact Name: (First) (Last)
Secondary Contact Phone: ( )
Secondary On-site Phone: ( )

6. Payment Information: Payment must accompany registration form.

Registrant's Name:

Enclosed is a check for \$ made payable to the Virginia EMS Symposium.

Mail paper registration and check to:
Virginia EMS Symposium
1944 Peters Creek Road NW
Roanoke, VA 24017-1613

\*All credit card payments must be submitted through the online registration process. For security purposes, credit card payments will not be accepted via mail.

Will you be attending the Governor's EMS Awards Reception, which will be held Saturday, November 11 at the Norfolk Waterside Marriott?
Yes or No
# of Guests (up to five additional)

## Three Day Courses Wednesday to Friday 8:00 AM - 5:30 PM

### CRI-1101 FPC Review Course

BLS CAT 2 / ALS Various/ 24.0 CEU  
Target Audience: ALS, Educators, MD, DO, RNs

Are you looking to recertify your FP-C or CCP-C? Or are you considering jumping into the critical care field. This course is for experienced providers, and will prepare you for the exam by reviewing Difficult Airway, Pediatrics, Cardiology, Obstetrics, Ultrasound, Hemodynamics, Advanced Medical Conditions, Labs, Advanced Medications, Neonatal Resuscitation and Transport, Central Line Management. All of this and more will be covered through advanced scenarios, interactive skills stations, and didactic sessions which enhance learning and retention of the material. Course is approved by the IBSC.

Instructor: Christina Martinka  
Co-Instructor(s): Ashley Brown, Jeremy Tate, Scott Marcosa, Sean Peintak

**Prerequisite:** *Current Paramedic or Nurse*  
**Limited to:** 30  
**Course Fee:** \$295.00

## Two Day Courses Wednesday to Thursday 08:00 AM - 05:30 PM

### ADM-101 EMS Officer I

BLS CAT 2 / ALS CAT 2 / 16.0 CEU  
Target Audience: ALS, Administrators, BLS, Educators

EMS Officer 1 is targeted for the entry-level officer serving as the Crew Leader or AIC. Upon successful completion of this course, the student will be able to effectively manage EMS agency operations and administration. Major topics covered in this course are: roles of the EMS Officer, facing compliance and accountability issues of the 21st century, recognizing and managing cultural diversity, safety/wellness, TQM, interfacing with the community and media at large, functional leadership, effective communications, incident management system(s) and managing MCIs. Students will need a computer. 24 CE Hours.

Instructor: Christopher M Vernovai  
Co-Instructor(s): Joe Coyle, Larry Oliver, Mike Garnett, Scott McCormack, Steve Powell

**Prerequisite:** - *Minimum age of 18 - Hold a current Virginia Certification of EMT or higher - No corrective action from EMS Agency, OMD,*

*or OEMS - Submit copies of NIMS 100, 200, 700, 800 certificates or FEMA/VDFP Transcript into the LMS - Review all online video presentations - Complete all homework assignments prior to class (approx. 7-8 hours) - Bring a computer/tablet with internet capability to class.*  
**Limited to:** 60

### TRA-1201 ASHI Wilderness Emergency Care

BLS CAT 2 / ALS CAT 2 / 16.0 CEU  
Target Audience: All

This course is designed for the EMS provider, scouting leader, and search and rescue personnel that will be providing care to a patient in the remote wilderness setting, i.e. camp, hiking, searching, etc. We will teach all types of medical and trauma care, including splinting, stretchers, meds and many more. We will discuss bandaging, trauma and improvising in the wilderness. There will be a lot of "On-the-Floor" skill, dress appropriately.

Instructor: Vernon M Frayser  
**Course Fee:** \$75.00

## Thursday to Friday 8:00 AM - 5:30 PM

### MED-801 Infection Control Basic Designated Officer Training Course

BLS 14 / ALS 19 / 16.0 CEU  
Target Audience: All

This two-day course is designed to prepare the attendee for assuming this important role. This individual is required for all emergency response agencies by Federal law (Ryan White Law- Part G). A course book is supplied to follow the training. This course includes testing laws, the Ryan White law, medical waste regulations, confidentiality, discrimination, job description, how to establish an effective communication system, proper post exposure medical treatment, record keeping and reporting requirements. This course also covers childhood diseases as well as meningitis and blood borne pathogens, COVID-19 and TB.

Instructor: Katherine H West  
Co-Instructor(s): James Cross, Jd  
**Prerequisite:** *The attendee should be selected by their department to serve as the Designated Infection Control Officer.*  
**Course Fee:** \$175.00

## Friday to Saturday 07:30 AM - 05:30 PM

### RSC-1301 Youth Camp

16.0 CEU  
Target Audience: Youth  
Rescue Camp for youth is a fast-paced and fun-filled session for children ages

8 to 12. Training covers CPR, water rescue, basic first aid, personal safety, as well as ropes and repelling or SCUBA Diving introduction. Rescue Camp is sponsored by the Fairfax County Fire and Rescue Department and the Virginia Office of Emergency Medical Services.  
Instructor: Todd I Barb  
**Limited to:** 30

### RSC-1302 Teen Rescue Camp

16.0 CEU  
Target Audience: Youth  
Rescue Camp for Teens is a fast-paced and fun-filled class designed for teens ages 13-17. Special emphasis placed on rescue operations to include vertical (ropes), water rescue operations and Emergency Medical First Aid skills. This is an interactive event designed for students interested in public safety careers. Class is limited to 15 teens. Classes meet Friday and Saturday. Registration required.

Instructor: James T Brendel  
Co-Instructor(s): Benjamin Dobrin, Teresa K Phillips  
**Limited to:** 15

## Wednesday Courses 8:00 AM - 5:00 PM

### ADM-102 Mass Casualty Incident Management Awareness and Operations

BLS CAT 2 / ALS CAT 2 / 8.0 CEU  
Target Audience: ALS, BLS, Dispatcher  
MCIM Module I Awareness will prepare students who are the first responders to a mass casualty incident to take appropriate initial control actions of the medical problem and perform the initial triage of patients. MCIM Module II Operations provides more in-depth information on managing mass casualties, including creating the medical command structure. A tabletop exercise helps practice the skills taught in the class.

Instructor: Samuel W Burnette  
Co-Instructor(s): Wayne Berry  
**Prerequisite:** *EMS Provider*  
**Limited to:** 24

### EDU-501 Simulation Scenario Development

BLS CAT 2 / ALS CAT 2 / 8.0 CEU  
Target Audience: Educators  
This is part three of the Fundamentals of Simulation series. In this segment, Certified Healthcare Simulation Educator and state CE educator, Bob Page will lead a workshop for participants to develop scenarios for use with simulation.

## Wednesday Courses

### 8:00 AM - 5:00 PM

The session begins with the andragogy of scenario development, such as learning objectives and relevant education theories. Then practical hands-on development of real scenarios using software from well-known simulator companies, led by experienced end users of various products, then try out your scenarios on the actual equipment. Bring your instructor computer to class.

Instructor: Robert E Page

**Limited to: 24**

#### **HEA-601 ResponderStrong Mental Health Curriculum Train the Trainer**

BLS 15 / ALS 20 / 8.0 CEU

Target Audience: All

This Train the Trainer workshop certifies attendees to present the ResponderStrong Mental Health Curriculum within their communities.

This content focuses on the physiology of stress, stress injury formation, suicidality among emergency responders, suicide awareness and prevention, and resilience.

Instructor: Rhonda Kelly

Co-Instructor(s): Hilary Gates

### 8:00 AM - 12:00 PM

#### **CAR-401 EMS Care for the VAD Patient**

BLS 12 / ALS 17 / 4.0 CEU

Target Audience: All

"EMS Care for the VAD Patient" is a hybrid presentation containing an overview of VAD including different VAD types and what to do as an EMS provider in the event you encounter one of these patients in the community, as well as breakout sessions with practical equipment overview and hands-on practice with all relevant equipment per device type.

Instructor: Melinda Seigh

#### **HEA-602 Crisis DeEscalation and Emergency Self Defense Tactics**

BLS 15 / ALS 20 / 4.0 CEU

Target Audience: ALS, Administrators, All, BLS, Dispatcher, Educators, MD, DO, RNs, Youth

This session covers crisis de-escalation for behavioral emergencies and mental health responses, emergency self-defense tactics for unexpected assaults, and practical de-escalation specific to EMS, including EMS related considerations and scenarios and

safety approaches and considerations. It also covers "Self-Defense," designed specifically for EMS personnel to respond to unexpected assaults on EMS. Self-Defense that is useable, pressure-tested, human and legally defensible. Includes lecture, practical scenarios, and hands-on practice.

Instructor: Thomas T Sasso

**Prerequisite: Wear Comfortable Clothing for "Hands-On" Practice of basic Self-Defense Tactics.**

**Limited to: 40**

### 8:00 AM - 11:00 AM

#### **ARV-201 The BLS Vent Ox Lab**

BLS 11 / ALS 16 / 3.0 CEU

Target Audience: BLS, Educators, RNs

This session will start with a lecture on oxygenation and ventilation, including the anatomy (airway geometry), mechanics, and chemistry behind it. We will then transition to hands-on stations that include ventilation, oxygenation, airway application, and BLS capnography. The student will also be able to walk away with a big-picture understanding of how and why different devices, procedures, and actions work.

Instructor: Christopher M Kroboth

Co-Instructor(s): Duane Tenney, Matt Wolkenbreit

**Limited to: 30**

### 8:00 AM - 9:30 AM

#### **BLS-301 BLS Academy Trauma**

BLS 13 / ALS CAT 2 / 1.5 CEU

Target Audience: BLS

This is the first class in the BLS Academy and satisfies the 1.5 hours required for the 2016 Trauma Category 1 (NCCR) Continuing Education requirements.

Instructor: Victoria C Lunceford

### 8:00 AM - 9:00 AM

#### **CRI-1102 Bringing the ICU to a Corn Field with Prehospital Vasopressors**

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: ALS, RNs

This session will cover a case review and current research review of the use of vasopressors prehospital, and will demystify the use of prehospital vasopressors for ground ALS and HEMS providers. We will also compare the use of push-dose vasopressors and infusions in the prehospital setting and discuss when, why, and how to pick the right vasoactive agent for the patient in front of you.

Instructor: Zachary J Leet

**Prerequisite: ALS provider**

#### **HEA-603 Foundations of Nutrition**

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: All

As an emergency responder, your schedule can affect how, what and when you eat. Because of this, food choices are often fast and convenient. In this class, we will discuss ways to improve your life and health through food, with simple tips for making healthier choices on and off shift.

Instructor: Marquita Whisonant

#### **LMGT-701 Mind, Body and Soul: The Prepared Leader**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

This session takes a look at why it is essential for a leader to set the right example and always be ready to face the challenges of leadership by making sure you have your own house in order. The presentation will look at the importance of keeping your mind, body, and soul prepared to be the leader that you need to be at home and on the street for your families.

Instructor: Allen W Baldwin

#### **LMGT-702 Is Retention as Simple as Childs Play? Healing our Organizations with the Simplest of Building Blocks**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, All, BLS, Dispatcher, Educators, MD, DO, RNs, Youth

What would it be like if a toddler ran your agency? What are we missing that contributes to turnover and difficult recruitment efforts? Children know much more than we do about what's most important in life. Let's explore life's simplest building blocks and apply the lessons of child's play to increasing morale, improving retention, and building stronger community-focused organizations.

Instructor: Kayla W Long

#### **OPE-901 The Art of Assessment**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

The art of assessment is vital to triaging and treating patients in prehospital medicine, with healthcare and hospitals increasingly burdened by an aging population. It is now more critical than ever for prehospital providers to triage more efficiently to prevent adverse outcomes in the patient care continuum. This discussion focuses on improving assessment skills through case studies by reevaluating the old-age techniques of physical assessment and history taking.

Instructor: Yasmin Ahmady

## Wednesday Courses

8:00 AM - 9:00 AM

### **PED-1001 The First 28 Days, Understanding and Caring for the Neonatal Patient**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, Dispatcher, Educators, MD, DO, RNs

We commonly think of only having to deal with neonates during the dreaded field delivery call, but there are a number of other reasons a parent may call 911 for their baby. This presentation is designed to help medical professionals of all levels understand the basics of the neo-natal population and explore common reasons you may encounter a neonate in the field. Discussion topics will include basic assessment of the term and premature neonate, respiratory distress, seizures, sepsis, and recognizing and caring for infants with cardiac anomalies.

Instructor: Sarah Putnam Curry

### **PED-1002 They Just Need TICLS**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, All, BLS, Educators, RNs

Yet another mnemonic in EMS! Getting more comfortable with pediatrics will help you make decisions during critical calls. What is normal? What is not? Why is it different than adult assessments? This course uses case studies to practice the art of using the pediatric assessment triangle and the TICLS mnemonic (tone, interactiveness, consolability, look/gaze, and speech/cry) in deciding whether a patient is sick or not sick and what you need to do next.

Instructor: Valerie A Quick

### **PED-1003 What the Heck is a PECC?**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Educators, MD, DO, RNs

Critically ill or injured children represent less than one percent of EMS calls in the US. Ongoing training and resources are the keys to successful preparation for pediatric emergencies. The National Emergency Medical Services for Children program is encouraging the development of Pediatric Emergency Care Coordinators for EMS agencies and Emergency Departments. This session will offer an overview of the process to become a PECC for your department or agency. We will share results from an agency that has implemented this strategy to improve Pediatric patient care.

Instructor: Kelley C Rumsey

### **TRA-1202 Tactical Medic, Back to Basics**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Educators, MD, DO, RNs

The FBI provides training and education for its SWAT medical operators. Over time, we realized that the level of EMT required for initial SWAT medics wasn't necessary. In 2016 we changed our initial/introductory SWAT medical training level from EMT to EMR. In a short period of time, we realized that medical operators are providing better care and are also more focused. The switch also allows for easier recertification, higher retention of medics, and a more cost-efficient process. This presentation discusses how going back to basics works for us.

Instructor: Michael F Biamonte

### **TRA-1203 Extremes in Trauma the Geriatric and Pediatric Patient**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, RNs

We all know kids are not just small adults, or, are they? We are all taught that pediatric patients are not just small adults. For many reasons this is indeed true. However, let's look at the general responses to trauma in both the Geriatric and Pediatric patient. Their similarities may just surprise you!

Instructor: Dusty Lynn

### **TRA-1204 ATVs, UTVs, and ROVs: Let's Stop Unsafe Behaviors**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: All

ATVs, UTVs, and ROVs present a twofold problem for EMS agencies. First, rural agencies use these vehicles to access and transport patients from inaccessible locations. Metropolitan agencies use these vehicles during special events. Operator behavior is the key to safety. Additionally, agencies responded to an increased number of incidents involving these types of vehicles in 2021. During this session, we'll talk about common injury patterns, prehospital management, and transport from remote scenes.

Instructor: Kern L Watson

9:30 AM - 11:30 AM

### **HEA-604 Vicarious Trauma and Building Resilience for the EMS Professional**

BLS 15 / ALS 20 / 2.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, Educators, MD, DO, RNs

EMS continues to rank as one of the most stressful jobs in the United States (Sporer,

2021). Vicarious trauma is defined as the emotional residue of exposure to traumatic stories and experiences of others through the healthcare response; witnessing fear, pain, and terror that others have experienced (American Counseling Association, 2016). This training will address stigma surrounding vicarious trauma, skill building to help support the EMS professional, and how to advocate for systems change.

Instructor: Marquita Whisonant

Co-Instructor(s): Carol Olson

### **HEA-605 Real Stories of EMS Safety**

BLS 15 / ALS 20 / 2.0 CEU

Target Audience: ALS, BLS, Dispatcher, RNs

We read accounts of EMS responders injured in the line of duty, and our smugness tells us, "it won't happen to me." We thought the same thing in our department. This emotional presentation will look at lives impacted by common, run-of-the mill events in our EMS life and how our department was impacted. The results of these incidents have left permanent scars on those involved, their co-workers, and their friends. It's even more personal when it's family.

Instructor: Frederick Haas

### **MED-802 Best Practices for Pain Management in Prehospital Medicine**

BLS 14 / ALS 19 / 2.0 CEU

Target Audience: All

Have you wondered what the most appropriate medication for a patient in pain is? Indeed, it cannot always just be Fentanyl. This discussion introduces the topic of managing pain in the prehospital setting and which medication is most effective for patients' pain based on their condition. How do you know when to give Fentanyl, Ketamine, Ketorolac, or simply acetaminophen? What does the most recent evidence suggest for pain management in prehospital medicine? Let's explore the medication toolbox through case studies and apply it most appropriately.

Instructor: Yasmin Ahmady

9:30 AM - 10:30 AM

### **ADM-103 How to Read Research Like a Boss**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

We always hear that EMS should be more evidenced-based, but what does that even mean? How do we find this evidence? How do we determine if the latest study really supports a change in our practice or not?

## Wednesday Courses

### 9:30 AM - 10:30 AM

Join Dr. Tony Fernandez as he describes how he identifies new studies, evaluates them, and determines if they contain sufficient evidence for practice change.  
Instructor: Christopher Montera

#### **CAR-402 Stroke Recognition Treatments and Virginia's Response**

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: All

The purpose of this session is to discuss stroke statistics, stroke risk factors, stroke recognition from the EMS perspective, current treatments for stroke, and Virginia's response to improving stroke outcomes.

Instructor: Kathryn Funk

#### **CAR-403 We Have a Pulse Now the Real Work Starts**

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: ALS, RNs

We've got a pulse; now the real work starts. ACLS is easy when they don't have a pulse. But ACLS does not prepare most providers for the first 30 minutes of ROSC. A presentation on ROSC management for ground ALS and HEMS providers. Discussion on how to keep a pulse and make it to the appropriate facility in a timely matter. Case reviews of HEMS ROSC patients. There will be discussion on how the etiology of arrest can provide a plan to prevent re-arrest in the prehospital ROSC patient.

Instructor: Zachary J Leet

**Prerequisite: ACLS**

#### **CRI-1103 Hard Stick! Ultrasound Guided Peripheral IVs for EMS**

BLS CAT 2 / ALS 19 / 1.0 CEU

Target Audience: ALS, MD, DO, RNs

Is your agency considering, or already using ultrasonography? Join us for a session on yet another use for EMS' newest tool. Ultrasound-guided peripheral IV insertion is increasingly common in healthcare settings and can greatly benefit the patient who is a "difficult stick".

In this session, we'll review the indications and use cases for ultrasound-assisted PIV insertion. We will also demonstrate how the tools and techniques are different from traditional peripheral IV insertions. We'll also review the complications and contraindications of the procedure.

Instructor: Kern L Watson

#### **LMGT-703 Leading From The Front, Command and Leadership Lessons from Patton**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Leading From The Front: Command and

Leadership Lessons from General Patton, one of the country's greatest military leaders, who lead from the front with great command and leadership presence. The presentation will look at Patton's leadership style and what lessons we as Emergency Services leaders can learn from it to better lead from the front!

Instructor: Allen W Baldwin

#### **MED-803 Considering Obesity in Emergency Medical Care**

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: All

Though recognized by public health professionals everywhere as an important health crisis facing our nation, obesity rates are increasing at alarming rates. Join us as we explore the many unique challenges we face when treating patients suffering from obesity: from stigma to obesity-related diseases, to the management of these patients during emergent situations. Leave judgement at the door and open your mind to a new appreciation for how we care for patients with one of the most common diseases that we encounter, and yet rarely acknowledge.

Instructor: Kayla W Long

#### **MED-804 Whole Blood Transfusion**

BLS CAT 2 / ALS 19 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Educators, MD, DO, RNs

PHI AirMedical is among the very first civilian EMS agencies in the country to carry low titre O+ whole blood for transfusion to those in hemorrhagic shock. This lecture reviews our extensive experience with this important intervention. We review the clinical indications for whole blood and present illustrative case studies. We will review lessons learned from the implementation of blood product transfusion to prehospital protocols. We will also review the ongoing efforts to secure whole blood for EMS throughout Virginia. Ample time for questions and discussion.

Instructor: Asher Brand

#### **PED-1004 ROSC After Pediatric Cardiac Arrest Now What?**

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience: ALS, BLS, Educators, RNs

We've Got ROSC!!!! Now what? The adrenaline runs high during a pediatric code. The focus is all about return of spontaneous circulation. Once that occurs, what happens when we do get ROSC? Here is a priority-driven look at post-resuscitation care and how we should focus our efforts after the goal of spontaneous circulation has been achieved. We will also briefly discuss

the care of the child with congenital heart disease. Though this has a strong in-hospital focus, the EMS provider will also benefit.

Instructor: Dusty Lynn

#### **TRA-1205 Mass Matters but Speed Always Wins**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, RNs

This lecture will review the core principles of physics and how they apply to various types of injuries. Understanding mechanisms of injury will assist the provider in anticipating injury patterns. Thermal, electrical, blunt, and penetrating mechanisms will result in varying patterns of injury. Early consideration of the injury pattern will allow the provider to initiate the most appropriate treatment strategies for the patient. Injury patterns are often linked to the patient's age and stage of life. These factors will be considered in planning treatment.

Instructor: Kelley C Rumsey

#### **TRA-1206 Putting on the Foil, Common Care of Ice Hockey Injuries**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, RNs

This class is focused on the care of traumatic injuries a hockey player might experience while on the ice. The one-hour presentation will cover the vast amount of high mechanism injuries providers may encounter while responding to an ice rink in their service area. Participants will learn about the equipment used in the sport and how to remove it while treating players in emergency situations as well as how to use the players own equipment to their advantage.

Instructor: Andy Backowski

#### **TRA-1207 Mishaps in Trauma**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: All

Everyone makes mistakes, but it's better if we can learn from others mistakes! We will go through multiple cases of providers decision-making when caring for the injured. What worked, what didn't work, what should we slightly change, and what we should never do again! But keep an open mind; sometimes we do what we think is best until we have the evidence that we should do something different!

Instructor: Valerie A Quick

## Wednesday Courses 10:00 AM - 12:00 PM

### **BLS-302 BLS Academy Operations, Part 1**

BLS 15 / ALS CAT 2 / 2.0 CEU

Target Audience: BLS

This is the second class in the BLS Academy and satisfies 2 hours of the required 5 hours for the 2016 Category 1/NCCCR CE requirements.

Instructor: Victoria C Lunceford

### **CRI-1104 Salt Water is for Cooking Pasta! The New Theory of Damage Control Resuscitation for Traumatic Injury**

BLS CAT 2 / ALS 18 / 2.0 CEU

Target Audience: ALS, Educators, MD, DO, RNs

The traditional approach to trauma resuscitation is founded in these of crystalloids. However, recent advances in trauma have shown us that this approach is not only ineffective but may be detrimental to the patient. Instead, remote Damage Control Resuscitation, a new approach to prehospital resuscitation that focuses on the lethal triad of trauma, including blood product transfusion, limited use of crystalloid, permissive hypotensive resuscitation until bleeding control is achieved, empiric use of tranexamic acid, prevention of acidosis and hypothermia, and correction of hypocalcemia is showing survival benefits.

Instructor: E. Reed Smith

### **HEA-606 A Systems Approach to Resiliency**

BLS 15 / ALS 20 / 2.0 CEU

Target Audience: All

A famous quote states, "90% of the game is mental". This training identifies the latest evidence-based training in personal resiliency, neuroscience research, and sports performance psychology. This training will provide practical demonstrations of tactics, strategies, and proven everyday mental performance skills, that will enhance and sustain emergency incident operations throughout a first responders career.

Instructor: Barry Jacobs

### **PED-1005 Pediatric Resuscitation Simulation: Coding Kids Beyond PALS**

BLS CAT 2 / ALS 17 / 2.0 CEU

Target Audience: ALS, BLS, Educators, MD, DO, RNs

Do you feel uncomfortable when having to resuscitate a pediatric patient? Are you wanting to learn more about pediatric codes to better prepare yourself? This course is designed

to hone your skills and expand your knowledge for these infrequent but demanding and stressful encounters of pediatric codes. The course is a two-part hands-on activity: four rotating stations addressing essential parts of a pediatric code, followed by a participant hands-on simulation code run by pediatric emergency medicine physicians.

Instructor: Sam Bartle

**Limited to: 12**

## 11:00 AM - 12:00 PM

### **ADM-104 Electronic Health Record**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Electronic Health Record: The session will include user training on EHR, an understanding of the implementation, and the full use cases for EHR. Presented by Darin Inda, CCEPT, EMS IC.

Instructor: Christopher Montera

### **ADM-105 Mass Fatality Operations in the Commonwealth of Virginia**

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, Educators, MD, DO, RNs

In this presentation, the audience will learn about the Virginia Office of the Medical Examiner's daily operations, which include Medico-legal death investigations, prevention, preparedness, and information intelligence. In addition, the audience will learn in detail about OCME's responsibilities in a mass fatality event. The presentation will include a summary of mass fatality events nationwide and statewide, as well as the most likely incidents that VA may encounter. Lastly, the audience will learn about the limited role of OCME in a pandemic and some lessons learned.

Instructor: Perla Santillan

### **ADM-106 EMS Vehicle Inspection, Everything You Need to Know**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Everything you need to know about EMS vehicle inspections. What equipment is required to be on an EMS Vehicle? What common problems cause an EMS vehicle to be not be permitted or suspended? Find the answer to these and many more of your questions regarding EMS vehicles. This is a great class for everyone from new members to senior agency leadership, especially if your agency has an upcoming inspection! Hosted by the Regulation and Compliance Enforcement Division of the Virginia Office of EMS.

Instructor: Chad M Gregg

### **CAR-404 Stroke Usual Unusual Neurologic Syndromes: Things That Make You Go Hmmm**

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: All

The purpose of this presentation is to discuss various common neurological syndromes such as Migraines, Bell's Palsy, and Parkinson's Disease, as well as less common ones such as Guillain-Barre', myasthenia gravis, or Horner's Syndrome by comparing and contrasting syndromes, using case studies.

Instructor: Kathryn Funk

### **HEA-607 Friday Night Lights! Providing EMS for Special Events**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

The football standby, the street festival, a youth soccer tournament-EMS providers and agencies routinely provide coverage for special events. We will discuss how to plan for these standbys using the mnemonic PAWS (People, Activity, Weather, Sectors) and ICS. We'll talk about common EMS standby types and discuss common chief complaints associated with those. Unlike traditional 911 calls, many standby patients will not require transport. Special protocols may be needed for events. There will also be a group discussion of "worst-case" scenarios.

Instructor: Kern L Watson

### **MED-805 Don't Open That Door!! EMS Provider Role in Chemical Suicides**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, Dispatcher, RNs

Chemical Suicides are an up-and-coming threat to our EMS providers. This one hour lecture will help the provider assess the risk and recognize clues that may or may not be apparent in their response. The goal of this is to raise awareness so we all go home at the end of our shift.

Instructor: Andy Backowski

### **OPE-902 Let's Think about How We Think! Evaluating Cognitive Bias in our Medical Decision Making**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, All, BLS, Dispatcher, MD, DO, RNs

Remember the teaching, "You Don't Diagnose" in EMS? Well, we certainly have to make some clinical judgments to choose appropriate treatment pathways. Yet, our clinical decision-making can be clouded by natural mental shortcuts that influence our thoughts.

## Wednesday Courses 11:00 AM - 12:00 PM

Join us for this exploration of cognitive bias and its role in clinical decision-making; because once we acknowledge that these cognitive biases exist and become self-aware, we can open our minds to more objective decision-making. Instructor: Kayla W Long

### **PED-1006 Pediatric Traumatic Brain Injuries**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, Dispatcher, Educators, MD, DO, RNs

This is a presentation on pediatric traumatic brain injuries (TBI), focusing on patients with severe traumatic injuries. Within the presentation, there will be a discussion of trends in pediatric patient mortality, basic review of TBI pathophysiology, review of data regarding hyperosmolar therapy, and discussion of the choice of medication used for rapid sequence intubation in this patient population.

Instructor: Theodore R Parks

### **PED-1007 Pediatric Trauma, Cases Through the Ages**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, Educators, MD, DO, RNs

Injury is the leading cause of death in children. Encounters with critically injured children are not common for EMS providers. A review of complex and challenging cases will provide the knowledge and tools to help you effectively manage your next pediatric trauma case. Special considerations, such as developmental level and the need for unique resources, will be explored.

Instructor: Kelley C Rumsey

### **SPEC-1601 Mobile Integrated Healthcare Community Paramedicine Roundtable**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Mobile Integrated Healthcare and Community Paramedicine (MIH-CP) is one of the biggest concepts to come to EMS in decades. Join moderator Tim Perkins in a panel discussion with providers, agency directors, and operational medical directors about MIH-CP. What makes for a successful system, what do providers need to know from a clinical perspective, and how MIH-CP can be implemented in your community will be among the topics discussed.

Instructor: Tim Perkins

### **TRA-1208 All Choked Up! Dealing with Strangulation in the Prehospital Setting**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: All

In this lecture, we will learn about the anatomy of the neck and throat, what injuries can occur from strangulation, how to recognize a patient that has been strangled, how to assess and treat strangulation injuries, and how to document the injuries for possible litigation. As the provider (ALS or BLS) you will leave this lecture feeling more confident in handling potential domestic violence issues and the treatment of these patients.

Instructor: Tamara A Robinson Moss

## 12:00 PM - 1:15 PM

### **ADM-107 OEMS Opening Ceremony with Keynote Address**

BLS CAT 2 / ALS CAT 2 / 1.5 CEU

Target Audience: All

Please join the Office of EMS Executive Director Gary Brown and OEMS staff as we welcome you to the 43rd Annual Virginia EMS Symposium. A keynote address will be delivered. Speaker to be announced at a later date. Lunch will be served and registration is required.

Instructor: Deborah T Akers

## 1:30 PM - 5:30 PM

### **ARV-202 Airway Techniques for the BLS Provider**

BLS 11 / ALS 16 / 4.0 CEU

Target Audience: ALS, BLS

Airway management techniques are of low-frequency high-risk encounters for EMS providers. This session will provide a review of airway anatomy and BLS airway management techniques. Students will have a chance to practice hands-on with BLS airway techniques to include 1-2 person BVM ventilation, OPA/NPA, suctioning techniques, and using various supraglottic airways.

Instructor: Jeremy Wampler

Co-Instructor(s): Rebecca Anhold, Aaron Bunch, Joshua Wimer

**Limited to: 24**

### **BLS-303 BLS Academy Medical, Part 1**

BLS 14 / ALS CAT 2 / 4.0 CEU

Target Audience: BLS

This is the third class in the BLS Academy and satisfies 4 hours of the required 6 hours for the 2016 Category 1/NCCR CE requirements.

Instructor: Victoria C Lunceford

### **CAR-405 EMS Care for the VAD Patient**

BLS 12 / ALS 17 / 4.0 CEU

Target Audience: All

"EMS Care for the VAD Patient" is a hybrid presentation containing an overview of VAD including different VAD types and what to do as an EMS provider in the event you encounter one of these patients in the community, as well as breakout sessions with practical equipment overview and hands-on practice with all relevant equipment per device type.

