

# 2021 VIRGINIA EMS SYMPOSIUM

*an education for life*



## COURSE CATALOG

More than 300 classes available  
Online registration open through October 1  
Learn more and register online at:  
[www.vdh.virginia.gov/symposium](http://www.vdh.virginia.gov/symposium)

NOVEMBER 3 - 7, 2021

NORFOLK WATERSIDE MARRIOTT, SHERATON  
WATERSIDE NORFOLK & HILTON NORFOLK THE MAIN  
NORFOLK, VIRGINIA



**VDH** 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!

- Dominion Energy
- Handtevy - Pediatric Emergency Standards
- Norfolk Fire/Rescue
- State EMS Advisory Board
- 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 1, 2021

The Virginia EMS Symposium registration deadline is Friday, Oct. 1, 2021 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. 1, 2021 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. 15, 2021. A \$25 processing fee is charged for all cancellations.

## 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.

# General Information

## On-Site Check-In Times

Below are the hours that on-site registration will be open during the 2021 Virginia EMS Symposium.

Tuesday, Nov. 2, 2021, 3 p.m. - 9 p.m.  
Wednesday, Nov. 3, 2021, 7 a.m. - 5 p.m.  
Thursday, Nov. 4, 2021, 7 a.m. - 5 p.m.  
Friday, Nov. 5, 2021, 7 a.m. - 5 p.m.

## Lodging

Due to high demand during the Virginia EMS Symposium, many area hotels sell out of rooms quickly. To book a hotel, visit the reservation links below:

### Norfolk Waterside Marriott

235 East Main Street Norfolk, VA 23510  
(757) 627-4200  
<https://www.marriott.com/events/start.mi?id=1626814108294&key=GRP>

### Hilton Norfolk The Main

100 East Main Street, Norfolk, VA 23510  
(757) 763-6200  
<http://www.hilton.com/en/hi/groups/personalized/O/ORFWAHH-EMS-20211101/index.jhtml>

### Sheraton Norfolk Waterside

777 Waterside Drive, Norfolk, VA 23510  
(757) 622-6664  
<https://www.marriott.com/event-reservations/reservation-link.mi?id=1627417245677&key=GRP&app=resvlink>

### Glass Light Hotel and Gallery

201 Granby Street, Norfolk, VA 23510  
(757) 222-3033  
<https://www.marriott.com/events/start.mi?id=1619037785211&key=GRP>

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.

Symposium attendees are responsible for making their own hotel reservations. If you need special accommodations, please call the hotel where you have made reservations. The Office of EMS is unable to make special accommodations for you.

## 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 safe, 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 to take people from the Harbor Park lot to the Sheraton and the Marriott.

Below is the schedule for the shuttle bus:  
Wednesday - 6:15 a.m. - 6:30 p.m.  
Thursday - 6:15 a.m. - 7:30 p.m.  
Friday & Saturday - 6:15 a.m. - 1 a.m.  
Sunday - 6:15 a.m. - 2 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: [gohrt.com/fares/bus-fares/](http://gohrt.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.

Exhibit Hall Hours of Operation:  
Thursday, 2 - 7 p.m.  
Friday, 9 a.m. - 3 p.m. and 5:45 - 7:45 p.m.  
Saturday, 9 a.m. - noon

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

## Annual Governor's EMS Awards Program and Reception

On Saturday, Nov. 6, join us in celebrating the Commonwealth's 2021 Governor's EMS Award presentation. This year, due to limited attendance, 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 6:15 p.m. The program runs from 6:45 - 8:45 p.m. Dinner will be served and limited banquet-style seating will be available.

## 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. 15, 2021. 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 out 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.

## COVID-19 Safety Precautions

The Virginia Office of EMS is planning this event with COVID-19 safety measures in place. All participants are required to follow these safety guidelines. These COVID-19 guidelines will be posted on the Virginia EMS Symposium website and on-site at the event. It will also be provided to all participants in advance of the event.

Additionally, due to the ever-changing environment that this pandemic poses, there may be additional adjustments that need to occur at the last minute. We will notify all attendees as soon as possible of

# CEU & Course Information

any changes that may take place. Please be patient with us as we do our best to bring you a premier training event in the safest way possible.

## 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, 2021.


**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-108**) 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 Graves at [Tristen.Graves@vdh.virginia.gov](mailto:Tristen.Graves@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

MIHCP - Mobile Integrated Healthcare/Community Paramedicine

OPE - Operations

PED - Pediatric

TRA - Trauma



# 2021 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    \_\_\_\_\_ Intermediate    \_\_\_\_\_ Paramedic    \_\_\_\_\_ Instructor  
                                 \_\_\_\_\_ 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:

\$195	Full registration includes: all courses held Nov. 3 - 7, 2021, class materials, breaks and special events	\$ _____
\$285	MED-853 - FPC Review Course	\$ _____
\$175	MED-802 - Infection Control Basic Designated Officer Training Course	\$ _____
\$125	CAR-423 - Advanced Cardiac Life Support (ACLS) for Experienced Providers	\$ _____
\$50	TRA-1238 - Advanced Moulage Techniques: Making Seasoned Providers Cringe!	\$ _____

**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 3

##### 7:30 AM - 5:30 PM

\_\_\_MED-853(L) Day 1\*

##### 8:00 AM - 5:30 PM

\_\_\_ADM-101(L) Day 1\*

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

\_\_\_ADM-102(L) \_\_\_EDU-501(L)  
\_\_\_CAR-423(L)\* \_\_\_TRA-1201(L)

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

\_\_\_ADM-103

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

\_\_\_BLS-301

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

\_\_\_ADM-104 \_\_\_LMGT-701  
\_\_\_ARV-201 \_\_\_MED-803  
\_\_\_CRI-1101 \_\_\_OPE-901  
\_\_\_EDU-502 \_\_\_TRA-1202  
\_\_\_HEA-601 \_\_\_TRA-1203  
\_\_\_HEA-602

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

\_\_\_ADM-105 \_\_\_MIHCP-1401  
\_\_\_ARV-202 \_\_\_OPE-902  
\_\_\_CRI-1102 \_\_\_OPE-903  
\_\_\_EDU-503 \_\_\_PED-1003(L)  
\_\_\_HEA-603 \_\_\_TRA-1204(L)  
\_\_\_HEA-604 \_\_\_TRA-1205  
\_\_\_MED-805

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

\_\_\_BLS-302

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

\_\_\_ADM-106 \_\_\_MED-808  
\_\_\_ARV-203 \_\_\_OPE-904  
\_\_\_CAR-401 \_\_\_OPE-905  
\_\_\_CRI-1103 \_\_\_PED-1004  
\_\_\_HEA-605 \_\_\_PED-1005  
\_\_\_MED-806 \_\_\_TRA-1206

\_\_\_MED-807 \_\_\_TRA-1207

##### 1:30 - 5:30 PM

\_\_\_BLS-303 \_\_\_LMGT-702(L)

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

\_\_\_ADM-107 \_\_\_MED-810  
\_\_\_ARV-204 \_\_\_MIHCP-1402  
\_\_\_CRI-1104 \_\_\_PED-1006  
\_\_\_CRI-1105 \_\_\_PED-1007  
\_\_\_EDU-504 \_\_\_TRA-1208  
\_\_\_HEA-607 \_\_\_TRA-1209  
\_\_\_MED-809

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

\_\_\_ARV-205(L) \_\_\_MED-812  
\_\_\_HEA-608(L) \_\_\_OPE-906(L)  
\_\_\_MED-811\* \_\_\_PED-1008

##### 3:00- 4:00 PM

\_\_\_EDU-505 \_\_\_PED-1010  
\_\_\_MIHCP-1403 \_\_\_TRA-1211  
\_\_\_OPE-907 \_\_\_TRA-1212(L)  
\_\_\_PED-1009

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

\_\_\_HEA-609 \_\_\_PED-1012  
\_\_\_HEA-610(L) \_\_\_TRA-1213  
\_\_\_PED-1011

#### Thursday, November 4

##### 7:30 AM - 5:30 PM

\_\_\_MED-853(L) Day 2\*

##### 8:00 AM - 5:30 PM

\_\_\_ADM-101(L) Day 2\*

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

\_\_\_ADM-108

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

\_\_\_BLS-304

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

\_\_\_ARV-206 \_\_\_MED-813  
\_\_\_CAR-402 \_\_\_MED-814  
\_\_\_CRI-1107 \_\_\_PED-1013  
\_\_\_EDU-506 \_\_\_PED-1014  
\_\_\_LMGT-703 \_\_\_TRA-1214\*  
\_\_\_LMGT-704 \_\_\_TRA-1215

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

\_\_\_ADM-109 \_\_\_MED-815\*

\_\_\_ARV-207 \_\_\_MED-816

\_\_\_CAR-403 \_\_\_MED-817

\_\_\_CRI-1108 \_\_\_OPE-908

\_\_\_EDU-507 \_\_\_PED-1015

\_\_\_HEA-611 \_\_\_PED-1016

\_\_\_LMGT-705 \_\_\_TRA-1216

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

\_\_\_ADM-119

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

\_\_\_ARV-208 \_\_\_OPE-909  
\_\_\_CRI-1109 \_\_\_OPE-910  
\_\_\_EDU-508 \_\_\_OPE-911  
\_\_\_HEA-612 \_\_\_PED-1017  
\_\_\_LMGT-706 \_\_\_PED-1018  
\_\_\_LMGT-707 \_\_\_TRA-1217  
\_\_\_MED-818 \_\_\_TRA-1218

##### 1:30 - 5:30 PM

\_\_\_OPE-912

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

\_\_\_BLS-305

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

\_\_\_ARV-209 \_\_\_MED-820  
\_\_\_CAR-404 \_\_\_OPE-913  
\_\_\_CAR-405 \_\_\_OPE-914  
\_\_\_CRI-1111 \_\_\_PED-1019  
\_\_\_LMGT-708 \_\_\_PED-1020  
\_\_\_MED-819 \_\_\_TRA-1219

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

\_\_\_ADM-110\* \_\_\_EDU-509\*  
\_\_\_ADM-120 \_\_\_HEA-613  
\_\_\_ARV-210 \_\_\_TRA-1220  
\_\_\_CAR-406

##### 3:00 - 4:00 PM

\_\_\_CRI-1112\* \_\_\_PED-1021  
\_\_\_EDU-510 \_\_\_PED-1045  
\_\_\_OPE-915 \_\_\_TRA-1221  
\_\_\_OPE-916(L) \_\_\_TRA-1222  
\_\_\_OPE-917

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

\_\_\_BLS-306

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

\_\_\_ADM-111 \_\_\_OPE-918  
\_\_\_CRI-1113 \_\_\_PED-1046

\_\_\_LMGT-709      \_\_\_TRA-1223  
\_\_\_MED-821

**Friday, November 5**

7:30 AM - 5:30 PM

\_\_\_MED-853(L) Day 3\*

8:30 AM - 5:30 PM

\_\_\_MED-802(L) Day 1\*

8:00 AM - 5:00 PM

\_\_\_MED-852(L)\*      \_\_\_TRA-1238(L)\*

8:00 AM - 3:00 PM

\_\_\_OPE-933

8:00 AM - 12:00 PM

\_\_\_ARV-223(L)      \_\_\_CAR-407

8:00 - 11:00 AM

\_\_\_BLS-307

8:00 - 9:00 AM

\_\_\_ADM-112      \_\_\_OPE-920

\_\_\_CAR-408      \_\_\_OPE-921

\_\_\_CRI-1114      \_\_\_PED-1022

\_\_\_MED-823      \_\_\_PED-1023

\_\_\_MED-824      \_\_\_TRA-1224

\_\_\_OPE-919

9:30 - 11:30 AM

\_\_\_CAR-409

9:30 - 10:30 AM

\_\_\_ADM-113      \_\_\_MED-826(L)

\_\_\_ARV-212      \_\_\_MIHCP-1404

\_\_\_ARV-213\*      \_\_\_PED-1024

\_\_\_CRI-1115      \_\_\_TRA-1225

\_\_\_HEA-614      \_\_\_TRA-1226

\_\_\_MED-825

10:00 AM - 12:00 PM

\_\_\_ADM-121

11:00 AM - 12:00 PM

\_\_\_ADM-114      \_\_\_MIHCP-1405(L)

\_\_\_ARV-214      \_\_\_OPE-922

\_\_\_CAR-410      \_\_\_OPE-923

\_\_\_MED-827      \_\_\_PED-1025(L)

\_\_\_MED-828      \_\_\_TRA-1227

\_\_\_MED-829\*      \_\_\_TRA-1228

1:30 - 5:30 PM

\_\_\_ARV-224(L)      \_\_\_PED-1026

\_\_\_LMGT-710(L)

1:30 - 4:30 PM

\_\_\_BLS-308

1:30 - 2:30 PM

\_\_\_ADM-115

\_\_\_ARV-215      \_\_\_MED-830

\_\_\_ARV-216      \_\_\_OPE-924

\_\_\_CAR-411      \_\_\_OPE-925

\_\_\_CRI-1116      \_\_\_PED-1027

\_\_\_LMGT-711      \_\_\_TRA-1229

3:00 - 5:00 PM

\_\_\_ADM-116      \_\_\_CAR-412(L)

\_\_\_ADM-117      \_\_\_CAR-413

\_\_\_ADM-122      \_\_\_LMGT-712

\_\_\_ARV-217      \_\_\_TRA-1230

3:00 - 4:00 PM

\_\_\_ARV-218      \_\_\_MED-833

\_\_\_CAR-414      \_\_\_MIHCP-1406

\_\_\_LMGT-713      \_\_\_TRA-1231

\_\_\_MED-832

4:30 - 5:30 PM

\_\_\_ADM-118      \_\_\_PED-1029

\_\_\_ARV-219      \_\_\_TRA-1232

\_\_\_CRI-1117      \_\_\_TRA-1233

\_\_\_PED-1028

**Saturday, November 6**

8:30 AM - 5:30 PM

\_\_\_MED-802(L) Day 2\*

8:00 AM - 12:00 PM

\_\_\_EDU-511      \_\_\_OPE-926

8:00 - 9:00 AM

\_\_\_ARV-220      \_\_\_MED-834(L)

\_\_\_CAR-415      \_\_\_MED-835(L)

\_\_\_CRI-1119      \_\_\_PED-1030

\_\_\_HEA-615      \_\_\_PED-1031

\_\_\_LMGT-714      \_\_\_TRA-1234(L)

9:30 - 10:30 AM

\_\_\_CAR-416      \_\_\_MED-837

\_\_\_CAR-417      \_\_\_MED-838(L)

\_\_\_CRI-1118      \_\_\_OPE-927

\_\_\_EDU-512      \_\_\_PED-1032

\_\_\_LMGT-715      \_\_\_PED-1033

\_\_\_MED-836

11:00 AM - 12:00 PM

\_\_\_ARV-221(L)      \_\_\_MED-840(L)

\_\_\_CAR-418      \_\_\_MED-841

\_\_\_EDU-516      \_\_\_OPE-928

\_\_\_LMGT-716      \_\_\_PED-1035

\_\_\_MED-839(L)      \_\_\_PED-1036

1:30 - 5:30 PM

\_\_\_PED-1037

1:30 - 2:30 PM

\_\_\_CAR-419      \_\_\_MED-845

\_\_\_CAR-420      \_\_\_OPE-929

\_\_\_EDU-514(L)      \_\_\_OPE-930

\_\_\_HEA-616      \_\_\_OPE-931

\_\_\_MED-842      \_\_\_PED-1038

\_\_\_MED-843      \_\_\_PED-1039

\_\_\_MED-844(L)

3:00 - 5:00 PM

\_\_\_CAR-421      \_\_\_MED-846

\_\_\_HEA-617      \_\_\_PED-1040

\_\_\_PED-1041

3:00 - 4:00 PM

\_\_\_EDU-515      \_\_\_OPE-932

\_\_\_LMGT-718      \_\_\_PED-1042

\_\_\_MED-847(L)      \_\_\_TRA-1235

\_\_\_MED-848

4:30 - 5:30 PM

\_\_\_LMGT-719      \_\_\_PED-1043

\_\_\_MED-849(L)      \_\_\_TRA-1236

\_\_\_MED-850

**Sunday, November 7**

9:00 - 11:00 AM

\_\_\_ARV-222      \_\_\_HEA-620

\_\_\_CAR-422      \_\_\_MED-851

\_\_\_HEA-618      \_\_\_PED-1044

\_\_\_HEA-619      \_\_\_TRA-1237



**5. 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 6  
at the Norfolk Waterside Marriott?

\_\_\_\_\_ Yes                      or                      \_\_\_\_\_ No

# of Guests (up to five additional) \_\_\_\_\_

## Three Day Courses

### Wednesday to Friday

#### 7:30 AM - 5:30 PM

#### **MED-853 FPC Review Course**

24.0 CEU

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

This BCCTPC approved review course covers the topic areas that will be tested in the Flight Paramedic Certification Exam and Critical Care Paramedic Certification. For experienced providers, you should feel comfortable with the following areas after this course: Trauma, Aircraft Safety and Survival, Flight Physiology, Advanced Airway and Neuro Emergencies, Critical Care, Toxicology, Respiratory, Obstetrics, Neonatal and Pediatrics, Environmental, Burns and Medical Emergencies. The course will be held over three days, includes handouts, will introduce providers to critical care and allow experienced providers to feel comfortable sitting for their exam.