Instructor: Melinda Seigh

### **CRI-1105 Ultrasound Education for the Prehospital Provider**

BLS CAT 2 / ALS 19 / 4.0 CEU

Target Audience: ALS, Educators, MD, DO

This course is designed to introduce the prehospital ALS provider the role of using ultrasound technology. This course will teach the fundamental principles of how an ultrasound works and how this technology can aid in the diagnosis and treatment of prehospital patients. Part two of this course will teach providers hands-on techniques for using portable ultrasound technology.

Instructor: Michael J Vitto

**Limited to: 30**

### **PED-1008 NRP for the Prehospital Provider**

BLS 14 / ALS 19 / 4.0 CEU

Target Audience: ALS, BLS, MD, DO, RNs

Prehospital Care of the Neonate awards the same certification as standard NRP class; the difference is that the focus is on neonatal births and resuscitations that occur outside of the delivery room. Scenarios, skills stations, and discussions are geared toward deliveries that occur in an austere environment. **THERE IS ONLINE WORK THAT MUST BE DONE PRIOR TO CLASS** so once registration has been approved, please follow instructions carefully. Class size is very limited, and registration will close two weeks prior to class.

Instructor: Dusty Lynn

Co-Instructor(s): Alix Paget-Brown MD, Elizabeth Scott NNP, Sarah Curry NNP

**Prerequisite: All participants should complete the appropriate online portion of the AAP NRP Course Program prior to class.**

**The evidence of completion certificate will be required for class entry. <https://nrplearningplatform.com/>**

**Limited to: 20**

## Wednesday Courses

### 1:30 PM - 03:30 PM

#### **OPE-903 Running with the Herd**

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

Target Audience: All

Running with the herd explores how individual performance affects teamwork and overall scene performance. Running with the herd examines the contributing factors to individual performance, critical decision-making, situational awareness, and mental clarity to address effective team performance and emergency scene management. RWH addresses contributing factors that support effective communication, decision-making and emotional regulation. Each participant will have the opportunity to practice individual and team skills during practical exercises.

Instructor: Barry Jacobs

### 1:30 PM - 2:30 PM

#### **ADM-108 ESO Admin, Personnel Management, EHR**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

This session will explain how to use Admin in ESO, how to connect your data to your local hospital, how to make sure your crews are listed in Admin, and how to use the Personnel Management module in ESO.

Instructor: Christopher Montero

#### **ADM-109 Durable Do Not Resuscitate DDNR Regulatory Update 2023**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Educators

Are you up to date with Virginia's Durable Do Not Resuscitate regulations? This class will review the Virginia Administrative Code (12VAC5-66) DDNR Regulations so you have a current understanding of what is required by regulations in caring for a prehospital patient in Virginia that has a DNR. The class will provide time for a discussion group as well as a Q&A session. Official DDNR Virginia Office of EMS approved DDNR jewelry and ordering information will also be available. Come join us and have all your DDNR questions finally answered!

Instructor: Ronald D Passmore

#### **ARV-203 Evidence-Based Guidelines for Prehospital Airway Management**

BLS 11 / ALS 16 / 1.0 CEU

Target Audience: ALS, BLS, MD, DO, RNs

The practice of airway management in the prehospital environment is one of the most challenging for EMS clinicians and most important for our patients. Practices constantly evolve, and recently they have received increased attention. This presentation will review a set of evidence-based guidelines for airway management developed using a formal development tool based on the existing literature and evidence base.

Instructor: George Lindbeck

#### **CAR-406 Use of Epinephrine in Out-Of-Hospital Cardiac Arrest and Its Impact on Neurological Outcomes**

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience: ALS, BLS, Educators, MD, DO, RNs

Approximately 17 million people suffer cardiac arrest every year, half of which are associated with tachydysrhythmias. To revert tachydysrhythmias certain early interventions must occur, including prompt dispatch/T-CPR, HP-CPR, and early defibrillation. ACLS guidelines recommend epinephrine to treat these rhythms. Recent studies challenge the benefits of epinephrine dosage, timing of administration, and even its use during cardiac arrest. In this session, we will review the principles of epinephrine, its use during cardiac arrest, and the impact it has on patients' neurological outcomes.

Instructor: Luis M Pinet Peralta

#### **CRI-1106 RSI - and the SAFER Airway Approach**

BLS CAT 2 / ALS 16 / 1.0 CEU

Target Audience: ALS, Educators, MD, DO, RNs

RSI commonly precipitates hypotension and hypoxia. In many of our patients, this can be devastating, especially those with TBI. Strategies to prevent this serious adverse side effect are emerging. For example, addressing preload issues prior to RSI, use of push dose pressors, modifying drug regimens. Additionally, a portion of the talk will be dedicated to discussing ways to reduce the risk of ARDS and VAPS in our intubated patient populations. The SAFER Airway approach is discussed in detail; it is an organized approach to prevent hypoxia and hypotension.

Instructor: Asher Brand

#### **CRI-1107 Anticoagulants and Their Implications "To Bleed or not to Bleed"**

BLS CAT 2 / ALS 19 / 1.0 CEU

Target Audience: ALS, Educators, RNs  
The numbers of patients on anticoagulants now that are seen in our nations Emergency Rooms is rapidly growing. Anticoagulation is used for anything from atrial fibrillation to coronary artery disease, to daily use in our nation's hospitals for DVT prophylaxis. This topic will cover the basics of how the numerous medications work and the implications associated with patient care in a case-based approach, including ways to mitigate and/or reverse their effects on our patients who are suffering from hemorrhage.

Instructor: William C Ferguson

#### **EDU-502 Entry Level Competency the Great Debate**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Administrators, All, Educators

This interactive and informative session will discuss entry-level competency and establishing program educational minimum standards. The term entry-level competency is often utilized with limited ability to define its meaning with regards to evaluations used in EMS Education. The importance of having a working definition and standard among educators will be discussed in relation to achieving cohesiveness and consistency in expected provider readiness upon course completion. Discuss strategies for meeting stakeholders needs in a time of increased workforce shortages while not holding students to unrealistic expectations.

Instructor: Darla W Boseman

#### **EDU-503 Sparking the Mind - Ideas for Getting the Brain Prepped for Learning**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Educators, MD, DO, RNs

This interactive course will cover tools and activities that are easy to make and even easier to deploy. All are centered around priming your learners for their in-class or hands-on sessions. Think of it as warming up before a game. You will walk away with tools and concepts that will help make your sessions more relatable and retainable, along with increasing end-learner engagement.

Instructor: Christopher M Kroboth

#### **HEA-608 Stress and Nutrition**

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: All

Stress has a huge impact on our overall health and well-being.

## Wednesday Courses

1:30 PM - 2:30 PM

As an emergency responder, your body's stress response can be activated for extended periods of time. In this class, you will learn the connection between stress and how the foods you choose can influence its effects on your body and health as a whole.

Instructor: Marquita Whisonant

### **MED-806 Public Access Naloxone-Saving Lives or Rewarding Dangerous Behavior?**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, Educators  
After administering naloxone, isn't the patient going to become aggressive and violent? Can EMS sign refusals on patients following naloxone administration? Is public access to naloxone a temporary fix for a bigger problem or a real solution to this epidemic? These are just some of the current dilemmas facing EMS providers, who are on the front lines in the fight against opioid abuse. By asking controversial questions and diving headfirst into the data, the impacts of public access to naloxone can be evaluated.

Instructor: Michael Kaduce

### **MED-807 Seize the Day: Updates on Seizure and Pseudo Seizure Management**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS

Seizures can be scary for even the most experienced EMS provider. This course will help you to learn when to intervene and when to watch and wait. We will discuss some famous seizure patients and their emergency management. Discussion will include emergency seizure management, review of common seizure medications, and recognition and treatment of pseudo seizures.

Instructor: Traci A Wakefield

### **MED-808 Follow the Science, Incorporating Medical Evidence into EMS Practice**

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: ALS, BLS, Educators, MD, DO, RNs

The practice of Emergency Medical Services continues to evolve as scientific studies describe improvements. Incorporating the latest science into EMS practice can be challenged by complex studies, limited access to journals, and confusing results. Accreditors expect courses to be based on current science; manufacturers bring up studies; and web articles bring

up various sources. Most EMTs and paramedics have limited experience evaluating medical evidence. This session will provide easy-to-use tools that can resolve common challenges and help us think critically about the scientific basis for our practice.

Instructor: Mark Terry

### **OPE-904 How Do I Preserve my Scene? Forensics in EMS**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, BLS

In this lecture, you will learn how to recognize a potential crime scene, understand the responsibilities of EMS personnel when responding to a crime scene, and how to collect potential evidence and documentation for possible litigation. Students will gain knowledge to ensure that patients' interests in the criminal justice system are protected. Along with appropriate medical care, ultimate outcomes in the criminal justice system can be an important factor in a victim's emotional recovery.

Instructor: Tamara A Robinson Moss

### **OPE-905 Ethics in EMS Sex, Drugs and Cell Phones**

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: All

Updated for 2023! Three common ways EMS providers get into trouble—Sex, drugs, and cell phones! As EMS providers, our education focuses on questions about consent, abandonment, and patient refusals. The very nature of EMS professionals - creates many layers of ethical conflict that cut across all our organizations. This session takes a look at the broader aspects of EMS ethics, and discusses how we might manage and identify potential conflicts. Using five case studies, we'll learn how to promote positive ethical change in your organization without killing the fun.

Instructor: Kern L Watson

### **PED-1009 Pediatric Abdominal Injuries**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, Educators, MD, DO, RNs

The lecture will be on traumatic pediatric abdominal injuries. Discussion includes a brief review of anatomy and epidemiology, followed by case examples of various traumatic abdominal injuries with photographs of exam findings, ultrasound findings, and abdomen/pelvis CT findings. The lecture will also include a brief review of the CHOR VCU trauma guidelines for the management of these patients.

Instructor: Theodore R Parks

### **SPEC-1602 Community Paramedicine Is a Bunch of BLS**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Don't overlook your EMTs while staffing your CP/MIH teams. The majority of outreach referrals start at a "resource" level. Why is the individual always calling 911 that the hospital can't solve it? Is the home in deplorable conditions making it unsafe for residents and first responders? These types of situations do not require an ALS approach. EMTs who are well trained, and have the ability to network with outside agencies, and show compassion to those in need make for valuable team members.

Instructor: Alicia M Dinkeldein

### **TRA-1209 The Call No One Wants to Get**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: All

How do you respond when you know that call is going to be traumatic? Or reminds you of a similar call that didn't go well? Foundational knowledge on trauma-informed care is critical to providing a safe and compassionate culture for trauma victims and avoiding re-traumatizing the patient. This presentation will dive into a personal account of sexual assault and provide the learner with an understanding of how trauma impacts the patient and first responder, and how to create a trusting relationship with a trauma victim.

Instructor: Carrie Manke Weiss

### **TRA-1210 What's on the Line? Fall and Suspension Injuries on Rope**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS

What happens when someone falls while on rope and their belay device functions PROPERLY? How long can they remain suspended after a fall? This presentation focuses on injuries that may occur from falls and suspension while still attached to a rope. By assessing the kinematics of trauma, including the fall distance, harness type, attachment point, and hardware factors, we can determine likely injuries and extraction strategies, as well as manage potentially lethal effects of prolonged suspension.

Instructor: Douglas M Hexel

## Wednesday Courses

### 3:00 PM - 5:00 PM

#### **ADM-110 The Names Have Been Changed to Protect the Guilty - Presented by the Regulation & Compliance Enforcement Division**

BLS CAT 2 / ALS CAT 2 / 2.0 CEU  
Target Audience: ALS, Administrators, BLS, Educators, MD, DO  
Join us for this session and have all of your EMS regulatory and compliance-related questions answered. Remembering that as a certified EMS provider or licensed EMS agency, an understanding of EMS regulations is expected, and compliance relies on your understanding. Learn what is myth, wives tails, or fact regarding EMS regulatory interpretation. Learn when to reach out to your Field Investigator/Program Representative from Regulation and Compliance for assistance and guidance. Compliance case reviews (non-identifying) will be utilized for illustration.

Instructor: Ronald D Passmore

#### **ARV-204 Capnography for the Other Guys**

BLS 11 / ALS 16 / 2.0 CEU  
Target Audience: ALS, BLS, Educators, RNs  
We all know “shark fin” and keep it above 10 during CPR, but when was the last time you were taught or used capnography for evaluating metabolism and perfusion. Do you titrate your interventions using capnography? This interactive case-based workshop will take a deep dive into capnography’s critical use in evaluating and trending the patient’s metabolic and perfusion status. We will go through case-based scenarios with treatments and medications and their effects on the patient and EtCO<sub>2</sub>.

Instructor: Christopher M Kroboth

#### **CRI-1108 Pluck Dissection Lab**

BLS CAT 2 / ALS 17 / 2.0 CEU  
Target Audience: ALS, BLS, Educators  
Why does the lung tissue feel spongy? What do the heart valves look like? What are the differences between the vena cava and the aorta? Why doesn’t the pericardium expand? Why does air flow out of an injured lung, but not back in? Through directed dissection, the participants will explore the structure and function of the heart and lungs to understand the pathophysiology of certain conditions.

Instructor: Jonathan Adam Alford

**Limited to: 24**

#### **HEA-609 Not for Sale! Identifying Victims of Human Trafficking**

BLS 15 / ALS 20 / 2.0 CEU  
Target Audience: All  
Almost 90% of human trafficking victims encounter a healthcare provider during their exploitation. It is essential for healthcare workers to equip themselves with knowledge in this space to help prevent further victimization and create a safe and trusting environment for victims. In this course you will learn key indicators to identify victims of human trafficking, demonstrate how to start the conversation with patients using an evidence-based tool, and maintain safety and trust with this delicate patient population.

Instructor: Carrie Manke Weiss

#### **MED-809 The Mission in the Mission: Medical Case Management of the Homeless**

BLS 14 / ALS 19 / 2.0 CEU  
Target Audience: All  
Indianapolis EMS became the first public safety agency to embed a full-time EMT into a homeless shelter to decrease 911 calls. Triage on the front lines of homelessness is vital for the individuals and public safety agencies. The benefits of having an EMT on-site to help triage 911 calls and provide case management is crucial to reducing of over utilization of the 911 system. Although this concept has been beneficial, it comes with its challenges and frustrations well beyond the individual in need.

Instructor: Alicia M Dinkeldein

#### **OPE-906 EMS Response to Targeted Automobile Ramming Mass Casualty Incidents TARMAC**

BLS 15 / ALS 20 / 2.0 CEU  
Target Audience: ALS, BLS, Dispatcher  
Targeted Automobile Ramming Mass Casualty Incidents (TARMACs) are low-budget, easy-to-accomplish method for terrorists and other bad guys to inflict mass harm. Historically, this tactic has been used in venues ranging from community events to organized protests, and other public gatherings. It is easy for an individual to acquire a vehicle and drive it into a crowd. This presentation will review past TARMAC events, both domestic and international, discuss injury patterns unique to these incidents, and review standard triage techniques that may fail us in TARMAC and other MCIs.

Instructor: Frederick Haas

#### **PED-1010 Pediatric Resuscitation Simulation: Coding Kids Beyond PALS**

BLS CAT 2 / ALS 17 / 2.0 CEU  
Target Audience: ALS, BLS, Educators, MD, DO, RNs

Do you feel uncomfortable when having to resuscitate a pediatric patient? Are you wanting to learn more about pediatric codes to better prepare yourself? This course is designed to hone your skills and expand your knowledge for these infrequent but demanding and stressful encounters of pediatric codes. The course is a two-part hands-on activity: four rotating stations addressing essential parts of a pediatric code, followed by a participant hands-on simulation code run by pediatric emergency medicine physicians.

Instructor: Sam Bartle

**Limited to: 12**

#### **SPEC-1603 Working as a Rural Paramedic in Australia Part II - Your Questions Answered**

BLS CAT 2 / ALS CAT 2 / 2.0 CEU  
Target Audience: All  
Welcome back! My name is Antonella Ryan, and I work as an Advanced Care Paramedic II in rural and remote regions in Far North Queensland, Australia. This presentation will give an insight into the way we work in a rural and remote setting and how it differs from the rest of the world. We will discuss what it takes to work rurally and the challenges we face every day. This presentation will continue for those who attended in 2022. I look forward to seeing you all again.  
Instructor: Antonella Ryan

#### **TRA-1211 Medical Considerations for Technical Rescue Incidents**

BLS 13 / ALS 18 / 2.0 CEU  
Target Audience: ALS, Administrators, BLS, Educators, MD, DO, Youth  
Technical rescue incidents present a unique set of challenges for medical providers. Whether assessing and treating suspension injuries at a rope rescue or crush injuries at a structural collapse, special knowledge and skills are required from the provider. Modern medicine now requires medical treatment to begin during the rescue phase, rather than waiting for the victim to be rescued. This presentation focuses on the kinematics of trauma, rescue techniques, treatment priorities, and special considerations to result in the best possible patient outcomes.  
Instructor: Douglas M Hexel

## Wednesday Courses

3:00 PM - 4:00 PM

### ADM-111 Virginia EMS State Repository Data Submission and Quality Reporting Tools

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Having complete and accurate data is integral not only to maintain state compliance but also to empower agencies and other stakeholders to make sound clinical and operational decisions with confidence. The Virginia State Repository has tools available to all EMS agencies in Virginia to monitor your agency's state data submissions and quality scores. This class will familiarize agencies with software configuration, the capabilities of these tools, and how you can monitor data submission and quality trends, individual PCR data quality metrics, and agencywide common data validation warnings and errors.

Instructor: Christopher Montera

### CAR-407 Cardiac Rhythm Identification and Management Made Easy

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience: All

Accurately identifying cardiac rhythms that are pathologic and life-threatening, expected physiologic responses or reactions, versus normal, can be challenging for even the most experienced provider. A simple practical approach using fundamental concepts when confronted with rhythms that may depend on immediate actions, which may even include no action to prevent harmful exacerbations can make an immediate difference. This fundamental approach will assist the provider with tools to identify, recognize, and subsequently manage these routines as well as challenging rhythms.

Instructor: Michael Dencil Owens

### EDU-504 Mental Health Training and Coping Strategies in EMS Education

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

This interactive and informative session is founded on a narrative review conducted to research mental health and coping strategies in paramedic education. By addressing mental health disorders and specific coping strategies not included in initial EMS education, educators may better prepare new graduates for risk factors associated with the profession and aid in reducing the incidence of mental health disorders

among providers. This presentation will review the background of mental health in EMS and EMS education and discuss best practices for improving mental health and resilience in EMS Education. Instructor: Darla W Boseman

### MED-810 Preparing for the Unexpected: A Review of Obstetric Care and Emergencies

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

This presentation is designed to provide an overview of the physiologic changes that occur during pregnancy, including cardiovascular, respiratory, and hematologic changes, as well as common obstetric terms and pregnancy-related complications, such as preeclampsia and eclampsia. Methods of treatment for these complications will also be presented.

Instructor: Jermaine T Clayborne

### MED-811 Demystifying the Neurological Exam

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, MD, DO, RNs

This dynamic lecture will cover a broad spectrum of neuro disorders and their associated findings. A structured approach to the neurological exam will be discussed in detail, as well as tips and tricks on assessing the cranial nerves without feeling like you have to complete a neurology fellowship. Cranial nerve palsies, differentiating between Bell's Palsy and stroke and cerebellar infarcts will all be discussed. Beef up your neuro exam by attending this engaging lecture!

Instructor: Russ L Brown

### MED-812 Managing the Agitated Patient

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, MD, DO, RNs

Prehospital providers are frequently called upon to care for patients with acute psychiatric and drug-induced behavioral emergencies, often in partnership with law enforcement. Prompt and focused management of behavioral emergencies can improve patient care and safety for patients as well as providers. What strategies and medications are available to manage patients with uncontrolled behavior, and how can they be tailored to individual circumstances?

Instructor: George Lindbeck

### OPE-907 Interfacility Care: "Transport Medicine 101"

BLS CAT 2 / ALS 19 / 1.0 CEU

Target Audience: ALS, Educators, RNs

Emergency responders are often placed in the situation of transporting critically

ill or injured patients between hospitals. These patients may be critically ill or need subspecialty care and may have received diagnostic studies, medications, or procedures that may be unfamiliar to the EMS provider. This course will discuss basic pertinent laboratory and radiographic findings that will be useful in managing the inter-facility patient. The instruction will be provided through several case-based presentations that should help promote critical thinking in the care of the inter-facility patient.

Instructor: William C Ferguson

### PED-1011 Pediatric Toxicology

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, Educators, MD, DO, RNs

This lecture will be a general review of pediatric toxicology with a brief review of epidemiology. There will be a discussion on the general approach to pediatric patients who present following overdose, followed by a discussion on management of these patients in the pre-hospital setting. Finally, there will be real cases presented to discuss the most common and/or lethal substances ingested by pediatric patients.

Instructor: Theodore R Parks

### PED-1012 Pediatric Mental Health Emergencies

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

According to the CDC, 17.4% of children, or 1 in 6, have a diagnosed mental health, behavioral, or developmental disorder. EMS responders are increasingly called to scenes where a child is in a psychiatric crisis and needs to be transported to the emergency room for evaluation. This session will describe typical psychiatric etiologies found in pediatrics as well as tips for managing the scene and treating the patient and their family.

Instructor: Sara Gruver

4:30 PM - 5:30 PM

### ADM-112 Reporting in ESO Suite

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

This session will cover how to use Reporting in ESO and will introduce analytics and insights for EHR. Join Darin Inda, an ESO Trainer, on reviewing the reporting options available from a clinical and operational perspective.

Instructor: Christopher Montera

## Wednesday Courses

4:30 PM - 5:30 PM

### ARV-205 Airway Management During Cardiac Arrest - BVM ETI or SGA?

BLS 11 / ALS 16 / 1.0 CEU

Target Audience: ALS, BLS, Educators, MD, DO

Airway management is an essential skill in emergency and prehospital medicine. During cardiac arrest, good airway management can improve survival. There are several approaches to managing an airway during cardiac arrest, including Bag-Valve-Mask (BVM), Endotracheal Intubation (ETI) and Supraglottic Airways (SGA), with ETI considered the gold standard in airway management. In this session, we will review the impact each of these approaches has on key cardiac arrest outcome measures, including Return of Spontaneous Circulation, survival at 72 hours, hospital discharge and neurological outcomes.

Instructor: Luis M Pinet Peralta

### ARV-206 Navigating Turbulence Lessons in Failed Airway Management

BLS 11 / ALS 16 / 1.0 CEU

Target Audience: All

Join us for an informative presentation that delves into the complexities of emergency airway management. This session will feature two compelling case studies that highlight the challenges of managing failed airways, one as a result of a plane crash and the other involving severe facial trauma. Don't miss out on this session that will equip you with the knowledge and strategies necessary to manage even the most challenging airway emergencies.

Instructor: Jermaine T Clayborne

### CAR-408 Tachydysrhythmia Rhythm Identification and Management Made Easier

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience: All

This is a detailed examination of tachydysrhythmias from Cardiac Rhythm Identification and Management Made Easy. Accurately identify and distinguish between normal physiologic and pathologic tachycardic rhythms. A simple practical approach using fundamental concepts when confronted with rhythms that may depend on immediate actions, which may even include no action to prevent harmful exacerbations, can make an immediate difference. This fundamental approach will assist the provider with tools to identify, recognize, and subsequently manage these challenging rhythms.

Instructor: Michael Dencil Owens

### EDU-505 What the Research Says

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: ALS, BLS, Educators, RNs

"What the Research Says," engages providers on current hot button topics and trends in Emergency Medical Services. The course reviews recently published, peer reviewed literature to help breakdown some of the controversies EMS personnel will face both in the station and while treating patients. Topics include spinal immobilization, fluid resuscitation, hemorrhage control, rapid sequence induction, provider fatigue, and oxygen therapy. The course is de-signed for all provider levels, as evidence-based practice impacts all EMS professionals.

Instructor: Michael Kaduce

### EDU-506 Get Ready for What's Coming, Continuing Evolution of Continuing Education

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Educators

The technology revolution has hit the world of continuing education hard! New approaches and technologies are pushing the boundaries of continuing education, particularly in the areas of distance education. Administrators push for efficiency; clinicians want value for their time; and there are more options than ever. This session will identify key trends, explain emerging technologies, show what has proven value, and explain evolving practices for continuing education.

Instructor: Mark Terry

### LMG7-704 Protecting Your Organizational Brand

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

In today's climate and culture protecting your brand or that of the organization you work for or represent is more challenging than ever, but it doesn't have to be. This class will look at organizations who have been successful at protecting their brand as well as those who haven't. Collectively, we will facilitate a conversation on how you can be the change agent and create a culture of members who are willing to step up and protect your organization's brand in all interactions.

Instructor: Justin B Adams

### MED-813 When Headaches are Neurological Emergencies

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS

EMS providers are frequently called for "non emergencies" such as headaches.

But sometimes headaches can be fatal. This course is a case study involving a recent patient who called EMS for a severe headache that turned out to be a fatal subarachnoid bleed. We will discuss how the excellent work of EMS providers turned a sad case into a gift for another family. The discussion will include brain death.

Instructor: Traci A Wakefield

**Prerequisite: This course is for experienced advanced life support providers and basic life support providers. It is helpful but not required to have a basic understanding of neuro anatomy prior to this course.**

### MED-814 TikTok Toxicology

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

Since it's North American debut in 2018, TikTok has dominated the teenage social media market. In 2022, a survey reported that 67% of American teenagers have used TikTok and 16% reported using it multiple times a day. As with any social media, though, TikTok also has a dangerous side that has landed followers in the hospital. This class will discuss the most current social media challenges, the basic pathophysiology of the possible poisonings, and the treatments EMS can provide.

Instructor: Sara Gruver

### PED-1013 Pediatric Sepsis From the Home to the ED

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS

Fever is the most commonly encountered pediatric emergency condition. Sepsis is the dreaded endpoint. Where minutes count, recognition and stabilization before and immediately after arrival to the emergency department may be life-saving. This conversation will focus on an understanding of what pediatric sepsis looks like and the initial steps of recognition and stabilization.

Instructor: Rick Place

### PED-1014 Neonatal Nightmares!

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, MD, DO, RNs

Caring for and treating a neonate in the field is a high-risk infrequent event. Knowing how to manage the crashing neonate is paramount for the clinician. This lecture will cover the spectrum of the most common neonatal emergencies you may encounter. From resuscitation of the newborn to neonatal-specific disease processes such as sepsis, congenital heart disease, and NEC. This dynamic lecture will give you the confidence and skills to successfully treat a crashing neonate.

Instructor: Russ L Brown

## Wednesday Courses

4:30 PM - 5:30 PM

### TRA-1212 Stayin' Alive Meets Another One Bites the Dust, Case Studies in Traumatic Arrest

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: All

This session will review case studies in adult resuscitation secondary to suspected traumatic arrest. These cases include a variety of patient scenarios based on mechanism of injury, injuries, treatments, and outcomes. Attendees will be presented with a case and guided in determining possible treatment modalities following ATLS guidelines for adult trauma resuscitation. Depending on group size, small group activities will be used for initial case discussion.

Instructor: Beth L Torres

## Thursday Courses

8:00 AM - 5:00 PM

### ADM-113 Operational Medical Directors Workshop

BLS CAT 2 / ALS CAT 2 / 8.0 CEU

Target Audience: MD, DO

This class will cover new developments in patient care, rules and regulations, and EMS management for operational medical directors. Emphasis will be given to examining the evidence base supporting patient care guidelines in EMS as well as Virginia-specific developments. This course will count towards requirements for re-endorsement as an EMS physician, and CME will be offered.

Instructor: George Lindbeck

### ARV-207 High Performance Ventilation Simulation Workshop

BLS 11 / ALS 16 / 8.0 CEU

Target Audience: ALS, BLS, Educators  
Research shows that often, EMS providers often have trouble ventilating patients. In this eye-opening, hands-on workshop, Bob shows participants how to ventilate patients by BVM, via Mask, ET tube, and supraglottic airways, using state-of-the-art computerized simulators that measure pressures, volumes, and ventilatory rates. You will gain valuable insight and skills to improve your ventilation abilities using this valuable feedback and coaching system. This lab features the tools and techniques to introduce the concept of high-performance ventilation (HPV) in real time scenarios with ventilation equipment and high-fidelity simulators.

Instructor: Robert E Page

Co-Instructor(s): Michael Mendez

**Limited to: 24**

### HEA-610 Building CISM Team Skills, A Refresher Course

BLS CAT 2 / ALS CAT 2 / 8.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, MD, DO, RNs

This course has been designed to provide CISM trained team members with the opportunity to review basic core CISM skills and then have the opportunity to practice those core skills. Participants will learn some training techniques and activities that they might use to assist their teams in additional skill-building.

Instructor: Patricia A. Copeland

Co-Instructor(s): Chris Brown

**Prerequisite: Assisting Individuals in Crisis and Group Crisis Intervention**

### PED-1015 Pediatric Education for Prehospital Professionals HYBRID

BLS 14 / ALS 19 / 8.0 CEU

Target Audience: ALS, BLS, RNs

PEPP represents a complete source of prehospital medical information for the emergency care of infants and children. Developed by the American Academy of Pediatrics, PEPP is an exciting curriculum designed to teach prehospital professionals how to better assess and manage ill or injured children. PEPP is a comprehensive, innovative and highly visual course, featuring case-based lectures, live action video, hands-on skills stations, and small group scenarios. Participants will complete all didactic work online prior to the EMS symposium and will then attend the in-person labs at Symposium. Required Text: Pediatric Education For Prehospital Professionals (Pepp).

Instructor: Jeremy Wampler

Co-Instructor(s): Rebecca Anhold, Aaron Bunch, Joshua Wimer

**Limited to: 24**

8:00 AM - 3:00 PM

### EDU-507 The Missing Quick Start Guide for EMS Training Officers

BLS CAT 2 / ALS CAT 2 / 6.0 CEU

Target Audience: Educators

The EMS Training Officer is a key role for emergency medical services systems. EMS Training Officers have key roles to ensure continuing education that keeps the agency current, verifies minimum competency for credentialed service personnel, and assists with certification/licensure of clinicians. The EMS Training is an educator, clinician, record keeper, and leader - many times without a lot of preparation. This day long workshop provides a quick

start guide for new training officers and a refresher of key concepts for experienced training officers. No prior knowledge or experience is required!

Instructor: Mark Terry

**Limited to: 40**

### LMGT-705 EMS Leadership Forum Unpacking EMS Challenges That All Organizations Are Facing in Today's Society

BLS CAT 2 / ALS CAT 2 / 6.0 CEU

Target Audience: All

The forum will discuss the various "hot topics" and share information on successes, challenges, and best practices. The EMS Leaders Forum is the ultimate in EMS networking. In addition to learning from each other, we will highlight a panel of distinguished guests to help answer, guide, and give real world advice on best practices in the industry. Those panel members are Rob Lawrence, Brent Myers, Tiger Schmittendorf, and Jodi Shirey. (See instructor bios for a detailed list of panel member credentials. The forum will be facilitated by Chief Justin Adams.

Instructor: Justin B Adams

Co-Instructor(s): Brent Meyers, Jodi Shirey, Rob Lawrence, Tiger Schmittendorf

8:00 AM - 11:00 AM

### BLS-304 BLS Academy Operations, Part 2

BLS 15 / ALS CAT 2 / 3.0 CEU

Target Audience: BLS

This is the fourth class in the BLS Academy and satisfies 3 hours of the required 5 hours for the 2016 Category 1/NCCR CE requirements.

Instructor: Victoria C Lunceford

8:00 AM - 10:00 AM

### PED-1016 Pediatric Basic Rhythm Disturbances Too Fast? Too Slow Or Not There

BLS CAT 2 / ALS 17 / 2.0 CEU

Target Audience: ALS, BLS, RNs

Emergent rhythm recognition for the pediatric patient is not as difficult once you correlate it to perfusion assessment. We will visualize and discuss each of the three main categories of pediatric cardiac rhythms and their emergent treatment, based on the AHA guidelines. Whether on a pediatric prehospital call or in the emergency department, this discussion is intended to help you stay focused and purposeful when dealing with pediatric cardiac rhythms.

Instructor: Dusty Lynn

## Thursday Courses 8:00 AM - 9:00 AM

### **CAR-409 Occlusion Myocardial Infarction, Changing the Paradigm of MI Recognition**

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience: ALS, BLS, MD, DO, RNs

STEMI criteria for the recognition of myocardial infarction was developed to ensure that obvious MI was not missed in the acute setting. Frequently, occlusion does not follow the guidelines. Don't miss the subtle MI! This lecture will discuss a new way of looking at coronary occlusion. STEMI equivalents will be discussed, as well as the current literature on what defines STEMI. Learn to recognize the can't miss signs of occlusion on an ECG that don't always follow the criteria.

Instructor: Russ L Brown

### **EDU-508 EMS Educators Best Practices Roundtable**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Educators

Have you ever said, "Wow, why didn't I think of that?!" During my 35 years of networking with other EMS educators, I've said it a lot. The synergy that comes from professionals sharing their experiences (both successes and failures) with each other benefits everyone involved, especially our students. This one-hour session will be a roundtable discussion, so bring the lessons you've learned and expect to leave with much more than you came with!

Instructor: William R Akers

### **HEA-611 From Surviving to Thriving! Overcoming Burnout with Resiliency**

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: All

When burnout has you in its grip, do you simply white knuckle it and survive, or would you rather learn to move beyond burnout and thrive? First responders are inundated with vicarious trauma and external crises at work, and that doesn't include major life stressors that come up outside of working hours. Research shows a positive correlation between resiliency practices and reduced burnout and compassion fatigue. Learning to recognize symptoms of burnout and how increasing resiliency is key to a long lasting, joyful career serving others as a first responder.

Instructor: Carrie Manke Weiss

### **HEA-612 Code 3 Is the Risk Worth the Reward?**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience : ALS, Administrators, BLS, Dispatcher, Educators, MD, DO, Youth

If you have spent any amount of time in the EMS industry, you likely remember the days of going Code 3 to everything. While Code 3 runs are becoming less common, they are still prevalent in many systems. We will look at the research surrounding emergent responses and talk about the risks they pose to providers, patients and the public. We will talk about reasons for these responses and whether they are warranted. Perhaps the time has come for the Code 3 response to go the way of Mast Pants.

Instructor: Reuben P Farnsworth

### **LMGT-706 How to Initiate Change in EMS**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, BLS, RNs

Healthcare is always evolving and EMS is no different. As EMS providers, we play a critical role in the initial care of patients. This class will review how to initiate change in an EMS system based on chart review, quality assurance findings, and evidence-based research. We will discuss how to find, review, and understand research to prompt updates in processes and protocols for your agency. This class will help you build confidence to make evidence-based decisions to improve the care we deliver to our patients.

Instructor: Kellie H Lavine

### **LMGT-707 Leading Organizational Change**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Administrators

Change is hard. People hate change. Change can also be necessary. Learn how to implement organizational change when change is needed and how to make it stick. Leading organizational change does not have to be a battle and it does not have to be confrontational. A few simple strategies and the right mindset will put you on the right track.

Instructor: David English

### **MED-815 Leadership Guide to Cancer**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, Educators, MD, DO, RNs

As the fire/EMS service continues to experience an increase in occupational cancer diagnosis, as a supervisor or

co-worker you are likely in a place of discomfort in your support efforts. A diagnosis not only effects the individual, but it can also have a profound affect on you professionally and personally. You simply might not have all the answers needed nor the direction required to provide assistance. This course will provide a basis of what to say/not say, how to react, how to offer support and how to coordinate assistance.

Instructor: Steve Weissman

### **MED-816 Autism Awareness for First Responders**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

This presentation covers autism awareness specifically for first responders. As the rate of autism increases in the population, it is inevitable that first responders will have opportunities to interact with patients who have autism. It is important for first responders of all levels to know appropriate physical exam techniques, de-escalation and communication techniques, as well as to have a basic understanding of ASD.

Instructor: Sara Gruver

### **OPE-908 Turning Hindsight into Foresight Why Mentorship Matters**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, All, BLS, Dispatcher, Educators, MD, DO, RNs, Youth

A key responsibility of current leadership is to support the EMS leaders of the future. How do we do this? By turning some hindsight into foresight. Think back to the people who helped you along the way. Successful leaders can readily identify these mentors who helped them be the leaders they are today. One of the most important things you'll do as an EMS leader is implement a mentorship program. Hilary will discuss mentorship programs based on best practices, with a special focus on mentoring women and minorities.

Instructor: Hilary Gates

### **PED-1017 Pediatric Traumatic Brain Injury: Avoiding the 3 H Bombs to Enhance Outcomes**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS

Severe Traumatic Brain Injury (TBI) in pediatric patients causes tachycardia in adults because of the anxiety that comes with treating children. Join Dr. Peter Antevy for an enlightening talk that reviews important data that may change your mindset by explaining the small details that make a big difference in outcomes.

Instructor: Peter Antevy

## Thursday Courses

### 8:00 AM - 9:00 AM

#### **PED-1018 Polytrauma - How is the Pediatric Patient Different?**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: All

It is often stated that children are not simply little adults. This is especially true in the setting of pediatric trauma. The mechanisms experienced by infants and children and the physiologic impacts they experience are significantly different than those of their older counterparts. This discussion highlights these differences and focuses on areas of greatest risk.

Instructor: Rick Place

**Limited to: 70**

#### **TRA-1213 Death by Rescue Managing Crush Injuries**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS

Gone are the days of rescuers hastily dragging victims to awaiting EMS. This outdated practice would often result in the titular "Death by Rescue" when a patient dies shortly after rescue from a condition that could have been treated. Modern technical rescue responses involving crush injuries require that providers begin treating the patients before extrication even begins. This presentation focuses on techniques and strategies for methodical treatment and patient removal following crush injuries.

Instructor: Douglas M Hexel

#### **TRA-1214 Ocular Emergencies - "Just Eyeball It"**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, Educators, RNs  
Although EMS providers receive education related to the management of life and limb-threatening emergencies, there are other emergencies out there that, if not managed appropriately, can lead to significant problems for our patients. The recognition of ocular emergencies, understanding the pathophysiology, and knowing how to manage vision threatening emergencies are paramount for today's prehospital personnel, especially in resource-limited environments. This course will cover the assessment, pathology, and treatment of vision threatening emergencies that EMS personnel should know about in a practical case-based format.

Instructor: William C Ferguson

### 9:30 AM - 11:30 AM

#### **HEA-613 EMS Safety - A Patient Centric Approach**

BLS 15 / ALS 20 / 2.0 CEU

Target Audience: ALS, BLS

EMS providers always consider their own safety as the number one priority on scene. While we maintain this focus, there is still a patient to think about. This presentation will look at safety from another viewpoint; how can we best ensure the safety of our patient? What measures can EMS take to prevent treatment-related errors and mishaps? Medicine lives through the mantra of "do no further harm." We will review best practices to make this goal a reality.

Instructor: Frederick Haas

#### **LMGT-708 HR Is Not Your Friend**

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

Target Audience : ALS , Administrators, BLS, Dispatcher, Educators, MD, DO, RNs

Let's face it. Human Resources doesn't always have the best reputation. Known as the "no" department or "fun police", HR is not always viewed as a friend. Sometimes viewed as paper-pushers and soul stealers, HR appears to take the easiest of tasks and make them seem impossible. Their directives impact everyone in the organization and we love to hate them. But wait... while you may think HR may not be your friend, they are your business partners, advisors, conflict managers, counselors, etc.

Instructor: Christina Helber Smith

#### **MED-817 Emergency Childbirth in the Field**

BLS 14 / ALS 19 / 2.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, Educators

Often times, expectant women wait it out too long at home in labor and end up calling for emergency services. Less frequently, you will have a true childbirth crisis on your hands. Learn some basic skills and get hands-on practice with normal and complicated deliveries. These include normal birth, shoulder dystocia, breech birth, premature labor, postpartum hemorrhage, hypertensive crisis, and newborn stabilization.

Instructor: Christina Owens

Co-Instructor(s): Brittney Westbrook, Ildiko Baugus, June Byrd

**Limited to: 60**

#### **PED-1019 Pediatric Resuscitation Simulation: Coding Kids Beyond PALS**

BLS CAT 2 / ALS 16 / 2.0 CEU

Target Audience: ALS, BLS, Educators, MD, DO, RNs

Do you feel uncomfortable when having to resuscitate a pediatric patient? Are you wanting to learn more about pediatric codes to better prepare yourself? This course is designed to hone your skills and expand your knowledge for these infrequent but demanding and stressful encounters of pediatric codes. The course is a two-part hands-on activity: four rotating stations addressing essential parts of a pediatric code, followed by a participant hands-on simulation code run by pediatric emergency medicine physicians.

Instructor: Sam Bartle

**Limited to: 12**

### 9:30 AM - 10:30 AM

#### **ADM-114 ESO Repository**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Attendance at this ESO class will provide you with information on the new ESO repository and offer you the knowledge on how to use the new repository.

Instructor: Christopher Montera

#### **ADM-115 Bullet Train to Trauma Center Designation "Don't Forget About the Boomslang"**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Educators, MD, DO, RNs

Achieving trauma center designation is a complicated process that requires extensive strategic planning, resources, and facility commitment. Trauma care spans the full continuum of care, from the prehospital arena through rehabilitation. Trauma center designation affects nearly all departments in a hospital. The "trauma center" is not the emergency department. Join the discussion to learn more about the trauma center designation process.

Instructor: Mindy Carter

**Limited to: 30**

## Thursday Courses 9:30 AM - 10:30 AM

### ARV-208 End Tidal is Vital

BLS CAT 2 / ALS 16 / 1.0 CEU

Target Audience : ALS , BLS , MD, DO, RNs

End-tidal capnography (EtCO<sub>2</sub>) is one of the most useful non-invasive monitoring techniques available in the prehospital setting. Both capnography (the waveform) and capnometry (the number) provide essential breath-by-breath information about the patient's pathology. This presentation will discuss the physiology of end-tidal capnography, common waveforms to recognize, and how it can specifically be applied in the prehospital setting.

Instructor: Nella W Hendley

### CAR-410 Pragmatic 12-Lead EKGs

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience: ALS, Educators, RNs

The pragmatic EKG interpretation course will cover basic 12-lead/3-lead interpretations in the setting of the symptomatic patient. The course will cover a practical application of current trends in therapy based on the risk-to-benefit for both the beginner in ACLS care and the experienced provider. The most common pathophysiology of dysrhythmias along with critical/life threatening mimics of common dysrhythmias will be addressed in a practical/easily usable format. Too Fast, Too Slow, or Okay-ish.

Instructor: William C Ferguson

### CAR-411 BLS and ALS Assessment of Chest Pain

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: ALS, BLS, Educators, RNs

This session uses a case study to delve into the initial assessment and management of a patient experiencing chest pain. A brief overview of cardiac anatomy and physiology related to acute coronary syndrome is provided. Participants work through the case study using the OPQRST acronym for assessment. Interventions covered include medications and 12-lead ECG acquisition. This session is geared more towards the novice provider but is applicable to all providers.

Instructor: Beth L Torres

### CRI-1109 Ketamine for Seizure Management

BLS CAT 2 / ALS 19 / 1.0 CEU

Target Audience: ALS, Educators, MD, DO, RNs

This lecture introduces seizure management concepts that utilize Ketamine. Ketamine, a drug many

clinicians are already acquainted with, has not been traditionally been used to control seizures. 20+ years of observational and prospective data have noted Ketamine's value in the presence of difficult-to-control seizures. More recently, RCT's and retrospective human trials have shown high efficacy for Ketamine use with seizures. This lecture will review the fundamentals of seizure pathology, pharmacokinetics of conventional therapies, and discuss when Ketamine may be indicated and why during seizure management.

Instructor: Nikhil C Williams

**Prerequisite: Understanding of conventional seizure management Understanding of basic neuron function.**

### CRI-1110 Somebody Hit the Lytes - Case Studies of Electrolyte Imbalances

BLS CAT 2 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, MD, DO, RNs

Using the lens of case studies, this course aims to review and discuss the presentations, causes, and treatments of various electrolyte issues. This course will start with a brief overview of the most common electrolyte imbalances, reviewing the cardinal presentations and possible causes of each. Participants will then engage in several case studies where the examination and treatment of patients with electrolyte issues will be the primary goal.

Instructor: Lucian A Mirra

### EDU-509 Accredited Program Directors Workshop

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Educators

This session will NOT address teaching methodology or student learning. Instead, it focuses on helping directors build a successful program and meet both Virginia OEMS and CoAEMSP accreditation standards. Those who register for this session will be surveyed before the symposium to determine chief concerns and common questions. Content of the one-hour session will be tailored accordingly.

Instructor: William R Akers

### LMGT-709 Leadership in EMS - Are You a Sith Lord or a Ted Lasso?

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Organizations recognize effective leadership as the key to driving success. The complex and dynamic nature of leadership has evolved through the years and continues to generate debate about what it is, what it means and how you can see it in action. So what makes a great leader? In this session, we will

review key qualities and characteristics of leadership, will review key principles for successful leadership and will lay out a plan for anyone in EMS to develop leadership skills and apply them at any level in the organization.

Instructor: Luis M Pinet Peralta

### MED-818 I Done Fell Out!! The High Risk Syncope Patient

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, MD, DO, RNs

Syncope is one of the most common chief complaints in prehospital and emergency medicine. While it is often from a benign cause, it can sometimes harbor a serious underlying pathology. Learn to identify the must-know ECG's rhythms in the patient with a chief complaint of syncope. Learn to identify the red flags in the history of the patient with a potentially life-threatening etiology of their syncope. This lecture will also cover common mimics of syncope and how to distinguish seizure disorders from syncope.

Instructor: Russ L Brown

### MED-819 The Twists and Turns of Connective Tissue Disorders

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

Once considered a very rare syndrome, one in 5,000 people are now diagnosed with some form of Ehler-Danlos syndrome. EDS is a group of disorders where the individual's collagen is defective, which can cause mild symptoms such as loose joints all the way to life threatening conditions such as aneurysms. This session will describe typical EDS presentations, signs and symptoms of EDS, and specific medical considerations for EMS.

Instructor: Sara Gruver

### PED-1020 ABC as EASY as 123

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, Administrators, All, BLS, Dispatcher, Educators, MD, DO, RNs, Youth

Kids are not little adults, although many adults see themselves as big kids. This course will focus on the differences between pediatric patients and adults, including how management and treatment vary. Additionally, the course will focus on high-yield pediatric emergencies, including respiratory difficulties, common pediatric injuries, and seizures.

Instructor: James Burhop

## Thursday Courses 9:30 AM - 10:30 AM

### **PED-1021 Pediatric Tips and Tricks** BLS 14 / ALS 19 / 1.0 CEU Target Audience: ALS

The practice of medicine, whether in the field or in the emergency department is extremely nuanced and knowing a few tips and tricks will often improve the level of care for your patient. Join Dr. Antevy as he discusses common pediatric emergencies coupled with expert pointers that will help you on your next call.

Instructor: Peter Antevy

### **PED-1022 Pediatric Transport Refusals**

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, MD, DO

Pediatric transport refusals create a great deal of consternation for the EMS provider. What was initially a call for stabilization and transport becomes an ethical and medicolegal dilemma on the part of that provider. Is it reasonable for the parent to decline further intervention and transport? If it is not reasonable, what are the practice implications for the parent, for the child, and for the EMS provider and agency? Instructor: Rick Place

### **TRA-1215 Ice, Ice, Baby**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, Dispatcher, MD, DO, RNs

Hypothermia is one of the points in the Trauma Triad of Death and can significantly complicate patient care. Join staff from the Pediatric Intensive Care Unit and the Pediatric Trauma team at Children's Hospital of Richmond as we discuss the effects of hypothermia on pediatric trauma patients and a variety of treatment options. We will incorporate case studies and recent data to illustrate the improvement in patient outcomes as hypothermia is corrected.

Instructor: Katherine Schulz

### **TRA-1216 "Quit Your Belly Aching" Abdominal Trauma, Signs, Symptoms and Treatment**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, MD, DO

This lecture will look at traumatic injuries unique to the abdomen. Abdominal injuries account for roughly 10% of all traumatic injuries, and mortality rates are reported as high as 25%. Recognition and proper and timely treatment of these patients reduces that number. We will

discuss signs, symptoms, treatments, and destination triage for patients with both blunt and penetrating injuries to the abdomen. A recent case review will be reviewed throughout the lecture to help guide discussion.

Instructor: Ellis S Bingley

### **TRA-1217 The Smiling Death**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, RNs

When responding to an entrapment situation, EMS should be prepared to manage a patient with crush syndrome. Having your patient die moments after being freed is a tragic end to a well executed rescue. EMS providers, as part of these teams, can reduce the chances of this through recognition and proper pretreatment prior to removal. Come listen to this presentation and find out how.

Instructor: Christopher Ebright

## 10:00 AM - 12:00 PM

### **TRA-1218 K9 Officer down! Treating Police K9 Officers During Nom Nom Moments**

BLS 13 / ALS 18 / 2.0 CEU

Target Audience: ALS, BLS, Educators, MD, DO, RNs

This is a customized course developed for K9 handlers on how to recognize, manage, and treat their K9 partner based on an active program. class is open to ANY provider wanting to help treat an injured K9 officer. Topics will include handling, assessment, vital signs, TRIAGE, transport, home treatment, BLS/ALS care ( to include CPR ) and how to develop a structured program/SOP/General order within your department on K9 assist calls. This class will be in-depth and hands-on with a trained K9 assistant. Must attend both morning and afternoon sessions.

Instructor: Dean S Thompson

## 11:00 AM - 12:00 PM

### **ADM-116 Performance Measures and Data Driven Best Practices for Fire Services**

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: All

The 2023 ESO Fire Service Index is helping fire leaders ignite quality improvement conversations within their communities. The ability to use data across the fire service is critical to refine strategies, increase efficiency, improve outcomes, and justify budgets. In this discussion, learn about key performance measures and best practices for fire organizations based on benchmarking

data from across the country.

Instructor: Christopher Montero

### **CAR-412 Chronic Kidney Disease & Cardiovascular Events**

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: All

This presentation describes the risk chronic kidney disease patients face for experiencing potentially life-threatening cardiovascular events. Participants will learn important history questions to ask to guide diagnosis and treatment. The session covers a discussion of patient assessment and interventions for fluid and electrolyte imbalances, based on type of dialysis as well as special considerations when resuscitating and providing post-resuscitation care. The participant will learn the science behind the treatment plan. A detailed case study chronicles a CKD patient from a prehospital cardiac arrest, through post-resuscitation care, including therapeutic hypothermia.

Instructor: Beth L Torres

### **CAR-413 No Brain, No Gain**

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: ALS, BLS, MD, DO, RNs

In cardiac arrest, return of spontaneous circulation (ROSC) is an important marker but good neurologic outcomes is a better indicator of a successful code event. This presentation will review how (or if) common Advanced Cardiac Life Support (ACLS) drugs could be used in cardiac arrest to optimize neurologic outcomes for patients.

Instructor: Nella W Hendley

### **CRI-1111 The Sinister Six**

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience: ALS

As advanced practice providers, we are expected to discern dangerous rhythms on the ECG such as the dreaded ST-segment elevation myocardial infarction. Yet, there are a multitude of rhythms that mimic this feared arrhythmia, which are often mistaken for an acute myocardial infarction on the 12-lead ECG. This leads to inappropriate activation of cardiac catheterization lab personnel, as well as inappropriate treatment of patients. This presentation will discuss six commonly misinterpreted STEMI mimics encountered by EMS professionals, and help you distinguish between what is real and what is fantasy.

Instructor: Christopher Ebright

## Thursday Courses 11:00 AM - 12:00 PM

### EDU-510 High School Survival Guide for EMS Educators

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Educators

High School EMT programs are very different from those offered in the general community and on college campuses. There are additional regulations to adhere to such as those from the Department of Education, additional requirements to be met, such as from Career and Technical Education. Come ready to learn the ins and outs of teaching in such a young and dynamic setting. High School EMT programs can be the most rewarding work you will ever do, but it will also be the most challenging.

Instructor: Sandra Bailey

Limited to: 30

### EDU-511 Target Engaged - Increasing Student Engagement in the EMS Classroom

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Educators, MD, DO, RNs

Student engagement - it seems like a "buzzword" but what does it really mean? With EMS classrooms being among the most diverse educational settings, how do we ensure our students are engaged in the material? This course will first overview the important educational theories in student engagement and how they apply to the diverse EMS classroom. Case studies will then be used to engage participants in discussing best practices for handling common classroom challenges.

Instructor: Lucian A Mirra

### MED-820 FEAR - False Evidence Appearing Real

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, Educators, MD, DO, RNs

A patient in crisis and the healthcare worker interacting with them both experience a fear response. During this critical time, trust must be established to prevent further escalation and promote scene safety. This presentation will provide an overview of behaviors exhibited by a patient in crisis, explore the underlying fear response, and provide the learner with strategies to implement, including de-escalation techniques, during the initial encounter of a patient in crisis needing emergency care.

Instructor: Carrie Manke Weiss

### MED-821 Cannabis Hyperemesis Syndrome

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, MD, DO, RNs

Cannabis hyperemesis syndrome is a poorly known condition that causes unexplained vomiting and abdominal pain in some patients who use cannabis regularly. This can be a challenging condition to treat as it may not respond to usual treatments. What is it and how can we effectively treat it? In this interactive session, we will discuss the likely pathophysiology of cannabis hyperemesis syndrome and effective treatment of cannabis hyperemesis syndrome.

Instructor: Jeff Myers

### MED-822 When the Provider Becomes the Patient - HELLP Syndrome Pre-Eclampsia and Other Scary OB Medical Emergencies

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, MD, DO, RNs

OB emergencies are high stakes and can be high stress. Not all OB emergencies present with vaginal bleeding or abdominal pain. Sometimes these emergencies are more subtle. Taught from the perspective of an EMS provider who experienced severe preeclampsia and HELLP syndrome personally, this course will provide a review of hypertensive emergencies, eclampsia, HELLP syndrome, and other medical emergencies unique to OB patients.

Instructor: Stephanie K Louka

### ☘ OPE-909 Why Do We Eat Our Young? Breaking The Hazing Trend

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: ALS, Administrators, All, BLS

A look at common hazing practices in EMS. We will talk about the culture of "breaking in a rookie," hazing, and the ways that we often discourage new providers. Prepare yourself for some laughs as you encounter Reuben's unique brand of EMS Poetry. Prepare for some personal introspection as well. If you are ready to change the way we encourage new EMS providers, come and join the fun.

Instructor: Reuben P Farnsworth

### ☘ OPE-910 Recruitment and Retention Strategies That Actually Work

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Administrators

What are the most challenging issues facing your agency today? If your answer involves PEOPLE, you are not alone! It's easy to make excuses

and blame factors we can't control, but that doesn't make it any better. In this class, we will dive deeper into R&R and explore why people apply, what keeps them around, and why they leave. We will discuss strategies to better understand your organization and a framework to build a recruitment and retention plan that can actually work for your agency.

Instructor: David English

### PED-1023 Rapid Fire - 10 Most Common Pediatric EMS Presentations

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

Based on research in the Northern Virginia region, this presentation will present the most commonly identified pediatric EMS presentations. This research will inform the team of what foundational knowledge is necessary for competent EMS providers. The presentation will necessarily focus on the highlights of each topic and briefly discuss the possible critical interventions.

Instructor: Rick Place

### PED-1024 Balanced Pediatric Trauma Fluid Resuscitation

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, Educators, MD, DO, RNs

What can you do for your patients in hypovolemic shock due to blood loss? Join staff from the Pediatric Intensive Care Unit and Pediatric Trauma Program at CHoR/VCU as we discuss the physiologic effects of hypovolemia on the body, treatment options for prehospital providers, and the potential need for HEMS involvement. To illustrate how transport destinations can affect your patients, we will discuss in-hospital treatment options and review emerging research with case studies.

Instructor: Katherine Schulz

### PED-1025 Chocolate to Crystal Methamphetamine to the Cinnamon Challenge, Emergency Approach to the Intoxicated Child

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

Pediatric and adolescent ingestions are common reasons for 911 dispatches and emergency department visits. With greater availability of medications and drugs, healthcare professionals need to stay sharp on current trends in medical toxicology. This lecture examines mind altering substances, initial pre-hospital approach to toxicology, and stabilization for transport, poison control center resources, and ultimate emergency department and intensive care management.

Instructor: James Burhop

## Thursday Courses 11:00 AM - 12:00 PM

### **SPEC-1604 HEMS Trauma Toolkit**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, BLS, RNs

This lecture will approach trauma from the helicopter Emergency Medical Services perspective and what tools we utilize when called out for trauma patients. This presentation will go over a little background of trauma, what can kill patients, what to expect when air resources are requested, and what we can bring to you in the field to give your patients optimal care. Tools like carrying blood products and evidence-based practice protocols mixed with some case presentations will be able to show the benefit of HEMS in trauma patients. Instructor: Kellie H Lavine

### **SPEC-1605 Air Medical Services Roundtable**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience : All

Have a question about anything related to air medical services (AMS)? Please join representatives of the AMS system in Virginia in a roundtable discussion about all things AMS. The panel will cover topics such as what it takes to become an AMS provider, the protocols that providers function under, the responsibilities of an AMS program director, AMS safety, and much more! Instructor: Victoria S Smith

### **SPEC-1606 The Future Role of Paramedics**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience : ALS

Join Dr. Antevy for an informative session on the role of paramedic education in the future of medicine and our national healthcare system, a critical intersection between EMS and the healthcare system. How does the paramedic become a more engaged partner in the medical community and public health? How does paramedic education evolve and change to stay ahead of the curve? You have questions, and we have answers. Instructor: Peter Antevy

### **TRA-1219 Accidents vs Accidents**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: All

This lecture will discuss cases that are originally reported as accidental deaths but, through investigation, can possibly be reclassified as other causes and manners of death. We will also discuss the need for the OCME and other organizations, such as EMS, to aid

in helping the OCME determine the outcomes of these cases.

Instructor: Sandra Williams

### **TRA-1220 Venoms and Poisons Encountered in Nature**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience : ALS , Administrators, All, BLS , Dispatcher, Educators, MD, DO, RNs, Youth

There are numerous venoms and poisons found within nature that the public can be exposed to while engaged with outdoor activities. EMS providers should be aware of these natural venoms and poisons and how to manage individuals exposed to them. The talk will be case-based, with numerous visuals of past exposures and complications. Antiquated therapies will be high-lighted.

Instructor: Christopher P Holstege

## 1:30 PM - 5:30 PM

### **ADM-117 Traffic Incident Management**

BLS 15 / ALS 20 / 4.0 CEU

Target Audience: All

This course is designed to teach the basic understanding and safety considerations for operating in or near any roadway or highway in the Commonwealth of Virginia. It will cover safety, legal, time considerations, and incident command and unified command structure. The course is designed to be interactive between the various groups that will be working an incident, which includes EMS working closely with law enforcement and wrecker service or specialty teams.

Instructor: Benjamin F Cheatham

Co-Instructor(s): Edward B Bish

**Limited to: 40**

### **ARV-209 Intro to Mechanical Ventilators for EMS Providers**

BLS CAT 2 / ALS 16 / 4.0 CEU

Target Audience: ALS

Participants will be introduced to the use of Mechanical Ventilators as they apply to EMS scene response and interfacility transports. Much of our time will be spent discussing BVM vs Mechanical Ventilator use and modes of ventilation commonly used by EMS, with advantages and disadvantages of each mode discussed. Settings/adjustments and troubleshooting alarms will also be discussed. Hands-on practice will be completed using the Zoll AEV but the skills learned will apply to any transport ventilator.

Instructor: Shawn E Fields

**Limited to: 24**

### **MED-823 Tackling Special Pathogens in the Prehospital Setting**

BLS 14 / ALS 19 / 4.0 CEU

Target Audience: All

Special pathogens, such as Ebola, cause high-consequence infectious diseases. It is imperative that EMS providers promptly recognize when patients are potentially ill with such pathogens. This lecture and practical session will cover when prehospital providers should suspect a special pathogen. Attendees will also learn the practical steps of how to keep themselves and other members of the public safe through proper PPE donning / doffing. Finally, transport considerations of these patients will be discussed.

Instructor: Jose V Nable

Co-Instructor(s): Chad Bowman, Matt Sasser

**Limited to: 24**

### **PED-1026 Handtevy Prehospital Pediatric Provider Course**

BLS 12 / ALS 17 / 4.0 CEU

Target Audience: ALS

The Handtevy Prehospital Pediatric Provider Course is a 4-hour live lecture and hands-on course that focuses on the skills needed to rapidly and accurately treat the sick and injured pediatric patient. The course uses the basic tenets of ACLS training as the foundation while still covering the basic pediatric ALS principles and nuances. The course is intended to be used with the Handtevy Pediatric System.

Instructor: Peter Antevy

**Limited to: 40**

### **TRA-1221 K9 Officer Down Treating Police K9 Injuries During Nom Nom Moments Continued**

BLS 13 / ALS CAT 2 / 4.0 CEU

Target Audience: ALS, BLS, Educators, MD, DO, RNs

This is a customized course developed for K9 handlers on how to recognize, manage and treat their K9 partner based on an active program. Class is open for ANY provider wanting to help treat an injured K9 officer. Topics will include handling, assessment, vital signs, TRIAGE, transport, home treatment, BLS/ALS care ( to include CPR ) and about how to develop a structured program/SOP/General order within your department on K9 assist calls. Class will be in-depth and hands-on, with a trained K9 assistant. Must attend both morning and afternoon session.

Instructor: Dean S Thompson

Co-Instructor(s): Cassandra Pugh, Courtney Vanetten

## Thursday Courses

### 1:30 PM - 4:30 PM

#### **CRI-1112 Suturing and Wound Closure**

BLS CAT 2 / ALS 19 / 3.0 CEU

Target Audience: ALS, MD, DO

Here is your chance to develop/hone your suturing skills with the help of an orthopaedic and a plastic surgeon! The class will start with a combination didactic and open discussion portion that focuses on anatomy, local anesthesia/pharmacology, indications for field wound closure, suture types, suture needle types, and suturing techniques, and suture removal. Following the didactic portion, we will focus on honing our individual suturing techniques. Each student will have their own set of instruments, models, and sutures; animal tissue will be used as surrogates for human tissue.