**Course Fee: \$285.00**

*Instructor: Christina Martinka*

*Co-Instructor(s): Chris Martinka, Jeremy Tate, Matt Fox, Nicole Artisst*

**Limited to: 27**

## Two Day Courses

### Wednesday to Thursday

#### 8:00 AM - 5:30 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): Chris Payne, Larry A. Oliver*  
*Prerequisite: NIMS 100, 200, 700, 800 EMT certification (minimum) No compliance or correction actions from; Agency, OEMS, OMD MCI 1 & 2 (recommended but not required)*

**Limited to: 30**

## Friday to Saturday

### 8:00 AM - 5:30 PM



#### **MED-802 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 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, recordkeeping and reporting requirements. This course also covers childhood diseases as well as meningitis and blood borne pathogens and TB.

**Course Fee: \$175.00**

*Instructor: Katherine H West*

*Co-instructor: Jim Cross*

**Limited to: 32**

## Wednesday Courses

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

#### **ADM-102 Mass Casualty Incident Management I/II (Awareness/ Operations)**

BLS CAT 2 / ALS CAT 2 / 8.0 CEU

*Target Audience: ALS, BLS, Dispatcher*

Mass Casualty Incident Management Module I-Awareness defines mass casualty incident, differentiates between a disaster and a mass casualty incident, provides the initial actions taken by first responders to the scene of a mass casualty incident and demonstrates initial patient triage actions utilizing both the S.T.A.R.T. and S.A.L.T. methods of triage. Mass Casualty Incident Management Module II-Operations course builds upon MCIM I by teaching students the duties and responsibilities of the incident command roles responsible for patient care and transport i.e. staging officer, medical group supervisor, triage, treatment and transportation officers.

*Instructor: Samuel W Burnette*

**Limited to: 24**

#### **CAR-423 Advanced Cardiac Life Support (ACLS) for Experienced Providers**

BLS CAT 2 / ALS 17 / 8.0 CEU

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

The goal of the ACLS EP course is to improve outcomes in complex cardiovascular, respiratory and other (e.g, metabolic, toxicologic) emergencies

by expanding on core ACLS guidelines and encouraging critical thinking and decision-making strategies. Through instruction and active participation in case-based scenarios, learners enhance their skills in the differential diagnosis and treatment of pre-arrest, arrest, and post arrest patients. The successful participant will receive an ACLS-EP certification card, which is valid for two (2) years and supersedes a standard ACLS Provider certification. Textbook will be provided.

**Course Fee: \$125.00**

*Instructor: John C Cook*

*Co-Instructor(s): Carol A Bernier, Matt Rickman*

*Prerequisite: Current American Heart Association ACLS Provider certification*

**Limited to: 24**

#### **EDU-501 "How do you eat an Elephant?" Fundamentals of Simulation in EMS**

BLS CAT 2 / ALS CAT 2 / 8.0 CEU

*Target Audience: Administrators, Educators, RNs*

Many EMS education programs have some form of simulation, from simple CPR manikins to computer based programs, from VR to High Fidelity simulation and standardized patients. But there really are no formal programs available to orient educators to properly use simulation. Join Bob Page as he orients you to the fundamentals of simulation that includes a quick start guide to such areas as PreBrief, Simulation Management, Debriefing and Evaluation Rubrics. The workshop is loaded with ideas and nuggets to help begin the path to getting the most out of simulation.

*Instructor: Robert E Page*

**Limited to: 50**

#### **TRA-1201 Advance Burn Life Support (ABLS)**

BLS CAT 2 / ALS 18 / 8.0 CEU

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

The Advanced Burn Life Support program is the American Burn Association's (ABA) premier educational resource for the emergency care of burn injuries. Advanced Burn Life Support (ABLS) programs provide knowledge for immediate care of the burn patient up to the first 24-hours post injury. ABLS programs also support emergency preparedness and mass casualty incidents focusing on triage, burn survivability, prioritizing transport of patients and patient treatment. ABLS is available for a wide range of burn care professionals.

*Instructor: Lillie Willis*

**Limited to: 20**

## Wednesday Courses

**8:00 AM - 12:00 PM**



### **ADM-103 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: Bubby Bish*

**8:00 AM - 9:30 AM**

### **BLS-301 BLS Academy - Airway Management**

BLS 11 / ALS CAT 2 / Other CEU

*Target Audience: BLS*

Offered by the teaching faculty of Tidewater Community College, this is the first class in the BLS Academy and satisfies the 1.5 hours of Airway Management required for the 2016 NCCR/Category 1 CE requirements.

*Instructor: Jason Ambrose*

**8:00 AM - 9:00 AM**

### **ADM-104 Data Talks! How to Listen?**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: ALS, Administrators, BLS, Educators, RNs*

This class will discuss data quality issues with examples, tables and charts for visualization. The data quality discussion will be followed by improvements that EMS providers have made over the years and how they can continue to improve. Demonstrations on how to use ESO Analytics and Biospatial visualizations will be covered.

*Instructor: Jessica Rosner*

### **ARV-201 Massive Pulmonary Embolism: Identification and Avoidance of Disaster**

BLS 11 / ALS 16 / 1.0 CEU

*Target Audience: ALS, Educators*

Pulmonary embolism is often discussed but rarely identified in the field. While it is often thrown out as a differential for an arrest patient, we rarely consider this on our differential in other patients. This lecture will present tips for identification in the field and discuss ways we can

improve care and avoid decompensation in these patients. We will discuss blood pressure management, ecg changes, when to, and when not to, manage the airway and the basics of ultrasound identification.

*Instructor: Gregory L Cassis*

### **CRI-1101 Pump and Flow: IABP and Impella Basics**

BLS CAT 2 / ALS 17 / 1.0 CEU

*Target Audience: ALS, RNs*

New to critical care and nervous about your first cardiac transport? This lecture takes a look at all the gadgets our patients have to aid their medical situation. We will cover common devices that are implanted and attached, while discussing common issues with these devices and the best methods for EMS providers to assist in their operation or malfunction.

*Instructor: Lindsay V Mauldin*

### **EDU-502 Down the Rabbit Hole: Developing Self-Awareness of Cognitive Bias in our Clinical Decision Making**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: All*

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

*Instructor: Kayla W Long*



### **HEA-601 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*



### **HEA-602 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. 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*



### **LMGT-701 Mickey Mouse and Chicken: Customer Service in EMS**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: All*

The Disney Keys to Excellence and Chick-Fil-A principles are the foundation for this lecture about customer service in EMS. Public safety is a society of service and that service starts within your organization. We must serve ourselves and our peers well in order to be able to serve the community. Learn to approach everyone as a customer and watch how your behavior changes your organization, your patient care and everyone around you. A mindset of service leadership and service marketing can assist your agency with recruitment, retention and overall success.

*Instructor: Devon T Clary*

### **MED-803 Intranasal Medication Administration**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience: ALS, BLS*

There are numerous times in an ALS provider's career where they are faced with a combative patient or a scared child who is in need of medication and IV access is not an option. You could take the change of running toward a combative patient with an IM needle or you can go the safe route and administer the medication intranasally. This course will cover anatomy and physiology of intranasal medication administration and the pharmacology of the medications we can administer.

*Instructor: Scott V McCormack*

### **OPE-901 Can You Hear Me Now? Communications When Cell and Wifi Signals Aren't Available**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: All*

Whether its Verizon, Sprint or another wireless carrier, we have all seen the commercial. Can you hear me now? Well, can you? As a society we have become reliant on our use of technology. What happens when that technology fails us and we are required to be at work? How do we communicate with our family? Our neighbors? Are you ready? This class will discuss options for communications outside of what most would consider the norm.

*Instructor: Matthew A Norville*

## Wednesday Courses

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

#### **TRA-1202 High Speed, High Energy Trauma 2.0**

BLS 13 / ALS 18 / 1.0 CEU

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

What to do with nearly 8 million joules of energy? That's what a NASCAR race vehicle has when travelling at top speed. This session will talk about the physics involved in high-energy crashes and how to use that information to sharpen your assessment, especially as it pertains to mechanism of injury. New for 2021, we will focus on quick, immediate assessment and ABC interventions. Preparation, practice and improvisation can help you be ready for these types of events when they occur.

*Instructor:* Kern L Watson

#### **TRA-1203 Altitude Illness and Management**

BLS 13 / ALS 18 / 1.0 CEU

*Target Audience:* All

Altitude illnesses can be very challenging, both in diagnosing and management. In this lecture, we will discuss the physiologic changes in the body in response to high altitude, and then discuss the presentation and management of altitude illnesses including, Acute Mountain Sickness, High Altitude Pulmonary Edema and High Altitude Cerebral Edema.

*Instructor:* Joseph P Lang

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

#### **ADM-105 Virginia Office of EMS Regulation and Compliance Investigations**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

You are contacted by a Virginia Office of EMS Investigator and advised you are party to an investigation; what happens next? This class will discuss the intricacies of an investigation conducted by the Virginia Office of EMS Regulation and Compliance Division, reviewing the applicable Virginia EMS Regulations and presenting the details of the investigative process.

*Instructor:* Scotty L Williams

#### **ARV-202 Advanced CPAP**

BLS CAT 2 / ALS 16 / 1.0 CEU

*Target Audience:* ALS

Have you had patients "fail" CPAP? Are you always in a rush to skip past and move to RSI? Learn how to optimize CPAP so that it works for you and the patient. Are you concerned about placing

patients on CPAP in the COVID era? The course will discuss mask seal testing, patient optimization, how to measure effectiveness, capnography, and effective nebulizer integration. The course will also discuss when BiPAP has added benefits and when it does not.

*Instructor:* Gregory L Cassis

#### **CRI-1102 Number Munchers: Demystifying Lab Values**

BLS CAT 2 / ALS 19 / 1.0 CEU

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

You've heard of hyperkalemia and hypocalcemia, but can you attach numerical values to these electrolyte derangements? Outside of glucose, many providers feel lost when looking at lab values. In this lecture, we will simplify common lab values and imbalances into an easily digestible format. We will also look at how these imbalances affect the patient, as well as common presentations.

*Instructor:* Lindsay V Mauldin

#### **EDU-503 "ED CON" How to Flip Your Con Ed to Make it More Engaging, Relatable and Retainable**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience:* Educators

Is your continuing education program flat or stagnant? How about online click-through content? Join us for an interactive how-to course on developing and deploying data-driven scenario-based education that is more engaging, relatable and retainable for your crews all while maintaining cost effective modeling. Make continuing education geared to your agency and providers and a platform for problem-solving and training out issues. We will also discuss scaffolding the learning by assigning pre-course work (content exposure) to help with provider comfort, confidence and knowledge along before sessions.

*Instructor:* Christopher M Kroboth

#### **HEA-603 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

#### **HEA-604 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

#### **MED-805 Every Patient is Different: Autism Spectrum Disorder and Intellectual Developmental Disability Awareness Education for First Responders**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience:* All

What happens if you encounter a patient that cannot communicate their complaint to first responders? Patients with Autism Spectrum Disorder (ASD) and Intellectual Developmental Disabilities (IDD) are very susceptible to being unable to recognize and understand social cues and behaviors, or effectively communicate when dealing with first responders in an emergency situation. This course aims at educating first responders to better recognize the signs and symptoms of ASD and IDD, and understand how these issues can affect patient interactions and treatment decisions.

*Instructor:* Tyler S Dean

#### **MIHCP-1401 CONECT (Community Outreach Network Educate Care Thrive)**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience:* All

The CONECT (Community Outreach Network Educate Care Thrive) Program is a locally-driven response to ensure safety and a high quality of life for the over 24% of the James City County (JCC) population that is over 65. CONECT was formalized in March 2018 to address the increasing strain on JCC first responders in the Fire/EMS department in reacting to non-emergency/public service calls, particularly for mobility emergencies, which can be calls for falls with injury or a lift assist.

*Instructor:* Jason A Sweet

*Co-Instructor(s):* Ellie Rest



## Wednesday Courses

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

#### **OPE-902 Dealing with Dispatch: What Really Happens Behind the Radio**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

Have you ever been frustrated by your communications center not providing accurate information for your response? Have you ever been sent to the wrong location? Have you ever wondered WHY THEY DON'T ANSWER THE RADIO? If you answered yes to any of these questions, this class is for you! Learn more about communication center operation including: recruitment, retention and training, call taking, roles and responsibilities of telecommunicators, call management, myths, and frustrations from behind the radio. Gain knowledge to potentially eliminate frustration and make operations more efficient for everyone.

*Instructor: Devon T Clary*

#### **OPE-903 What Happens When You Can't Get Home? Preparing Your Family for Disaster When You're Away.**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: All*

In the service field we know that we could be called upon to work periods beyond what we may normally work. Your family may be used to long shifts, overtime and occasional extra hours here and there. But what happens when you are away 3-5 days and power is out? Is your family ready? We will look at things we can do to make sure our family is taken care of when we can't be there to help.

*Instructor: Matthew A Norville*

#### **PED-1003 Emergent IV Access and Airway Stabilization in the Pediatric Patient**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience: ALS*

A didactic discussion of intraosseous access in the pediatric patient with difficult IV access will be combined with discussion of airway intervention skills. Different techniques and the rationale for these will be discussed with a literature based focus. Pitfalls in IV access and airway management will be emphasized in the session.

*Instructor: Rick Place*

**Limited to: 20**

#### **TRA-1204 Adding TXA to the Toolbox...**

BLS 13 / ALS 18 / 1.0 CEU

*Target Audience: ALS, BLS*

This course will serve as a review of current bleeding control practices including tourniquets and wound packing. Now

we add the use of TXA (Tranexamic Acid). What is it? What does it do? And how does it work? And most importantly how is it administered? We will practice the application of the tourniquets and packing of wounds.

*Instructor: Scott V McCormack*

**Limited to: 30**

#### **TRA-1205 Dive! Dive! Dive! - Diving Related Illness**

BLS 13 / ALS 18 / 1.0 CEU

*Target Audience: All*

With over 1,000,000 SCUBA divers in the world, there is a chance an EMS provider will have to care for either a civilian or military diving related issue. In this lecture, we will review the physics and physiologic changes that happens to a person when diving. We will then progress to identification and management of problems encountered during descent, at depth, and during ascent.

*Instructor: Joseph P Lang*

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

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

BLS 15 / ALS CAT 2 / 2.0 CEU

*Target Audience: BLS*

Presented by the faculty at Tidewater Community College, this is the second class in the BLS Academy and satisfies 2 hours of the required 5 hours for the 2016 Category 1/NCCR CE requirements.

*Instructor: Jason Ambrose*

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

#### **ADM-106 Breaking Down Your EMS Data: What Happened in the Last Year?**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: All*

Has anyone ever asked you what you do all day as an EMS provider? In this session, we'll answer that question with statistics. Come see what happened over the last year, from stroke calls to child transports to naloxone administrations. Learn what's been happening in your EMS council region and around the state!

*Instructor: Jessica Rosner*

#### **ARV-203 Prehospital use of Bi-PAP and CPAP**

BLS 11 / ALS 16 / 1.0 CEU

*Target Audience: All*

CPAP has become the standard of care for a major portion of the Commonwealth of Virginia. Technology has improved to the point that BiPAP is now available to the prehospital providers. This lecture will discuss the uses of CPAP and introduce the participants to the learner to the

times when BiPAP can improve your patient's outcome.

*Instructor: Marc Winstead*

#### **CAR-401 They're Doing What? That's Crazy! Emergencies in Endurance Athletes**

BLS 12 / ALS 17 / 1.0 CEU

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

With endurance and obstacle athletic events popping up all over the place, we as providers need to understand what to expect for medical emergencies in these endurance athletes as they push their bodies to the limits. Utilizing case scenarios, we will discuss medical issues to consider when working one of these events. The mystery for you to solve will just be why on Earth do people pay to do this to themselves?

*Instructor: Kayla W Long*

#### **CRI-1103 Cardiac Infusions in the Critical Care Transport Setting - Things to Consider from a Flight and Ground Perspective**

BLS CAT 2 / ALS 17 / 1.0 CEU

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

In critical care medicine, there are cardiac infusions that are used to help maintain critical care patients during transport by air and ground. Which medications are the best to use? What does recent peer-reviewed research state about our favorite medications that we use as critical care providers? Should we continue the status quo or reconsider our drug box? How do we as providers step outside our comfort zone? These questions, as well as considerations unique to the air and ground transport environment surrounding these medications, will be addressed.

*Instructor: Steven M Moring*

*Prerequisite: Providers attending this course should have at least a basic knowledge in the practice of critical care transportation.*

#### **HEA-605 Why Die Today When You Could Die Tomorrow, or Perhaps Much Later**

BLS 15 / ALS 20 / 1.0 CEU

*Target Audience: All*

Discussion of the most common preventable cause of death of Fire and EMS providers and how changing the foods we eat can have a dramatic reduction in morbidity and mortality...I.E. not just dying but living with the consequences of diseases. We will discuss how the foods we eat can dramatically reduce cardiovascular disease.

*Instructor: Eric L Bachrach*



## Wednesday Courses

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

#### **MED-806 Is There a Full Moon Out Tonight?**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience: ALS, BLS*

Far too often we respond to calls for help of a psychiatric nature, it tends to be one call that is mismanaged the most. In this class we will discuss assessment of patients with psychiatric history or in crisis. We will also discuss management of a patient with excited delirium to ensure safety of the crew as well as the patient.

*Instructor: Scott V McCormack*

#### **MED-807 Whole Blood - How We Did It**

BLS 14 / ALS 19 / 1.0 CEU

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

The Northern Virginia region began administering blood in the field as a region in 2018. This presentation will explain how they made this possible, the partnerships, agreements, contracts, and champions needed to deliver whole blood to an EMS agency or an entire system. Students will leave with an understanding of the partnerships necessary as well as the startup and recurring costs associated with an EMS forward-deployed whole-blood system.

*Instructor: Craig A Evans*

#### **MED-808 Don't Sugarcoat It: Managing Diabetic Patients**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience: ALS, BLS, RNs*

With diabetes surging through our population, EMS providers must be familiar with current trends, treatments, and management of diabetic patients. In addition to reviewing the basics of different types of diabetes, we will examine hypoglycemia and each of the hyperglycemic states, as well as treatment options for each as an ALS, BLS, and Critical Care provider.

*Instructor: Lindsay V Mauldin*

#### **OPE-904 Commanding the Chaos on the Interstate 64 Queens Creek Bridge**

BLS 15 / ALS 20 / 1.0 CEU

*Target Audience: All*

On December 22, 2019, a significant crash occurred on the Queens Creek Bridge located on Interstate 64 in York County, Virginia. The crash involved 75 vehicles along a section of the interstate which was being widened for additional travel lanes and on one of the bridges over Queens Creek. Multiple agencies (and off site resources) managed the incident in a well-coordinated and collaborative fashion to mitigate the results of the

incident. This presentation will discuss the incident, from a fire/rescue perspective, but with knowledge of the efforts by other agencies.

*Instructor: Stephen P Kopczynski*

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

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: All*

The three most common ways EMS providers wind up in trouble: sex, drugs, and cell phones. As EMS providers, our education often focuses on questions about consent, abandonment and patient refusals. The very nature of us - EMS professionals - creates many layers of ethical conflict that cut across all our organizations. This session takes a look at the broader aspect of EMS ethics, and discusses how we might manage and identify potential conflicts. Learn how to promote positive ethical change in your organization without killing the fun.

*Instructor: Kern L Watson*

#### **PED-1004 Initial Management of Traumatic Brain Injury in the Pediatric Patient**

BLS 13 / ALS 18 / 1.0 CEU

*Target Audience: All*

Severe traumatic brain injury is a leading cause of morbidity in the pediatric population. Initial management can and does have profound implications in final neurologic outcome. This discussion will focus on the physiology of moderate to severe traumatic brain injury and the limited, but critical steps necessary to prevent secondary and lasting injury.

*Instructor: Rick Place*

#### **PED-1005 Pediatric Shock: What is the Cause and What Can I do on the Way to the Hospital?**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience: All*

Shock management guidelines have changed recently for the adult population of patients. Some of the definitions and management of pediatric shock, specifically for septic shock, are changing as well. Fluid resuscitation and vasopressor management continue to be hallmarks of initial stabilization. This lecture reviews current guidelines and definitions of different types of sepsis as well as recommended management of these patients.

*Instructor: Laura Boomer*

#### **TRA-1206 Wound Care Woes**

BLS 13 / ALS 18 / 1.0 CEU

*Target Audience: All*

Trials and tribulations of a Wound Care PA. This lecture will include classification and description of acute wounds, including

how providers approach wound closure, what factors weigh in on the decision to close or not to close, in addition to closure techniques and why this is pertinent to EMS providers, especially those with departments considering Community Paramedicine.

*Instructor: Kathleen E Kramer*

#### **TRA-1207 Tranexamic Acid: Battlefield to the Street**

BLS 13 / ALS 18 / 1.0 CEU

*Target Audience: ALS, Administrators, MD, DO, RNs*

Tranexamic acid (TXA) is used worldwide in the treatment of hemorrhagic shock. While it has been used for a long time in other settings, its use in trauma became more wide-spread in the austere battlefield environment. Recently, TXA has transitioned into civilian trauma care with many EMS systems adopting TXA for use in and out of hospital trauma care. In this interactive session, we will discuss the physiology of hemorrhagic shock and the role TXA plays in treating hemorrhagic shock.

*Instructor: Jeff Myers*

### 1:30 PM - 5:30 PM

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

BLS 14 / ALS CAT 2 / 4.0 CEU

*Target Audience: BLS*

Presented by the faculty at Tidewater Community College, 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: Jason Ambrose*

#### **LMGT-702 Keeping the Best - Culture(s) and Success(es)**

BLS CAT 2 / ALS CAT 2 / 4.0 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 T Bianco*

*Co-Instructor(s): David Tesh*

**Limited to: 40**

## Wednesday Courses

1:30 PM - 2:30 PM

### **ADM-107 Researching EMS Data: How OEMS is Using the Information in Your ePCRs**

BLS 15 / ALS 20 / 1.0 CEU

*Target Audience: ALS, BLS*

Do you ever think "Why do I need to enter ePCR data? No one really looks at it?" This session will show you how your ePCR data is used to answer questions from legislators, government agencies, healthcare professionals, researchers and the media. We'll address the research being conducted using the data you enter and the plans OEMS has for using this information to improve the health of Virginia's citizens. We'll also talk about the importance of data quality and the old saying: garbage in, garbage out.

*Instructor: Jessica Rosner*

### **ARV-204 The Future of High Flow Ventilation: Introducing the AIRVO 2 Humidifier with Integrated Flow Generator**

BLS 11 / ALS 16 / 1.0 CEU

*Target Audience: All*

The AIRVO 2 generates high flows of warmed and humidified respiratory gases, delivered to spontaneously breathing patients through a variety of nasal, tracheostomy and mask interfaces. This innovative oxygen system, provides an effective, versatile solution for the delivery of oxygen therapy for both pediatric and adult patients. This modality was initially developed for neonatal patients, and refinements have permitted its use in adults. This course will help you as a provider understand and operate the high flow ventilation AIRVO 2.

*Instructor: Richard Szymczyk*

### **CRI-1104 Case Reviews for the Advanced Provider-Version 6.0**

BLS CAT 2 / ALS 19 / 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*

*Prerequisite: BLS level education and or experience.*

### **CRI-1105 Point of Care Lab Testing in EMS**

BLS CAT 2 / ALS 19 / 1.0 CEU

*Target Audience: ALS, Administrators, MD, DO, RNs*

This course will review the deployment and utility of point of care lab testing outside of the hospital. Discussion will include particular challenges in deployment, including CLIA certification, equipment requirements and why field labs could affect EMS decision making, leading to more efficient and progressive field treatment. No disclosures but certain devices will be discussed including their pros and cons from our experience in multiple trials.

*Instructor: Kathleen E Kramer*

### **EDU-504 Congratulations! You're going to be a Program Director. RUN!!**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: Administrators, Educators*

Congratulations! You're going to be a Program Director. RUN!! is tailored for interested, aspiring or newly selected EMS Education Program Directors. During this hour you will learn about the trials and tribulations of creating a program from scratch with A LOT of lessons learned. When we say "RUN!!", we want you to leave this presentation with the confidence and knowledge on how to hit the ground running to create a successful program with students that serve as mascots for the premier EMS program you deserve.

*Instructor: Brian McIntosh*



### **HEA-607 Saving Our Own: Changing the Culture of Mental Health Awareness in Public Safety**

BLS 15 / ALS 20 / 1.0 CEU

*Target Audience: All*

Suicide is the cause of more first responder deaths today than line of duty deaths. This class will discuss resources that are available, signs of mental health issues and how to help. Ms. Bowman will share her story of mental health, suicide, and the impact it had on her career and life. There will also be a question and answer period at the end of the program.

*Instructor: Wendy L Bowman*

### **MED-809 Liver, Spleen and Kidney: Current Management Guidelines**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience: All*

Solid organ injuries are common in pediatric trauma patients. The newest evidence-based literature supports abbreviated bedrest protocols, and less invasive management (including operative versus nonoperative management, frequency of lab draws, etc.) This lecture will review the

current evidence for management, as well as review most common patient presentation, appropriate workup and intervention.

*Instructor: Laura Boomer*

### **MED-810 Sick of COVID? Let's Talk About Another Epidemic: Obesity.**

BLS 14 / ALS 19 / 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 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*

### **MIHCP-1402 What Are the Alternatives for Low Acuity Children in EMS?**

BLS 15 / ALS 20 / 1.0 CEU

*Target Audience: All*

There has been increased recent attention to innovative models of prehospital care, including Emergency Triage, Treat & Transport (ET3), community paramedicine, telemedicine, and the use of 911-linked nurse triage lines. This session will explore the unique needs of children in these alternative models, including age-specific triage protocols and transport considerations. Participants will review NEMSIS data for pediatric non-transport, and critically appraise recent local pilots of alternative EMS delivery models that have included pediatric patients.

*Instructor: Caleb E Ward*

### **PED-1006 Pediatric Trauma: Evolving Trends in Management**

BLS 13 / ALS 18 / 1.0 CEU

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

This session will focus on the changing landscape in pediatric trauma care both at the pre-hospital and hospital levels. Emphasis will be placed on changing trends in certification, triage, transfer as well as management. Case scenarios of pediatric trauma care will be presented illustrating triage and transfer decisions as well as current trends in pediatric trauma management

*Instructor: Jeffrey H Haynes*

## Wednesday Courses

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

#### **PED-1007 Pediatric Stroke: Kids Can Have Strokes Too**

BLS 12 / ALS 17 / 1.0 CEU

*Target Audience: All*

During this lecture we will discuss the risk factors for childhood stroke, as well as current acute treatments. Strokes in kids are rare, however this does not mean that they do not occur. Strokes in kids are often missed, and the opportunity for acute treatment is missed because of poor awareness of childhood stroke among providers and caregivers. This leads to a lifetime of neurological sequelae. Education about childhood stroke is one of our main ways to decrease the impact of the disease on the patient, family and society.

*Instructor: Ewa M Way*

#### **TRA-1208 Gravity Hurts: A Discussion on High Velocity Injuries in the Outdoor Athlete**

BLS 13 / ALS 18 / 1.0 CEU

*Target Audience: ALS, BLS, RNs*

This is an orthopedics and trauma lecture that will focus on the effects of poor decisions by the common man. Whether the call is for a skier at Wintergreen Resort, a hiker on the Appalachian Trail or a mountain biker along the river in Richmond, injury patterns in these athletes will be displayed in gross anatomy photographs and radiology slides. Treatment techniques both with common EMS splint devices as well as improvised equipment will be discussed as a group. Leave your weak stomachs at the door.

*Instructor: Eric L Bachrach*

#### **TRA-1209 Crunch Time! Assessment and Management of Facial Injuries**

BLS 13 / ALS 18 / 1.0 CEU

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

Facial injuries occur as isolated injuries and as part of multi-system trauma. Facial injuries can range from the benign to life-threatening. Many patients perceive these injuries as minor, however can produce significant disability. In this session, identification and management of common facial injuries and EMS impact on long-term outcome of these injuries is discussed.

*Instructor: Jeff Myers*

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

#### **ARV-205 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 is the last time you were taught or used capnography for evaluating metabolism and perfusion. Do you titrate your interventions using capnography? This hands-on and 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 break the class into two groups and through case-based scenarios get hands-on with medications and their effects on the patient and EtCO<sub>2</sub>.

*Instructor: Christopher M Kroboth*

*Co-Instructor(s): John Winstead III*

**Limited to: 24**

#### **HEA-608 Mindful Decontamination; Daily Stress Management**

BLS 15 / ALS 20 / 2.0 CEU

*Target Audience: ALS, Administrators, All, BLS, Dispatcher, Educators, MD, DO, RNs*  
First responders experience a myriad of stressors overtime and can cause significant emotional and physical challenges. A resistance to wellness is pervasive. Learn how to stay as mentally fit as you are physically fit. Learn the most effective approach to address cumulative stress; the creative art process is a counterbalance to the destruction of the job. Learn how Ashes2A.R.T. provides unconditional peer support in the promotion of self-care and wellness necessary for resiliency.

*Instructor: Craig A Evans*

*Co-Instructor(s): Kathy Sullivan*

**Limited to: 100**

#### **MED-811 OB / GYN review with Case Presentations**

BLS 14 / ALS 19 / 2.0 CEU

*Target Audience: ALS, BLS, RNs*

Selected actual OB/GYN case review presentations for the ALS provider will be presented. 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. This will be an interactive course with plenty of audience participation. Specific topics will cover Pulmonary Embolism, Ectopic Pregnancy, Placenta Previa, Abruptio Placentae, DIC, Concurrent Trauma, Ruptured Uterus and Normal pathophysiology of the pregnant patient.

*Instructor: David John Sanko*

*Prerequisite: BLS level experience and or education.*

#### **MED-812 Deciphering Abdominal Pain**

BLS 14 / ALS 19 / 2.0 CEU

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

Patients complaining of abdominal pain can present the EMS clinician with several challenges. The abdomen can be a "black box" containing a lot of important organs but difficult to differentiate between causes of pain. How can the EMS clinician identify patients who have true abdominal emergencies from those with more benign causes of abdominal pain? In this interactive, case-based approach, we will discuss the many etiologies of abdominal pain, from the benign to the life threatening and learn how to identify the dangerous causes of abdominal pain.

*Instructor: Jeff Myers*

#### **EMPE-906 Communication Skills in EMS**

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

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

Effective communication in EMS is critical to the appropriate, timely and accurate treatment of patients. This class will consist of a 30 minute lecture followed by several hands-on exercises where communication with your team will be vital to successful completion of the exercise. This is a fun, fast-paced class that will highlight the importance of communication and how easy it is to make mistakes when communication is not clear.