Instructor: Alden Hemenway Newcomb  
Co-Instructor(s): Emily S Andersen, Md

**Prerequisite:** *Limited to paramedics, physicians, physician assistants, and nurse practitioners only due to scope of practice. BLS providers will be withdrawn if registered.*

**Limited to: 40**

### 1:30 PM - 3:30 PM

#### **BLS-305 BLS Academy Medical, Part 2**

BLS 14 / ALS CAT 2 / 2.0 CEU

Target Audience: BLS

This is the fifth class in the BLS Academy and satisfies 2 hours of the required 6 hours for the 2016 Category 1/NCCR CE requirements.

Instructor: Victoria C Lunceford

#### **PED-1027 Pediatric Resuscitation Simulation: Coding Kids Beyond PALS**

BLS CAT 2 / ALS 17 / 2.0 CEU

Target Audience: ALS, BLS, Educators, MD, DO, RNs

Do you feel uncomfortable when having to resuscitate a pediatric patient? Are you wanting to learn more about pediatric codes to better prepare yourself? This course is designed to hone your skills and expand your knowledge for these infrequent but demanding and stressful encounters of pediatric codes. The course is a two-part hands-on activity: four rotating stations addressing essential parts of a pediatric code, followed by a participant hands-on simulation code run by pediatric emergency medicine physicians.

Instructor: Sam Bartle

**Limited to: 12**

### 1:30 PM - 2:30 PM

#### **ADM-118 Calming the Chaos! Challenges and the Future of 911 Centers**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, Educators

Between the thin red line and the thin blue line lies the thinnest gold line. This gold line represents those who are rarely seen but mostly are heard: 911 Dispatchers. Let's talk about hot topics in the 911 centers and what the future holds for comm centers! Interactive class focused on bringing light to the challenges today's dispatchers face!

Instructor: Kari L Magner

**Limited to: 50**

#### **ADM-119 ESO On Demand Learning Platform**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Attendance at this ESO course will provide you with information on how to use the on demand learning platform for your agency. Presented by Darin Inda.

Instructor: Christopher Montera

#### **CAR-414 When Time Isn't On Your Side**

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: ALS, BLS, MD, DO, RNs

You complete that 12-lead EKG in the field and see it reads **\*\*ACUTE STEMI\*\***. You're in a rural community, and the nearest Percutaneous Coronary Intervention (PCI) center is greater than an hour away by ground. What's a provider to do when time is not on their side? Join us for an hour of 4-5 case studies of time-sensitive patients who required rapid transport by helicopter to a specialty center. You'll receive the unique insight of both a rural paramedic who is also a flight nurse/paramedic, along with her helicopter partner-in-crime.

Instructor: Victoria S Smith

#### **EDU-512 Tactics for a Successful EMT Classroom**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Educators

Are you an EMT educator who is becoming discouraged by students not performing to their potential, low pass rates, or instructors who are too busy sharing war stories to teach? These concerns are not new and are faced by EMS educators across the country. However, there are proven tactics you can implement to increase the success

in your classroom and bring enjoyment back to teaching. This course will review many of the tactics used by the UCLA EMT education program in training nearly 1,000 students annually. Instructor: Michael Kaduce

#### **EDU-513 Using Real Patient Videos in the Classroom**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, Educators, MD, DO, RNs

There is no shortage of video footage of actual patients and real cases on the internet, both free and for a cost. What should educators and students keep in mind while watching? What are the best practices for teaching and learning with this material? Join Paramedic, Hilary Gates as she shares tips, tricks, and hurdles from doing just that over the past two years: convening eager learners and subject matter experts to discuss real patient videos.

Instructor: Hilary Gates

#### **LMGT-710 Only You Can Prevent HR Fires**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

It is always easy to say what could have been done to prevent disasters from occurring, but when dealing with people, preventing Human Resource fires from requiring a Priority 1 response isn't always that easy... or is it? Using the Emergency Management Continuum as a guide, attendees will review and discuss the potential for HR Disasters and the role that supervisors play in the Response, Recovery, Prevention/Mitigation, and Preparedness efforts of HR Fires.

Instructor: Christina Helber Smith

#### **MED-824 New Emerging Illicit Drug Trends and the Appropriate EMS Management of the Inebriated Patient**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

The number of substances used/misused in the United States has expanded significantly in the past decade. Illicit use has gone global and has spread rapidly via Internet markets. EMS providers will encounter patients inebriated by a variety of these novel substances. This lecture is factual case-based, highlighting the variety of patients that may be encountered and the associated signs and symptoms. Potential complications will be discussed. Review of appropriate treatments will be noted, specifically emphasizing various options in prehospital pharmacotherapy. Instructor: Christopher P Holstege

## Thursday Courses

1:30 PM - 2:30 PM

### **MED-825 The Management of Alcohol Intoxication and Withdrawal**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, MD, DO, RNs

Alcohol intoxication is a commonly encountered issue. Unfortunately, it can mask or mimic other life-threatening emergencies and can be life-threatening on its own. Early recognition and management of this is key to patient outcomes. Alcohol withdrawal can present as a spectrum. It too can be life-threatening and can often mimic or mask other significant medical emergencies. Early recognition and management of this is essential for patient safety and survival. Instructor: Benjamin D Blackwood

### **OPE-911 Taking the Right STEPP Forward Improving Teamwork and Communication Through TeamSTEPPS**

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, Educators, MD, DO, RNs

Communication issues have been cited as the most frequent root cause for medical errors. With this in mind, how can we improve communication, improve teamwork and break down some of the hierarchical barriers that exist in healthcare? The TeamSTEPPS program is an evidence-based program developed by the Agency for Healthcare Research and Quality and the Department of Defense as a way to improve patient safety through teamwork and communication. In this introductory session, we will explore the TeamSTEPPS principles and how they can apply to the prehospital environment. Instructor: Jeff Myers

### **OPE-912 Hurry Up --- And do Nothing**

BLS CAT 2 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, RNs

Sometimes less is more in medicine. We all want to use those fancy tools in our toolbox we've worked to master, but often the difference between a good clinician and an excellent one is knowing when NOT to do something. In a case-based format, we'll discuss situations where doing less, waiting to do something, or doing nothing at all can be the smartest and best choice for the patient. We'll review DNR/DNI, calculating a shock index prior to RSI, when to allow for permissive hypertension or hypotension and much more. Instructor: Stephanie K Louka

### **PED-1028 Caring for Kids, Anatomic and Physiologic Considerations for the Pediatric Patient**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

Caring for sick children can be difficult, overwhelming and intimidating. The pediatric patient presents a unique set of challenges due to anatomic and physiologic differences as compared to adults. The objective of this presentation and discussion is to give an overview of considerations for caring for kids in the field and emergency department. Instructor: James Burhop

### **PED-1029 Man's Best Friend and Kids' Worst Enemy**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, Dispatcher, RNs

Dogs can be loving, supportive animals that help calm emotionally charged situations. But when interactions go wrong, they can do serious physical and emotional harm to pediatric patients. In partnership with OffLeash K9, we will review behaviors indicating aggression is coming and ways to respond appropriately. We will also review the pathophysiology and treatment modalities of pediatric dog bites and review some case study examples. Don't worry, at the end, everyone gets to pet the therapy dog. He says "bring treats." Instructor: Katherine Schulz

### **SPEC-1607 The Business of MIH - How to Secure Sustainable Funding Streams**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Administrators

The EMS community sees the value in MIH; now all we need is someone to pay for it. This can be a challenging issue, but doesn't have to be. Join me for this discussion of sustainable funding paradigms, how to engage payers, and how community partnerships can make your program sustainable for the long haul, sans grant funding. Instructor: Reuben P Farnsworth

### **SPEC-1608 Hospitalist at Home Paramedics Impacting System Capacity**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Hospitals suffer patient flow challenges. Emergency Department surges with limited beds or staff result in boarders in the Emergency Department, and care suffers. ICU patients can't be downgraded and moved to step-down units until patients are discharged. Mobile Integrated Health or Community Paramedic (MIH/CP) programs may provide a relief valve to the system through increased bed/

day capacity. Discharging stable patients home under the care of Para-medics with virtual Physician visits while recovering can improve patient-centered care and satisfaction. System-wide capacity is increased.

Instructor: Christopher A Warr

### **SPEC-1609 Implementing Instrument Flight Rules Infrastructure and Training to HEMS Programs**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, RNs

This class will review the basics of what it takes to develop and implement Instrument Flight Rules (IFR) infrastructure and training for a HEMS agency. Instructors will review basic legal requirements, infrastructure, initial training and ongoing training required to successfully implement and utilize an IFR program. This class is applicable to Pilots, HEMS Leadership, Flight Followers/Dispatchers, Medical Flight Crew and EMS providers as each person plays an integral role in the completion of a successful and safe IFR flight. Instructor: Scott W Davis

### **TRA-1222 Burn Resuscitation- Current Practice Recommendations for Resuscitation of Major Burns**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS

Over recent years, burn resuscitation has changed fairly dramatically. It is no longer fluid, flu-id, fluid. Most of what was taught in the past is now known to have a significant complication rate. This course will be a discussion of Burn Pathophysiology, the history of fluid resuscitation, why guidelines have changed, and the current prehospital guidelines. Resuscitation data will be up-to-date for current American Burn Association, Advanced Burn Life Support recommendations. Instructor: Christopher Stevenson

### **TRA-1223 The Baba Yaga Comes a Calling**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS

Two words that strike fear in anyone: John. Wick. An expert with firearms, knives, and even a pencil - when he comes for you, he is the last person you see. But how is he so efficient? What injuries does he inflict that are so fatal? The ability to manage patients with penetrating trauma is enhanced by understanding basic mechanisms of injury rendered by projectiles and hand-driven objects. This presentation will discuss anatomic disruptions, ballistics, and the traumatic mechanisms of the most fatal penetration injuries. Instructor: Christopher Ebright

## Thursday Courses 3:00 PM - 5:00 PM

### ADM-120 Sail Through That Review! Strategies for a Successful Trauma Regulatory Review

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

Target Audience: ALS, Administrators, BLS, Educators, MD, DO, RNs

The "trauma site review" or "site survey" is the regulatory review to attain or maintain trauma center designation. It requires a lot of preparation on the part of the trauma center program staff and clinical and ancillary units of a hospital. Join the discussion around practical strategies to make the review less stressful while showcasing the great things your center has achieved. This discussion will largely revolve around trauma and burn designation in the Commonwealth of Virginia but may offer insight into designation in other states, as well.

Instructor: Mindy Carter

Co-Instructor(s): Dallas Taylor

**Limited to: 30**

### ADM-121 MCIM Awareness and Operations Train the Trainer

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

Target Audience: ALS, BLS, Educators

Please note the prerequisites for this class before registering. Completion of this course will allow a person to instruct the Virginia Office of EMS Mass Casualty Incident Management Awareness and Operations courses. Current Education Coordinators can teach MCIM I Awareness, but to teach MCIM Operations, they must attend this course. All other instructors must attend this course to teach MCIM I Awareness and MCIM II Operations. This course can also serve as the required biannual update for existing MCIM instructors.

Instructor: Samuel W Burnette

**Prerequisite: Completion of MCIM Awareness and Operations within the last 5 years. Must have one of the following: Education Coordinator, VDFP Fire Instructor, VAVRS Instructor, AHA or ARC Instructor, or DCJS Instructor. Upon completion of the course, students will receive an application to instruct that will need to be endorsed by their agency and operational medical director.**

### CAR-415 Nothin' Basic About It - Breaking Down the BLS Cardiac Arrest!

BLS 12 / ALS 17 / 2.0 CEU

Target Audience: BLS

It always comes back to the fundamentals! This hands-on course will include practical evolutions, as well as learning stations on basic

airway anatomy and BVM, BLS airway adjuncts, rescue airways and end-tidal CO2 monitoring. Students will learn how chest compression fraction (CCF) is measured and why it is more important than ever to minimize interruptions in compressions during a cardiac arrest. No PowerPoints, all hands-on learning with integrated scenarios to stimulate some critical thinking!

Instructor: Damien George Coy

Co-Instructor(s): Adam Alford, Adam Warwick, Chris Wootton, Emily Wootton

**Limited to: 24**

### CRI-1113 A-Z - Essential Lab Values for EMS Providers

BLS CAT 2 / ALS 19 / 2.0 CEU

Target Audience: ALS, BLS

We are often called to a facility to transport a patient to the hospital due to an abnormal lab value. Did you know that a high potassium (K+) can be fatal, an elevated lactate may be more than just sepsis, and sodium (Na+) imbalance is a potentially fatal cause of altered mental status? We'll cover the basics of common labs and panels (BMP, CBC, cardiac enzymes, ABG) and identify when to be concerned for possible patient deterioration.

Instructor: Stephanie K Louka

### HEA-614 Mental Health and EMS Providers, Let's Break the Stigma It's Okay NOT to be Okay

BLS 14 / ALS 19 / 2.0 CEU

Target Audience: All

Let's talk about mental health and EMS providers and the effects it has on each and every one of us. I will talk you through a case that changed my life and my career and how I overcame the battle. It is okay not to be okay. Let us start a conversation; it could save a life.

Instructor: Antonella Ryan

### LMGT-711 Jobs For Sale!

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

Target Audience: Administrators

The days of posting job openings and getting thousands of job applications are long gone. Recruiting volunteers is even more difficult. During this interactive session, we will take a forward-looking approach to recruiting qualified applicants using a marketing mindset and will explore how to develop a recruitment marketing strategy that meets future applicants where they are in pursuit of their careers.

Instructor: Christina Helber Smith

**Limited to: 50**

### MED-826 Pathophysiology of Toxic Exposures

BLS 14 / ALS 19 / 2.0 CEU

Target Audience: ALS, BLS

HazMat exposures affect our patients in many ways. An understanding of the body's response to various types of exposure is important. This presentation breaks down general classes of HazMats and looks at 1) how they enter the body, 2) methods by which the chemical attacks body systems or processes, 3) ways chemicals are eliminated from the body, and 4) mechanisms of actions for common treatment.

Instructor: Frederick Haas

### PED-1030 The A's and B's of the Pediatric Airway

BLS 11 / ALS 16 / 2.0 CEU

Target Audience: ALS, Administrators, All, BLS, Dispatcher, Educators, MD, DO, RNs, Youth

Optimizing pediatric airway management. This course will include a lecture followed by sceneries and hands-on practice, allowing the learner to apply the skills learned using airway delivery devices. The lecture will review the pediatric airway, using airway devices, using oxygen delivering devices, and review of three common case scenarios.

Instructor: Lesya G Tomlinson

**Limited to: 40**

### SPEC-1610 Flight Paramedic and Nurse Tales from the Roundtable

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

Target Audience: ALS, BLS, RNs

Is being a Flight Paramedic or Nurse your dream job? What are the best practices for educational, professional and personal development to prepare you to be a top candidate for hire? What are the general job requirements and expectations of the flight crew? Challenging MEDEVAC case reviews and discussions will give you insight into the life of the Flight Paramedic/Nurse. The instructors will present several unique and unusual cases that they and their colleagues have encountered over the past year.

Instructor: Scott W Davis

Co-Instructor(s): Kellie Lavine, Sid Bingley

## Thursday Courses

3:00 PM - 4:00 PM

### **ADM-122 ESO Admin, Personnel Management, EHR**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

This session will explain how to use Admin in ESO, how to connect your data to your local hospital, how to make sure your crews are listed in Admin, and how to use the Personnel Management module in ESO.

Instructor: Christopher Montera

### **ARV-210 Oxygen, Why It May Not Be The Panacea You Think**

BLS 11 / ALS 16 / 1.0 CEU

Target Audience: ALS, BLS, RNs

For years, the theory on oxygen has been, "If a little is good, more is better". New research is showing us that this may not be accurate. We will examine some of the latest science on oxygen administration and talk about the pathophysiology of oxygen toxicity and its ensuing effects on the body. We will discuss changes in the oxy-hemoglobin dissociation curve, oxygen utilization in the mitochondria, and the specifics that play into various types of hypoxia to better facilitate critical thinking in regards to treating patients with hypoxia.

Instructor: Reuben P Farnsworth

### **CRI-1114 A Deeper Look at the Pathophysiology of Shock**

BLS CAT 2 / ALS 19 / 1.0 CEU

Target Audience: All

This presentation will provide an overview of the pathophysiology of shock. Participants will learn about the different types of shock, including hypovolemic, cardiogenic, anaphylactic, and septic shock, with a focus on the cellular aspects of the disease. The speaker will cover the signs and symptoms of shock as well as the pathophysiology of each type of shock. Participants will also learn about the management of shock, including fluid resuscitation, vasopressors, and other treatments.

Instructor: Bill Young

### **EDU-514 First We Succeed! Optimizing First Pass Success During Airway Management**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, MD, DO

Referred to by many different names, rapid sequence intubation utilizes sedation and paralytic medications to help optimize the view for endotracheal intubation during airway management. Ultimately, our goal is to succeed on

the first pass, regardless of the specific tool, technique, or situation. How can we maximize the chance of first pass success? Join us as we discuss the ways we can insure first pass success!  
Instructor: Jeff Myers

### **MED-827 Critical Toxicological Prehospital Resuscitations**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

Acute overdoses are common in U.S. society. The number of deaths associated with poisoning has been steadily increasing. This lecture is factual and case-based and will review critical overdose management. This lecture will highlight evidence-based medicine and the subsequent appropriate therapy to perform pre-hospital. It will review when deviations from ACLS/PALS guidelines may occur for poisoning cases. Potential common prehospital management errors in overdose case care will be highlighted. Electrocardiographic changes of poisoning will be reviewed and appropriate management highlighted.

Instructor: Christopher P Holstege

### **MED-828 Challenges in the Acute Care of Angioedema, Anaphylaxis, Allergy**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

Anoxic brain injury or death is a consequence of delayed actions. Knowing what to recognize and when to use medications, with or without airway stabilization is critical. On-scene evaluation and prehospital transport can add considerable time to morbidity and mortality. Your actions or inactions determine who lives or dies. Myths and truths about commonly used medications and airway skills will be discussed. Keep in mind that a simple algorithm and a certain skill level can make the difference in patient outcome.  
Instructor: Francis X Chuidian

### **PED-1031 Pediatric Triage**

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: ALS, BLS, Educators  
Whether an act of violence, natural catastrophe, or motor vehicle pileup, a disaster is the one of the greatest challenges an EMS provider will face. These events overwhelm resources, degrade the standard of care, and require a deviation from protocol. The lack of training provided, the lack of severely injured pediatric patients in the field, and the general unfamiliarity with infants and children makes pediatric triage difficult for even the most seasoned EMS provider.  
Instructor: Michael Kaduce

### **PED-1032 The Art of Babbling**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

Communicating with children in the prehospital and acute care setting is paramount to establishing trust and recognizing acute and urgent pathology. This course will focus on how to change how EMS providers communicate with pediatric patients and how the communication needs change as a child grows. In addition, this course will cover how to talk with special populations including autistic and patients with other special needs. Lastly, we will discuss how to communicate your findings to the hospital providers who will be taking over the patient's care.

Instructor: James Burhop

### **TRA-1224 Prehospital and Acute Burn Care**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, Dispatcher, MD, DO, RNs

This course will review burn pathophysiology with a focus on early management for prehospital and emergency medicine practitioners. It will provide an overview of special topics in burn care, including inhalation injury, electrical injury, and chemical injury. In addition, we will discuss care of pediatric, adult, and geriatric patients and provide an overview of burn resuscitation and approach to patients who are not responding to resuscitation. A review of operative techniques in burn care will also be discussed.

Instructor: Michael J Feldman

### **TRA-1225 Obstetrical Trauma and Emergencies**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, MD, DO, RNs

There are multiple obstetrical emergencies. Some of these include preeclampsia, eclampsia, placental abruption, uterine rupture, and accidental and non-accidental trauma. Early recognition of these emergencies and the prompt treatment of them, often prevents adverse outcomes, and can be lifesaving for both the patient and the fetus. The diagnosis and treatment of many of these begin in the field.

Instructor: Benjamin D Blackwood

## Thursday Courses

### 4:00 PM - 5:30 PM

#### BLS-306 BLS Academy Airway Management

BLS 13 / ALS CAT 2 / 1.5 CEU

Target Audience: BLS

This is the sixth class in the BLS Academy and satisfies the 1.5 hours of Airway Management required for the 2016 NCCR/Category 1 CE requirements.

Instructor: Victoria C Lunceford

### 4:30 PM - 5:30 PM

#### ADM-123 Configuring EHR Validation Rules to Maximize Data Quality Scores

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Looking for ways to improve your agency's data quality scores? Ever wonder if there is a way to require providers to enter certain information on a patient care report? This session will show ESO EHR Administrators the most common data validation warnings and errors in Virginia and within your agency. Users will learn to navigate, enable, and adjust EHR validation rules within Admin to improve and maintain your agency's data quality.

Instructor: Christopher Montero

#### ARV-211 Inhalation Injury and Burn Airway Management

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS

Inhalation injury is often associated with early intubation for upper airway edema, but it is actually subdivided into three categories: above the cords, below the cords and systemic poisoning. These separate injuries bring some unique challenges and pitfalls for prehospital and inter-facility transport. The lecture will cover each injury type and associated care. A review of a burn airway intubation video will be included in case study format.

Instructor: Christopher Stevenson

#### CAR-416 The Sick AMI Patient

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: ALS, BLS, RNs

Cardiogenic shock secondary to myocardial malfunction has serious consequences for any patient experiencing an AMI. This presentation explains the causes, pathophysiology and mechanics behind the development of cardiogenic shock. Additionally, prehospital cardiogenic shock assessment PEARLS and the most up-to-date adopted recommendations for BLS and ALS

cardiogenic shock management will be discussed throughout the presentation.  
Instructor: Christopher Ebright

#### CRI-1115 Redefining the ABCs of Trauma, Considering Circulation First for Exsanguinating Injuries

BLS CAT 2 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, MD, DO, RNs

There has been a national push to change the ABC's of the primary surgery of trauma. The ATLS 11 version will define it as XABC's to prioritize circulation on the patient with exsanguinating injuries. This is more obvious in patients with compressible bleeding and more difficult to accomplish in patients with bleeding in the torso. This interactive talk will go over the physiology and data behind the change.

Instructor: Paula Ferrada

**Limited to: 50**

#### EDU-515 Catch Me If You Can

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Educators

With the advent of smartphones and communications gear once reserved for national intelligence agencies, students have the upper hand when it comes to cheating. However, some of the tried-and-true methods are making a comeback as well. As educators, we realize that it happens probably more than we care to admit. This session looks at the whys, hows, and methods of minimizing cheating in the classroom.

Instructor: Bill Young

#### MED-829 Challenges in Obstetrical Emergencies from the First to Third Trimester

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, Administrators, All, BLS, RNs

Pregnancy comes with anatomical and physiological changes for the woman. Resuscitation of the pregnant patient must take these changes into consideration to maximize maternal survival and thus fetal survival. The course will discuss why vital signs in a pregnant woman are not as helpful as in a non-pregnant patient and what puts a pregnant woman at risk for obstetrical emergencies.

Instructor: Francis X Chuidian

#### MED-830 Assessment and Differentials in Chest Pain

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, Educators, MD, DO, RNs

Clinical assessment is critical for patients presenting with chest pain. It is key to determining which tests

and interventions are necessary to successfully treat your patient. Not every patient with chest pain is having a heart attack. Not every patient having a heart attack is having chest pain. This lecture will review multiple chest pain differentials and the associated workup for each, as well as review current AHA recommendations. Case studies are based on actual patients and will address multiple differentials and treatment protocols.  
Instructor: Amy T Dahart

## Friday Courses

### 8:00 AM - 5:00 PM

#### PED-1033 Handtevy Instructor Course

BLS 12 / ALS 17 / 8.0 CEU

Target Audience: ALS

The Handtevy Prehospital Pediatric Instructor Course is an 8-hour live lecture and hands-on course that is intended to certify instructors to teach the Handtevy Prehospital Pediatric Provider Course at their department and earn credit. The course uses the basic tenets of ACLS training as the foundation while still covering the basic pediatric ALS principles and nuances. The course focuses on the skills needed to rapidly and accurately treat the sick and injured pediatric patient.

Instructor: Peter Antevy

Co-Instructor(s): Nate Drake, Ryan

**Limited to: 40**

#### TRA-1226 Advanced Burn Life Support

BLS 13 / ALS 18 / 8.0 CEU

Target Audience: All

The Advanced Burn Life Support (ABLS) program is the ABA's premier educational resource for the emergency care of burn injuries. ABLS programs provide knowledge for immediate care of burn patients up to 24 hours post-injury. They also support emergency and mass casualty preparedness, focusing on triage, burn survivability, patient transportation, and patient treatment. It is accredited for EMS and nursing/physician continuing education. The course is provided through a generous grant from the Old Dominion Firefighters Burn Foundation. Upon successful completion of the course, an ABLS certification will be issued.

Instructor: Christopher Stevenson

**Prerequisite: Prior registration is required and course materials will be sent electronically to prepare for class activities.**

**Limited to: 25**

## Friday Courses

### 8:00 AM - 5:00 PM

#### **TRA-1227 Advanced Moulage Techniques**

BLS 13 / ALS 18 / 8.0 CEU

Target Audience: Educators

This course provides students with realistic injuries that will grab their attention and challenge them to use their knowledge, skills, and abilities to properly respond to patient's needs and provide the proper treatment modality. Join this experienced instructor in developing your "Casualty Simulation" skills, which will cause you to stop in your tracks and ask, "...is this real or is it Memorex?" Course materials fee is \$80.00/student.

Instructor: Robert Samuel Ryalls

**Limited to: 16**

**Course Fee: \$80.00**

### 8:00 AM - 3:00 PM

#### **OPE-913 Certified Ambulance Documentation Specialist CADS**

BLS CAT 2 / ALS CAT 2 / 6.0 CEU

Target Audience: ALS, Administrators, BLS, Educators

The Certified Ambulance Documentation Specialist (CADS) course is a certification program designed to standardize and improve EMS documentation training in the United States and is applicable to all levels of EMS providers. This is the only national EMS-specific documentation certification program in the U.S. Participants receive on-site, permanent certification upon completion of the course.

Instructor: Doug Wolfberg

**Limited to: 50**

### 8:00 AM - 12:00 PM

#### **ARV-212 Airway and Resuscitation Lab**

BLS CAT 2 / ALS 16 / 4.0 CEU

Target Audience: ALS, Educators

Some of the most stressful calls in EMS are ones in which lifesaving skills are utilized. The calls are of low frequency, and skill degradation can be a factor. This lab will provide hands-on training on managing airways and honing resuscitation skills. Students will practice and perform maneuvers on difficult airways, surgical airways and resuscitation techniques. The hands-on session also includes an airway maze, which you and a partner run together. Students will have opportunities to get

hands-on with the latest technology.

Instructor: Allen Yee

Co-Instructor(s): Amanda Danahy

**Limited to: 50**

#### **BLS-307 BLS Academy Cardiovascular, Part 1**

BLS 12 / ALS CAT 2 / 4.0 CEU

Target Audience: BLS

This is the seventh class in the BLS Academy and satisfies 4 hours of the required 6 hours for the 2016 Category 1/NCCR CE requirements.

Instructor: Matthew J Snyder

### 8:00 AM - 11:00 AM

#### **OPE-914 First Responder Rehab 101**

BLS 15 / ALS 20 / 3.0 CEU

Target Audience: All

As a captain of the Metro Richmond Flying Squad, we will be explaining our role in setting up Rehab Stations at emergency scenes. National best practices and new ideas, how to start a rehab organization, and the equipment needed to get started, will be discussed. We will explore the NFPA requirements and how to meet them in your community.

Instructor: Vernon M Frayser

### 8:00 AM - 9:00 AM

#### **CAR-417 Please Stop Trying to Die**

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: ALS, BLS, RNs

This presentation will be about a case study of a patient that exhausted the normal treatment patterns for SVT and will include a review of the pathophysiology, pharmacology, interim management as well as resolution from the perspective of an ER Nurse that is also a Paramedic. The presentation will also review local SW Virginia protocols as well as protocols from the rest of the state. The target audience for this presentation is BLS and ALS providers and ER Nurses.

Instructor: Jason T Oberoi

#### **CAR-418 Hit from Behind The Challenge of Identifying Posterior and Brainstem Stroke Syndromes**

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: ALS, BLS, RNs

Posterior circulation and brainstem strokes can be just as debilitating as hemiplegic strokes but are often more subtle and easily missed. They are also much less likely to be treated as aggressively as anterior or middle circulation strokes, which the NIH Stroke Scale does a better job identifying. In this case-based session,

we will go through several examples, allowing you to better identify these devastating types of strokes.

Instructor: Jeff Myers

#### **EDU-516 Low Cost, No Cost Tech for the EMS Educator**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Educators

We live in an age that requires the use of technology for the effective delivery of educational components. At the same time, there has been no other time in which resources have been so limited towards the acquisition of these components. This presentation will exam and identify those resources that educators can find and use at little or no cost.

Instructor: Bill Young

#### **EDU-517 Fix Your Simulation in Less than 10 Minutes for Less Than 10 Dollars**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Educators

Are you looking for quick, easy and cheap/free ways to improve your simulations and scenario training? This session will give you 10 tricks and tips to improve your simulations that take less than 10 minutes or less than \$10. Tricks will include moulage options like making your own tattoo injuries, setting a scene with google, and adding dispatch audio.

Instructor: Kathleen O'Connor

#### **HEA-615 Highway Safety**

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: All

Managing an incident on today's highways has become a literal killer for many of us. This course analyzes an incident where it did not go as planned and look at incidents across the country. We will discuss how to make a plan for a successful outcome for you, your crew and the citizens. We will look at best practices on a national level and why we do some of things we do.

Instructor: John P Gannon

## Friday Courses 8:00 AM - 9:00 AM

### **MED-831 Understanding Alcohol Use Disorder for EMS Providers**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: BLS

One in 12 adults in the United States are either alcohol dependent or abuse alcohol. Often, EMS considers patients with alcohol use disorder inconvenient and they inspire irritation among us rather than compassion. This session will describe alcohol use disorder, comorbidities, and potential treatments. We will also cover binge drinking and other alcohol related presentations EMS providers might encounter. Conversation about societal and EMS perceptions of individuals with alcohol use disorder will also be included.

Instructor: Amy Eisenhauer

### **MED-832 Aortic Emergencies from Anatomy to Critical Care Management**

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: ALS, BLS, RNs

Aortic dissection and aortic aneurysm are two distinct diseases with different causes and radically different treatments. This presentation will review major diseases of the aorta featuring review of the pathophysiology, EMS treatment priorities and definitive care. The presentation includes graphics and photographs, but is "PowerPoint-light" with plenty of time for audience participation and discussion.

Instructor: Asher Brand

### **OPE-915 Load and Go's Where You Should Still Stay and Play**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, BLS, Educators, MD, DO, RNs

Sometimes patients don't fit neatly into the "Load and Go" or "Stay and Play" models. In fact, some of the sickest patients may need immediate stabilization prior to even removing them from the scene. Join us for a discussion on recognition and care of those that could benefit from remaining on scene to decrease the chances of coding during transport.