*Instructor: Wendy L Bowman*

**Limited to: 24**

#### **PED-1008 Overview of EMS Pediatric Airway Management**

BLS 12 / ALS 16 / 2.0 CEU

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

This combined lecture and practical session will provide participants with a review of how to manage pediatric airway emergencies. Participants will review the unique anatomical and physiological challenges in managing pediatric airways. Participants will critically appraise evidence regarding the frequency of EMS pediatric airway exposure, challenges with skill retention, and the impact of supraglottic airway devices on pediatric practice. Participants will practice managing the following scenarios: - Neonatal respiratory distress - Obstructed tracheostomy tube - Pediatric respiratory failure (including bag-mask ventilation and placement of airway adjuncts and supraglottic airway devices)

*Instructor: Caleb E Ward*



## Wednesday Courses

3:00 PM - 4:00 PM

### EDU-505 EMS Education in the Fire Service Academy Environment

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: Administrators, Educators*  
The "EMS Education in the Fire Service Academy Environment" presentation will provide insight to providing initial and continuing EMS education in the Recruit Fire Academy environment. Topics will include schedule development, incorporation of non-traditional education models for incorporating EMS education in the Fire based educational program, and developing a curriculum focused on the younger generation of learners that are entering the fire service.  
*Instructor: Brian McIntosh*

### MIHCP-1403 Mobile Integrated Healthcare Update

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: ALS, Administrators, BLS, Dispatcher, Educators, MD, DO, RNs*  
Mobile integrated healthcare programs can improve EMS operations and impact the wellness of the communities which we serve. There are many models across the country and several programs have been implemented in the Commonwealth. These programs have linked patients to resources, decreased "frequent flyers," improved satisfaction, and streamlined medical care. Learn about benefits of such programs and barriers to implementation.  
*Instructor: Allen Yee*

### OPE-907 Check Your Attitude at the Door

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: All*

There are calls all of us have gone to where the situation progressed to a point of potential violence or misunderstanding by the patient just from the way you have presented yourself. In this presentation there will be scenarios to discuss how the situation could turn out and some of the best ways to handle those types of situations.

*Instructor: Daniel Frazier*

### PED-1009 Starting With "A" Pediatric Burn Resuscitation

BLS 13 / ALS 18 / 1.0 CEU

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

Caring for a pediatric burn patient can be extremely challenging. Understanding pathophysiology and how the body responds to a burn injury is an important component in providing care to this specific patient population. This lecture will discuss pediatric burn care starting with airway management and include a review of anatomy, pathophysiology,

fluid resuscitation and current treatment guidelines. Case studies will be incorporated into the lecture to reinforce key concepts.

*Instructor: Ann Kuhn*

### PED-1010 Prehospital Care and Transport of the Critically Ill Child

BLS 14 / ALS 19 / 1.0 CEU

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

Critically ill children require careful management in the prehospital phase of care. Knowledge of the differences in pediatric anatomy and physiology is key for all members of the pediatric care team. This lecture will provide guidance in regards to the basics of resuscitation during transport, mode of transport and key considerations for care of the pediatric patient.

*Instructor: Laura Boomer*

### TRA-1211 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 their older counterparts. This discussion highlights these differences and focuses on areas of greatest risk.

*Instructor: Rick Place*

### TRA-1212 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*

**Limited to: 50**

4:30 PM - 5:30 PM

### HEA-609 Fight the Feeling

BLS 15 / ALS 20 / 1.0 CEU

*Target Audience: All*

In today's world there are more and more of our co-workers dying. As EMS providers, some feel the guilt of not recognizing the

signs of those who may take their own life. EMS providers also wonder why they survived. Find out some of the reasons why our profession has had an increase in suicide and recognize some of the signs. Find out why you may have survivor's guilt and learn from someone who has experienced PTSD and the steps he took to get past it.

*Instructor: Daniel Frazier*

### HEA-610 The Good, The Bad, The Ugly: The State of EMS Provider Mental Health in Virginia

BLS 15 / ALS 20 / 1.0 CEU

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

This job is difficult and stressful. Unfortunately, that burden has created a world where more firefighters, EMTs and law enforcement officers have died at their own hand than they have in the line of duty. This course will provide an overview of what the Virginia Office of EMS has done to combat the issues surrounding provider mental health. The course will discuss the results of Virginia's first comprehensive EMS provider mental health survey, the mental health resources available to providers and agencies, and current legislation surrounding provider mental health.

*Instructor: Vincent P Valeriano*

**Limited to: 30**

### PED-1011 Where's The Trauma When There's No Obvious Trauma? Pediatric Trauma Case Studies

BLS 13 / ALS 18 / 1.0 CEU

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

What do you do when there is trauma, but no obvious indicators of trauma? What do you rule in and what do you rule out? In this lecture, we will discuss several case studies of pediatric trauma patients who presented with no external indicators of trauma. Performing a thorough physical assessment while obtaining a detailed history will help guide the inclusion or exclusion of suspected injury.

*Instructor: Ann Kuhn*

### PED-1012 Update on the Diagnosis and Management of Pediatric Seizures

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience: ALS*

The diagnosis of acute seizure disorders will be reviewed with a focus on febrile seizures and status epilepticus. Initial management and stabilization will be discussed, including recent advances in the literature. Early and effective treatment reduces seizure duration and improves outcomes. Various management options for the termination of prolonged seizure events will also be discussed.

*Instructor: Rick Place*

## Wednesday Courses

4:30 PM - 5:30 PM

### **TRA-1213 Trauma Triad of Death: A Case Study**

BLS 13 / ALS 18 / 1.0 CEU

*Target Audience: All*

The lethal triad of hypothermia, acidosis and coagulopathy attributes to a significant rise in complications and mortality in patients with traumatic injuries. The triad starts with bleeding which providers should quickly recognize and manage appropriately. Dive into a case study that highlights what we do well and what we need to improve on when managing the injured patient.  
*Instructor: Valerie A Quick*

## Thursday Courses

8:00 AM - 5:00 PM

### **ADM-108 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*

8:00 AM - 11:00 AM

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

BLS 15 / ALS CAT 2 / 3.0 CEU

*Target Audience: BLS*

Presented by the faculty at Tidewater Community College, this is the fourth class in the BLS Academy and satisfies 3 hours of the required 5 hours for the 2016 Category 1/NCCER CE requirements.

*Instructor: Jason Ambrose*

8:00 AM - 9:00 AM

### **ARV-206 Riding the Waveform: Capnography Working for YOU!**

BLS 11 / ALS 16 / 1.0 CEU

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

Capnography is the gold standard for confirming and monitoring airway placement; yet provides a wide range of additional clinical information. Application and experience provide

the best resources for learning and understanding clinical situations. This class aims to provide ALS and BLS personnel with key information to get the most out of capnography and integrate it into regular practice. We will discuss case reviews and updated literature, plus waveform reviews explained in a way to make the equipment work for you.  
*Instructor: John M Watkins*

### **CAR-402 Lead aVR. The Forgotten Lead?**

BLS CAT 2 / ALS 17 / 1.0 CEU

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

HOT New Topic! It's been called everything from a junk lead, a lost lead, useless and more. However recent research has taken a closer look at lead aVR and has found some very important information can be gained from it. Come join ECG expert Bob Page as he presents the findings and explains how this lead can help sort through N-STEMI and can be useful in diagnosing VT in and out of the hospital. This is a huge eye opener for anyone that picks up a 12 lead ECG.

*Instructor: Robert E Page*

### **CRI-1107 Hypokawhat? Electrolyte Imbalances for the EMS Provider**

BLS CAT 2 / ALS 19 / 1.0 CEU

*Target Audience: ALS, BLS, Educators*

This class will review many of the common electrolyte disturbances including the physiology, assessment, and management of conditions such as hypokalemia, hyperkalemia, hyponatremia, and more! We will also discuss how such imbalances can lead to lethal cardiac arrhythmias! The students will learn how the suspicion of electrolyte imbalances can lead to better patient care in the emergency department!

*Instructor: Kevin T Holloway*

### **EDU-506 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*

### **LMGT-703 It's all about Relationships**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: All*

The Emergency Medical Services business is all about establishing, building and maintaining relationships.

Those relationships are at the core of our success or failure. Relationships in both the private and public sector are centered around relationship building. This class will discuss key leadership lessons that focus on one's ability to build and maintain relationships with co-workers, peers and stakeholders. Those who are best at building relationships are also the best at influencing others.  
*Instructor: Justin B Adams*

### **LMGT-704 Jett's Triad - Three Traits for Personal and Professional Success**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: All*

Beck's and Cushing's Triads give us clues to treat our patients to a successful outcome. So why not have a Triad to instill in our members and leadership to do the same thing? Come join the conversation and learn how these three simple traits can help improve you and your organization's success.

*Instructor: Christopher H Jett*

### **MED-813 Every Patient is Different: Autism Spectrum Disorder and Intellectual Developmental Disability Awareness Education for First Responders**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience: All*

What happens if you encounter a patient that cannot communicate their complaint to first responders? Patients with Autism Spectrum Disorder (ASD) and Intellectual Developmental Disabilities (IDD) are very susceptible to being unable to recognize and understand social cues and behaviors, or effectively communicate when dealing with first responders in an emergency situation. This course aims at educating first responders to better recognize the signs and symptoms of ASD and IDD, and understand how these issues can affect patient interactions and treatment decisions.

*Instructor: Tyler S Dean*

### **MED-814 "Checkout" Baggage Line? Suicide Bags.**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience: All*

The method of suicide using "checkout bags" is not new, however it is growing in popularity as is chemical suicides. The background and beginnings will be discussed as well as what has been seen recently. The lethal chemical mixtures and agents used are harmful and present significant problems for those who do not understand the signs. This discussion will focus on scene education and agents used, with some treatment considerations.

*Instructor: Travis L Karicofe*



## Thursday Courses

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

#### **PED-1013 Little Tikes with Twisted Pipes: How Standard EMS Management Can Kill Congenital Heart Kids**

BLS 12 / ALS 17 / 1.0 CEU

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

A quick assessment of your pediatric patient reveals a healed surgical scar across their chest. What needs to change in your resuscitation approach? Everything. Congenital heart defects effect close to 40,000 children annually in the United States. Do you have any in your response area? The presentation will explore the amazing anatomical and physiological changes that can be present with congenital abnormalities and how EMS needs to change their approach when providing resuscitation and care to these patients.

*Instructor: Brad T Garmon*

#### **PED-1014 Pediatric Mental Health Pharmacology**

BLS 15 / ALS 20 / 1.0 CEU

*Target Audience: ALS, BLS, RNs*

Pediatric mental health is a growing concern. The treatment of these disorders has seen a rapid growth in pharmacological interventions. During this course we will explore the current trends, with specific implications for EMS providers, including behaviors and interventions. The toxicology of common drugs will also be addressed with key signs, symptoms and interventions. In addition, detailed pharmacodynamics and pharmacokinetics of central nervous system drugs will be presented, and we will expand on basic peripheral nervous system pharmacology typically encountered by the EMS ALS provider.

*Instructor: W Lawrence Daniels*

#### **TRA-1214 Geriatric Trauma**

BLS 13 / ALS 18 / 1.0 CEU

*Target Audience: ALS, BLS, RNs*

With the Baby-Boomers, single largest population group of people, getting older and beginning to retire, this topic becomes more timely and applicable. Participants will be taken through the normal physiologic changes that occur with the aging process and then relate that to how it affects the traumatically injured victim. Participants will be given the information to help determine the underlying sequence of whether or not it was a medical patient first and then a trauma patient or vice versa.

*Instructor: David John Sanko*

*Prerequisite: BLS level education or experience.*

#### **TRA-1215 H-Bombs of Head Trauma**

BLS 13 / ALS 18 / 1.0 CEU

*Target Audience: All*

Traumatic brain injury (TBI) causes significant death and permanent disability each year. Half of those with a TBI will die within 2 hours of their injury. Damage continues to evolve in the following hours and days from initial injury. EMS can dramatically impact the H-Bombs of head trauma by avoiding and addressing hypoxia, hyperventilation and hypotension in patients with severe traumatic brain injuries.

*Instructor: Valerie A Quick*

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



#### **ADM-109 2021 Virginia Rural Health Plan**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: All*

The Virginia State Office of Rural Health has historically addressed the need to prioritize access to rural healthcare. It has evolved to assist in addressing the underlying social factors contributing to the vitality and economic richness of healthy rural communities. The topics highlighted in the 2021 Virginia Rural Health Plan are based on a series of community conversations and site visits. The community conversations were held in rural communities throughout the Commonwealth with the purpose of having the community voice advise the scope of the plan.

*Instructor: Heather K Anderson*

#### **ARV-207 Make it or Break it Airway Decision Making**

BLS 11 / ALS 16 / 1.0 CEU

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

Airway management relies on blending critical decision making skills with clinical expertise. The individual provider, either ALS or BLS, is the most important factor in successful airway management. It requires a focused philosophy of training coupled with commitment to performance. This course evaluates how we make airway choices and provides insight into how to approach the difficult airway decision. Case studies in complex airway management in the EMS environment illustrate the challenges faced by responders.

*Instructor: John Michael Watkins*

#### **CAR-403 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*

#### **CRI-1108 Paging ECMO Stat! A Mobile ECMO Unit in the ED**

BLS CAT 2 / ALS 17 / 1.0 CEU

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

Bringing extracorporeal membrane oxygenation (ECMO) to a hospital is resource-consuming and controversial with limited evidence-based positive neurological outcomes for patients. Most hospitals perform the actual procedure in the catheterization lab. However, studies show improved patient outcomes when ECMO is initiated as soon as possible from the moment the patient heart arrests. A Level 1 trauma center started the first emergency department mobile ECMO program in the state. This presentation will review the physiological benefits of ECMO, clinical indications and outcomes, and how to operationalize ECMO in the ED setting.

*Instructor: Carrie Manke*

#### **EDU-507 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*

## Thursday Courses

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



#### **HEA-611 Unavoidable Stress: The Unrecognized Epidemic**

BLS 15 / ALS 20 / 1.0 CEU

*Target Audience: All*

Stress is a recognized part of many jobs, particularly in public safety and the military. It is also one of the least discussed aspect by emergency responders. Length of service, ego and fear are common reasons personnel in these professions avoid discussing the crippling stress they feel. However, with more emergency personnel committing suicide at 10 times the national average, emergency services and the U.S. military are starting to pay closer attention to the debilitating effects of stress, particularly in the aftermath of a critical incident.

*Instructor: Arthur J Heightman*



#### **LMGT-705 National Center for Missing & Exploited Children Disaster Preparedness & Response**

BLS 15 / ALS 20 / 1.0 CEU

*Target Audience: All*

This presentation will discuss the resources of the National Center for Missing & Exploited Children within the context of disasters. The presenter will discuss NCMC's partnerships with the Federal Emergency Management Agency as well as other non-profits that support people before, during and after disasters. In addition, there will be a discussion of NCMC's preparedness resources for families and states.

*Instructor: Joy E Paluska*

#### **MED-815 EMS Implications of Body Piercing**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience: ALS, BLS, RNs*

With more and more of our patient population having more than a single body piercing it can significantly impact upon our current medical treatment protocols. We will discuss the medical implications of the various forms of body piercing. The student will compare and contrast various types of body piercing jewelry and then hypothesize potential difficulties with jewelry removal. Several removal techniques will be discussed for when a removal becomes necessary. This presentation will be in graphic detail and is not for the squeamish, overly sensitive or the faint of heart.

*Instructor: David J Sanko*

*Prerequisite: BLS level certification and/or experience.*

#### **MED-816 Tricky in Tickery - Tick Borne Illnesses**

BLS 14 / ALS 19 / 1.0 CEU

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

Discussion will ensue about tick species and specific illnesses related to ticks and tick bites. There are many misunderstandings and myths about ticks and tick bite illnesses that will be discussed. Some tick borne illnesses are man-made and accidentally escaped into nature. Patient management and treatment considerations will also be discussed; participants will leave the program itching!

*Instructor: Travis L Karicofe*

#### **MED-817 Sickle Cell 2.0**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience: ALS, BLS, RNs*

There is increasing evidence regarding Sickle Cell Disease and the 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 pathophysiology of Sickle Cell Disease, discuss the evidence-based approach and best practice. You will also receive access to a training scenario and grading rubric you can take back to your crew for practice.

*Instructor: Ryan F Kirk*



#### **LOPE-908 Suspicious Activity Reporting - Does it Really Matter?**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: All*

Most people have heard the phrase "See Something, Say Something" for reporting suspicious activity, but does reporting really matter. Based upon nationally recognized standards and best practices, this course defines suspicious activity related to terrorist events, provides an overview of the terrorist attack cycle, and demonstrates how reporting suspicious activity can disrupt this cycle. Course provides information on establishing an effective suspicious activity reporting program for your agency or jurisdiction.

*Instructor: Samuel W Burnette*

#### **PED-1015 The BRUE and YOU: Managing Children with Brief Resolved Unexplained Events**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience: ALS, BLS, Educators, MD, DO*  
BRUE is the new ALTE (In 2016). The definition for these unexplained events changed a few years ago, but what has that done for the outcomes in children and their caregivers who experience these events? Have you ever thought all

children should go to the hospital because they scare me? Or maybe this is just first time parent syndrome? All providers can learn about what studies and practice guidelines have been established to assess, treat, and stratify risks related to these scary events and how they affect outcomes.