Instructor: Jeffrey D Ferguson

### **OPE-916 Unified First Response to Active Shooter - Active Killing Events**

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, MD, DO

Active Shooter/Active Killing events have been a part of the first responder

operational scenario since the 1960s and yet, only now, is there significant focus on addressing the gaps in a unified first response to these events. Using material gleaned from the study of past events, this lecture will discuss the steps needed to develop coordinated LE/Fire/EMS first response to active killing events and will explain the four most common deployment models for rapid rescue of the wounded.

Instructor: E. Reed Smith

### **OPE-917 FIT Under FIRE**

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: All

In this line of work we do an excellent job at caring for others, but we don't always take the time to focus on what's most important - our own personal health and fitness. In this class we will break down the basics and squash the "gymtimidation" factor by explaining weightlifting, cardio, and career-relative fitness techniques to help keep us performing our best when times are at their worst. This job can get serious fast, so don't wait until being strong is your only option to find out you're weak!

Instructor: Cody R Monger

### **PED-1034 EMS Simulation, Escape from the Daycare!**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

Escape Rooms are fun team-building exercises based on a theme and puzzle/problem solving that leads to an exit from the room. Bob Page has developed an EMS related scenario with high-fidelity simulation and added a theme designed to challenge EMS providers critical thinking, situational awareness, and patient assessment and management techniques. The team must find clues and solve all of the puzzles that will save the patient's life and allow a successful escape from the room. Can you solve the mystery?

Instructor: Robert E Page

**Limited to: 10**

### **TRA-1228 Acute Management of Blunt and Penetrating Chest Trauma**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: All

This lecture will review the injuries that can be sustained in both blunt and penetrating trauma; focusing on the life threatening injuries. We will discuss ways to diagnose these life threatening injuries as fast as possible and treatment options in order to stabilize the patient. We will also briefly review the important long term complications of chest trauma as they apply to the

initial management strategies.

Instructor: Megan T Quintana

### **TRA-1229 Shrinkage Cold Weather Emergencies**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, RNs

Warm-climate, or cold, at any time, the EMS provider could have a patient with a cold-related emergency. This class will discuss the physiology of heat loss and gain and the pathophysiology of cold-related emergencies such as hypothermia, frost bite and trenchfoot. Using a case study, we will discuss and become more comfortable with the hypothermic patient.

Instructor: Timothy S Redding

## 9:30 AM - 11:30 AM

### **ADM-124 Virginia OEMS Agency Inspection - Everything You Need to Know!**

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

Target Audience : Administrators

Meet your EMS Program Representatives and learn everything you need to know about pre-paring for an EMS Agency Inspection. We will review the inspection process, point out common mistakes, and answer any questions you may have. You may even hear horror stories of inspections gone wrong. This class will be informative and interactive. If you ever wondered what it takes to be an EMS agency in Virginia, this is the class for you. Brought to you by the Virginia Office of EMS Division of Regulation and Compliance Enforcement.

Instructor: Paul Fleenor

### **OPE-918 Change My Mind**

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

Target Audience: All

This session will be a panel presentation highlighting the newest research in EMS. We will tackle the most controversial topics in EMS from airway management, scope, transport destinations, accreditation, and more. Each speaker will take on a position and try to change the minds of the panel and the audience. The audience will participate live, adding comments and swaying the crowd during this lively debate.

Instructor: Kathleen O'Connor

Co-Instructor(s): Chris Kroboth, Gary Heigel, Heather Davis

## Friday Courses 9:30 AM - 10:30 AM

### **ADM-125 New Agency Officer Basics**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU  
Target Audience: ALS, Administrators, BLS, Dispatcher  
New agency officers often have many questions like: What am I now responsible for? What are the first steps I need to take? Who needs to know, how, and when? What does 501c3 mean? Do we really need a budget? What does sustainability really mean? What is a strategic plan, do we even need one? Human Resources and OSHA doesn't apply to volunteers, right? "I just got voted in because I..." In this lecture we will take a minute and cover the basics of agency officer responsibilities and accountabilities.  
Instructor: Christopher M Vernovai

### **ADM-126 Virginia EMS State Repository Data Submission and Quality Reporting Tools**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU  
Target Audience: All  
Having complete and accurate data is integral not only to maintain state compliance but also to empower agencies and other stakeholders to make sound clinical and operational decisions with confidence. The Virginia State Repository has tools available to all EMS agencies in Virginia to monitor your agency's state data submissions and quality scores. This class will familiarize agencies with software configuration, the capabilities of these tools, and how you can monitor data submission and quality trends, individual PCR data quality metrics, and agency-wide common data validation warnings and errors.  
Instructor: Christopher Montera

### **CAR-419 Playing the Scales The Basics of Stroke Scales**

BLS 12 / ALS 17 / 1.0 CEU  
Target Audience: ALS, BLS  
FAST, BeFAST, RACE, LA, NIH, oh my! There is a plethora of stroke scales out there. What do they all mean? How do they work? How accurate are they at predicting strokes? In this interactive session, we will answer these and other questions about stroke scales and the impact they have on our EMS systems.  
Instructor: Jeff Myers

### **EDU-518 Why Failure Should Always Be An Option**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU  
Target Audience: All  
None of us like to fail, but failure is where learning takes place. What if we as educators were able to change the mindset of failing as being the first attempt in learning? Creating a culture of failure is not only ok...but recommended for education. In this session participants will learn about ways of encouraging productive failure that leads towards the end goal of successful, competent paramedics.  
Instructor: Bill Young

### **MED-833 Navigating the Labyrinth, EMS Response to Hoarding Situations**

BLS 14 / ALS 19 / 1.0 CEU  
Target Audience: ALS, BLS, RNs, Youth  
Reality television has popularized hoarding disorder, but what happens before the "Got Junk" people show up? This session will discuss hoarding disorder, possible co-morbid diseases and associated treatment. Situational awareness and provider safety is of particular concern during these responses: planning and interaction with other agencies will be addressed as well.  
Instructor: Amy Eisenhauer

### **MED-834 Evidence Based Guidelines for Prehospital Pain Management**

BLS 14 / ALS 19 / 1.0 CEU  
Target Audience: ALS, Administrators, BLS, Educators, MD, DO, RNs  
Pain is one of the most common reasons for patients to call for help from EMS and therefore one of the common medication interventions made by prehospital clinicians. A recently completed national project developed a set of evidence-based guidelines for prehospital clinicians that presents new options for pain management in the field.  
Instructor: George Lindbeck

### **MED-835 The Old and the Beautiful Geriatrics 102**

BLS 15 / ALS 20 / 1.0 CEU  
Target Audience: ALS, BLS, RNs  
Patients older than 65 make up the majority of EMS calls. How good are you at treating your geriatric patient? This session will discuss common geriatric issues seen by EMS providers and the myths and misconceptions surrounding the care of a geriatric patient. We will discuss Geriatric trauma, medication mistakes and how to improve communications with geriatric patients.  
Instructor: Timothy S Redding

### **OPE-919 FIT under FIRE II**

BLS 15 / ALS 20 / 1.0 CEU  
Target Audience: All  
In FIT under FIRE, we talked about the basics of nutrition, cardio and weightlifting and how it benefits us as First Responders, but most times "the basics" leaves us with many unanswered questions. In FIT under FIRE II, we'll dig deeper into the techniques and movements of our workouts to make them as effective and safe as possible. Our communities depend on us to perform our best, when times are at their worst - don't wait until being strong is your only option to find out you're weak!  
Instructor: Cody R Monger

### **OPE-920 Palliative Care in the Prehospital Setting**

BLS 15 / ALS 20 / 1.0 CEU  
Target Audience: ALS, Administrators, BLS, Dispatcher, Educators  
Pre-Hospital personnel spend much of their time learning how to resuscitate patients, but not much time is dedicated to dealing with what happens if resuscitation fails. Topics include breaking bad news, how to support reactions when breaking bad news to loved ones, disease trajectories for patients with serious illnesses, approaches to communication in serious illness, stages, signs, and symptoms of the dying process, basic principles of assessment and managing symptoms, basic questions about hydration and nutrition near end of life, advanced directives vs POLST and basic information regarding hospice.  
Instructor: Cara Marie Jackson

### **PED-1035 Resuscitation of the Newborn, Understanding Key Differences in Neonatal Resuscitation**

BLS 12 / ALS 17 / 1.0 CEU  
Target Audience: ALS, BLS, RNs  
Resuscitation of the newborn in an uncontrolled, pre-hospital environment. This course will discuss some key differences in neonatal resuscitation and care of our smallest patients. From care of the normal newborn to providing respiratory support and medication administration will be discussed highlighting the differences between neonates and other age groups. Transport tips will also be discussed including monitoring and warming techniques.  
Instructor: Jamie Burton

## Friday Courses 9:30 AM - 10:30 AM

### **PED-1036 EMS Simulation, Escape from the Daycare!**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

Escape Rooms are fun team-building exercises based on a theme and puzzle/problem solving that leads to an exit from the room. Bob Page has developed an EMS related scenario with high-fidelity simulation and added a theme designed to challenge EMS providers critical thinking, situational awareness, and patient assessment and management techniques. The team must find clues and solve all of the puzzles that will save the patient's life and allow a successful escape from the room. Can you solve the mystery?

Instructor: Robert E Page

**Limited to: 10**

### **PED-1037 Pediatric Trauma Palooza**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, RNs

A case study in pediatric trauma with a review of JUMPStart as well as lessons learned from a car accident involving forty pediatric patients, three rescue squads, and numerous law enforcement both at the scene and when they had all arrived at the hospital. Targeted for both prehospital and in-hospital providers.

Instructor: Jason T Oberoi

**Limited to: 50**

### **SPEC-1611 How Does My Hair Look on Camera? Telemedicine as a Force Multiplier for EMS Delivery of Care**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, MD, DO

The COVID pandemic demonstrated that medical consultation/care can be provided across the internet; however, the use case was largely limited to Primary Care. What about EMS? Qualified Health practitioners through a telemedicine platform can assist EMS on scene for the treatment-in-place or diversion for lower acuity patients who have called 911 for assistance. This lecture will demonstrate the program and significant benefits of EMS-initiated on-scene telemedicine visits for both for the EMS system and the patient, including cost savings, decreasing UHU, and providing access to care for the underserved.

Instructor: E. Reed Smith

### **TRA-1230 Acute Management of Traumatic Brain Injury**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience : All

Brain injury can be sustained in a variety of mechanisms. Although we cannot affect the primary injury itself, there are many acute interventions that can be used in order to prevent secondary injury and potentially improve patient outcomes. This lecture will review the basic types of brain injury and then discuss the acute management and resuscitation of the brain injured patient.

Instructor: Megan T Quintana

### **TRA-1231 Dislocations 101**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: All

Hips, shoulders, knees, elbows, ankles, fingers - they all can (and do) dislocate. Sometimes it's obvious, and sometimes it's very subtle. These are major problems that can impact patients for the rest of their lives if diagnosis and/or treatment are delayed. Let's talk about how they happen, how to identify them, and what to do with them. We'll also discuss special considerations like dislocations after hip and knee replacements, which are far more common than you'd think.

Instructor: Alden Hemenway Newcomb

## 10:00 AM - 12:00 PM

### **ADM-127 Roadway Incident Safety and Survival**

BLS 15 / ALS 20 / 2.0 CEU

Target Audience: All

Distracted, drowsy, drunk, drugged, and disgruntled drivers are striking emergency responders and their vehicles at roadway incidents with increasing frequency. We can't change their "D" behavior, but we can control how we protect our personnel at roadway incidents. EMTs are exposed to moving traffic almost every emergency response, and roads are the most common and immediately dangerous area of operation for EMTs. It is critical that personnel safeguard themselves and the victims they are responding to assist. This session will describe strategies and tactics for safer roadway incident scene management.

Instructor: Jack Sullivan

### **ARV-213 Advanced Airway Management Practical for the EMT**

BLS CAT 2 / ALS 16 / 2.0 CEU

Target Audience: ALS, BLS

Advanced Airway Management for the EMT students will receive instruction on

the proper use of basic airway adjuncts and BVM and the proper use of extraglottic airway devices (EGD's). Students will be given ample hands-on time with each of the devices. Airway management trainers, lung simulators, and human patient simulators will be utilized to create life-like experiences for students.

Instructor: Fred Ellinger

### **CAR-420 A Rational Approach to Cardiac Arrest Management**

BLS 12 / ALS 17 / 2.0 CEU

Target Audience: All

We will discuss a rational approach to cardiac arrest management, ranging from appropriate pre-arrival therapy to BLS and ALS interventions. The most recent literature, coupled with appropriate expert society guideline references, will be used to suggest a rational strategy to cardiac arrest resuscitation. We will challenge, when appropriate, the existing dogma of resuscitation.

Instructor: William Brady

### **HEA-616 Street Violence! How Safe Are You?**

BLS 15 / ALS 20 / 2.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, Educators

It seems that assaults on providers have become such commonplace, it hardly makes the news. Providers continue to be killed and assaulted with greater frequency. Traditional scene safety classes and staging policies are not doing enough to prepare our crew members. This session allows participants to review their own personal barriers to safety and learn strategies to break them down. Listen to interviews with a paramedic who was stabbed and a police officer who was involved in a deadly shooting as they share their stories of survival.

Instructor: Robin J Davis

## 11:00 AM - 12:00 PM

### **ADM-128 Epidemiology for EMS 101**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

The class serves as an introduction to the principles of epidemiology and their application to EMS. This course will cover the basic concepts of epidemiology, including study design, measures of disease frequency and association, and outbreak investigation and surveillance. Students will learn how to apply these principles to monitor, manage, and prevent public health concerns relevant to EMS. This course will make data science approachable and useful for the EMS provider.

Instructor: Daisy K Banta

## Friday Courses 11:00 AM - 12:00 PM

### ADM-129 ESO Roadmap

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Come join Dr. Brent Myers and Chris Montera as you learn and discuss the future roadmap for ESO. Bring your ideas and thoughts for this one-hour moderated session.

Instructor: Christopher Montera

### ADM-130 Two To Fly, A Comparison of Military and Civilian Medical Flight Operations

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All, RNs

Both military and civilian helicopter assets can provide quality patient care in an expedited manner; however, understanding the differences in platforms can alter the preparation and hand-off needs of ground Fire and EMS crews. This class is a brief overview of the crew, capabilities, configuration, patient packaging, and landing zone differences between the two.

Instructor: Ashley E Camper

### ARV-214 Oxygen Smoxygen, Just Give a Lot to Everyone or Not?

BLS 11 / ALS 16 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, MD, DO, RNs

Oxygen administration is one of the most basic interventions for prehospital clinicians, but can be a very important factor for our patients. Learn how oxygen is medication just like the others in the drug box - it has indications and dosages for different patients and different situations. Learn how to fine-tune your administration of oxygen in different clinical scenarios, including trauma, brain injury, STEMI, and lung disease.

Instructor: George Lindbeck

### CAR-421 Emergency Management of Stroke

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: All

Worldwide, stroke is the second most common cause of death and third most common cause of disability. The lifetime risk of all adults to have stroke is 25%. This presentation will help you understand the pathophysiology, diagnosis, and treatment of acute ischemic stroke, with recommendations on how to improve patient outcomes using our EMS providers' Prehospital Stroke Alert Policy as an example.

Instructor: Ankur S Fadia

### CRI-1116 Ready Set Intubate! RSI Pharmacology

BLS CAT 2 / ALS 19 / 1.0 CEU

Target Audience: ALS

Does your patient need an advanced airway? Wondering what RSI drugs to use for this pending airway disaster? Want to impress the ladies with your extremely large...brain? Well look no further, this lecture will go through the indications, pharmacology, and mechanism of the drugs used for rapid sequence intubation that will get approval from even the saltiest of ER docs!

Instructor: Cara Marie Jackson

**Prerequisite: Able to provide RSI by your agency. BLS providers will be withdrawn if registered.**

### EDU-519 Item Development

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Educators

The presentation covers the methods and processes employed to develop the items that make up NR examinations. It starts with the body of knowledge and skills needed for an EMS provider to deliver competent care to patients. This domain is combined with the principles of good item writing to create meaningful, real-world questions and tasks designed to assess whether a candidate is ready to practice at a given provider level. Item development will be discussed. Attendees will also experience how novel technology-enhanced items (TEI) function and how they are developed.

Instructor: Blake Rikard

### HEA-617 Gatekeepers to Mental Wellness

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: Educators

Burnout, PTSD, and suicide awareness among EMS providers increases by the day, but many are stuck in the "EMTs don't cry," mindset. As the entry point to the profession for most providers, educators must acknowledge the difficulties related to caring for others, provide them with tools for mental wellness, and give them permission to be resilient and experience human emotions. Components of the larger picture such as fatigue, moral injury, and workplace stress, will be addressed as well as tools to develop and maintain a mental wellness mindset.

Instructor: Amy Eisenhauer

### MED-836 EMS and Midwives Wait a Midwife, is a Real Thing?

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

EMS and Midwives: "Wait, a Midwife, is a Real Thing?" Ever wondered what those crazy midwives do? Well, midwives wonder the same about EMS providers. Jessica will bridge the knowledge gap for both medical modalities. While laying out the steps to effectively working together when our patients need to be transferred to the hospital. Jessica will cover the similarities and differences of protocols and treatment plans for common reasons to transfer the out-of-hospital birth patient, i.e., postpartum hemorrhage, prolapsed cord, infant respiratory distress and more.

Instructor: Jessica Arno

### OPE-921 Crisis, Disaster Laws and the Process in Virginia

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, Educators

When disaster strikes, many in emergency services just know to show up and get 'er done. However, there are many processes at the local, state, and federal level that flow when a disaster strikes. This program will orient the participant to what really happens when floods occur, or too much snow shuts everything down, or when a non-natural disaster occurs. The participant will get an overview of what is provided in the law for disaster response and what steps government will take to initiate the response.

Instructor: Justin W Witt

### OPE-922 On-Scene EMS in Tactical Environment for Non Tactical Med Providers

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, BLS

This is a presentation for the non-tactical medical providers on what to do and expect when called to stage in a tactical/SWAT situation. The lecture will cover approach, how to stay safe, differences in EMS vs. Tactical EMS involvement, and team dynamics. The basics of tactical medicine will be covered, and help familiarize the EMS provider on how to effectively integrate with law enforcement in a high-risk environment

Instructor: Joseph P Lang

## Friday Courses

### 11:00 AM - 12:00 PM

#### PED-1038 EMS Simulation, Escape from the Daycare!

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

Escape Rooms are fun team-building exercises based on a theme and puzzle/problem solving that leads to an exit from the room. Bob Page has developed an EMS related scenario with high-fidelity simulation and added a theme designed to challenge EMS providers critical thinking, situational awareness, and patient assessment and management techniques. The team must find clues and solve all of the puzzles that will save the patient's life and allow a successful escape from the room. Can you solve the mystery?

Instructor: Robert E Page

**Limited to: 10**

#### TRA-1232 The Shocking Truth Behind Lightning Injuries

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS

This session will review the basics of lightning and then we will discuss the effects of lightning exposure to the various bodily systems. We will also explore the various Myths surrounding lightning injuries. Lastly, we will illustrate and bring it all together with case presentations of actual lightning strike patients.

Instructor: David John Sanko

#### TRA-1233 Mangled Extremities, Amputations and Replantation

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: All

Limb-threatening injuries are rare, but every EMS provider should know how to handle one in order to ensure the best patient outcome. In this class, we will discuss assessment, management, and transportation of patients with limb-threatening traumatic injuries. We will also discuss definitive management of these injuries, including answering the question, "Do you think they can put that back on?"

Instructor: Alden Hemenway Newcomb

#### TRA-1234 The Chilling Effects of Hypothermia

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, RNs

In this session, we will take a look at the effects of hypothermia on the various body systems. From understanding the trauma triad of death to paradoxical undressing, we will explore how the

body responds to hypothermia, its detrimental effects on the body, and the latest trends in rewarming and managing these patients.

Instructor: Lindsay V Mauldin

### 1:30 PM - 5:30 PM

#### ADM-131 Traffic Struck By a Panel Discussion

BLS 15 / ALS 20 / 4.0 CEU

Target Audience: All

This panel will look at the epidemic of Roadway Incidents that resulted in Emergency Responders being struck. They will address it to educate the Emergency Responder community and where we stand now, evolving technology, and strategies and tactics to protect your personnel. The effects on those who were struck and injured as well as family members whose loved one did not return from a shift. Join us to hear from those directly affected by what is becoming a rising epidemic. You will not be disappointed.

Instructor: Jack Sullivan

Co-Instructor(s): Brad Hughes, Josh Pfeiffer, Melanie Clark

**Limited to: 54**

#### ARV-215 Airway and Resuscitation Lab

BLS CAT 2 / ALS 16 / 4.0 CEU

Target Audience: ALS, Educators

Some of the most stressful calls in EMS are ones in which lifesaving skills are utilized. The calls are of low frequency, and skill degradation can be a factor. This lab will provide hands-on training on managing airways and honing resuscitation skills. Students will practice and perform maneuvers on difficult airways, surgical airways and resuscitation techniques. The hands-on session also includes an airway maze, which you and a partner run together. Students will have opportunities to get hands-on with the latest technology.

Instructor: Allen Yee

Co-Instructor(s): Amanda Danahy

**Limited to: 50**

### 1:30 PM - 4:30 PM

#### ADM-132 "We Know We Need Members, but Where do We Start? And Then What?!" Recruitment & Retention Planning

BLS CAT 2 / ALS CAT 2 / 3.0 CEU

Target Audience: ALS, Administrators, BLS, Educators, Youth

Establishing and maintaining an effective recruitment campaign is essential for any agency, but equally

important are our retention campaigns to maintain our ranks. In this course we will explore the processes of identifying, creating and carrying out a successful recruitment and retention program. We will identify some best/worst practices for recruitment and retention. Learn about some programs and approaches to welcoming new members and keep those we have as well. What practices have worked or failed for your agency? How can we make it better for your agency and community?

Instructor: Christopher M Vernovai

#### MED-837 Get Ready to Catch!

BLS 14 / ALS 19 / 3.0 CEU

Target Audience: All

In a fun and exciting hands-on environment, Jessica will be answering all of those tough questions: "Where do I put my hand? How do babies transition? What the heck do I do with the placenta? Can I deliver a breach baby? Is TXA used for a postpartum hemorrhage?" All while gifting YOU midwife skills like basic OB assessment, palpating fetal position, recognizing complications, and assessing fetal heart tones. Get Ready to Catch!

Instructor: Jessica Arno

**Limited to: 25**

#### TRA-1235 How to Fix a Fracture, Orthopedics 101

BLS CAT 2 / ALS 18 / 3.0 CEU

Target Audience: ALS, All, MD, DO, RNs

Ever wanted to be a surgeon for a day? Now is your chance to "scrub in," put on your orthopaedic surgeon hat, and go to work! We will start with an overview of musculoskeletal trauma that includes upper and lower extremity orthopedic injuries, pelvic fractures, trauma kinematics, field immobilization/splinting, EMS transport considerations, and the basics of definitive fracture fixation. After the didactic portion, you will work on advanced splinting techniques and get to use real orthopedic hardware and instruments to fix fractures on model bones!

Instructor: Alden Hemenway Newcomb

**Limited to: 30**

## Friday Courses

### 1:30 PM - 3:30 PM

#### **BLS-308 BLS Academy Cardiovascular, Part 2**

BLS 12 / ALS CAT 2 / 2.0 CEU

Target Audience : BLS

This is the eighth class in the BLS Academy and satisfies 2 hours of the required 6 hours for the 2016 Category 1/NCCR CE requirements.

Instructor: Matthew J Snyder

#### **OPE-923 Who Let the Dogs Out?**

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

Target Audience : All

This presentation will expose the provider to the types and disciplines of canines used in the Fire and EMS field. We will include arson, drug, bomb, USAR, healthcare, wilderness Search, therapy, and patrol canines, where they are, how they work and where to call to get them. You will be able to meet working canines and ask questions of their handlers.

Instructor: Vernon M Frayser

**Course Fee: \$75.00**

### 1:30 PM - 2:30 PM

#### **ADM-133 2023 ESO EMS Index Performance Measures & Best Practices**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Now in its fifth annual installation, the ESO EMS Index provides a look at national performance from more than 2,000 EMS systems on evidence-based measures, including hospital outcome data. Whether you're just starting a quality improvement program or you're an expert in putting improvement science into practice, this is a discussion you won't want to miss.

Instructor: Christopher Montera

#### **ARV-216 Medication-Assisted Intubation - It's Not a Paramedic- Only skill**

BLS CAT 2 / ALS 16 / 1.0 CEU

Target Audience: All

Learn about the medication-assisted intubation (MAI) procedure and what the non-MAI certified provider can do to assist the MAI Paramedic. This is a lecture with a practical component.

Instructor: Carolyn A Trent

#### **CAR-422 Stroke or No Stroke**

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: ALS, BLS, Dispatcher, Educators

This lecture will include case reviews for different common stroke presentations

along with common stroke mimics, to include hypoglycemia, sepsis, and polypharmacy. We will be discussing how to identify large vessel occlusion strokes, the various stroke scores available for prehospital providers, and potential interventions to help identify stroke mimics.

Instructor: Cara Marie Jackson

#### **CRI-1117 Case Reviews for the Advanced Provider-Version 6**

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience: ALS, BLS, RNs

Each participant will be given actual case review presentations for the ALS provider with a generous mix of medical and trauma cases to test even the most experienced provider. Each participant will be given the patient's presentation from the EMS perspective and then the case will be followed through the hospital course on to discharge. Participants will be given actual EKG tracings, radiographic films, lab's, radio reports and assessments to determine the case progression. This will be an interactive course with plenty of audience participation

Instructor: David John Sanko

#### **EDU-520 National Registry Update**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

National Registry of Emergency Medical Technicians staff will discuss what's new at the National Registry and you'll learn about Scaled Scoring, AEMT Student Minimum Competency, and any important changes to policies and procedures. Following the presentation, you'll have the opportunity to share your reactions and viewpoints.

Instructor: Blake Rikard

#### **HEA-618 Understanding Identity from an EMS Perspective**

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: All

Patient care by EMS should always include compassion, respect, and equitable treatment, no matter the patient's complaint or situation. However, EMS providers may struggle with how to respectfully address, care for, or interact with patients from the LGBT+ community or those patients who may be gender nonconforming. This presentation will feature EMS professionals that represent these groups that can answer the questions that EMS providers may be unsure of how to ask and provide insight for how to gain understanding of these diverse communities.

Instructor: Cody G Jackson

#### **HEA-619 Never Enough! A Cautionary Tale! The Story of ME**

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, Educators, MD, DO, RNs

There is a stigma in public safety that's quite literally killing us. We say we're a brotherhood, a sisterhood, but there's a stigma that forces us to "be strong", "suck it up", and other helpful terms. We're afraid to say "I'm not ok". I want to share my personal story dealing with loss, stigma and the suicidal ideations. Facing it head on and opening up to prove it's ok to not be ok. We can do better. We need to recognize that sucking it up, is killing us.

Instructor: Robin J Davis

#### **MED-838 Rave New World**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, Dispatcher, Educators, MD, DO, RNs

This comprehensive lecture aims to provide EMS providers with the essential knowledge and skills to manage rave drug-related emergencies in the pre-hospital setting effectively. With the increasing popularity of raves and electronic dance music events, EMS providers must be equipped to handle the unique challenges that these environments present. In this lecture, we will explore the most common drugs found at raves. We will delve into their pharmacological properties, side effects, and potential for abuse, as well as the signs and symptoms of overdose.

Instructor: Lindsay V Mauldin

#### **MED-839 Toxicology Terrors WINNING at Treating Tox Patients**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, MD, DO, RNs

This course will cover various prescription and illegal drugs. We will discuss how to identify poisonings and overdoses. Using the knowledge we will gain about toxidromes and their particular signs and symptoms, the student will learn how to diagnose and treat common and uncommon toxicology emergencies such as Sympathomimetics, Cholinergics, Anticholinergics and more.

Instructor: Timothy S Redding

## Friday Courses

### 1:30 PM - 2:30 PM

#### **OPE-924 Why Are You so Mean to Me? The Challenge of Working With and Motivating the Next Generation of EMS Professionals**

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: All

Are you frustrated by the younger generation and what appears as apathy and lack of personal responsibility in your EMS classroom? The millennium generation is just the latest installment of the generational gap entering EMS classrooms. The question we must continuously ask our-selves as professional educators is: how do we communicate effectively with each and every student to achieve successful learning outcomes? This presentation will discuss the generational divide and how to work with every student, regardless of their "generational identity," to motivate and ensure success in our classrooms.

Instructor: Bryan F Ericson

#### **OPE-925 Documentation in the Digital Age and the Importance of the Narrative**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Educators

With the advent of tablets and documentation software, the importance of the patient care narrative has seemingly become overlooked in lieu of data points and data fields. This program will cover the importance of the patient care narrative despite the addition of data elements and fields currently in use by various patient documentation platforms and discuss what should be captured and how this information can be properly captured for use by not only the receiving hospital but also the provider should this matter come under attack in a legal action.

Instructor: Justin W Witt

#### **OPE-926 Persuasiveness, the Art of Informed Consent**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, Educators, MD, DO, RNs

Have you ever had the patient who you just could not convince to go to the hospital? Come learn different strategies on how to get the patient who needs to go to the hospital but refuses for different reasons. Learn communication with not only the patient, but those involved with the patient care.

Instructor: Daniel Frazier

#### **PED-1039 EMS Simulation, Escape from the Daycare!**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

Escape Rooms are fun team-building exercises based on a theme and puzzle/problem solving that leads to an exit from the room. Bob Page has developed an EMS related scenario with high-fidelity simulation and added a theme designed to challenge EMS providers critical thinking, situational awareness, and patient assessment and management techniques. The team must find clues and solve all of the puzzles that will save the patient's life and allow a successful escape from the room. Can you solve the mystery?

Instructor: Robert E Page

**Limited to: 10**

#### **PED-1040 Congenital Heart Defects and Caring for Children in Various Stages of Repair**

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience: ALS, Educators, RNs  
Children with congenital heart defects (CHD) often require staged repairs that present a unique challenge to EMS providers caring for them in the community. From trauma, to the common cold, shunt occlusion, or heart failure, understanding the most common heart defects and interventions assists with creating a treatment plan to maximize your patient's outcome. We will walk through fetal heart development, transition to extrauterine life, and care of the pre- and post-surgical child with a congenital heart defect.

Instructor: Elizabeth Scott

#### **SPEC-1612 Training for Tragedy--Helicopter Emergency Accident Training--HEAT for First Responders**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience : All

Carilion Clinic Life-Guard developed a new training program geared towards the first responders that will help the flight crew in the case of an aircraft emergency. First responders have always been close partners with the flight crew in safety, but they often lack hands-on training with aircraft related emergencies and how to assist the flight crew in the event of a hard landing. This presentation will cover how this training was developed and implemented locally with great success and will cover the PowerPoint portion of HEAT training.