*Instructor: Brad T Garmon*

#### **PED-1016 Behavioral Emergencies in Children**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience: ALS, BLS, RNs*

Children can present with outrageous behaviors including temper tantrums, property destruction, aggression towards others, and flight. Parents and teachers are frequently unable to control children in these situations and may call for EMS assistance. These children may have diagnoses of autism, Asperger's, oppositional defiant disorder, conduct disorder, intermittent explosive disorder and bipolar disorder. The EMS response may differ slightly based upon these diagnoses. This program will discuss these diagnoses and appropriate interventions to help deescalate the situation and prepare the child for safe transport to an appropriate facility.

*Instructor: W Lawrence Daniels*

#### **TRA-1216 Protect our Kids! SCA in the Young**

BLS 13 / ALS 18 / 1.0 CEU

*Target Audience: All*

Sudden Cardiac Arrest (SCA) is the #1 killer of our teen athletes and the #2 killer of people in the first 40 years of life. This talk is based on the cold reality of SCA as we hear every day, it seems, about a kid collapsing on the basketball court, or football field or other venue. Learn about a six-point plan to action that will provide screening looks for parents and health care providers to identify at risk students. If you want to protect your kids, come hear this session!

*Instructor: Robert E Page*

## 10:00 AM - 12:00 PM

#### **ADM-119 ESO Reporting - Answering Your Questions**

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

*Target Audience: All*

Come join the staff from ESO as they share the latest and greatest information on the reporting system. Bring your questions, we will provide the answers!

*Instructor: Bryan Hodges*

## Thursday Courses

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

#### **ARV-208 Clearing the Air: Capnography in Cardiac Arrest**

BLS 11 / ALS 16 / 1.0 CEU

*Target Audience: All*

Capnography is mentioned in patient care protocols, standardized course algorithms, and policy and procedure manuals nationwide. USE WAVEFORM Capnography to confirm tube placement; Use capnography for determining the adequacy of CPR or Use capnography as a determining factor of ROSC. But very few if any actually describe how that is done. Without explanation or an understanding of it, many are left to figure it out themselves or rely on blogs and here say. Join Bob as he breaks it all down on how to actually use capnography in cardiac arrest.

*Instructor: Robert E Page*

#### **CRI-1109 RSI, the Difficult Airway, and Avoiding the Clean Kill!**

BLS CAT 2 / ALS 16 / 1.0 CEU

*Target Audience: ALS, RNs*

We will take a look at our algorithm for rapid sequence intubation, our pearls and pitfalls, approaching the difficult airway, and of course managing and understanding the patient's physiology once they are tubed (I promise the physiology will be painless). As it turns out, putting the tube in the hole is the easy part!

*Instructor: Mike Green*

#### **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 30 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-612 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 non-Fire/EMS related issues or

worse, 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-706 "You have a right...several actually" - The Virginia Firefighter and EMT Bill of Rights**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

This session will cover the Virginia Firefighter and EMT Bill of Rights, also known as the Firefighters and EMT's Procedural Guarantee Law and how it applies within the workplace. Participants will learn how this law applies to fire and rescue personnel and how to apply the procedural guarantees to workplace situations.

*Instructor: Justin W Witt*

#### **LMGT-707 Courageous Coaches: Creating a Winning Team**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: All*

Leaders must develop awareness and leadership skills which promote employee satisfaction and retention. Successful transformational leaders learn how to recruit (hire) and coach staff as unique members of their team. This session is for the leader who wants to become a courageous coach. Participants will learn about characteristics and competencies leaders need to develop in order to create a winning team--on the field and in the workplace.

*Instructor: Beth L Torres*

#### **MED-818 Beyond SPICES and Beers: Geriatrics in the Field**

BLS 14 / ALS 19 / 1.0 CEU

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

Healthcare is flooding with older adults as the population in the United States continues to age. Older adults are not only complex with multiple comorbidities, but often do not present with typical symptoms. This presentation will explore atypical presentations of geriatric patients, review common geriatric syndromes, and enhance your knowledge on emergency management of this unique population.

*Instructor: Carrie Manke*

#### **OPE-909 Child Sex Trafficking**

BLS 15 / ALS 20 / 1.0 CEU

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

In 2020, the National Center for Missing and Exploited Children (NCMEC) responded to more than 17,000 reports regarding possible child sex trafficking. Of the nearly 26,500 cases of children

who had run away and were reported to NCMEC in 2020, 1 in 6 were likely victims of child sex trafficking. This course, presented by NCMEC, will provide an overview of child sex trafficking, highlight risk factors and indicators associated with victims, as well as detail how to report possible instances of trafficking and what resources NCMEC can provide.

*Instructor: Meagan Clark*

#### **OPE-910 Stay Out of the Tunnel**

BLS 14 / ALS 19 / 1.0 CEU

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

Imagine you walk into a room and see your patient bleeding but at this time you don't know why. We have all done this and not seen that the patient may not be breathing. We as providers need to be alert to not only all of the patient's symptoms but also to our surroundings. This will cover some suggestions on not having tunnel vision, not only with your patient, but also to what is around you.

*Instructor: Daniel Frazier*

#### **OPE-911 Golden Care: Understanding Critical Components in the Care of Geriatric Patients**

BLS 15 / ALS 20 / 1.0 CEU

*Target Audience: All*

Golden Care is a comprehensive look at the aging population EMS providers can expect to see in increasing numbers over the next decade. This lecture covers the problems EMS personnel encountered in assessing and treating geriatric patients and helpful assessment and treatment tips providers can use when encountering this unique patient population. . The elderly cope with stress, trauma and illness in ways that are distinctly different from children and adults under 65. You will leave with information that will help you assess and treat this high-priority patient population.

*Instructor: Arthur J Heightman*

#### **PED-1017 Beyond the Tide Pod**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience: ALS, BLS*

You've probably heard about the Tide Pod Challenge and butt chugging but what else are adolescents upping the ante with these days? Why the heck are they even eating Tide Pods to begin with? What injury patterns can you expect from the Shiggy Challenge? Topics covered will include current emerging adolescent emergencies and theory around the attention economy.

*Instructor: Kathleen O'Connor*



## Thursday Courses

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

#### **PED-1018 Blue Baby Basics: An Introduction to Congenital Heart Defects**

BLS 11 / ALS 16 / 1.0 CEU

*Target Audience: All*

This presentation offers an introduction to congenital heart defects for any BLS or ALS provider. We will cover normal fetal circulation, cyanotic and acyanotic defects, and the anatomy and physiology of ASD, VSD, PFO, PDA, Tetralogy of Fallot, Truncus Arteriosus, D-Type Transposition, Tricuspid Atresia, TAPVR, and Hypoplastic Left Heart. We will discuss care of these patients after they have been sent home post-repair, and offer clinical pearls for treatment.

*Instructor: Becky Anderson*

#### **TRA-1217 Ring My Bell! Concussion Pathophysiology and Care**

BLS 13 / ALS 18 / 1.0 CEU

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

Patients who have sustained a concussion are commonly encountered by EMS, both in organized sporting activities and during unorganized activities. The long-term effects of concussions are only recently coming to light in many contact sports. Concussion severity can range from mild to severe. In this session, participants will review the pathophysiology, treatment, and return to play recommendations for patients who have sustained a concussion.

*Instructor: Jeff Myers*

#### **TRA-1218 Shock Care 2021; A New Look at an Old Foe**

BLS 13 / ALS 18 / 1.0 CEU

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

Are tourniquets in or out? Elevate the legs or no? Fluids wide open or KVO. We will answer all of these and more during a one hour review of shock to include various shock types and the management theories of the day! We also discuss the role of body temperature maintenance for the patient in shock.

*Instructor: Kevin T Holloway*

### 1:30 PM - 5:30 PM

#### **HOPE-912 Traffic Struck By's A Panel Discussion**

BLS 15 / ALS 20 / 4.0 CEU

*Target Audience: All*

This panel will look at the epidemic of Highway Incidents that resulted in a First Responder being struck. They will address it from the effort to educate the First Responder Community and where

we stand now. The effects on those who were struck and injured as well as a family 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: Robert Bemis, Melanie Clark, James Garcia*

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

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

BLS 14 / ALS CAT 2 / 2.0 CEU

*Target Audience: BLS*

Presented by the faculty at Tidewater Community College, this is the fifth class in the BLS Academy and satisfies 2 hours of the required 6 hours for the 2016 Category 1/NCCER CE requirements.

*Instructor: Jason Ambrose*

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

#### **ARV-209 RSI for the EMT**

BLS 11 / ALS 16 / 1.0 CEU

*Target Audience: ALS, BLS, Educators*

This class will review the basics of rapid sequence induction (RSI) specifically for BLS Providers. We will cover the concepts of why patients need advanced airway management and then discuss the medications involved and the BLS providers' role in assisting with an RSI procedure. We will also review common video systems used in RSI procedures.

*Instructor: Kevin T Holloway*

#### **CAR-404 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' Pre-hospital Stroke Alert Policy as an example.

*Instructor: Ankur S Fadia*

#### **CAR-405 Rapid Fire EKGs - It's Not Sinus Tach!**

BLS CAT 2 / ALS 17 / 1.0 CEU

*Target Audience: ALS, Educators, RNs*

A rapid look at a lot of interesting EKGs. Hint, none of them are normal sinus rhythm. We will take a look at some of the trickier EKGs we have been compiling over the years, where we went wrong, avoiding the common pit falls, and using

a standardized approach for getting through the difficult ones. It's all audience participation on this one. Come lift your EKG game up.

*Instructor: Mike Green*

#### **CRI-1111 Don't Give Up on Me Yet -- Chronic Kidney Disease & Cardiovascular Events: What to Do, When and Why**

BLS CAT 2 / ALS 19 / 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*

#### **LMGT-708 National Center for Missing & Exploited Children Disaster Preparedness & Response**

BLS 15 / ALS 20 / 1.0 CEU

*Target Audience: All*

This presentation will discuss the resources of the National Center for Missing & Exploited Children within the context of disasters. The presenter will discuss NCMEC's partnerships with the Federal Emergency Management Agency as well as other non-profits that support people before, during and after disasters. In addition, there will be a discussion of NCMEC's preparedness resources for families and states.

*Instructor: Joy E Paluska*

#### **MED-819 Annual Infection Control/ OSHA Update**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience: ALS, Administrators, BLS, Educators, RNs*

This course will review updated disease and regulatory information regarding OSHA compliance and infection control practices, including what is new since last year and what may be required in the near future. We will discuss the CDC post exposure guidelines and what diseases pose a risk in the state of Virginia. Attendance at this session will meet your annual training requirement.

*Instructor: Katherine H West*

## Thursday Courses

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

#### **MED-820 Name that Disease!**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience: ALS, BLS*

Are you ready to name that disease? Come on down and try your hand at this challenging game show - how many signs or symptoms do you need to form the correct differential diagnosis? Can you be the first to name that disease? Styled after Name that Tune, this session will challenge your knowledge of medical emergencies in an engaging interactive format.

*Instructor: Kathleen O'Connor*

#### **OPE-913 Don't Just Do Something - STAND THERE!**

BLS 15 / ALS 20 / 1.0 CEU

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

In an emergency, we often need to act fast. However, sometimes the pressure to do something quickly means that we miss important clues and make decisions that aren't in the best interest of our patients or ourselves. Our inevitable fight or flight response to high-stress situations can help us respond, but it needs to be controlled. We will explore strategies that you can use to control those physiologic responses, think clearly when you need it most, and calm the chaos in critical situations.

*Instructor: Gary A Heigel*

#### **OPE-914 Virginia's Custody Orders - ECO's, TDO's, and Medical Custody Orders**

BLS 15 / ALS 20 / 1.0 CEU

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

Virginia has several methods to legally get a patient the help they need when they may not realize they need it. However it is often a mystery as to how they work and how to obtain them especially in times of real crisis. This program will lift the veil on the myths surrounding these orders, what has to be present to obtain them, what happens once they've been ordered and will examine situations where they are useful and issues EMS providers may face when using them.

*Instructor: Justin W Witt*

#### **PED-1019 Injury Patterns Say Child Abuse - Or Does It?**

BLS 15 / ALS 20 / 1.0 CEU

*Target Audience: ALS, BLS, RNs*

Recognizing patterns of child abuse through physical assessment and history taking can be challenging. How do you determine if an injury or bruise is suspicious for child abuse? In this course, we will review various medical conditions and cultural practices that can mimic injuries indicating non-accidental trauma

in the pediatric population. Case studies will be presented to further illustrate and educate on the importance of remaining nonjudgmental when caring for pediatric patients who present with injuries suspicious for abuse.

*Instructor: Shanon Mack*

#### **PED-1020 Caring for Kids: Anatomic & 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 is to give an overview of considerations for caring for kids in the field and emergency department.

*Instructor: James Burhop*

#### **TRA-1219 Chest Trauma: Hearts, Lungs and the Things They Hate**

BLS 13 / ALS 18 / 1.0 CEU

*Target Audience: ALS, BLS, RNs*

Air goes in and out and blood goes around and around and when they can't things can go south in a hurry. When your patient can't breathe and perfusion is inadequate, being able to recognize the signs and symptoms of severe chest trauma may be the key to a trauma victim's survival. We will discuss, treatment options and how to perform lifesaving interventions from simple to complex to add to your toolbox.

*Instructor: Ellis S Bingley*

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

#### **ADM-110 Mass Casualty Incident Management Instructor Trainer**

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

*Target Audience: All*

This instructor trainer program provides an overview of course materials, instructor guide, practical requirements, and course documentation process for the Virginia Office of EMS Division of Emergency Operations Mass Casualty Incident Management courses. Students who successfully complete this program and otherwise meet the requirements to be an instructor for the Division of Emergency Operations will be able to deliver the mass casualty incident management programs.

*Instructor: Samuel W Burnette*

*Prerequisite: EMT or higher (other public safety or medical disciplines considered on case by case basis by OEMS); current instructor certification i.e. VDFP, VAVRS, OEMS, ARC, AHA; successful completion of MCIM I and II 2018 edition; and approval from your*

*operational medical director. Students will be provided an application at conclusion of the course for them to return to OEMS with the required documentation and signatures.*

#### **ADM-120 Image Trend Reporting - Answering Your Questions**

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

*Target Audience: All*

Come join the staff from ImageTrend as they share the latest and greatest information on the reporting system. Bring your questions, we will provide the answers!

*Instructor: Bryan Hodges*

#### **ARV-210 Be a V-EMT!**

BLS 11 / ALS 16 / 2.0 CEU

*Target Audience: All*

Are you a V-EMT (ventilator EMT)? The brain carefully adjusts ventilations to meet the needs of the body. But what happens when the brain can no longer control ventilations or quits all together? The session takes a look at how we breathe, focusing on tips and procedures for the BLS provider to adequately ventilate a patient and assure tube placement is monitored along with ventilations. We are told to ventilate at a rate that is arbitrary, and a chest rise and fall that is unreliable. Is there a better way?

*Instructor: Robert E Page*

#### **CAR-406 Acute Coronary Syndromes with Heart Dissection**

BLS 12 / ALS 17 / 2.0 CEU

*Target Audience: All*

Chest pain accounts for 6 million annual ER visits in the US. It is important for emergency providers to differentiate life-threatening from 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*

#### **EDU-509 The Value of Rubrics**

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

*Target Audience: All, Educators*

Looking for a way to standardize training? Want to evaluate objectively for quality improvement? Whether it is crew specific or system wide, rubrics can help with training and quality improvement. This class will share how to create rubrics. You will use a rubric to evaluate a call and see how it can help with quality improvement. Those that attend will be provided several validated rubrics to implement in their programs. We will explain how to do an inter-rater reliability test on a rubric.

*Instructor: Ryan F Kirk*



## Thursday Courses

3:00 PM - 5:00 PM



### **HEA-613 Alternative PT Methods: The Benefits of Incorporating Yoga Into Your Program**

BLS 15 / ALS 20 / 2.0 CEU

*Target Audience: All*

With overall health and wellness becoming an increasingly popular topic in recent times, departments are looking for new and different ways to support their members in this mission for physical and mental health. This lecture and practical session will introduce you to the benefits of yoga and how to incorporate it into YOUR fire and rescue community. The second half of this presentation will be hands on meditation and yoga, for all ages and skill levels.