Instructor: Chelsea White Sibold

#### **TRA-1236 Improving Survival in Civilian Active Violence and Intentional Mass Casualty Events**

BLS 15 / ALS 20 / 1.0 CEU

Target Audience : ALS , Administrators, All, BLS , MD, DO, RNs

Active violence and intentional mass casualty events continue to occur worldwide leading to numerous deaths, a portion of which may be preventable. The purpose of this talk is to discuss the current scientific literature on preventable deaths in the civilian population following violent events and lessons learned, and to propose an evidenced-based, best-practiced-based whole-community approach to improve survival.

Instructor: E. Reed Smith

#### **TRA-1237 Fall from Height, Gravity Always Wins**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: All

This lecture addresses the trauma patient who has sustained blunt trauma after a fall from height. We will review the differential diagnosis of injuries that can be sustained from falls from height. We will pay special attention to the management of complex pelvic fractures, including acute / initial resuscitation and stabilization measures.

Instructor: Megan T Quintana

### 3:00 PM - 5:00 PM

#### **ADM-134 Preparing for Virginia Board of Pharmacy Licensing or Inspection**

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

Target Audience: ALS, Administrators, Educators, MD, DO

The Board of Pharmacy Presentation will cover how to compliantly apply for EMS Agency licensure and prepare for an inspection. More information to be added once the program has been completed by BOP. This program will detail how to determine which Controlled Substance Registration Certification an EMS agency should apply for and then how to compliantly prepare for a Board of Pharmacy Inspection.

Instructor: Ronald D Passmore

Co-Instructor(s): Beth O'Halloran, Ryan Logan

## Friday Courses

### 3:00 PM - 5:00 PM

#### ARV-217 A Cut Above the Rest, The Failed Airway and Emergency Front of Neck Access

BLS CAT 2 / ALS 16 / 2.0 CEU

Target Audience: ALS, MD, DO, RNs  
Emergency front of neck access, or eFONA is the final pathway in the management of the failed airway. In this didactic and hands-on session students will review the failed airway algorithm, paying particular attention to cricothyrotomy. Surgical cricothyrotomy using the scalpel/finger/bougie technique will be reviewed. In addition to surgical technique, needle cricothyrotomy will be discussed. At the conclusion of the didactic session, students will have the opportunity to practice the procedures on swine models.

Instructor: Fred Ellinger

**Prerequisite:** ALS provider.

**Limited to: 25**

**Course Fee: \$10.00**

#### CAR-423 Acute Coronary Syndromes with Heart Dissection

BLS 12 / ALS 17 / 2.0 CEU

Target Audience : ALS , Administrators, All, BLS , Dispatcher, Educators, MD, DO, RNs, Youth

Chest pain accounts for six million annual ER visits in the US. It is important for emergency providers to differentiate between life-threatening and benign causes of chest pain. This presentation will help you understand the pathophysiology, diagnosis, and treatment of STEMI, non-STEMI, and unstable angina. We will review EKGs and end with an actual pig heart dissection.

Instructor: Ankur S Fadia

#### CRI-1118 The ECG for the EMS Provider -- Challenging Case Presentations

BLS CAT 2 / ALS 17 / 2.0 CEU

Target Audience: ALS, Educators, MD, DO, RNs

We will present ECG cases, discuss interpretation of the electrocardiogram, and consider management issues related to the patient's presentation and ECG findings. We will consider presentations involving ACS, dysrhythmias, and other issues seen in the EMS setting. The class will stress interpretation findings which impact prehospital care, including urgency of transport, potential hospital destination changes, medication administration, and other interventions.

Instructor: William Brady

**Limited to: 64**

#### HEA-620 Stress First Aid

BLS 15 / ALS 20 / 2.0 CEU

Target Audience: All

Stress First Aid (SFA) is a framework for peer support and self-care for health care professionals. The SFA framework is parallel to how a clinician or first-responder approaches physical first aid, intervening when needed to remove the stressor, prevent further harm, and promote recovery for those who have been strongly affected by significant stress. Individuals or teams can be developed to employ this framework in order to support their colleagues. We will look at the five essential needs related to resilience and recovery in self-care or that of a colleague.

Instructor: Shannon A Daniel

Co-Instructor(s): Tarsha Robinson

#### LMGT-712 Emergency Management and the Law, Necessary Partners When it All Falls Apart

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

Target Audience: ALS, Administrators, BLS, Educators, MD, DO

This course will introduce the participant to the functions of Emergency Management with government in times of disaster, with respect to coordination of government activities and response. This course will also take a look at the legal requirements and processes that are necessary in order for Emergency Managers and governmental executives to function and have the authority necessary to mitigate disasters and community emergencies. This program will also examine the steps necessary to declare a disaster and initiate disaster response.

Instructor: Justin W Witt

Co-Instructor(s): Ray Whatley

### 3:00 PM - 4:00 PM

#### ADM-135 Demonstrating the Value You Add to Your Community

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Frequently, first responders are asked, "What do you do when you're not responding to an emergency?" or those that ask the questions, "What do you do all day?" This presentation will discuss the value-based actions that are done and can be done in your community that should be reported out on to governing bodies and customers. This will include Community Risk Reduction, Service Delivery, Personnel Education, and impacts to the financial, safety, and growth of the community without those actions.

Instructor: Christopher Montera

#### ARV-218 RSI, RESUSCITATION Sequence Intubation

BLS CAT 2 / ALS 16 / 1.0 CEU

Target Audience: ALS, Educators, MD, DO, RNs

There is nothing particularly fast about paralyzing and intubating a patient, and it is a highly complex intervention with significant risks. We don't want to waste time, but our historical focus on the RAPID part of RSI has been off-target in EMS. This presentation will look at the challenges of paralytic-assisted intubation, explore the concepts of Delayed Sequence Intubation (DSI), outline criteria for anticipating difficult intubations, and examine and review the priorities and truly critical components of airway management.

Instructor: Gary A Heigel

#### CRI-1119 TXA Not Just For Trauma

BLS CAT 2 / ALS 18 / 1.0 CEU

Target Audience: ALS, All

A case study review of an air medical services patient with angioedema that was resistant to other medication modalities, but responded to the administration of tranexamic acid (TXA).

Instructor: Carolyn A Trent

#### EDU-521 Maximizing Learning Through Positive Culture and Climate

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Administrators, Educators, MD, DO

How learners and employees feel about the environment they are in impacts learning and performance in powerful ways. Strengthen your understanding of how to optimize success using curricular design, lesson planning, and organizational culture strategies that manage cognitive load and lead to improved memory, deeper understanding, and a more welcoming environment for all learners and employees.

Instructor: Heather Davis

#### EDU-522 Using Humor Effectively in the EMS Classroom, Are They Laughing or Are They Learning?

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Educators

Laughter may be the best medicine, but does it provide for sound teaching and education? When used correctly it enhances and motivates the class, but when used incorrectly, can you ensure learning takes place? Do you ever find yourself asking, are my students learning from me or are they just laughing? Do you struggle with even being funny? This presentation will help new and veteran instructors alike to better understand and use humor as an effective teaching tool. Proper and improper uses of humor will be discussed.

Instructor: Bryan F Ericson

## Friday Courses

### 3:00 PM - 4:00 PM

#### **HEA-621 Stress and Women in First Responder Roles**

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: ALS, BLS, Educators, Youth

The presence of increased stressors in emergency response and the need for mental wellness among first responders are becoming commonly accepted in our communities, but is there a difference between how male and female first responders experience and process these stressors? This class will include discussion on stressors unique to female first responders, mechanisms and tools female first responders use to mitigate and respond to work-related stress, and tools all responders can use to mitigate workplace stress.

Instructor: Amy Eisenhauer

#### **LMGT-713 To Lead or Not to Lead That is the Question**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Administrators

Leading an organization can be a lot. Whether you are in a leadership position in a volunteer or career agency, your work world is filled with decisions, that impact both your organization and the public. Understanding various elements of leadership, including both specific skills such as delegation, effective communication, and managing change, as well as more strategic processes, is oftentimes the difference between success and failure as a leader. In this presentation, Ray will review these and other areas and guide you through the daunting world of EMS leadership.

Instructor: Raphael M. Barishansky

#### **MED-840 Syncope - Innocent Fainting or Lethal Arrhythmia**

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: ALS, BLS, RNs

Was your patient's syncope because she was just overwhelmed? Or could it have been transient VT? If you have ever wondered what you should be looking for in the EKG of your syncopal patient, this is the presentation for you. The companion lecture to "Can't Miss Cases in Pediatric Cardiology", this presentation covers recognition of WPW and long QT syndromes in depth. You will walk away feeling confident that you understand these lethal causes of syncope and that you will be able to recognize them and save a life.

Instructor: Tiffany Bombard

#### **MED-841 BRUE: Management of Brief Resolved Unexplained Events**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS

BRUE (Brief Resolved Unexplained Events) is an infrequent but often frightening occurrence in infants. This session will explore BRUE's definition, clinical presentation, and management. We will then explore the clinical presentation of BRUE and discuss the essential clinical features that can help distinguish it from other conditions. We will also examine the potential causes of BRUE, including reflux, seizures, and cardiac abnormalities. In addition, we will discuss the various management strategies for BRUE based on the National Model EMS Clinical Guidelines.

Instructor: Kyle David Bates

#### **MED-842 Sex Matters - How Your Care May Endanger Your Female Patients**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, Educators, MD, DO, RNs

Let's talk about (biological) sex (male vs female.) The history of medicine, what we know, and how we practice has mostly been led by men. Due to normal human bias, this has led to a very male-centric model of medicine. Did you know most medical research does not involve female participants, particularly including new drugs? Come learn how these biases have led to missed diagnoses and inappropriate treatment and how to avoid them while treating your next female patient.

Instructor: Timothy S Redding

#### **OPE-927 Thinking Outside the Box**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Bored with your career? There are choices! In this lecture, we will explore career options for EMTs and Paramedics outside the typical 911 or interfacility transport job. From contracting overseas to oil rigs to working on a movie set, there are so many career options which expand outside the box.

Instructor: Charles Debonis

#### **PED-1041 EMS Simulation, Escape from the Daycare!**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

Escape Rooms are fun team-building exercises based on a theme and puzzle/problem solving that leads to an exit from the room. Bob Page has developed an EMS related scenario

with high-fidelity simulation and added a theme designed to challenge EMS providers critical thinking, situational awareness, and patient assessment and management techniques. The team must find clues and solve all of the puzzles that will save the patient's life and allow a successful escape from the room. Can you solve the mystery?

Instructor: Robert E Page

**Limited to: 10**

#### **TRA-1238 Everything SCUBA**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, MD, DO, RNs

Everything you've ever wanted to know about SCUBA diving and the unique injury patterns associated with extremes of pressure. We will focus on prehospital identification and evaluation of dysbarism, gas emboli, gas narcosis, and decompression sickness. Special focus on unique treatments, including hyperbarics and the Divers Alert Network (DAN). Bonus: includes lots of pretty pictures of reefs, shipwrecks, and cave diving!

Instructor: Brian D Ekey

#### **TRA-1239 Prehospital Care of the Drowned Patient**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, Educators

Caring for a drowning victim can be a challenge. This lecture will cover topics including why the history of the drowning is so vital to obtain, the interventions that have been proven to benefit patient outcome and overall mortality, and the environmental risk factors that need to be considered in each unique case, from fresh water to sea water, from swift water to standing. The goal is to return to your agency with a new appreciation for how to prepare and care for the next drowning victim you encounter.

Instructor: Cara Marie Jackson

## Friday Courses

### 4:30 PM - 5:30 PM

#### **ADM-136 2022 ESO Trauma Index**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Compiled from nearly 600 participating facilities, the 2022 ESO Trauma Index was designed to serve as a starting point for discussions around quality improvement and alignment with national standards of care. The main topics for this Trauma Index include whole blood usage, time to antibiotics in open long bone fractures (and how it differed based on age), time to surgical repair for geriatric patients with hip fractures, frequency of specific hospital events, and the injury severity score (ISS) breakdown by hospital and trauma center levels.

Instructor: Christopher Montera

#### **ADM-137 Virginia Data Hot Topic**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

In this session, participants will learn about the latest trends in Virginia EMS data and see how EMS patient care reports are being used to improve the health of Virginia citizens on a daily basis. Join us to hear what's been happening in your EMS council region and around the state!

Instructor: Jessica Rosner

#### **ARV-219 Everything RSI**

BLS CAT 2 / ALS 16 / 1.0 CEU

Target Audience: ALS, Administrators, MD, DO, RNs

This course covers everything you ever wanted to know about setting up and maintaining a Critical Care RSI program. Have you noticed the growing number of studies that do not recommend RSI? Have you noticed how those studies usually contain an exception/exclusion for "critical care" providers? What does "critical care" even mean? Come learn what it means to establish and run an RSI program that is worthy of the title "Critical Care".

Instructor: Brian D Ekey

#### **CAR-424 Sgarbossa Finding the STEMI in Your Patient with Left Bundle Branch Block**

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience : All

Whoever taught you that STEMI is unrecognizable in patients with left bundle branch block or a paced rhythm was just plain, straight up wrong. This is exactly the situation for which the Sgarbossa criteria were made. This presentation will teach you to

recognize STEMI every time, in an easily approachable, memorable way. You will leave the room with confidence, ready to teach others.

Instructor: Tiffany Bombard

#### **CAR-425 Perikardion**

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: ALS, RNs

Through an interactive presentation, case studies, and discussions, participants will gain a deeper understanding of the pathophysiology, field diagnosis, and management of pericardial disorders, including acute and chronic pericarditis, pericardial effusion, cardiac tamponade, and constrictive pericarditis. In this session, we will also explore the relationship between COVID-19 and patients with pericarditis.

Instructor: Kyle David Bates

#### **CRI-1120 Finger Thoracostomy Case Studies and Lessons Learned**

BLS CAT 2 / ALS 18 / 1.0 CEU

Target Audience: ALS, Educators, MD, DO, RNs

This presentation will cover the development and introduction of Carilion Clinic Life-Guard's new finger thoracostomy protocol, which was introduced in September 2022. The presentation will go on to discuss the required and optional trainings that the flight crew attended in preparation of performing this new skill. It will also cover the case studies that have occurred in Carilion Clinic Life-Guard's service region since this protocol was introduced including patient outcomes following the procedure. There will also be lessons learned with insight included from Carilion Clinic Life-Guard's medical director, Dr. Inman.

Instructor: Chelsea White Sibold

#### **CRI-1121 Medical Case Reviews for the Advanced Provider-Version 1**

BLS CAT 2 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, RNs

Each participant will be given selected actual case review presentations for the ALS provider. These are all actual medical cases to test even the most experienced provider. Each participant will be given the patient's presentation from the EMS perspective and then the case will be followed through the hospital course on to discharge. When available, participants will be given actual EKG tracings, scene photos, radiographic films, lab values, radio reports, and assessments to determine the case's progression. This will be an interactive course with plenty of audience participation.

Instructor: David John Sanko

#### **EDU-523 Applying the Science of Learning**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Administrators, All, Educators

Educational psychologists have determined how best to teach for maximum retention. Come learn how to apply these simple principles to your teaching and learning any topic at any level. We will address concepts such as cognitive load, guided practice, scaffolding, and distributed practice in a way that allows you to implement small, powerful, changes in your very next class! Whether you are a current student or teaching anything from soccer to CPR to a full paramedic program, this session will help you understand how we process and retain information best.

Instructor: Heather Davis

#### **LMGT-714 Standing Behind Your Team - How Accountability Transforms Managers into Leaders**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience : Administrators

Leadership demands accountability. Taking responsibility for your own actions, as well as the actions of your EMS agency, is a necessity in the modern-day EMS operating environment. A number of key behaviors emerge as truly distinguishing those leaders who are truly accountable from the rest. Accountable leaders clearly communicate their goals, accept responsibility when things go wrong and give credit for success where it is due. Ray will review these behaviors in this informative presentation, drawing on real-world examples from when leaders have, and have not, chosen to be accountable.

Instructor: Raphael M. Barishansky

#### **MED-843 Service With a Smile**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience : All

Many psychiatric calls are purely behavioral in nature. They are often the result of overwhelming and cumulatively stressful events. Most require little more than reassurance and comfort from the health care provider. We may, however, lose sight of providing such compassion secondary to the accumulated stress we face ourselves in EMS. By learning how to honor your-self, you can most often disarm behavioral confrontations without the use of restraints and/or medication.

Instructor: Steven W Berry

## Friday Courses

### 4:30 PM - 5:30 PM

#### **MED-844 Ketamine? Treatment or Felony?**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, MD, DO, RNs

Is Ketamine the best thing ever in your EMS toolbox, or a dangerous drug that could have you facing criminal charges if you give it? Medical research and recent news stories suggest that it may be both. This presentation will provide a concise examination of both sides of this argument. I will review how Ketamine works, appropriate dosing strategies, and evidence-based suggestions for treatment. We will also examine the controversy around Ketamine use in EMS, review examples of bad outcomes, and identify the facts surrounding high-profile cases of alleged misuse.

Instructor: Gary A Heigel

#### **OPE-928 Who's Looking at You**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

In one way or another we look at ourselves as a role model, while some will even consider themselves to be a mentor. Learn the difference in what each has to offer. Look to learn what the difference between a Mentor and Preceptor is and should they be looked at the same way.

Instructor: Daniel Frazier

**Limited to: 54**

#### **PED-1042 EMS Simulation, Escape from the Daycare!**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

Escape Rooms are fun team-building exercises based on a theme and puzzle/problem solving that leads to an exit from the room. Bob Page has developed an EMS related scenario with high-fidelity simulation and added a theme designed to challenge EMS providers critical thinking, situational awareness, and patient assessment and management techniques. The team must find clues and solve all of the puzzles that will save the patient's life and allow a successful escape from the room. Can you solve the mystery?

Instructor: Robert E Page

**Limited to: 10**

#### **TRA-1240 Shocking! Electrical and Lightning Injuries in EMS**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: All

This presentation is to highlight and discuss both electrical and lightning injuries that EMS providers may encounter in the field. We will focus on identifying and treating high and low voltage injuries, as well as scene safety. We will also discuss common problems associated with electrical injuries. There will be highlights on identifying and treatment of lightning injuries, and associated injuries, as well as treatment and transportation issues.

Instructor: Joseph P Lang

#### **TRA-1241 Hole-y Trauma Batman: Body Cavity Injuries**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, Educators, MD, DO, RNs

The body, for all it holds, is essentially a bunch of big holes! What we call body cavities contain organs and protect them from injuries. However, they are not impervious and can be damaged by traumatic force. The fluid position of cavities is a major factor when treating trauma. We should assume there may be crossover injuries and look for clues. This course will take us on a Hole-y journey through the body to look at various body cavity traumas and how we should approach it in assessment and treatment.

Instructor: Rory S Putnam

## Saturday Courses

### 8:00 AM - 5:00 PM

#### **OPE-929 Integrating Heavy Wreckers into Rescue Incidents**

BLS CAT 2 / ALS CAT 2 / 8.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, Educators, MD, DO  
NFPA 1670-2017 requires that fire departments should provide training on the use of commercial heavy wreckers to assist at rescue incidents involving large vehicles. The proper use of heavy wreckers can greatly shorten extrication time while also providing a much safer working environment. This course provides the student with key information and industry best practices on the operation of heavy wreckers, how heavy wreckers operate, how to establish a working relationship with a wrecker company before the incident, requesting a wrecker and inter-facing with the heavy wrecker operator.

Instructor: John E. Burruss

**Limited to: 30**

## Saturday Courses

### 8:00 AM - 9:00 AM

#### **ARV-220 High Performance Ventilation, The Virginia Simulation Experience**

BLS 11 / ALS 16 / 1.0 CEU

Target Audience : ALS , Administrators, BLS , Educators, MD, DO

In this eye-opening session, Bob lays out the incredible findings of a 2022 statewide high-fidelity simulations and high-performance ventilation. During 2022, Bob collected data from over 30 classes statewide with over 500 BLS and ALS Providers. Students performed ventilations on high-fidelity simulators, monitoring rate, volume, and pressures. Bob gathered baseline data, and then used state-of-the-art feedback devices to show ways to improve ventilations and help students develop muscle memory. After the training, marked skill improvements were measured in all measured parameters. Come see some sweeping recommendations.

Instructor: Robert E Page

#### **CAR-426 Occlusion MI, Rethinking the STEMI Paradigm**

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience: ALS, Educators, MD, DO

For decades, paramedics have used the 12-lead ECG STEMI paradigm to identify acute MIs requiring emergent catheterization. But for some time we've known this paradigm is deeply flawed, missing many MIs that require emergent intervention. A new paradigm, Occlusion MI, has arisen to take its place. The OMI paradigm includes traditional STEMI, as well as other 12-lead ECG entities, including hyperacute T waves, Wellens Syndrome, DeWinter T Waves and the Smith-Modified Sgarbossa Criteria for LBBB. We'll explore how to identify these must-know 12-lead ECG entities.

Instructor: Eric Jaeger

#### **CAR-427 Cardiac Case Reviews for the ALS Provider**

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience: ALS, BLS

Selected actual cardiac case review presentations for the ALS provider. Each participant will be given the patient's presentation from the EMS perspective and then the case will be followed through the hospital course on to discharge.

## Saturday Courses

8:00 AM - 9:00 AM

Participants will be given actual EKG tracings, radiographic films, lab values, radio reports, and assessments to determine the case progression. This will be an interactive course with plenty of audience participation. Topics covered include, wide complex tachycardias, Cardiogenic shock, TakoTsubo cardiomyopathy, Prolonged QT interval and TDP, and Arrhythmogenic Right Ventricular Dysplasia.

Instructor: David John Sanko

### **CRI-1122 A Cut Above: Needle and Surgical Cricothyrotomy Emergency Airways**

BLS CAT 2 / ALS 16 / 1.0 CEU

Target Audience: All

Sometimes things don't go as planned. EMS prepares for this, but we don't always practice and feel comfortable handling high-acuity/low-frequency events. Paramedics are trained, but statistics show they lack confidence and experience in performing needle and surgical cricothyrotomy. This course will take us on a visual journey, discussing and reviewing necessary alternative airway plans, devices, methods and cover some well-established, low tech and in-expensive ideas to practice these skills to stay as proficient as possible to be ready when the good airway goes bad!

Instructor: Rory S Putnam

### **EDU-524 Meeting the Mark, EMS Education Program Site Visits**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Educators

With the transition to competency-based education and away from psychomotor skills testing, the Virginia OEMS launched a Quality Assurance initiative in 2023 where OEMS staff conduct site visits to EMS educational programs across the Commonwealth to learn how courses are being developed, conducted, and, at the end, formally evaluated. This course will review the site visit process from start to finish, detail what items are reviewed during the visit, and answer any questions about the process itself.

Instructor: Cody G Jackson

### **EDU-525 Simulation Made Easy? Just Do It!**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Educators

Effective simulation training doesn't require expensive manikins or a large staff. This presentation will empower participants to facilitate realistic and effective simulations with ease, using equipment, staff, students, environments, and resources readily available to educators. Discussion will include how to select and set up the simulation location and design, student or end-learner scenario integration, and the basics of debriefing. Participants will take home practical ideas they can implement right away.

Instructor: Gary A Heigel

### **HEA-622 Trafficking and EMS - The Victims of Service Patient**

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: All

Human trafficking, modern day slavery, is the fastest-growing industry in the world. Let's take a look at human trafficking from an EMS perspective. As a responder, we are most likely the first on scene. In this class, we will answer these questions and so much more: What are the classifications of human trafficking? What is EMS' role in ending human trafficking? How does EMS address this issue while simultaneously effectively treating the victims of service?

Instructor: Jessica Arno

### **LMGT-715 I Went to Concerts and All I Came Home With Were Lessons in Leadership and an Overpriced T-Shirt!**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Who doesn't love attending a concert with your favorite musician, band, etc? The sights, sounds, good times, memories, and of course, the overpriced merchandise and concessions. But have you ever been jamming out mid-concert and had several leadership lessons hit you like an 808 drum? No, you say, luckily for you, I did at several shows in 2022 and actually remember most of them. So get your tickets to the show and join me for some music-inspired leadership lessons.

Instructor: Christopher H Jett

### **MED-845 Medical Transport Associate Infections**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: Administrators, Educators, MD, DO, RNs

Medical Transport-Associated Infections are now gaining more importance! Medical facilities are really focusing on

how care is rendered in the field and if that care results in the patient acquiring an infection. The Health Care Law - Omnibus Act of 2009 states that medical facilities may not get government money for infections that are diagnosed two days after admission that are not related to the patient's admitting diagnosis. What does the current data reveal about this issue and what can be done to address this issue.

Instructor: Katherine H West

### **MED-846 Cases In Black and White Life Saving Cases You Can't Afford To Miss**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

Geared toward ALS and BLS providers, this presentation gives a fascinating look at common, critical case presentations using radiographic imaging. You will hone your recognition and treatment skills to help you save a life.

Instructor: Tiffany Bombard

### **MED-847 Everything Marijuana**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, Educators, MD, DO, RNs

This course will cover everything you've ever wanted to know about weed. We will discuss the medical implications of pot and its various forms, including flowers, edibles, and concentrates (wax, oil, shatter, etc). The current state of Virginia and federal laws concerning Mary Jane will be reviewed. Emphasis will be placed on prehospital recognition and treatment of suspected intoxication and overdose of the devil's grass, including Cannabis Hyperemesis Syndrome. Sorry, no personal stories included!

Instructor: Brian D Ekey

### **OPE-930 You Can't Lead a Team of One**

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Educators

This class will look at shifting staffing and personnel trends to help your organization recruit and retain personnel. What are people looking for? Why do people leave? Where can we find people? Understanding people's motivations will help you tailor your marketing and benefits to attract willing and motivated people for your organization.

Instructor: Erik A Hanna

## Saturday Courses

### 8:00 AM - 9:00 AM

#### **OPE-931 How Bad EMS and Law Enforcement Interactions Can Kill Patients**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, Educators, MD, DO, RNs

A number of high-profile cases involving EMS and law enforcement interactions have resulted in the deaths of patients in custody, along with criminal charges, negative press, and ruined careers. The deaths of Eric Garner, George Floyd, Elijah McClain, Earl Moore, Jr., and Tyre Nichols teach cautionary tales that EMS-law enforcement interactions require close scrutiny and careful consideration. When do EMS providers have a legal duty to stand up and assume custody of a patient? This session will explore these and other vital EMS/law enforcement issues.

Instructor: Doug Wolfberg

#### **TRA-1242 Trauma-Informed Care in EMS**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: All

A trauma-informed approach to care acknowledges that health care organizations and care teams should have a complete picture of a patient's situation, past and present. This approach has potential to provide effective health care services with a healing orientation. Adopting trauma-informed practices can potentially improve patient engagement, treatment adherence, and health outcomes, as well as provider and staff wellness. Trauma-informed approach to care allows for a continuum of care for the patient across all realms of responsibility to help avoid re-traumatization and integral in allowing our patients to feel safe.

Instructor: Shannon A Daniel

### 9:30 AM - 11:30 AM

#### **CAR-428 Intraventricular Heart Blocks, Danger Hiding in Plain Sight**

BLS CAT 2 / ALS 17 / 2.0 CEU

Target Audience: ALS, BLS, Educators, MD, DO, RNs

In our basic arrhythmia courses in medic class, nursing, AEMT, or even ACLS, we were taught about four heart blocks: first degree, two second degrees, and a third degree. Of the four, only two were considered to be dangerous and carry contraindications to anti-arrhythmia medications. Is that

all there is? With a 12-lead ECG, there are other blocks just as bad or worse hiding in plain sight, but if you were not trained to recognize them, the results could be tragic! Don't miss the chance to learn them from Bob!

Instructor: Robert E Page

#### **EDU-526 I'm Sorry Dave, I CAN Do That! The use of AI in the Classroom**

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

Target Audience: Educators

This session introduces educators to using ChatGPT and other forms of Artificial Intelligence (AI) in the classroom. These AIs can answer questions, generate text, and engage in conversation, making them valuable tools for enhancing learning experiences. In this session, participants will explore how to incorporate ChatGPT into their lesson plans, use it to supplement classroom discussions and lectures, and create interactive activities that foster student engagement and critical thinking. Participants will also explore the potential uses of other forms of AI.

Instructor: Kyle David Bates

#### **MED-848 A Shock Lecture for the Rest of Us**

BLS 14 / ALS 19 / 2.0 CEU

Target Audience: ALS, BLS

Have you fallen asleep in a dimly lit lecture to the lull of pathophysiology review read off a blurry slideshow at a symposium of yesteryear? Are you looking to really get a better understanding of the mechanisms behind shock but also looking for a session that will keep you awake while the free caffeine from convention center coffee kicks in? Look no further! This is the session for you. This session punches up pathophysiology with Rocky references, invisible fire a la Ricky Bobby, and more!

Instructor: Kathleen O'Connor

### 9:30 AM - 10:30 AM

#### **ADM-138 Reporting in ESO Suite**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

This session will cover how to use Reporting in ESO and will introduce analytics and insights for EHR. Join Darin Inda, an ESO Trainer, on reviewing the reporting options available from a clinical and operational perspective.

Instructor: Christopher Montera

#### **ARV-221 Airway Management Today? What Really Works?**

BLS 11 / ALS 16 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Educators, MD, DO, RNs

There are no shortage of opinions in EMS, and the topic of airway

management is no exception. We have countless tools and options available, but what does the evidence tell us about what we should be doing? In 2022, the Prehospital Emergency Care Journal published a compendium of fifteen position papers on just about everything airway-related. This presentation will summarize those findings and provide the data and details you need to make the right airway management choices.

Instructor: Gary A Heigel

#### **CAR-429 Everything ToR**

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Educators, MD, DO, RNs

Everything you've ever wanted to know about prehospital Termination of Resuscitation. We will review the benefits and drawbacks of the typical ALS and BLS rules and investigate the studies they came from. Special emphasis will be placed on reviewing atypical resuscitation populations, including: pediatrics, pregnancy, overdose, drowning, blunt trauma, hypothermia, etc...because no one is dead till they're warm and dead!

Instructor: Brian D Ekey

#### **CAR-430 Suspended Animation, Surviving Hypothermic Cardiac Arrest**

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: ALS, BLS, Dispatcher, Educators, MD, DO, RNs

This presentation will share vivid, well-documented stories of incredible survival from hypothermic cardiac arrest. The case reports we'll explore involve cardiac arrest events spanning six hours or more with good neurological outcomes. We'll examine the pathophysiology of hypothermia, key determinants of survival following hypothermic cardiac arrest, and the trauma system infrastructure (including ECMO) necessary to support successful outcomes.

Instructor: Eric Jaeger

#### **CRI-1123 CO Equals HR x SV, The Important Formula for EMS**

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience: ALS, BLS, Educators, MD, DO, RNs

The audience will understand the importance of this formula in a medical and trauma-patient scenario. The audience will gain a good understanding of obtaining the numbers of the formula and gain knowledge of cardiac output for your patient. The audience will also gain an understanding of how cardiac output is used in another formula for blood pressure. We will also highlight some of the cardiac diseases that affect a patient's cardiac output and ejection fraction.