*Instructor: Sarah Griffin*

### **TRA-1220 From Victim to Survivor to Nurse: One Woman's Journey**

BLS 13 / ALS 18 / 2.0 CEU

*Target Audience: All*

Trauma is in the face of Emergency Departments around the world on a daily basis. EMS and nurses often have the first interaction with sexual assault victims. An understanding of the physiologic impact of trauma, cultural competency, and emotional intelligence are key components of trauma-informed care. This presentation will dive into a personal account of sexual assault trauma, examples of the impact of trauma on an individual, and provide the learner with concepts and tactics to create a culture of trauma-informed care.

*Instructor: Carrie Manke*

3:00 PM - 4:00 PM

### **CRI-1112 Livin' in a Pressor Paradise**

BLS CAT 2 / ALS 17 / 1.0 CEU

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

You are caring for a patient who is hypotensive, febrile, altered and is showing signs of decompensated heart failure. Your partner states, "I think we need to start a pressor." But which one!? And why?? This presentation will delve into the pharmacology of multiple vasopressors and their clinical indications based on their pharmacological profile. This will be a quick, informative review on some of the most complex medications we can administer to patients and hopefully assist providers in selecting the proper medication(s) for patients they treat.

*Instructor: Molly E Karabinus*

*Prerequisite: A solid critical care (paramedic or RN) background, as this will be a review of multiple clinical concepts reviewed in CC-P, FPC, CCRN & CFRN.*

### **EDU-510 Plays Well with Others: Student Integration in EMS Simulation**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: Educators*

How do you ensure that your EMS training will effectively impact your students? Just as medicine is evolving towards an increased focus on evidence-based practice, education needs to do the same. We know that deliberate practice, contextual learning, feedback, and debriefing all contribute greatly to learning and retention. In this session, we will explore ways you can target each of these educational strategies within the context of EMS simulations. Your students can develop, implement, participate, and evaluate scenarios and in the process learn and reinforce key concepts at each stage.

*Instructor: Gary A Heigel*



### **OPE-915 "The %\$&! Has Hit the Fan...Now What Do We Do?" Disasters, 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-916 When Your Patient Dies: Death in EMS**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience: ALS, BLS*

EMS providers are often the first people to tell a family their loved one has died. Families remember the images from those days for the rest of their lives. As a provider, there are simple but powerful changes you can make that will make the experience less traumatic for everyone involved. We will discuss how to talk to the family and prepare the body for the family to see it. We will also learn ways to help the medical examiner through documentation and body preparation.

*Instructor: Becky Anderson*

**Limited to: 60**

### **OPE-917 Who is flying this thing??**

#### **Instituting Incapacitated Pilot**

#### **Procedure; Crawl, Walk, Run**

BLS 15 / ALS 20 / 1.0 CEU

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

This presentation will address how we assembled a workgroup to identify the key stakeholders that needed to be involved and hurdles that we have encountered thus far in developing this program. We used a "Crawl, Walk, Run"; approach to address the topic within both Carilion Clinic Life-Guard and Med Trans. The ultimate goal of this project being the safe recovery and landing of the crew and aircraft in the event the pilot can no longer do so.

*Instructor: Ellis S Bingley*

### **PED-1021 A Trip to the Pharm:**

#### **Pediatric Toxicology from Lemon Drops to Crystal Methamphetamines**

BLS 14 / ALS 19 / 1.0 CEU

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

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 prehospital approach to toxicology, and stabilization for transport, poison control center resources, and ultimate emergency department and intensive care management.

*Instructor: James Burhop*

### **PED-1045 Special Care for Special Kids**

BLS 15 / ALS 20 / 1.0 CEU

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

Nurses and EMS providers often come into contact with children with physical and developmental issues. This lecture will discuss some of the more common concerns, including genetic syndromes and autism, and also those children who require technological support, including tracheostomy, home ventilator and gastrostomy tubes. Included will be some tips for managing these patients and some hands-on with the different ventilators and equipment used in their care and will assist the provider to transport safely to the hospital or emergency setting.

*Instructor: Lori S Stump*

## Thursday Courses

3:00 PM - 4:00 PM

### **TRA-1221 Chest Trauma: The Silent Killer**

BLS 13 / ALS 18 / 1.0 CEU

*Target Audience: All*

This session will dive into the unseen depths of the patient's chest. JEMS Editor-in-Chief, A.J. Heightman, will exhibit the effects of trauma on the thoracic region and present assessment tips to help EMS providers recognize and treat these life-threatening injuries.

*Instructor: Arthur J Heightman*

### **TRA-1222 Stayin' Alive Meets Another One Bites the Dust, Reprise: 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*

4:00 PM - 5:30 PM

### **BLS-306 BLS Academy - Trauma**

BLS 13 / ALS CAT 2 / Other (specify) CEU

*Target Audience: BLS*

Presented by the faculty at Tidewater Community College, this is the sixth class in the BLS Academy and satisfies the 1.5 hours required for the 2016 Category 1/ NCCR CE requirements.

*Instructor: Jason Ambrose*

4:30 PM - 5:30 PM

### **ADM-111 Emergency Medical Dispatch (EMD): The Standard of Care**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: Administrators, Dispatcher*  
Emergency Medical Dispatch (EMD) makes a difference in patient survival every day in the Commonwealth. This class will discuss critical issues such as navigating EMD protocols, liability and stress. It will also benchmark with other states, highlight grant opportunities, and cover the Virginia OEMS Accreditation Program.

*Instructor: Rich Troshak*

### **CRI-1113 Cardiogenic Shock and Patient Selection for Impella Support**

BLS CAT 2 / ALS 17 / 1.0 CEU

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

Dive into cardiogenic shock and identify patients that would benefit from Impella support. Develop a basic understanding of Impella technology and how it benefits the patient. Abiomed representative will be onsite to provide samples of the catheter utilized for Impella support and to discuss the functionality of the device. Discussion to include a brief introduction of cardiogenic shock protocols that have been implemented to improve patient outcomes.

*Instructor: Christie S Harrell*

*Co-Instructor(s): India Richardson*



### **LMGT-709 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 been successful in protecting their brand. 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-821 What's new with Tuberculosis - The Disease and Testing**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience: All*

The CDC modified the testing requirement for EMS in December of 2005. However, only a few departments changed their testing procedures. In May of 2019 the CDC made further changes in TB testing. Many have missed this important information - this session will bring you up to date!

*Instructor: Katherine H West*

### **OPE-918 Where Can Your EMS Career Take You?**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: All*

One of the books authored by Dr. Seuss is, "Oh The Places You'll Go!" Join the panel discussion with EMS providers who have used their experiences in EMS as a jumping-off point for interesting and varied career choices. Panelists will discuss the paths their careers have taken, give advice for success and for navigating into other fields and answer questions about training, education and the job experience. You'll hear from providers who became physicians, Emergency Managers, Public Health Preparedness workers, entrepreneurs, journalists and more.

*Instructor: Tim Perkins*

### **PED-1046 Pediatric Sepsis & MIS-C**

BLS 14 / ALS 19 / 1.0 CEU

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

Sepsis is common in children and adults and can lead to death and disability. How does sepsis and the treatment of sepsis differ in infants and children? This program will provide information on the statistics and demographics of pediatric sepsis, common causes of sepsis in infants and children, how sepsis differs in children, assessment findings and treatment of children and then present information on a relatively new diagnosis of MIS-C, which has been found to be related to COVID-19 infection or exposure in children.

*Instructor: Lori S Stump*

### **TRA-1223 Dislocated Care: Managing Complex and Angulated Knee Injuries**

BLS 13 / ALS 18 / 1.0 CEU

*Target Audience: All*

A dislocated knee presents unique challenges to EMS personnel because of the position in which they are found, and the difficulty immobilizing them and preventing further pain and injury to the patient. The fact is that many crews are ALS smart but BLS splinting deficient. EMS personnel must respect the seriousness of knee dislocations and the need to securely immobilize them. Splints for dislocated knees are easy to apply, but often neglected because crews are either intimidated by the grotesque appearance or unfamiliar with ways to securely immobilize them.

*Instructor: Arthur J Heightman*

## Friday Courses

8:00 AM - 5:00 PM

### **MED-852 Certified First Responder -- Dementia Trained ADDC Seminar**

BLS 14 / ALS 19 / 8.0 CEU

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

A specialized Alzheimer's Disease and Dementia Care (ADDC) curriculum that is geared specifically for First Responders, Law Enforcement and Fire Fighters. This follows the upcoming trend of states wanting our EMS to be trained to appropriately interact with the aging and dementia population. Some topics include: Introduction to Dementia, Communication, Repetitive Behaviors, Paranoia, Hallucinations, Wandering, Aggressive Behaviors, Intimacy, Driving, Staff and Family Support, Recognizing Abuse and Neglect in the Home and Diversity and Cultural competence. This program is endorsed by TJA Non-Violent

## Friday Courses

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

Self Protection Training & Certification and Project Lifesaver.

*Instructor: Virginia Simmons*

*Prerequisite: To see if you qualify for CFR-DT, please visit: [www.NCCDP.org](http://www.NCCDP.org).*

**Limited to: 25**



#### **TRA-1238 Advanced Moulage Techniques: Making Seasoned Providers Cringe!**

BLS 13 / ALS 18 / 8.0 CEU

*Target Audience: All*

Students will learn how to produce realistic effects that closely mimic real life injuries and medical emergencies so as to prepare providers for their encounters and minimize shock factors, maximize efficiency, and boost adult education by connecting head, hands and eye components. Application techniques will be discussed and critiqued, as well as tips and tricks for stability and longevity of moulage. We will also review costs and sustainability of moulage and cost saving measures.

**Course Fee: \$50.00**

*Instructor: Holly A Sturdevant*

**Limited to: 24**

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

#### **OPE-933 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*

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



#### **ARV-223 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 left ventricular assist devices and 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*

**Limited to: 50**

#### **CAR-407 Multi-Lead Medics Enhanced 12 Lead ECG Interpretation Course**

BLS CAT 2 / ALS 17 / 4.0 CEU

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

The enhanced course is designed to show acute care providers how to get extra information from a 12 or 15 lead ECG allowing greater insight into the pathophysiology behind the patient with cardiac or other problems. The course is designed for those who have already taken the Multi-Lead Medics Course with a strong working knowledge and high level of comfort with the basic concepts taught in the course. Participants should also be experienced in caring for cardiac patients in an emergency or critical care environment.

*Instructor: Robert E Page*

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

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

BLS 12 / ALS CAT 2 / 3.0 CEU

*Target Audience: BLS*

Presented by the faculty at Tidewater Community College, this is the second class in the BLS Academy and satisfies 3 hours of the required 6 hours for the 2016 Category 1/NCCER CE requirements.

*Instructor: Jason Ambrose*

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

#### **ADM-112 Emergency Medical Dispatch (EMD) for the OMD**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: MD, DO*

OMD's play an essential role in the oversight of Emergency Medical Dispatch (EMD) protocols. This class will explore various EMD protocols in use in Virginia, EMD trends, quality assurance, and the evolution of computerized EMD. This class will also provide information on the role in grant applications and the Virginia OEMS Accreditation Program.

*Instructor: Rich Troshak*

#### **CAR-408 Cocaine & Stimulant Induced Stroke and Ischemia**

BLS 12 / ALS 17 / 1.0 CEU

*Target Audience: All*

Cocaine and stimulant induced strokes

present challenges in management. Strokes amongst this social group are more popular than thought and pose great risk to first time users. Emphasis will be given to the management of patients who have cocaine toxicity. Cutting edge stroke treatment technology, clinical approach and EMS aspect will be discussed. Case studies will be reviewed as examples of the clinical significance of the presence of cocaine.

*Instructor: Travis L Karicofe*

#### **CRI-1114 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*

#### **MED-823 Autism 101 for the EMS Provider**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience: All*

Patients on the autism spectrum present unique challenges to EMS providers. After this class, you will have a better understanding of how to communicate with and assess patients on the autism spectrum. We will review the latest evidence based approaches to assessing and treating patients on the autism spectrum, as well as discuss other comorbidities.

*Instructor: Marshall Wharam*

#### **MED-824 Uncommon Causes of Sepsis: Looking Beyond Pneumonia and UTI**

BLS 14 / ALS 19 / 1.0 CEU

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

Recognizing sepsis is crucial. We frequently respond to calls for cases of sepsis due to pneumonia, UTI and skin infections. But what about the less common triggers for sepsis? Are you recognizing them when they are in front of you? In this session, in a case series format, we will look at three uncommon infectious sources (Ascending Cholangitis, Lemierre's Disease and Infective endocarditis) that lead to cases of septic shock in otherwise healthy patients.

*Instructor: Stephanie K Louka*



## Friday Courses

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

#### **OPE-919 My Patient is a Crime Scene: Evidence Preservation 101**

BLS 13 / ALS 18 / 1.0 CEU

*Target Audience: ALS, BLS*

This presentation will explore different crime scenes and explain the process for preserving evidence. Using real crime scene photographs, we will discuss procedures for health care providers to follow the rules of evidence. We will review case law and privacy laws that protect health care providers when working with evidence and in crime scenes.

*Instructor: Leonard J Mascaro*

#### **OPE-920 So You Want to Be a Flight Paramedic?**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: ALS, BLS, RNs*

Do you have an interest in flight medicine? Is being a Flight Paramedic or Nurse your dream job? If so, this class is for you! We will cover the best practices for educational, professional and personal development to prepare you to be a top candidate for hire by a flight program. This class will also include a review of some of the general job requirements and expectations of the flight crew.

*Instructor: Scott W Davis*

#### **OPE-921 Checklists Will Save Your \$%\*. You Need Checklists, and It's Not Because You're Incompetent**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

EMS operates in a fast-paced, high-risk environment where critical decisions must be made rapidly. Our traditional training and QI processes have emphasized memorization and rapid recall, and reliance on "cheat sheets" has been seen as a weakness. Neuroscience has taught us many things about how humans process information and specifically how we fail to do so effectively under stress. This interactive presentation will review reasons critical errors occur, and identify how checklists can improve decision-making and task completion. Participants will leave with specific tools that will improve EMS patient care.

*Instructor: Gary A Heigel*

#### **PED-1022 Pediatric Case Studies - What's Wrong With This Little Kid?**

BLS 14 / ALS 19 / 1.0 CEU

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

Using the rapid cardiopulmonary assessment approach, we will systematically evaluate and discuss several pediatric case studies. Join us for an interactive session using the ABC

or CAB hands-on assessment approach to determine whether the main reason for the child's presentation is from respiratory, shock and cardiac etiology. Attending the pediatric assessment lecture by the same presenter would be helpful, not mandatory.

*Instructor: Dusty Lynn*

#### **PED-1023 Pediatric TBI/Concussion for the Pre-Hospital provider**

BLS 13 / ALS 18 / 1.0 CEU

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

Wondering what the most up to date information is on the Pediatric concussion/TBI world is? Want to know what the signs and symptoms can be pre-hospital for the pediatric population? Here is the class that will tell you what you need to know about the subject that you did not learn in EMT or Paramedic class. Along with the ever evolving studies that are being done on this topic.

*Instructor: Leddyanne Dell*

#### **TRA-1224 Well Grounded: Lightning and Electrical Injuries**

BLS 13 / ALS 18 / 1.0 CEU

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

From household current to direct lightning strikes, from basic physics to advanced medical care, we will cover a range of topics from first response to hospital discharge. See who is at the highest risk for electrocution and how some walk away from seemingly lethal circumstances. This presentation will be an interactive discussion of the different types of electrical currents and related injuries.

*Instructor: Jeffrey D Ferguson*

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

#### **CAR-409 Management of Cardiac Arrest 2020**

BLS 12 / ALS 17 / 2.0 CEU

*Target Audience: All*

We will discuss the various interventions in the cardiac arrest patient. We will start with a review of pre-arrival care (medical care provided by lay providers before EMS arrival). We will then discuss BLS-level care, including chest compressions and defibrillation via the AED. Next, we will review ALS interventions, including parenteral medications and airway management. Lastly, once resuscitation, we will consider pos-resuscitation care.

*Instructor: William Brady*

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

#### **ADM-113 Durable Do Not Resuscitate (DDNR) Regulatory Update 2020**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

Are you up to date with Virginia 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 pre-hospital patient in Virginia that has a DNR. 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-212 When Your Trusted Tools Fail You**

BLS 11 / ALS 16 / 1.0 CEU

*Target Audience: ALS, BLS, RNs*

As tools and technology increase in EMS, it becomes more important to understand the pitfalls and limitations of each device we use in our daily operations. Can you name three situations where a pulse ox will give you a false normal reading? How about when not to trust your end tidal CO2 reading? We'll discuss the tools we use every day to diagnose and treat our patients, and limitations of each.