Instructor: Jeffrey A Mcphearson

## Saturday Courses 9:30 AM - 10:30 AM

### **CRI-1124 Tipping the Scales, Balancing ABGs**

BLS CAT 2 / ALS 16 / 1.0 CEU

Target Audience: ALS, Educators, MD, DO, RNs

Arterial Blood Gases (ABGs) provide a wealth of information for the differential diagnosis of many respiratory and metabolic diseases, but are you able to apply the concepts to how a patient will react to your treatment? ABGs are found on many critical care examinations, and in this class we will be able to quickly identify what the ABG tells us, and then explore the expected responses from the patient. Even if you do not have access to POC ABG/VBG testing, we will identify common causes of ABG disturbances

Instructor: Lindsay V Mauldin

### **EDU-527 EMS Education Standards, Scopes of Practice, and Agendas for the Future! What Does This All Mean for EMS and EMS Education?**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

This lecture will bring you up to date on what is currently happening with the revision to the current NHSTA National EMS Education Standards and Instructional Guidelines revision project. Bryan is the project director for this project, and he will be here to explain why the National EMS Education Standards, the 2018 National EMS Scope of Practice and the EMS Agenda 2050 Envision the Future documents are important in the advancement of EMS and EMS Education and how they work together to help define the future of EMS.

Instructor: Bryan F Ericson

### **HEA-623 Compassion Fatigue, Building Resiliency**

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: All

Have you ever been tired? No, not physically; I mean mentally. Well, we all have at one point. We must break the stigma of mental health, recognize that it is ok to be tired, and build resiliency, helping ourselves and each other so that we may safely and properly serve the community. Join me in a discussion on what compassion fatigue is, how to recognize it, and how to overcome it.

Instructor: Brian Merry

### **LMGT-716 Professional Identity Formation for EMS Professionals**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Professional identity formation is the process of enculturation into the actions, values, and norms of the profession. It is how one begins to “see” themselves as a member of the EMS profession. As EMS experiences challenges recruiting and retaining workers, we might consider whether formal professional identity formation activities in our education and onboarding programs could better help newcomers to the profession “see” themselves as one of us for a lifetime of service to their patients and communities in the paid and volunteer careers we all have found so rewarding.

Instructor: Heather Davis

### **LMGT-717 When Pigs Fly - Leadership in a New Millennium**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, MD, DO

In this session you will be presented on strategies for identifying and enhancing leadership and management styles. We will also discuss organizational culture and organizational functional behavior patterns. This is what can happen when you realize that pigs do fly and you can affect better organizational outcomes at any level.

Instructor: Gene Mcdaniel

### **MED-849 Sweet and Low - A Pancreatic Dilemma of Systemic Proportions**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

It has become part of the routine call for most EMS providers. The burden of diabetes on the health care industry will reach pandemic proportions. Diabetes is more than just issues of high or low blood glucose levels. The long-term complications of diabetes can be catastrophic systemically in regard to the hemodynamics of body. The class will explore most of the potential health complications a diabetic may experience over time and how the EMS provider can be acutely aware of these potential issues during their patient assessment and treatment.

Instructor: Steven W Berry

### **MED-850 EMS True or False?**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

Have you ever questioned something you were told by a preceptor or educator during your EMS training? Have you ever heard coworkers share medical dogma and urban legends regarding care? In

this session, we will play a game of EMS True or False and debunk some common prehospital myths handed down over the years. The goal is to unveil the truth and evaluate the actual science behind these common claims to improve the quality of patient care.

Instructor: Meghan Mathis

### **MED-851 Annual Infection Control OSHA Update**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, Administrators, All, BLS, RNs

This speaker will review updated disease and regulatory information regarding OSHA compliance and infection control practices. Learn about what is new since last year and what may be required in the near future. The speaker will clarify VA State OSHA vs. Federal OSHA requirements. Attendance at this session will meet your annual training requirement.

Instructor: Katherine H West

### **OPE-932 Four Legal Case Studies on EMS Documentation**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Educators, MD, DO, RNs

EMS documentation has been front and center in numerous court cases. National EMS attorney Doug Wolfberg will present four case studies from actual court cases in which documentation issues featured prominently, and, most importantly, will pull the vital lessons from these cases that EMS providers at all levels must master. These cases involve documentation omissions, patient refusals gone bad, documentation discrepancies and more.

Instructor: Doug Wolfberg

### **OPE-933 Special Events Right This Way**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

What goes into planning and executing a successful EMS response to a special event? What is an IAP? We will look at logistical considerations, interagency teamwork, along with other operational considerations. Do you have a treat and release protocol for extreme weather events? What is your plan for an MCI during the event? There better be some food in the mix to avoid hangry crews. From hot to cold, wet to dry, peaceful and rowdy, we will discuss how to plan for nearly every contingency.

Instructor: Erik A Hanna

## Saturday Courses

### 9:30 AM - 10:30 AM

#### **PED-1043 Shake, Rattle and Roll, Pediatric Seizures Update**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, Dispatcher, Educators, RNs

Pediatric seizures are common EMS calls that often cause anxiety for both EMS professionals and family members. Dr. Brown will provide an in-depth discussion on pediatric seizure subtleties and their treatment considerations for the prehospital professional. Recent evidence-based updates will be reviewed. Post-call debriefing tips for pediatric patients will also be discussed. Instructor: Seth A Brown

#### **PED-1044 Saving The Life of a Child: Can't Miss Cases in Pediatric Cardiology**

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience: All

This is a case-based presentation, centered on the recognition and treatment of children with Tetralogy of Fallot, Brugada Syndrome, and hypertrophic cardiomyopathy (HOCM). It's the companion presentation to "Syncope: Innocent Fainting or Lethal Arrhythmia" and teaches advanced EKG interpretation skills and pathologic cardiac anatomy in a memorable, easily approached method. Instructor: Tiffany Bombard

#### **TRA-1243 An Earth Shattering Kaboom! Terrorism and Explosion Trauma**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: All

Terrorism may seem like something that is worlds away, but it has hit home with recent events and continues to cause concern. There are many dynamics that EMS personnel should have good working knowledge of, including dangers and signs of activity. This course will prepare rescuers and focuses on the most common form of terrorism and conventional explosives, with an emphasis on history, recognition, and treatments that EMS personnel should be familiar with. We will also examine resources available when terrorism strikes and best practices to keep responders safe. Instructor: Rory S Putnam

#### **TRA-1244 Making a Difference in Chest Trauma**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, RNs

Differentiating between major thoracic injuries can sometimes be a challenging process. An entertaining, but memorable

method for approaching the scene size up will be introduced. Participants will also be provided with a simple, yet effective strategy for identifying as well as differentiating between tension pneumothorax, massive hemothorax, and pericardial tamponade.

Instructor: Bob Matoba

### 11:00 AM - 12:00 PM

#### **ADM-139 ESO On Demand Learning Platform**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Attendance at this ESO course will provide you with information on how to use the on demand learning platform for your agency. Presented by Darin Inda.

Instructor: Christopher Montera

#### **CAR-431 Beyond ACLS**

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience: ALS, Educators, MD, DO, RNs

Advanced cardiac life support is the systematic and standardized approach in which we are trained to intervene in cardiac arrest. But is there more we could be doing outside the basic algorithms? Is there more than CPR and epinephrine? In this lecture, we will explore data and interventions utilized in emergency and critical care that are not taught in your typical ACLS course. We will also investigate actions that could potentially cause harm or lead to worse patient outcomes.

Instructor: Meghan Mathis

**Prerequisite: ACLS**

#### **CRI-1125 Fun with Physiology Let's Get Cellular**

BLS CAT 2 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, RNs

There is a good chance you were taught cellular physiology in a very academic manner. This session will address cellular 'action potentials' in a manner that is anything but academic. Interactive case studies will illustrate how cellular action potentials can become an intuitive concept for every level of EMS provider. More importantly, participants will understand how diseases influence cellular action potentials and outwardly reflect specific signs and symptoms in their patients.

Instructor: Bob Matoba

#### **EDU-528 Culturally Responsive Classroom Management**

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Educators

Think back and remember your first day in the EMS classroom. Were you frightened?

Were you excited? Most enter with emotion overload and few begin with little knowledge of what they are truly getting into. As educators, we must recognize that each student is an individual and our goal is to educate each of them to the best of our ability. Student success is paramount and we can work together to increase your success rate(s) and better student outcome.

Instructor: Brian Merry

#### **EDU-529 Improving Feedback Narratives for Instructors, Preceptors, and Supervisors**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

This session will explore the principles of feedback for improved performance focusing on examples that are specific, actionable, and behavior-based. Narrative feedback can be the most useful to learners and employees for driving behavior change, but not when it is too general, overly positive, or laden with bias. Together, we will perform narrative makeovers to improve the quality and utility of the feedback provided.

Instructor: Heather Davis

#### **HEA-624 Is your Station a Safe Haven? If not, get to work!!**

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: All

We will keep safe any infant up to 14 days old that is dropped off at our stations until the proper resources arrive to take over care. However, are we prepared and willing to do the same for one of our own having a behavioral health emergency? Come be a part of an important discussion on setting the right environment for an all encompassing safe haven.

Instructor: Christopher H Jett

#### **LMGT-718 Leadership Lessons From the Beatles**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

If you are an EMS leader - or aspire to be one - drawing leadership inspiration from as many sources as possible is imperative. In this fun, multimedia and eye-opening presentation, nationally known EMS leader and lifelong Beatles fan Doug Wolfberg will use lessons from the amazing career of the Beatles to enlighten and inspire EMS leaders of the future. You'll be amazed at how relevant these leadership lessons are to EMS leadership!

Instructor: Doug Wolfberg

## Saturday Courses 11:00 AM - 12:00 PM

### **MED-852 What Do You Mean He's Dead?**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

The patient is dead and the family members are now filled with a wide range of reactions and emotions. The death scene is perhaps one of the most difficult scenarios a health provider will encounter, not only because of the impact it has on the surviving family members and friends, but also for the high degree of stress and anxiety it may have on the prehospital providers. This class will help you provide a valuable service for the bereaved while enhancing one's own skills regarding grief counseling.

Instructor: Steven W Berry

### **OPE-934 What to do When You Can't GTS**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, Educators, MD, DO, RNs

In this lecture, we will discuss what to do when you can't simply Google an answer and may not have all the typical tools you normally have on an ambulance. We will focus on how to perform an assessment in an austere environment and what substitutions you can make for equipment we often rely on.

Instructor: Charles Debonis

### **OPE-935 Ask Us Anything: A Panel of OMD's Answers Questions On The Fly**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

An OMD panel takes questions from the audience, and nothing is out of bounds. Ask tough questions about medicine, procedures, ethics, the OMD's role, the future of EMS, and anything else you just want to know. Dr. Stanley will help lead the discussion, armed with a list of hot topics to break the ice and get the conversation going. Come with questions and opinions, ready and don't plan to be easy on this bunch. Their skin is thick, their tongues are sharp, and they are up for a challenge!

Instructor: Eric Stanley

### **🌿 OPE-936 Solving the Rubik's Cube of EMS Leadership**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Administrators

Leading an EMS agency can be a complex endeavor involving issues such as finite resources, hiring and disciplining employees/volunteers, relationships with

elected officials, policy development, recruitment and retention, budgeting, and handling public relations. It can often feel more difficult than solving a Rubik's Cube. Just when you think you are making progress in one area, another one seems to need all of your attention. But just like solving a Rubik's Cube, no one is an immediate expert and leadership gets easier as you focus on the overall solutions.

Instructor: Raphael M. Barishansky

**Limited to: 48**

### **OPE-937 Awakening the Future! Successful Strategies for Developing and Mentoring the Next Generation of EMS and Nursing Professionals**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Educators

What role has a mentor played in your life or your career? This presentation will outline the key characteristics of successful mentoring and how to implement them in your setting. By using the example of Young Frankenstein, we will look at the challenges faced by successful mentors and what it takes to develop future professionals. It is the responsibility of current professionals to develop successful mentoring strategies to help ensure the success of the NEXT generation of healthcare professionals.

Instructor: Bryan F Ericson

### **PED-1045 When is Sweet, Too Sweet? Pediatric DKA Update**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, Dispatcher, Educators, MD, DO, RNs

Pediatric diabetes is a common problem. DKA is a potentially life-threatening condition that EMS professionals will likely encounter. Dr. Brown will review DKA and its prehospital considerations, including recognition, stabilization, and treatment updates. Common pediatric pit-falls will also be discussed. Question and answer session will be open at the end of the lecture.

Instructor: Seth A Brown

### **PED-1046 The First 28 Days**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

The US. ranks 65th in the world for neonatal mortality rates. In this class, we will address how EMS providers can recognize and effectively treat these common issues. Here you will learn the PEARLS of running the neonatal call, all while gleaming from the alphabet soup classes, and how to really apply these skills and techniques. What does the color of a baby's poop really mean anyway? What are the S/S of hypoglycemia in a neonate? All these

questions and so much more will be answered in this class.

Instructor: Jessica Arno

### **TRA-1245 Concussions in Sports and EMS Response**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, Dispatcher, Educators

Concussions have been a hot topic in high school, college, and professional sports for the past couple of years. While equipment improves and concussion education improves, the number of sports-related concussions is still on the rise. We are on the sidelines of sporting events and are the first to respond to the injured athlete. This presentation will discuss the pathology and clinical presentation of a concussion and the current assessment modalities and clinical tools for concussion evaluation. We will discuss the EMS provider's responsibility in the management of the concussion.

Instructor: Sara L Walker

### **TRA-1246 When Ticks Attack: Complications of Lyme Disease**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, Educators, MD, DO, RNs

Controversy, debate, vague symptoms, misdiagnosis. These aren't things generally expected with a disease affecting over 300,000 people annually. Lyme Disease is a tick-borne illness with many subtle signs/symptoms and tests to diagnose it are often inconclusive. This class will cover the known history of the disease and medical issues, including long-term complications. We will also discuss strategies for your agency to lead Lyme awareness for your community. This is a must for those working in Lyme-prone areas and will shed some light on this complicated disease.

Instructor: Rory S Putnam

## Saturday Courses

### 11:00 AM - 12:00 PM

#### TRA-1247 GCS Education Project

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, MD, DO, RNs

Glasgow Coma Scale (GCS) assessments are notoriously inaccurate in the pre-hospital arena. This is especially important in trauma patients because it can lead to over- or, conversely, under triaging. The GCS Education Project is designed to address this problem through a lecture focusing on the GCS components and how they differ between adults and children. It carefully walks providers through the challenges of translating what they see on the physical exam into GCS scores. Providers are then offered plenty of time to practice and refine their newly acquired skills.

Instructor: Emily Gitman Dunbar

**Limited to: 100**

#### TRA-1248 Head Injuries That Ain't Rocks Rattling In Your Head

BLS 13 / ALS 18 / 1.0 CEU

Target Audience : All

Head injuries account for a large number of EMS responses and account for a significant amount of morbidity in our patient populations. The series will discuss the pathophysiology and management of head and brain injury patients. We will also review cases of uncommon head injuries from EMS responders in the field.

Instructor: Gene Mcdaniel

### 1:30 PM - 2:30 PM

#### ADM-140 Configuring EHR Validation Rules to Maximize Data Quality Scores

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Looking for ways to improve your agency's data quality scores? Ever wonder if there is a way to require providers to enter certain information on a patient care report? This session will show ESO EHR Administrators the most common data validation warnings and errors in Virginia and within your agency. Users will learn to navigate, enable, and adjust EHR validation rules within Admin to improve and maintain your agency's data quality.

Instructor: Christopher Montera

#### CAR-432 EHAC and STEMI Metrics-How Community Outreach and EMS Contribute to Better Outcomes

BLS 12 / ALS 17 / 1.0 CEU

Target Audience : All

The course provides a description of community-based education for Early Heart Attack Care sponsored by deputyheartattack.com and the ACC. Community education and outreach affect the demands of Emergency Medical Services. An in-depth description is provided for how EMS-based quality metrics are abstracted and can impact reperfusion times and outcomes for the STEMI patient. The importance of prehospital transmission of EKGs, following protocols for treatment, and activation of STEMI alerts PTA are emphasized. Recommendations are presented for improved documentation in the care of STEMI patients on EMS runsheets.

Instructor: Megan Vaughan

#### CRI-1126 Mean Arterial Pressure, What Does it Mean?

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience: ALS, BLS, Educators, MD, DO, RNs

The audience will gain strong knowledge of why knowing the mean arterial pressure (MAP) of your patients is important in Trauma and Medical situations. The audience will understand how to calculate the MAP from the blood pressure and realize why it may be a better indicator of perfusion to vital organs than systolic blood pressure (SBP). We will also discuss the relationship between MAP and Cardiac Output (CO).

Instructor: Jeffrey A Mcphearson

#### EDU-530 Designing a More Engaging Lecture

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Educators

Everyone hates death by PowerPoint but we can't seem to break away from the comfort of slides. How can we create engaging content quickly and cheaply? This presentation takes a before and after look at a lecture updated using Mayer's design principles to engage adult learners. Using educational theory, you can create engaging, slick presentations that entertain while teaching.

Instructor: Kathleen O'Connor

#### EDU-531 Enhancing Your Continuing Education Program, An Instructor's Guide

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Educators

Let's be real, no one looks forward to coned,

NO ONE! So, how do we, as educators, make it more interesting? More fun? How do we get more providers involved and see better results? Join me in a discussion on how to enhance your program, using as many tools as possible to achieve success in your continuing education program. Let's work together to stop the mundane information sharing and facilitate high-quality education and training opportunities to better serve our providers.

Instructor: Brian Merry

#### HEA-625 Good Mourning - Finding Strength In the Tears We Cry

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: All

Emergency health care providers are trained to care and deal with surviving members of a patient who has died, but what of our own losses? Whether it be our own family member, friend, partner, or colleague - how do we find personal meaning and comfort at a time of pain, disbelief, and confusion? This class offers a look at some coping strategies, myths of grief, and some comforting testimonial guidance from fellow health care professionals on how to promote healing and lessen the pain during times of catastrophic loss.

Instructor: Steven W Berry

#### HEA-626 Wellness Reimagining the Way We Do It!

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: ALS, Administrators, All, BLS, Dispatcher

Wellness?! Who has time for that?! This presentation will provide participants with an under-standing of various personal and occupational wellness techniques and activities. Upon conclusion, of this immersive course experience, participants will be equipped with the tools to make a provider's personal wellness a top priority and a daily activity among all the noise.

Instructor: Leron T Lewis

#### LMGT-719 When You Fail to Plan, You Plan to Fail - Understanding Strategic Planning for EMS Agencies

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Administrators

Many EMS agencies, be they career or volunteer, municipal or commercial, are mired in the "here and now" with little attention paid to the future. Rational, well-planned and thought-out strategic plans, with input from all levels of the organization, can help make the future less frightening and put EMS agencies on the right road for success. Developing all the vital components of a strategic plan - a SWOT analysis and identification of goals and objectives, as well as implementation tips will be reviewed.

Instructor: Raphael M. Barishansky

## Saturday Courses

1:30 PM - 2:30 PM

### **LMGT-720 Developing Self-Regulated Professionals for a More Promising Future of EMS**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Self-regulation is highly correlated with success in learning and life. The good news is that the skills of self-regulation, such as goal-setting, the use of high-level learning strategies, and time management, can be taught. Come learn how to implement activities that develop self-regulatory skills among your learners and employees to help them become the most productive and continuously improving professionals they can be!

Instructor: Heather Davis

### **MED-853 Double Double Toil and Trouble Responding to Chemical Suicides**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, MD, DO, RNs

Chemical suicide is becoming an increasingly common method that patients wanting to end their life utilize instead of pharmacologic overdose. Although there is a culture of limiting bystander and responder harm with these chemicals, there are still significant risks that providers face when responding to these calls. Additionally, recognizing the signs and symptoms of a chemical suicide is important to both provider safety and patient resuscitation. This lecture will cover a few of the most common chemical concoctions encountered in the prehospital setting, response precautions, and interventions.

Instructor: Harrison Brookeman

### **MED-854 Dialysis-Related Emergencies**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, RNs

Are end stage renal disease and dialysis a black box or an enigma for you? During this lecture, we will cover how hemodialysis works, the vascular access needed to perform hemodialysis, and how peritoneal dialysis works. Specifically, we will look at complications of vascular access and how to manage these vascular access devices and complications in a prehospital setting. We will also cover common chief complaints and emergencies related to dialysis patients.

Instructor: Alison Lepera

### **MED-855 Sickle Cell Care - An Evidence-Based Approach**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

There is increasing evidence regarding Sickle Cell Disease and proper treatment. In June 2018, the National Model EMS Clinical Guidelines 2.1 added Sickle Cell as a stand-alone protocol to address the changes in management. Does your system know about the changes? Should your system consider a Sickle Cell Protocol? In this presentation, we will review the patho-physiology of Sickle Cell Disease, discuss the evidence-based approach and best practice. You will also receive access to a training scenario and grading rubric that you can take back to your crew for practice.

Instructor: Ryan F Kirk

### **MED-856 Anaphylaxis, When to Get Aggressive**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, Dispatcher, Educators, MD, DO, RNs

Delays in administering epinephrine in anaphylaxis can be deadly, yet decades of evidence show that providers are often hesitant to administer epinephrine, preferring instead to initiate care with diphenhydramine. We'll examine several real-world cases of anaphylactic emergencies to understand when to get aggressive in administering epinephrine and the potential grave dangers of delay. This program will change how you approach anaphylaxis.

Instructor: Eric Jaeger

### **OPE-938 Do We Really Need to Take That Dog?**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Dogs have proven they are very useful to help out mankind. As research continues, we find that service animals help out more people than ever before. In today's world, they are not only service animals but they are also therapy animals. You must know the difference between the two and whether or not you should transport the animal along with the patient.

Instructor: Daniel Frazier

### **PED-1047 Cardiac Kids Channelopathies in Youth**

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience: All

Sudden cardiac arrest is a leading killer in school-age children. Many times due to an undetected heart condition. Yet many kids have known heart conditions. Channelopathies are congenital

conditions that some children have that can be life-threatening. What are Channelopathies? What can we do in EMS to prepare? Bob Page teams up with UVA Pediatric Cardiologist George McDaniel, MD, to present a highly informative, case-based session to help you understand these conditions in Children and to become better prepared to handle these kids on the call.

Instructor: Robert E Page

### **TRA-1249 Boot to the Head: Concussion Assessment and Management**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS

There are over 3.5 million estimated concussions every year in the United States as the result of sports and recreational activities. A form of traumatic brain injury, concussions can range from mild to severe, and if not managed properly, may lead to a fatal condition known as Second Impact Syndrome. As EMS providers, we may encounter this subset of patients, either on a 911 call or during a stand-by, and it is important that we identify concussions in players and have them abstain from sports activities until injuries are resolved.

Instructor: Kyle David Bates

### **TRA-1250 Uncommon Names for Common Fractures**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS

These are not your every day run-of-the-mill orthopedic injuries. Interactive case studies will be used to address the critical aspects for identifying Malgaigne, Pipkin, Chance, Jefferson, and Salter-Harris fractures. Once identified, there are important clinical considerations EMS providers need to be aware of to properly manage these injuries.

Instructor: Bob Matoba

### **TRA-1251 Farming Accident Response**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, Dispatcher

Farming accidents happen every day, but are we, as first responders, truly prepared to handle the situation? We will discuss the resource issues, challenges, and responsibilities of the responder and describe the various equipment utilized on the farms and the dangers associated with such equipment. This class will concentrate on the importance of preparing for an agricultural accident, the tedious response and appropriate scene management.

Instructor: Sara L Walker

## Saturday Courses 3:00 PM - 5:00 PM

### **CAR-433 Stethoscopy, Using Digital Phonocardiography**

BLS CAT 2 / ALS 17 / 2.0 CEU

Target Audience : All

Last year, Bob introduced Virginia EMS to new digital stethoscopes. This is the follow-up class as promised! Heart tones are rarely taught or appreciated. So, is the stethoscope still relevant? These new digital stethoscopes come with the ability to record and produce waveforms called phonocardiograms. They can be interpreted by the user or by A.I.. Leave it to state educator and stethoscopy instructor Bob Page to be all over it. Come and learn about and try out this new technology! If you have an EKO Core, Duo, or other digital stethoscope, bring it to class.

Instructor: Robert E Page

**Limited to: 30**

### **EDU-532 Item Analysis for Novices**

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

Target Audience: Administrators, Educators, MD, DO

This session will provide the procedural steps for instructors, programs or medical directors responsible for reviewing exams for validity, reliability, difficulty, and discrimination. We will then help participants use that information to make accurate inferences about student learning, faculty teaching, or readiness for other types of assessments or advancement. Gain confidence that you can improve your exam items, exams overall, and curriculum with each exam administration.

Instructor: Heather Davis

### **HEA-627 Don't Make it Awkward - Providing Culturally Competent Prehospital Care**

BLS 15 / ALS 20 / 2.0 CEU

Target Audience: ALS, BLS, Educators

The word gender has become almost taboo, or at the very least, something that is happening to "other" people. In reality, we all make gender decisions multiple times daily. The pronouns we choose tell the world about us and impacts the way the world responds to us. This presentation will facilitate conversations to examine your misconceptions, help you feel empowered in your knowledge of gender diversity, and explore how cultural/racial bias can even cause pa-tient harm! Participants will leave armed with knowledge to advocate for culturally-competent prehospital care.

Instructor: Leron T Lewis

### **MED-857 The Autism Spectrum, Serving Our Neurodiverse Community**

BLS 14 / ALS 19 / 2.0 CEU

Target Audience: ALS, BLS, Dispatcher, Educators, MD, DO, RNs

Our presentation will cover learning the basic characteristics of the autism spectrum so that providers have a better understanding how autism may present. Providers will learn the importance of learning about this population due to how they are often times misunderstood or interpreted as a risk. Providers will learn different challenges that may present and learn tools that can be used to de-escalate situations. We will talk through different scenarios about how situations may be handled.

Instructor: Esthefanie A Zapata

### **OPE-939 Malpractice or Murder When Does EMS Negligence Become Criminal**

BLS 15 / ALS 20 / 2.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, Educators, MD, DO, RNs  
First-degree murder charges were filed against two EMTs in 2023 after a patient restraint death in Illinois sent shock waves throughout EMS. Along with a negligent homicide case filed in 2021 against two paramedics in a Ketamine-related death, this case brings into sharp focus the question, when does EMS negligence become criminal? How can EMS providers protect themselves from criminal charges in an age of bodycams and instant video? This session will explore the often fine line between malpractice in civil court and murder charges in criminal court.

Instructor: Doug Wolfberg

### **OPE-940 Introduction to NFPA 3000, Active Shooter Hostile Event Response, ASHER**

BLS 15 / ALS CAT 2 / 2.0 CEU

Target Audience : ALS, Administrators, BLS, Dispatcher, Educators, MD, DO, RNs  
Nationwide and around the globe, communities are facing an increasing number of tragedies involving active shooters and/or hostile events. The need for an integrated preparedness, response, and recovery program is greater than ever before. Protect your community with NFPA 3000. This standard addresses all aspects of the process, including identifying hazards and assessing vulnerability to planning, resource management, incident management at a command level, competencies for first responders, and recovery.

Instructor: Jeffrey A Mcphearson

Co-Instructor(s): Brian Harness, Chris Lawrence

**Limited to: 50**

### **TRA-1252 TRAUMA HAPPENS! Another Look at Mechanism of Injury**

BLS 13 / ALS 18 / 2.0 CEU

Target Audience: All

Trauma doesn't just appear, it happens! Unfortunately for EMS, we seldom see it happen, so we are left considering what exactly occurred. Many times we don't understand the severity of what happened in our absence. This graphic lecture/presentation will examine through slides, video and photos of traumatic accidents what actually transpired, getting into detail about mechanisms involved in the trauma and results of the accident. Take a journey into the mechanism to better understand what happened BEFORE you got on scene!

Instructor: Rory S Putnam

## Saturday Courses 3:00 PM - 4:00 PM

### **ADM-141 The Rest of the Story, Using EMS Outcome Data for EMS**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience : All

Most EMS research stops at the doors to the Emergency Department, missing key patient-centered outcomes. The power of integrated data, from dispatch to discharge, allows for a more complete picture of practice and effects. Join this interactive session to learn how linked EMS and hospital data have been used to evaluate EMS interventions, identify disparities in care, predict outcomes for EMS patients, add context to national conversations around treatments like ketamine, and monitor epidemiological trends.

Instructor: Christopher Montera

### **CAR-434 Shock Attack- Cardiogenic Shock in the Field**

BLS 13 / ALS 17 / 1.0 CEU

Target Audience : ALS , Administrators, BLS , Dispatcher, Educators, MD, DO, RNs

The course will offer a description of recognizing the signs and symptoms of cardiogenic shock and recommendations for aggressive versus conservative treatment prior to arrival at the hospital. It will differentiate between cardiogenic shock and anaphylactic shock, hypovolemic shock, and septic shock. It will also provide education regarding treatment of cardiogenic shock in non-ECMO and ECMO capable cardiovascular centers.

Instructor: Megan Vaughan

## Saturday Courses

3:00 PM - 4:00 PM

### **CRI-1127 Prehospital Ultrasound for EMS**

BLS CAT 2 / ALS 19 / 1.0 CEU

Target Audience: ALS, MD, DO, RNs  
Ultrasound technology has become increasingly more portable and available in a prehospital environment. Do you have ultrasound at your agency or interested in starting an ultrasound program? We will discuss indications for ultrasound use in EMS and review the available literature around prehospital ultrasound use. We will discuss how to obtain and interpret ultra-sounds relevant to EMS use.

Instructor: Alison Lepera

### **EDU-533 EMS Meets Public Health -The New NEMSES Requirement**

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: All

Doctors put stethoscopes on patients: EMS places stethoscopes on patients in their homes: but public health puts a stethoscope on populations. The 2021 NEMSES education standards now require all programs to discuss Public Health. However, there is very little, if any, material in the textbooks. This presentation is from a provider with over 15 years of EMS experience and has a MPH. We will discuss how EMS is part of Public Health. Educators, you are welcome to use the presentation in your programs.

Instructor: Ryan F Kirk

### **MED-858 Geriatric Depression and Suicide**

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: All

The elderly are more at risk for depression and suicide due to the losses they experience, including retirement, isolation, death of a spouse or close friends, cognitive impairment, decreased mobility, and medical illness. Depression is not an inevitable outcome. This class will help the prehospital provider identify those clinical characteristics of depression and suicide for those elderly patients who are at risk and how to get them the hope and help they need.

Instructor: Steven W Berry

### **MED-859 Syncope vs Sudden Death, Distinguishing Benign from Deadly Causes of Syncope**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, Dispatcher, Educators, MD, DO, RNs

Syncope is a symptom, not a disease.

Most causes of syncope are relatively benign and self-resolving. But there are more sinister causes of syncope that can be difficult to distinguish but require different management. We'll explore the causes of syncope and how to distinguish syncope from other causes of transient loss of consciousness. Finally, we'll use case studies to explore potentially deadly causes of syncope.