*Instructor: Stephanie K Louka*

#### **ARV-213 RSI: Do You Take the Airway or Not?**

BLS CAT 2 / ALS 16 / 1.0 CEU

*Target Audience: ALS, BLS, Educators*

Do you remember learning about Rapid Sequence Intubation (RSI) in Paramedic class and then not really going over it again until it appeared in your protocols or never again? This class is going to go over several different methods of RSI, as we know there are several ways to accomplish the same task. We will present cases on whether you should take the persons airway or maintain the persons airway, without looking at all our tools we are provided to assess the patient.

*Instructor: Leddyanne Dell*

#### **CRI-1115 Tickle me...ECMO?**

BLS CAT 2 / ALS 17 / 1.0 CEU

*Target Audience: All*

ECMO, or extracorporeal membrane oxygenation, has been an emerging technology in the ICU world for the last 10-20 years, and is now being seen in the emergency department and even in the field for EMS patients!

## Friday Courses

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

But what is ECMO? What patients could benefit from it and should be placed on this invasive technology? We will explore the basics of this mechanical circulatory support device and what its emergence could mean for the patients we serve in EMS.

*Instructor: Molly E Karabinus*

#### **HEA-614 Break it to me Gently**

BLS 15 / ALS 20 / 1.0 CEU

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

This presentation will focus on dealing with the needs of family and friends in crisis situations, including resuscitation scenarios and death in the field. Should family be invited to observe resuscitations? Are there strategies in interacting with families that might help them deal with loss and grief? How can our interaction with families and others help us deal with our feelings of loss as providers?

*Instructor: George Lindbeck*

#### **MED-825 BLS Matters: Making the Most of the First 10 Minutes**

BLS 14 / ALS CAT 2 / 1.0 CEU

*Target Audience: BLS, Educators*

This dynamic and interactive session is a BLS-focused discussion about the goals of the first 10 minutes of any EMS call. Providers will learn how to use the W.I.N. (What's Important Now) acronym to sort through information and prioritize effectively. Tips and tricks will be shared to improve outcomes and perform a successful ALS handoff.

*Instructor: Gary A Heigel*

#### **MED-826 Behavioral Health Care Services in the Prehospital Environment**

BLS 15 / ALS 20 / 1.0 CEU

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

Behavioral health care remains a challenge for EMS systems. Approximately 18% of the US adult population experiences mental, behavioral or emotional disorders in any given year. Emergency care for behavioral health problems represents one out of every eight ED visits. Despite these visits considered potentially avoidable if managed appropriately, patients with behavioral health complaints are twice as likely to be hospitalized compared with patients without behavioral health complaints. Understanding the patterns and characteristics of behavioral health 911 calls is essential to improving prehospital care for this patient population.

*Instructor: Luis M Pinet Peralta*

**Limited to: 50**

#### **MIHCP-1404 Saving the Super-utilizers: EMS Response in Special Populations (CP/MIH)**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

What do you do with citizens who call 911 5, 10, 50, 200 times a year? What do you do with someone who calls for the same complaint, sometimes multiple times a day, day after day? What if they have a mobility, long-term care, mental health, or substance abuse concerns that might be better served outside of the emergency department? This presentation will explore these questions and summarize the efforts of the Fairfax County Fire and Rescue Co-Responder program.

*Instructor: Adam J Willemssen*

*Co-Instructor(s): Shane Brillhart, Laura Maddock*

#### **PED-1024 Pediatric EKG - Essentials for the Field**

BLS CAT 2 / ALS 17 / 1.0 CEU

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

This lecture will aim to review the unique features of a normal Pediatric EKG as well as the optimal placement of EKG leads in children. In addition, it will review the EKG findings of common disease patterns in children including pericarditis, myocarditis, Wolff-Parkinson-White syndrome, SVT, and long QT with the hopes of improving learners comfort with reading of Pediatric EKG.

*Instructor: Erin Dunbar*

#### **TRA-1225 What a Blast! Physics and Physiology of Blast Injuries**

BLS 13 / ALS 18 / 1.0 CEU

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

Blast injuries represent unique physics and result in unique injury mechanisms and patterns. We will dissect some well-known bombings to demonstrate the different types of blast injuries, injury patterns and their survivability, and how to care for them. Lecture content will include considerations of the continuity of EMS management from scene safety to mode of transport.

*Instructor: Jeffrey D Ferguson*

#### **TRA-1226 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*

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

#### **ADM-121 Image Trend Reporting - Answering Your Questions**

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

*Target Audience: All*

Come join the staff from ImageTrend as they share the latest and greatest information on the reporting system. Bring your questions, we will provide the answers!

*Instructor: Bryan Hodges*

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

#### **ADM-114 EMS Regulation & Compliance Round Table Discussion Group for Providers and Agency Administration**

BLS CAT 2 / ALS CAT 2 / 1.0 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 & Compliance for assistance and guidance. Compliance case reviews (non-identifying) will be utilized for illustration.

*Instructor: Ronald D Passmore*

#### **ARV-214 RSI in HD - Airway Video Review**

BLS CAT 2 / ALS 16 / 1.0 CEU

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

Endotracheal intubation is the mainstay of definitive airway management, both in the hospital and in the field. Nevertheless, rapid sequence induction and intubation are high risk, low frequency procedures. This interactive discussion will center on a review of real videos, recorded from the business end of a video-laryngoscope in the field, demonstrating common pearls and pitfalls of prehospital intubation.

*Instructor: Amir K Louka*



## Friday Courses

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

#### **CAR-410 LVAD 101 for EMS**

BLS 12 / ALS 17 / 1.0 CEU

*Target Audience: All*

"What is that awful alarm?? And why is it coming from my patient!?" This presentation will prepare the EMS provider of ANY level to feel comfortable to quickly and thoroughly assess patients with Left Ventricular Assist Devices (LVADs) in the field, including troubleshooting common alarms and problems these patients may encounter with their device.

*Instructor: Molly E Karabinus*

#### **MED-827 Ouch! My back! - When Back Pain is a True Emergency**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience: All*

Everyone has back pain at some point. When does back pain truly warrant a 911 call? We'll start with a review of central nervous system anatomy and delve into the pathology, presentation, and field treatment of the most serious offenders. The focus will be mainly on non-traumatic causes (tumors, infections, and spine degeneration). We'll then discuss how to recognize them and management both pre- and in-hospital.

*Instructor: Alden H Newcomb*

#### **MED-828 Managing the Agitated Patient**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience: ALS, BLS, RNs*

Pre-hospital 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*

#### **MED-829 Nitrous Oxide as an Opioid Alternative in the Prehospital World**

BLS 14 / ALS 19 / 1.0 CEU

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

A discussion of the use of nitrous oxide for prehospital acute pain tempted as a reasonable attending's to narcotics in an opioid epidemic. The use of nitrous oxide allows for rapid, safe, and effective pain relief without the use of narcotics. Robust data supports its safety profile. It's time to talk about it and apply the knowledge to the prehospital world.

Plans for implementation with City of Portsmouth Department of Fire, Rescue and Emergency Services are in process.

*Instructor: Komal Dhir*

*Prerequisite: EMS providers at the A-EMT and EMT-P levels of certification have the administration of inhaled nitrous oxide for acute pain relief within their scope of practice as defined by both the Virginia Office of EMS and the NHTSA national scope of practice documents.*

#### **MIHCP-1405 Predictors of 911 Calls and Transports in Mobile Integrated Health (MIH)**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

Unnecessary emergency medical care contributes to ER overcrowding, delayed services and lower quality of care. New EMS models of care have shown promise in improving access to health services for patients who do not need urgent care, including Mobile Integrated Healthcare (MIH) programs. One such program is in Prince George County (PG), Maryland. The study goals of this study were to describe the factors associated with 911 utilization and their effects on total 911 calls and transports in MIH program.

*Instructor: Luis M Pinet Peralta*

*Prerequisite: Patient care experience in prehospital environment and preferably in multidisciplinary settings or teams. Interest/Understanding of social determinants of health and their impact on health outcomes.*

**Limited to: 50**

#### **OPE-922 Sharp Force Injury Identification**

BLS 13 / ALS 18 / 1.0 CEU

*Target Audience: All*

Join Sandra Williams, Medicolegal Death Investigator, Office of the Chief Medical Examiner, as she provides information on various sharp force injuries in comparison to blunt force trauma and how to tell the difference in the setting of a death investigation. There will be time allotted for questions and answers at the end of the presentation.

*Instructor: Sandra Williams*

#### **OPE-923 Can I Get a Witness? Respecting Religious Wishes**

BLS 15 / ALS 20 / 1.0 CEU

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

EMS providers encounter patients with a myriad of religious beliefs. While many patients' religious views do not intersect with their medical choices, Jehovah's Witnesses, Christian Scientists, and other religions have specific beliefs related to emergency medical care. This class will discuss how to respectfully treat

these patients, including overviewing theological backgrounds for their viewpoints, how to be a patient advocate, and some novel treatment options that may be available. This class will be conducted in a respectful manner, without prejudice, so feel free to bring your questions!

*Instructor: Lucian A Mirra*

#### **PED-1025 Sick or Not So Sick- Recognition of Acute Distress Patterns in Children**

BLS 14 / ALS 19 / 1.0 CEU

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

Sick kids make for scary patients. Most providers are uncomfortable treating children because they lack experience and have difficulty discerning vitals to determine if the child is actually sick. The goal of this class is for students to gain a strong foothold in the assessments of pediatrics by learning to RAPIDLY recognize common illness and injury PATTERNS in children. Providers will see their confidence increase through the framing of acute moments with basic life interventions, an understanding of pediatric anatomy and lots of pictures and video.

*Instructor: Benjamin T Martin*

**Limited to: 40**

#### **TRA-1227 Burn Resuscitation-Fluid Resuscitation Beyond Parkland**

BLS 13 / ALS 18 / 1.0 CEU

*Target Audience: ALS*

Over recent years, burn resuscitation has changed fairly dramatically. It is no longer fluid, fluid, 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-1228 Man Versus Machine**

BLS 13 / ALS 18 / 1.0 CEU

*Target Audience: ALS, BLS, RNs*

Management of patients entrapped in machines, equipment, and other unique locations not found in textbooks will be discussed along with the challenges, because the extrication process can be lengthy and technical. "Chemical extrication" will also be introduced and the process of needing to move a damaged body part from an object. Also discussed is management of children who get into "predicaments" as simple as a toilet or seat belt latch plates.

*Instructor: Travis L Karicofe*

## Friday Courses

### 1:30 PM - 5:30 PM

#### **ARV-224 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 left ventricular assist devices and 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*

**Limited to: 50**

#### **LMGT-710 Intoxicated Leadership: Thinking Strategically vs Reacting Emotionally**

BLS CAT 2 / ALS CAT 2 / 4.0 CEU

*Target Audience: All*

Using real-world examples and videos, students learn the why and how of becoming a leader who can navigate even the most difficult of assignments. By focusing on improving certainty, autonomy, and relatedness, leaders learn how to have effective conversations to address the personal and professional problems they encounter. Emotional intelligence provides an understanding of how harnessing emotions leads to a strong, more effective command and control, both on the emergency scene and at the station. Be prepared to laugh in this class while we promote leadership competency, not its celebrity.

*Instructor: Benjamin T Martin*

**Limited to: 50**

#### **PED-1026 Handtevy**

BLS 12 / ALS 17 / 4.0 CEU

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

Dr. Antevy will discuss step by step, the pediatric cardiac arrest and how EMS can manage these calls. The session will cover all aspects of pediatric cardiac arrest, from pathophysiology to scene management and patient care activities.

*Instructor: Peter Antevy*

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

#### **BLS-308 BLS Academy - Cardiovascular, Part 2**

BLS 12 / ALS CAT 2 / 3.0 CEU

*Target Audience: BLS*

Presented by the faculty at Tidewater Community College, this is the eighth class in the BLS Academy and satisfies 3 hours of the required 6 hours for the 2016 Category 1/NCCR CE requirements.

*Instructor: Jason Ambrose*

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

#### **ADM-115 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*

#### **ARV-215 Inhalation Injury and Burn Airway Management**

BLS 11 / ALS 16 / 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 interfacility transport. The lecture will cover each injury type and associated care. Review of burn airway intubation video will be included in case study format.

*Instructor: Christopher Stevenson*

#### **ARV-216 PEEP, FiO2, Rate, and Ratio: Applying Basic Concepts of Mechanical Ventilation to Prehospital Airway Management without a Vent**

BLS 11 / ALS 16 / 1.0 CEU

*Target Audience: ALS, BLS, RNs*

Effective ventilation of the patient is not limited to those agencies carrying transport ventilators. Whether mask ventilated, intubated, or spontaneously breathing, the basic concepts of mechanical ventilation are still necessary to achieve effective oxygenation and ventilation. This course will provide users with a basic understanding of how manipulations to

bag-valve ventilation techniques, titrations of settings on disposable CPAP/NPPV units, and assessment utilizing SPO2 and ETCO2 can improve patient outcomes. This course is intended for anyone who squeezes a BVM! Marshmallow Peeps will not be provided...

*Instructor: John M Winstead*

#### **CAR-411 What You Don't Know, Might Hurt Them!**

BLS 12 / ALS 17 / 1.0 CEU

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

12-leads have been in place for a while and STEMI Programs are rolling out across the nation, but did we leaving something out? Protocol guidelines outline standard treatment plans for all patients with ACS. But is it right and safe for ALL cardiac patients? Studies show that 50-54% of patients with an acute MI will NOT have ST segment elevation anywhere on the 12 lead. Evidence points to significant and even life saving information that can be gathered by acquiring additional leads. Discover what you didn't know, you didn't know!

*Instructor: Robert E Page*

#### **CRI-1116 A-Z: Essential Lab Values for EMS Providers**

BLS CAT 2 / ALS 19 / 1.0 CEU

*Target Audience: ALS, BLS*

Na, K, Cl, Cr, BUN, Lactate, Hgb, WBC, Hct 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*

#### **LMGT-711 Understanding Why We React the Way We Do: Harnessing Emotional Intelligence for Leadership Success**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: Administrators*

Emotional intelligence, that is, the ability to understand and manage not only your own emotions, but also the emotions of those around you, is integral to individual and professional success. Psychologists hypothesize that to achieve success, intelligence quotient (IQ) accounts for 10 percent; the rest is emotional intelligence. Every day, EMS leaders are confronted by situations where an understanding of the emotion behind the scenes can spell the difference between success and failure. This presentation will offer practical advice using real-world scenarios to develop your emotional intelligence.

*Instructor: Raphael M. Barishansky*

## Friday Courses

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

#### **MED-830 Demystifying Sepsis**

BLS 14 / ALS 19 / 1.0 , Other (specify) CEU

*Target Audience: ALS, BLS, RNs*

Explore a helpful overview of Sepsis during this interactive discussion. Further understand the basics of what happens in a septic patient, as we examine how to better identify and manage these patients. During this class, we will discuss the pathophysiology of sepsis, the multiple assessment tools that can increase the ability to recognize sepsis as well as examine ways to treat these patients in the prehospital setting.

*Instructor: Rebecca C Knerr*

#### **OPE-924 Bringing Hospitals into the Whole of Community Disaster Response**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

Receiving hospitals play an integral role into the successful mitigation and response to high threat events; yet, hospitals are often overlooked from an integrated whole of community response. Without successful integration of hospitals into your disaster chain of survival, from the perspectives of the hospital looking outward and from public safety on the outside looking in, successful system response to high threat disasters will break down. This course will discuss common myths in disaster response and propose a new model of public safety and hospital integration during disaster response.

*Instructor: E. Reed Smith*

#### **OPE-925 Refusal or No Patient?**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: All*

We will explore the legalities and the trials and tribulations of the Refusal, versus the "No Patient"... Being the Patient Advocate and the Agency Advocate is so important. We will also discuss the liability and responsibility of both! We will discuss the "The Right Thing to do" and look at some real-life situations in the EMS day to day operations.

*Instructor: Vernon M Frayser*

#### **PED-1027 There's No Place Like Home: The One Pill That Can Kill A Pediatric Patient and Other Household Dangers**

BLS 14 / ALS 19 / 1.0 CEU

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

This session will review, in the context of the Pediatric patient, the single pills and swallows that can kill. The goal of this session is to review how these substances affect children and treatment strategies/

antidotes associated with various ingestions. We will also discuss safety planning at home to help children avoid these dangerous exposures.