Instructor: Eric Jaeger

### **MED-860 Bubble, Bubble, Toil and Trouble: Management of the patient in ARDS**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS

Encountering a patient experiencing dyspnea as the result of pulmonary edema is not unusual, we generally assume heart failure. However, would your diagnosis change if they have been ill for days, without any cardiac symptoms? ARDS is non-cardiac pulmonary edema and can occur with any injury to the lungs. This case-based presentation will address the pathophysiology of ARDS as well as the assessment and treatment of the patient experiencing this condition.

Instructor: Kyle David Bates

### **OPE-941 Let's Do This Your Way**

BLS CAT 2 / ALS 20 / 1.0 CEU

Target Audience : All

The understanding of a patient's beliefs is as important as the skills you have in patient care. Taking care of them with the beliefs will make them feel more comfortable and trust your judgement. Learn how different beliefs and lifestyles have an impact how you interact with the patients and the family around them.

Instructor: Daniel Frazier

### **OPE-942 The Future of EMS**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, Educators

Where do we see EMS in the next 5 years? 10 years? 20 years? Is EMS the "red-headed step-child" of the healthcare profession? EMS has come a long way from the "you call, we haul" days and it's important to keep moving in the direction of a more professionalized field. What can we do to ensure continued growth and forward movement in our profession? Let's get together and talk about all the different avenues.

Instructor: Sara L Walker

### **PED-1048 Pediatric Pain Management, Prehospital Recognition, Assessment, and Treatment**

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

Pediatrics are one of the most under-discussed and under-trained on populations in prehospital medicine. Moreso, pediatric pain is one of the most under-documented, under-assessed, and under-treated symptoms across the nation. Why? Because they are difficult to assess and frightening to treat; however, they deserve to be well assessed and treated for their pain just like all other populations across the lifespan. Join me to discuss how we can recognize, assess, and treat pain in the pediatric population.

Instructor: Brian Merry

### **PED-1049 Pediatric Trauma Case Studies**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: All

Pediatric trauma continues to be the leading cause of death in children in the United States. In this session we will discuss the epidemiology of childhood trauma and its community impact. We will be using real case studies of various pediatric patient encounters to assess, manage and treat the traumatically injured child.

Instructor: Gene Mcdaniel

**Limited to: 64**

### **TRA-1253 Perfecting Palpation Putting the Blinders on Trauma Assessment**

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, RNs

Performing a thorough physical assessment on patients is one of the most critical skills for EMS providers. This session will focus on the various techniques associated with performing a thorough and complete physical assessment. Participants will actually perform this assessment and will become comfortable with the elements of this physical examination.

Instructor: Bob Matoba

**Limited to: 50**

## Sunday Courses 9:00 AM - 11:00 AM

### **ADM-142 Keeping the Best Cultures and Successes**

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

Target Audience: All

Recruitment and Retention has been in the forefront of EMS leadership discussions for decades. Today we understand that recruitment is an untenable solution without effective application of retention principles in the multi-generational / multi-cultural workforce. As a leader, how have you improved the culture of your organization to embrace today's workforce cultures and expectations? The Virginia OEMS four-part Keeping the Best series sets a foundation for effective retention solutions and a primer for inviting dialogue, open minds and inclusive cultures explored in this workshop.

Instructor: John Bianco

### **ARV-222 The Spectrum of Airway Management: Developing YOUR Airway Strategy Plan**

BLS 11 / ALS 16 / 2.0 CEU

Target Audience: ALS, BLS, RNs

From difficulty levels to treatment options, airway management lies on a spectrum. Therefore, providers of all levels should develop an outcome-based airway strategy before encountering a patient needing airway management. Understanding these concepts will allow providers of all levels to determine the proper tools and techniques to set themselves up for success. This case-based, interactive airway presentation will enable students to create or hone their airway strategy plan.

Instructor: Kyle David Bates

### **ARV-223 NO Diffusion, NO Perfusion**

BLS 11 / ALS 16 / 2.0 CEU

Target Audience: All

This lecture will review the anatomy and physiology of the organs needed for diffusion and perfusion, including the heart, lungs, and blood. We will also discuss and review irregularities of the heart, such as tachycardia, bradycardia, and with lung irregularities, such as ARDS, COPD, Asthma, etc. and yes, we have to include internal and external hemorrhage. "Without blood, nothing goes round and round."

Instructor: Jeffrey A Mcphearson

Co-Instructor(s): Todd Gardner

### **CRI-1128 Is This an Ocean? The Waves and Signs of Really Rare Cardiac Issues**

BLS CAT 2 / ALS 17 / 2.0 CEU

Target Audience: ALS, BLS, Educators, MD, DO, RNs

Remember Osborn Waves? We talked about it in medic school. But how much did you really understand, and have you ever heard of these: DeWinter's Waves, Cerebral T Waves, The Spiked Helmet Sign, Camel Hump T Waves, Wellen's Sign, Emery's Phenomenon, Cabrera's Sign, Spodick's Sign, Bidirectional Ventricular Tachycardia and MORE! Join Rory on one of his new EKG Ace series of presentations. We will explore some very rare (and even more rarely taught) EKG patterns, as well as the pathophysiology that makes them happen, to make you a better clinician!

Instructor: Rory S Putnam

### **MED-861 EMS Approach to Patients on the Autism Spectrum**

BLS 14 / ALS 19 / 2.0 CEU

Target Audience: ALS, BLS, Dispatcher, Educators

Patients on the autism spectrum are not always identified by appearance alone. This course will guide participants through the process of identifying patients with autism spectrum disorder. We will discuss the many unique characteristics most commonly seen in ASD patients and how we, as EMS professionals, can properly care for and treat our ASD patients. What works for one ASD patient may not work for another. We will discuss strategies for patient care and de-escalating techniques. Let's be better providers for our ASD patients.

Instructor: Sara L Walker

### **MED-862 Benzos, Barbs and the Rest of Neuro Pharmacology**

BLS 14 / ALS 19 / 2.0 CEU

Target Audience: ALS, BLS, Dispatcher, Educators

The drugs used to treat neurological conditions can be mind-boggling to the average provider. Anticonvulsants, antidepressants, and antipsychotics can help manage patients with neurological disorders but can also cause dangerous side effects when not taken as intended. Come learn the pharmacology needed to help your neuro patients and ensure you do them no harm!

Instructor: Heather Davis

### **MED-863 EMS Interactive Game Show**

BLS 14 / ALS 19 / 2.0 CEU

Target Audience: All

Bob's interactive series have become a staple of your Sunday morning lineup! Bring your phone as a clicker for an "easy like Sunday morning" quiz show that may actually have door prizes! This year features an all-new game that covers all areas of EMS, including a good dose of EMS history and trivia. Some drag those old school folks to this session with you.

Instructor: Robert E Page

### **OPE-943 What We Have Here Is A Failure to Communicate Meeting the Needs of the Deaf, Blind, and Autistic Patient**

BLS 14 / ALS 19 / 2.0 CEU

Target Audience: All

Communication with our patients is a skill a good clinician must learn in our line of work for pre-hospital care. Communicating with groups with special needs can be complicated. This class will explore methods of effective communication that will quickly and effectively enhance your communication skills - specifically when caring for the deaf, blind, deaf and blind, and autistic patients. Some interactive participation utilizing basic sign language for the health care provider will be integrated during this session.

Instructor: Steven W Berry

### **PED-1050 Pediatric Medical Case Studies**

BLS 14 / ALS 19 / 2.0 CEU

Target Audience: All

An EMS response to the child experiencing a medical emergency can be a challenging incident. This series will discuss the presentation, assessment, and management of the pediatric patient with common and uncommon medical emergencies. The discussion will use various case studies of real incidents involving each of the disease processes discussed.

Instructor: Gene Mcdaniel

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Director  
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Debbie Akers  
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Systems Medical Director  
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Operational Medical Director,  
Chesterfield Fire and EMS

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Symposium Chairman,  
Director, Virginia Office of EMS

Scott Winston  
Symposium Co-Chairman,  
Assistant Director, Virginia Office  
of EMS

Adam Harrell  
Associate Director  
Virginia Office of EMS

Debbie Akers  
Program Committee Chair,  
Division Director of Accreditation,  
Certification and Education Manager  
Virginia Office of EMS

Frank Cheatham  
Virginia Office of EMS

Greg DeYoung  
Norfolk Fire/Rescue, Battalion Chief

Kimberley Fuller  
Quality Assurance/Quality Improvement  
Specialist  
Virginia Office of EMS

Tristen Franklin  
Public Relations Assistant  
Virginia Office of EMS

Irene Hamilton  
Symposium Coordinator  
Virginia Office of EMS

Marian Hunter  
Public Relations Coordinator  
Virginia Office of EMS

David Jolly  
Symposium AV Coordinator,  
Curriculum/QA Chief  
Virginia Department of Fire Programs

Marcia Pescitani  
Vendor Hall Manager

David Thomas  
Fleet & Logistics Administrator  
Virginia Office of EMS

## Faculty

Justin B Adams  
Chesterfield Fire and EMS  
Battalion Chief

Yasmin Ahmady, NRP, AAS, CCEMTP  
Prince William Department of Fire and  
Rescue  
Firefighter/Paramedic

Deborah T Akers  
Virginia Office of EMS  
ACE Division Director

William R Akers, MS, NRP  
Southwest VA Community College  
EMS PROGRAM DIRECTOR

Jonathan Adam Alford, MS, NRP, NCEE  
VCU Center for Trauma and Critical Care  
Education  
Assistant Director  
MAIDENS, VA

Peter Antevy, MD  
Davie Fire Rescue  
Medical Director  
DAVIE, FL

Jessica Arno  
The Combat Midwife  
INSTRUCTOR

Andy Backowski, NRP  
Navy Fire & EMS  
FF/Paramedic Hazmat Technician  
MOYOCK, NC

Sandra Bailey, VAEMSEC, NCEE  
Hanover High School  
EMS Program Educator  
HENRICO, VA  
Bon Secours Mercy Health

Allen W Baldwin, MS Organizational  
Leadership,  
York County Department of Fire and Life  
Safety  
Deputy Chief  
YORKTOWN, VA

Daisy K Banta  
Virginia Office of EMS  
Epidemiologist Senior

# Faculty

Todd I Barb, NREMT-P ALS Course  
Coordinator  
Fairfax County Fire & Rescue  
Battalion Chief  
HAYWOOD, VA

Raphael M. Barishansky, DrPH  
EMS/Public Health Consultant

Sam Bartle, Pediatric Emergency  
Medicine  
VCU Physicians / VCU Health System  
ASSOCIATE PROFESSOR OF  
PEDIATRIC EMERGENCY  
BON AIR, VA  
Dept. Pediatric Emergency Medicine

Kyle David Bates, MS, NRP  
University of Maryland, Baltimore County  
Clinical Assistant Professor, Paramedic  
Program Director

Steven W Berry, BA - Acoustically Handi-  
capped Education  
Southwest Teller County EMS  
EMS Educator/Illustrator  
WOODLAND PARK, CO

Michael F Biamonte, BS  
FBI  
Manager, School of Operational Medicine  
WOODFORD, VA

John Bianco, MS, NRP  
Virginia Beach EMS  
Division Chief  
VIRGINIA BEACH, VA  
DIVISION DIRECTOR

Ellis S Bingley, RN, CEN, CFRN, NRP,  
FP-C  
Carilion Clinic Life-Guard  
FLIGHT NURSE  
BLACKSBURG, VA

Benjamin D Blackwood, MD  
Emergency Physicians of Tidewater  
Emergency Room Physician

Tiffany Bombard, NRP, MD, FACEP  
Champlain Valley Physicians Hospital  
Medical Director

Darla W Boseman, MHS, NRP, CCEMTP,  
NCEE  
Lenoir Community College  
Director of EMS Programs  
KINSTON, NC

William Brady, MD  
University of Virginia  
PROFESSOR & OPERATIONAL  
MEDICAL DIRECTOR

Asher Brand, MD  
Central Shenandoah EMS Council  
REGIONAL MEDICAL DIRECTOR

James T Brendel, AS Criminal Justice  
Technology  
Virginia State Police  
Retired

Harrison Brookeman, MD, EMT-I  
VCU Health System  
EMERGENCY MEDICINE RESIDENT  
PHYSICIAN

Russ L Brown, AAS, NRP  
Southlake Fire Department  
Paramedic/Clinical educator

Seth A Brown, MD  
Med-Trans Corp  
Pediatric Medical Director  
JOHNSON CITY, TN

James Burhop  
CHKD/EVMS  
PHYSICIAN

James Burhop, MD  
Children's Hospital of the Kings Daughters  
Attending Physician

Samuel W Burnette  
Virginia Office of EMS  
EMERGENCY SERVICES COORDINATOR

John E. Burruss, MS, NRP  
Virginia Department of Fire Programs  
Heavy and Technical Rescue Instructor  
CHARLOTTESVILLE, VA

Jamie Burton, RNC-NIC, BS  
VCU Health  
NICU /Transport Nurse  
GLEN ALLEN, VA

Ashley E Camper, BSN, NRP  
Virginia Office of EMS  
Trauma and Critical Care Program  
Manager

Mindy Carter, MBA, RN, TCRN, CNML  
Virginia Office of EMS  
Division Director, Trauma/Critical Care

Benjamin F Cheatham  
Virginia Office of EMS

Francis X Chuidian, MD, MBA, FAAEM  
VCU School of Medicine Department of  
Emergency Medicine  
Emergency Physician

Jermaine T Clayborne, MSN, APRN,  
CFRN, FP-C  
UVA Health Medical Transport Network  
Director  
RICHMOND, VA

Patricia A. Copeland, AAS, ICISF  
Approved Instructor, CICCS  
Stafford County Fire & Rescue  
VOL. PARAMEDIC

Damien George Coy, BA, AAS, NRP,  
NCEE  
Brightpoint Community College  
EMS Program Director  
WILLIAMSBURG, VA

Sarah Putnam Curry, NNP-BC, MSN,  
RNC-NIC, NR-P  
UVA Medical Center  
Neonatal Nurse Practitioner

Amy T Dahart, MSN, APRN, AGACNP-BC  
Mary Washington Hospital  
Nurse Practitioner

Shannon A Daniel, Ph.D.  
Department of State  
Senior Instructional Systems Designer  
MIDLOTHIAN, VA

Heather Davis, EdD, NRP  
UCLA School of Medicine  
Director of Student Assessment  
Sterling Rescue Squad  
Assistant Chief, Retired

Scott W Davis, BS, NRP, FP-C  
Carilion Clinic Life-Guard  
FLIGHT PARAMEDIC

Charles Debonis, MS, FP-C  
Pafford Medical Services  
Paramedic/Education Coordinator

Alicia M Dinkeldein, BSCJ, EMT-B, CCHW  
INDIANAPOLIS EMS  
COMMUNITY PARAMEDICINE  
OUTREACH EMT  
FISHERS, IN

Emily Gitman Dunbar, NRP  
Richmond Ambulance Authority  
PARAMEDIC

Christopher Ebright, B.Ed., NRP  
University of Toledo EMS Program  
Lead EMS Instructor  
MAUMEE, OH

Amy Eisenhauer, EMT  
Health Research Inc  
EMS Program Manager

Brian D Ekey, DO ACOEP  
Lewis Gale Hospital, Montgomery  
Emergency Physician  
BLACKSBURG, VA

Fred Ellinger, NRP  
Bryn Athyn Fire Company  
Deputy Chief of EMS  
WARMINSTER, PA

David English, MPA NRP  
Blacksburg Volunteer Rescue Squad  
CHIEF  
BLACKSBURG, VA

Bryan F Ericson, M.Ed., R.N., NRP, NCEE  
Tarrant County College  
Director of EMS Programs/Associate Professor  
KELLER, TX

Ankur S Fadia, MD, FACP, FACC  
Wythe County Community Hospital  
Physician  
WYTHEVILLE, VA

Reuben P Farnsworth, B.S, CCP-C, CP-C  
RockStar Education and Consulting  
President  
AUSTIN, CO

Michael J Feldman, MD  
Virginia Commonwealth University  
MEDICAL DIRECTOR, EVANS-HAYNES  
BURN CENTER  
HENRICO, VA

Jeffrey D Ferguson, MD, FACEP, FAEMS,  
NRP  
VCU Health  
EMERGENCY PHYSICIAN

William C Ferguson, MD, FAEMS  
UAB, Department of Emergency Medicine  
Director: Office of EMS  
Birmingham, Al,

Paula Ferrada, MD, FACS, FCCM,  
MAMSE  
Inova Healthcare System  
Division and System Chief  
Falls Church, VA

Shawn E Fields, NRP, CCEMTP, FP-C  
Chesterfield Fire & EMS  
Lieutenant  
CHESTERFIELD, VA

Paul Fleenor, NREMT-P, EC  
Virginia Office of EMS  
EMS Program Representative Supervisor

Vernon M Frayser, NRP  
Hanover Co Fire-EMS/York Co FLS  
LIEUTENANT - CANINE HANDLER  
ASHLAND, VA

Daniel Frazier  
Robert Wood Johnson University Hospital  
Mobile Health  
LOGISTICS COORDINATOR / Paramedic  
BROWNS MILLS, NJ

Kathryn Funk, AGACNP-BC, MSN,  
SCRN, CNRN  
Virginia Department of Health, Office of  
Family Health Services  
Stroke Registry Coordinator  
RICHMOND, VA

John P Gannon  
Chesterfield County Fire & EMS  
Captain

Hilary Gates, NRP, M.A. Ed.  
Prodigy EMS  
Director of Educational Strategy

Chad M Gregg  
Virginia Office of EMS  
Regulation & Compliance Enforcement

Sara Gruver, M.Ed, FP-C, CCEMTP  
Schuyler Emergency Medical Services  
Paramedic/Consultant

Frederick Haas, MS, NRP, DICO  
Sussex County EMS  
Paramedic Shift Commander

Erik A Hanna, ACLS Instructor, PALS  
Instructor  
Frederick County Fire and Rescue  
Lieutenant

Gary A Heigel, M.Ed, Paramedic  
Rogue Community College  
Paramedic Program Director

Nella W Hendley, MD, MA  
Eastern Virginia Medical School  
EMS Fellow

Douglas M Hexel, Paramedic  
NY-TF2  
Medical Team Specialist

Firefighter, City of Schenectady  
Christopher P Holstege, MD  
University of Virginia School of Medicine  
PROFESSOR, EMERGENCY MEDICINE

Cara Marie Jackson, DO, FACEP  
Riverside Regional Medical Center  
Emergency Medicine Physician/OMD  
NORFOLK, VA

Cody G Jackson, MHS, FP-C, CMTE  
Med-Trans Corporation dba HEART  
FLIGHT PARAMEDIC

Barry Jacobs, MA  
Childhelp  
Equine Therapist  
Licensed Professional Counselor

Eric Jaeger, JD, NRP, EMS IC  
Exeter Hospital  
EMS Educator  
LEE, NH

Christopher H Jett  
Stafford County FRD  
Battalion Chief

Michael Kaduce, MPS, NRP  
UCLA Center for Prehospital Care  
EMT Program Director

Rhonda Kelly  
All Clear Foundation  
Executive Director  
DENVER, CO

Ryan F Kirk, MPH, NRP, EC  
Prince William County Fire and Rescue  
Program Director/EMS Training Lieutenant  
WOODBIDGE, VA

Christopher M Kroboth, MS, NRP, FP-C  
Fairfax County Fire and Rescue  
Captain

Joseph P Lang, MD FACEP, ABEM-EMS  
Emergency Physicians of Tidewater  
Staff Physician

Program Director, EMS Fellowship, EVMS  
Kellie H Lavine, MSHA, BSN, RN, CFRN,  
NRP  
Carilion Life-Guard  
Flight Nurse

Zachary J Leet, BS, FP-C  
Carilion Clinic Lifeguard  
Flight Paramedic

Alison Lepera, D.O.  
Carilion Clinic  
Emergency Medicine Attending Physician  
BLACKSBURG, VA

Leron T Lewis, RN, M.Ed., NRP, NCEE, CPT  
Virginia Peninsula Community College  
Assistant Professor | Adjunct Faculty  
NEWPORT NEWS, VA

George Lindbeck, MD  
Virginia Office of EMS  
VIRGINIA STATE EMS MEDICAL DIRECTOR

Kayla W Long, DO, MS, MAPP, FACEP  
Centra Health  
EMERGENCY PHYSICIAN AND MEDI-  
CAL DIRECTOR

Stephanie K Louka, MD  
VCU Health System  
EMERGENCY PHYSICIAN  
Richmond, VA

Victoria C Lunceford, NRP, BSM, EC  
VCU  
Trauma Tech

Dusty Lynn, RN MSc. TCRN EMT-P  
Edutainment Consulting and Seminars  
Pediatric Emergency Education

Kari L Magner, Instructor, Supervisor  
Virginia Office of EMS  
Emergency Planner  
GLEN ALLEN, VA  
Co-Ins. Amber Wells, PSAP Specialist

Christina Martinka, ALB, MBE, NRP, FP-  
C, CCP-C  
CEO/Chief Instructor Air Medical Experts  
Medical Advisor - NSWG, SOCOM

Meghan Mathis, PA-C, RN, CFRN, CCRN,  
CEN, TCRN, NRP  
Augusta Emergency Physicians/Waynes-  
boro First Aid Crew  
Emergency Physician Assistant  
WAYNESBORO, VA

Bob Matoba, M.Ed.  
College of Central Florida  
ASSOCIATE PROFESSOR  
OCALA, FL

Lindsay V Mauldin, BSN, FP-C, CFRN  
Pafford EMS  
Clinical Operations Manager  
BRISTOW, VA

Gene Mcdaniel, BS, NRP  
Phoenix Fire Department  
Paramedic Training Coordinator  
MESA, AZ

Jeffrey A Mcphearson, EC, NRP, CCEMT-P  
Prince George Fire and EMS  
Fire Fighter/Critical Care Paramedic  
SOUTH PRINCE GEORGE, VA

Brian Merry, M.Ed., B.S., A.A.S., NRP  
Horry County Fire Rescue  
Captain, Medical Training Officer  
MYRTLE BEACH, SC

Lucian A Mirra, M.Ed., NRP  
Fairfax County  
Assistant Emergency Management  
Coordinator  
FAIRFAX, VA

Cody R Monger, NRP, Certified Fitness  
Trainer  
Rockingham County Fire and Rescue  
Master Firefighter / Paramedic

Christopher Montera, MHL, BS, NRP  
ESO  
SENIOR DIRECTOR OF STATE AND  
FEDERAL PROGRAMS

Jeff Myers, DO, EdM, CCP-C, PHP,  
FAEMS  
Clinical Paramedicine, LLC  
EMS PHYSICIAN  
WILLIAMSPORT, PA

Jose V Nable, MD, NRP  
MedStar Health  
Assoc. Prof. of Emergency Medicine

Alden Hemenway Newcomb, MD, MS  
Carilion Clinic Orthopaedic Surgery  
Orthopedic Surgeon, Spine Surgery Fellow  
ROANOKE, VA

Kathleen O'Connor, MPP, NRP  
MedEd Sim  
EMS Educator  
SANTA ROSA, CA  
iSimulate

Jason T Oberoi  
Blacksburg Volunteer Rescue Squad  
Paramedic

Christina Owens, Certified Professional  
Midwife  
LICENSED MIDWIFE, CERTIFIED PRO-  
FESSIONAL MIDWIFE  
PORTSMOUTH, VA

Michael Dencil Owens, DO, MPH, CEM  
US Navy  
Emergency Physician; Fellowship Director  
VIRGINIA BEACH, VA

Robert E Page, M.ED, NRP, CCP, NCEE,  
CHSE, CHSOS  
Virginia OEMS  
Statewide CE Educator

Theodore R Parks, MD  
VCU CHOR  
PEDIATRIC EMERGENCY MEDICINE  
FELLOW

Ronald D Passmore, NRP, TS-C  
Virginia Office of EMS  
Division Director - REGULATION & COM-  
PLIANCE ENFORCEMENT  
GLEN ALLEN, VA

Tim Perkins  
Virginia Office of EMS  
CHaTR DIVISION DIRECTOR

Luis M Pinet Peralta, PhD, MS EMT-P  
Maryland Institute for Emergency Medical  
Services Systems  
Regional Administrator  
ELLICOTT CITY, MD

Rick Place, MD, MHA  
Inova Fairfax LJM Children's Hospital  
Pediatric ED Medical Director

Rory S Putnam, AA, NR-P, I/C  
Atlantic Life Safety  
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Valerie A Quick, MSN, RN, TCRN, EMT-I,  
NCEE  
UVA Health System  
Trauma Program Manager

Megan T Quintana, MD FACS  
George Washington University  
ASSISTANT PROFESSOR OF SURGERY

Timothy S Redding, NRP, I/C  
Emergency Education Consultants  
Manager

Blake Rikard  
National Registry of EMTs  
Stakeholder Relations Program Manager  
ALEXANDRIA, LA

Tamara A Robinson Moss  
Richmond Ambulance Authority  
Field Operations-Paramedic

Jessica Rosner, MPH  
Virginia Office of EMS  
Epidemiology Program Manager

Kelley C Rumsey, DNP, RN, TCRN, CEN,  
ACNP, PNP  
St. Francis Medical Center  
Director, Trauma Services  
MIDLOTHIAN, VA

Robert Samuel Ryalls  
James City County Fire/EMS  
ASSISTANT FIRE/EMS CHIEF (RET)  
WEST POINT, VA

Antonella Ryan, Bachelor of Paramedic  
Science  
Queensland Ambulance Service  
Advanced Care Paramedic II

David John Sanko, BA, NRP  
Centura Health  
EMS Coordinator of Education & Training  
PARKER, CO

Perla Santillan, M.S.F.S  
OCME  
Mass Fatality Response & Planning Manager  
RICHMOND, VA

Thomas T Sasso  
Portsmouth Fire Rescue EMS  
EMS-Supervisor / Paramedic

Katherine Schulz, RN, BSN, TCRN, CEN  
Children's Hospital of Richmond at VCU  
PEDIATRIC TRAUMA QUALITY  
COORDINATOR

Elizabeth Scott, MSN, RN, CCRN, CFRN,  
NRP  
UVA Health  
CRITICAL CARE TRANSPORT NURSE-  
Clinician IV  
MIDLOTHIAN, VA

Melinda Seigh, BSN, RN, CCTC  
Sentara Norfolk General Hospital  
Senior Heart Transplant/VAD Coordinator  
CAMDEN, NC

Chelsea White Sibold, RN, BSN, CFRN,  
NRP, FP-C  
Carilion Clinic Life-Guard  
FLIGHT NURSE  
LEXINGTON, VA

Christina Helber Smith, MBA  
Chesterfield Fire and EMS  
HR Manager  
MIDLOTHIAN, VA

E. Reed Smith, MD, FACEP, FAEMS  
Arlington County Fire Department  
OPERATIONAL MEDICAL DIRECTOR  
LEESBURG, VA

Victoria S Smith, BSN, RN, CFRN, CCRN,  
CPEN, NR-P  
Duke Life Flight  
Flight Nurse/Paramedic

Matthew J Snyder, NRP,  
James City County Fire Department  
EMS Education Coordinator

Eric Stanley, DO  
Carilion Clinic  
EMERGENCY PHYSICIAN

Christopher Stevenson, MSN  
VCU Health  
FLIGHT NURSE/NURSE PRACTITIONER  
MIDLOTHIAN, VA

Jack Sullivan, CSP, CFPS  
Emergency Responder Safety Institute  
INSTRUCTOR

Mark Terry, MPA  
Consultant

Dean S Thompson, NRP, CCEMT-P  
Hope Advanced Veterinary Center  
Advanced Veterinary Care Technician

Lesya G Tomlinson, DO  
CHKD  
PEM Fellow

Beth L Torres, PhD, RN, CCRN, TCRN  
VCU Health  
TRAUMA NURSE CLINICIAN  
MIDLOTHIAN, VA

Carolyn A Trent, RN,BSN,CFRN,CEN,NRP  
PHI Air Medical  
Flight Nurse

Megan Vaughan, MSN, RN  
Bon Secours Southside Medical Center  
Chest Pain/Heart Failure Program Coord  
COLONIAL HEIGHTS, VA

Christopher M Vernovai, NRP  
Virginia Office of EMS  
EMS SYSTEMS PLANER  
GLEN ALLEN, VA

Michael J Vitto, DO, MS, RDMS, RDCS,  
FACEP, FAEMS  
VCU Health  
ASSOCIATE PROFESSOR  
GLEN ALLEN, VA

Traci A Wakefield, MSN, MSHA, CNRN,  
ACNP-BC  
St. Francis Medical Center  
Neurology Nurse Practitioner  
MOSELEY, VA

Sara L Walker, MS, NRP  
Arkansas State University  
EMS Program Director/Assistant Professor  
JONESBORO, AR

Jeremy Wampler, FO, NRP, CCEMT-P, EC  
Wintergreen Fire & Rescue  
Training Captain  
WEYERS CAVE, VA

Christopher A Warr, BS, NRP, FP-C, CP-C  
Atrium Health Wake Forest Baptist Medical  
Center  
Critical Care Educator/Flight Paramedic

Kern L Watson, NRP, MPA  
Longshop McCoy Fire Rescue  
Paramedic / Lieutenant  
BLACKSBURG, VA

Carrie Manke Weiss, DNP, APRN,  
AGCNS-BC, CEN  
AUTHOR, SPEAKER, LIFE COACH

Steve Weissman  
Firefighter Cancer Support Network  
Virginia State Director

Katherine H West, BSN, MEd, DICO-C  
IC/EC, Inc.  
INFECTION CONTROL CONSULTANT  
PALM HARBOR, FL

Marquita Whisonant, EdD(c), MS, CNS,  
LDN, NRP  
VCU CTCCE  
Assistant Director

Nikhil C Williams, NRP, FP-C, C-NPT  
UVA Medical Transport Network  
Critical Care Paramedic  
Charlottesville VA 22902

Sandra Williams, M.S. in Forensic Medicine  
OCME  
Medicolegal Death Investigator  
MIDLOTHIAN, VA

Justin W Witt, JD, NRP  
City of Fredericksburg Office of the  
Commonwealth's Attorney  
Sr. Asst. Commonwealth's Attorney

Doug Wolfberg, J.D., EMT  
Page Wolfberg & Wirth  
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Chesterfield Fire and EMS  
OPERATIONAL MEDICAL DIRECTOR

Bill Young, NRP, Ed. D.  
Eastern Kentucky University  
Associate Professor  
NICHOLASVILLE, KY

Esthefanie A Zapata, NRP  
Alexandria Fire Department  
Firefighter/Paramedic

## Co-Instructors

Adam Alford  
Emily Andersen, MD  
Rebecca Anhold  
Ildiko Baugus  
Wayne Berry  
Sid Bingley  
Edward Bish  
Chad Bowman  
Ashley Brown  
Chris Brown  
Aaron Bunch  
June Byrd  
Melanie Clark  
Joe Coyle  
James Cross, JD  
Sarah Curry, NNP  
Amanda Danahy  
Heather Davis  
Benjamin Dobrin  
Nate Drake  
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Hilary Gates  
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Josh Pfeiffer  
Teresa Phillips  
Steve Powell

Cassandra Pugh  
Tarsha Robinson  
Matt Sasser  
Tiger Schmittendorf  
Elizabeth Scott, NNP  
Jodi Shirey  
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