*Instructor: Erin Dunbar*

#### **TRA-1229 Extremes in Trauma: Geriatric and Pediatrics**

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*

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

#### **ADM-116 Preparing of a Virginia OEMS Agency Inspection**

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

*Target Audience: Administrators*

The first part of the course we will guide you through the functionality of the OEMS Agency Portal. We will review how to make updates, manage agency personnel, manage agency vehicles and upload required documents. The second part will be a round table discussion of how to prepare for an agency inspections. We will answer any questions you may have pertaining to the inspection process. This class is being presented by the Virginia OEMS Division of Regulation and Compliance.

*Instructor: Paul Fleenor*

#### **ADM-117 "HYB" Saving our Own" Highway Situational Awareness for EMS**

BLS 15 / ALS 20 / 2.0 CEU

*Target Audience: All*

We will discuss in depth the never ending danger of responding to, operating at and clearing from EMS calls in the roadway, highway and interstate. We will discuss past cases where EMS, Fire and Law Enforcement have been injured and killed just doing our jobs. We will look at new innovations in Highway Traffic Management and what the individual can do to not be a victim. We will discuss the processes involved with the understanding that Situational Awareness has to be increased to be able to return home.

*Instructor: Vernon M Frayser*

#### **ADM-122 ESO Reporting - Answering Your Questions**

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

*Target Audience: All*

Come join the staff from ESO as they share the latest and greatest information on the reporting system. Bring your questions, we will provide the answers!

*Instructor: Bryan Hodges*

#### **ARV-217 Be a V-EMT!**

BLS 11 / ALS 16 / 2.0 CEU

*Target Audience: All*

Are you a V-EMT (ventilator EMT)? The brain carefully adjusts ventilations to meets the needs of the body. But what happens when the brain can no longer control ventilations or quits all together? The session takes a look at how we breathe, focusing on tips and procedures for the BLS provider to adequately ventilate a patient and assure tube placement is monitored along with ventilations. We are told to ventilate at a rate that is arbitrary, and a chest rise and fall that is unreliable. Is there a better way?

*Instructor: Robert E Page*

#### **CAR-412 Demystifying Blocks and Basic 12-leads for the New ALS Provider**

BLS CAT 2 / ALS 17 / 2.0 CEU

*Target Audience: ALS, BLS, Educators*

Are you the new ALS provider that is trying to figure out the difference between 1st degree block and complete heart block, and why does it even matter? What treatment would we do for these patients? What about those Second degree blocks -- Wenckebach Phenomenon and second degree type 2, really? What about those 12-leads? Inferior vs anterior? Should we give Nitro or withhold nitro? If these questions are still going through your head as a new ALS provider then this class is for you.

*Instructor: Leddyanne Dell*

**Limited to: 25**



## Friday Courses

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

#### **CAR-413 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*

#### **LMGT-712 "We Know We Need Members, but Where do We Start? And Then What?!" Recruitment & Retention Planning**

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

*Target Audience: ALS, Administrators, BLS, Educators, Youth*

Establishing and maintaining an effective recruitment campaign is essential for any agency, but equally important is 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 welcome 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*

#### **TRA-1230 Salt Water is for cooking pasta! The New Theory of Damage Control Resuscitation for Traumatic Injury**

BLS 13 / ALS 18 / 2.0, Other (specify) 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 benefit.

*Instructor: E. Reed Smith*

### 3:00 PM - 4:00 PM

#### **ARV-218 This Little Clot of Mine**

BLS 11 / ALS 16 / 1.0 CEU

*Target Audience: ALS, BLS*

Your patient is complaining of being SOB with chest pain. They are anxious with an irregular pulse and hypotension. Have you considered pulmonary embolism as a differential diagnosis? Every year nearly 100,000 people die from a PE with death often being the first symptom. Join us for this interactive case-based presentation where we discuss the signs, symptoms, management, and risk factors of the patient suspected of having that little clot.

*Instructor: Kyle D Bates*

#### **CAR-414 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*

#### **LMGT-713 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*

#### **MED-832 Too High, Too Low, Just Right! Emergent Blood Pressure Control**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience: ALS, RNs*

This presentation will look at the indications for and the medications used for the emergent control of hypotension and hypertension. How do we control

blood pressure in emergent conditions frequently encountered in critical care transports, including hypertensive emergencies, aortic emergencies, intracranial hemorrhage, acute stroke, and sepsis. What is the right blood pressure for a particular patient in a particular situation? What is the role of "push pressors" in emergency prehospital and inter-facility care?

*Instructor: George Lindbeck*

#### **MED-833 Critical Toxicological Pre-Hospital 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 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 pre-hospital management errors in overdose case care will be highlighted. Electrocardiographic changes of poisoning will be reviewed and appropriate management highlighted.

*Instructor: Christopher P Holstege*

#### **MIHCP-1406 Mobile Integrated Healthcare-Community Paramedicine Roundtable**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

Mobile Integrated Healthcare-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-1231 Everything Less Lethal**

BLS 13 / ALS 18 / 1.0 CEU

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

Everything you ever wanted to know about less lethal weapons will be discussed, including tasers, tear gas, riot Control and more. You will be introduced to all modern weaponry, learn provider safety strategies, and recognize injury patterns. Once recognized, this talk will describe prehospital management and treatment of these injuries. (And maybe a video of Dr. Ekey getting tased!)

*Instructor: Brian D Ekey*



## Friday Courses

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

#### **ADM-118 EMS Recruitment and Retention Solutions Roundtable**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: All*

Join an interactive discussion with EMS/Fire personnel from throughout the state on common personnel retention problems and discussion of innovative solutions. EMS Agencies from diverse regions of Virginia will share retention issues, brainstorm ideas to address those issues, and leave with solutions from this collaborative discussion. Bring agency retention problems and leave with retention solutions.

*Instructor: Tim Perkins*

#### **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*

#### **CRI-1117 Whole Blood Transfusion**

BLS CAT 2 / ALS 19 / 1.0 CEU

*Target Audience: ALS, BLS, 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 implementation of blood product transfusion to prehospital protocols. The literature on the topic is reviewed and ample time for questions and answers is provided.

*Instructor: Asher Brand*

#### **PED-1028 Pediatric Respiratory Emergencies**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience: ALS, BLS, RNs*

Recognition and pre-hospital management of pediatric respiratory emergencies. Emphasis will be on acutely presenting conditions in otherwise healthy children. Topics to include: upper respiratory infection, lower respiratory

infection, asthma exacerbation, croup, choking, foreign body aspiration, thermal and chemical inhalation injury, spontaneous and traumatic pneumothorax, and anaphylaxis.

Assessment and intervention plans will cover age-specific anatomic concerns.

*Instructor: Ronald W. Williams*

#### **PED-1029 One Pill Can Kill - Pediatric Toxicology**

BLS 14 / ALS 19 / 1.0 CEU

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

An old adage says, "the dose makes the poison." This is true for none more than the smallest among us. In this course we will discuss a variety of prescribed and over the counter medications commonly found in households which, while therapeutic for most, can prove fatal to children. Some of these effects are delayed, and this knowledge could be critical on your next call from a worried parent.

*Instructor: Amir K Louka*

#### **TRA-1232 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 having them abstain from sports activities until injuries are resolved.

*Instructor: Kyle D Bates*

#### **TRA-1233 Case Examples in Chemical Terrorism & Lessons Learned**

BLS 13 / ALS 18 / 1.0 CEU

*Target Audience: All*

There are a numerous chemical agents that can be utilized by terrorists. It is important for first responders to know how to identify patients who might have been exposed to such agents and recognize the potential risks both when first arriving to the scene and transporting patients exposed. This lecture is case-based, highlighting past events worldwide and the variety of patients that may be encountered following a terrorist chemical attack. Potential complications will be discussed. Review of appropriate treatments will be noted, specifically emphasizing various options in pre-hospital pharmacotherapy.

*Instructor: Christopher P Holstege*

## Saturday Courses

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

#### **EDU-511 It's All In A Game 2020: Tactile Learning For All**

BLS CAT 2 / ALS CAT 2 / 4.0 CEU

*Target Audience: Administrators, Educators*  
What motivates you to teach, learn and work? Not the money we make. More likely the answer is, the good we can do when things go right and are fun. If we can keep the classroom moving and fun; the students will learn while enjoying the topics we have to present. Implementing and building educational games is an art form that Capt. Kirk and Margaret have taken to another level. Join Capt. Kirk and Margaret for a fun and innovative class that will take your classes to the next level.

*Instructor: Kirk E Mittelman*

*Co-Instructor(s): Margaret A Mittelman*

#### **OPE-926 Integrating Heavy Wreckers into Rescue Incidents**

BLS CAT 2 / ALS CAT 2 / 4.0 CEU

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

NFPA 1670-2017 requires that fire departments should provide training on the use of 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 interfacing with the heavy wrecker operator.

*Instructor: John E. Burruss*

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

#### **ARV-220 RSI Physiology**

BLS 11 / ALS 16 / 1.0 CEU

*Target Audience: ALS, Educators, MD, DO, RNs*  
Rapid Sequence Intubation is increasingly available across Virginia. Most education is focused on RSI Drugs and the mechanics of tracheal intubation. This lecture looks beyond those issues to the effect that RSI has on the traumatized or critically ill, in particular the hemodynamic effects of positive pressure ventilation and oxygen carrying capacity will be reviewed in detail. Our Air-Medical Service instituted a treatment bundle to prevent hypoxia and hypotension; the results of these efforts will be reviewed. There will be plenty of time for discussion and questions.

*Instructor: Asher Brand*

## Saturday Courses

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

#### **CAR-415 Pulmonary Arterial Hypertension: EMS Basics**

BLS 12 / ALS 17 / 1.0 CEU

*Target Audience:* ALS, BLS

Session covers present PAH pathophysiology, with goals to understand basic disease process. Understand the difference between left heart failure and isolated right heart failure. Introduce PAH therapy options, including oral/inhaled and subq/IV advanced therapies. Review medications used for continuous infusions. Recommendations regarding prehospital care in emergencies and transport. Understand importance regarding recommendations in care of acute right heart failure. Learn basics about delivery devices of prostacyclin therapy that may be encountered during transport. Be aware of local PAH specialty center and the role of experienced providers in this special population.

*Instructor:* Vanessa L Knowles

#### **CRI-1119 ABG's and 1,2,3's**

BLS CAT 2 / ALS 16 / 1.0 CEU

*Target Audience:* ALS, BLS, Educators

Called out to the nursing home for abnormal lab values... yes again!! This program is an overview on interpretation and understanding of some basic lab values with an emphasis on how to treat these patients based on the numbers! Participants will test their knowledge and review some challenging case studies.

*Instructor:* Ashley S Brown



#### **HEA-615 But This Is the Way We've Always Done It! Rethinking Health & Safety in EMS**

BLS 15 / ALS 20 / 1.0 CEU

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

The health and wellness of its providers are essential to the effective operations of an EMS agency. It's imperative that EMS organizations and their leaders place an emphasis on enhancing the health and wellness of their prehospital providers. By adopting wellness programs, placing emphasis on proper eating and fitness habits and investing in emerging patient movement devices, EMS agencies can be positioned to recruit and retain qualified EMS professionals who remain healthy and injury-free. This class will provide an interactive discussion to help avoid risk management mishaps.

*Instructor:* Leron T Lewis



#### **LMGT-714 Busting the Biggest EMS Legal Myths: Five Things Every EMS Professional Must Know**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

The EMS profession is chock full of myths. This session from one of the nation's top EMS lawyers will set the record straight on five common EMS myths. What does a signature on a PCR really mean? Are all crew members legally agreeing to everything stated on the trip report? Are we automatically liable for any inconsistencies in our documentation? Do EMS providers practice "under the license" of their medical director? This session will bring clarity to these and other pressing issues that every EMS professional should know.

*Instructor:* Doug Wolfberg

#### **MED-834 Geriatric Prehospital Care: Special Considerations for the Aging Adult Over Age 75**

BLS 15 / ALS 20 / 1.0 CEU

*Target Audience:* ALS, BLS, Educators

This presentation will discuss the common physiologic changes that occur with aging focusing on those over age 75. Common medications seen in this age group and their effects on assessment and vital signs will be reviewed. Differences with physical findings that occur in this age group for common illnesses or injuries as well as best practices for treatments by prehospital care providers.

*Instructor:* Briana Tully

**Limited to: 100**



#### **MED-835 EMS Simulation Escape Room**

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 the successful escape from the room. Can you solve the mystery?

*Instructor:* Robert E Page

**Limited to: 10**

#### **PED-1030 Seize the Day, Li'l One: Recognizing and Managing Pediatric Seizure**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience:* All

Turn to the person next to you and ask them,

"A kid who has a fever is seizing. Is it a fever with a seizure or a seizure with a fever?" As they walk away shaking their head, ponder that question. Too many times, we write off a kid having a seizure, who also has a fever, as febrile in nature. But we must understand that seizures are a sign and not a disease. We will explore pediatric seizures and their etiologies, classifications, presentations and management plans.

*Instructor:* Kyle D Bates

#### **PED-1031 Team Adam Resources**

BLS 15 / ALS 20 / 1.0 CEU

*Target Audience:* All

The National Center for Missing & Exploited Children deploys Team Adam Consultants into the field to assist law enforcement and families during critical missing child episodes and deploys consultants into the field to assist FEMA to assist in the reunification of children separated by disaster. Team Adam provides resources to law enforcement regarding long-term missing children cases, assists with obtaining biometrics and provides a host of other resources. Consultants also assist medical facilities with prevention of infant abductions and provide training for medical staff on how to prevent infant abductions.

*Instructor:* Richard J Leonard

#### **TRA-1234 An Overview of ATLS for Pre-Hospital Providers**

BLS CAT 2 / ALS 18 / 1.0 CEU

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

Caring for a trauma patient can be stressful...and then you arrive at the Level 1 trauma center and everyone is waiting for you to share what you know about your patient. Did you ever wonder if you were providing the best information to help your patient? Did you ever wonder what happens in the trauma bay after you leave? I aim to provide a brief understanding of what Advanced Traumatic Life Support (ATLS) is and how you can help our trauma team do our job more effectively.

*Instructor:* Patrick McLaughlin

**Limited to: 40**

## 9:30 AM - 10:30 AM

#### **CAR-416 Vascular Emergencies**

BLS 12 / ALS 17 / 1.0 CEU

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

Let's discuss the other half of cardiovascular medicine. Prompt identification and treatment of these often-missed conditions in the field can truly save life and limb. Pharmacologic and resuscitative management of acute ischemia, pulmonary embolism, bleeding

## Saturday Courses

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

dialysis access, and more will be covered. Field, ED, and inter-facility providers will become confident in handling these challenging cases.

*Instructor: Daniel H Newton*

#### **CAR-417 Too Fast, Too Furious**

BLS 12 / ALS 17 / 1.0 CEU

*Target Audience: ALS, Educators, RNs*

Pre-hospital providers are frequently confronted with rapid heart rates. Some reflect an underlying condition that needs to be addressed, some represent a primary problem that needs specific therapy. How can we recognize arrhythmias that are a primary problem and require specific treatment and what tools, both medications and electrical, do we have to manage those situations?

*Instructor: George Lindbeck*

#### **CRI-1118 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 influences cellular action potentials and outwardly reflect specific signs and symptoms in their patients.

*Instructor: Bob Matoba*

#### **EDU-512 Managing 50 Hostages - Lessons Learned at UCLA**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: Educators*

UCLA Paramedic Education Program manages 3 full-time paramedic programs with 50 students each every year. Lessons learned around managing career firefighters, private students, large skill groups, and morale of voluntold students will be shared. We will share how we are managing COA requirements, teaching national scope vs protocols all while incorporating best education practices.

*Instructor: Kathleen O'Connor*

#### **LMGT-715 It's coming - Are You and Your EMS Agency Ready for the Next Pandemic?**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: All*

The question isn't "if" but "when" the next society altering Pandemic will

occur. The COVID pandemic, as well as H1N1, Zika, Ebola and SARS, left us with many affected patients and should have served as a wake-up call to EMS agencies across the US about the realities they will face in a pandemic situation. Significant absenteeism, altered treatment and/or transport protocols, as well as personal protective equipment needs are issues EMS will face. Lesson learned and realistic take home messages will be highlighted.

*Instructor: Raphael M. Barishansky*

#### **MED-836 Glands Gone Wild**

BLS 14 / ALS 19 / 1.0 CEU

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

In this session, we will discuss the pathophysiology and management of the most common endocrine disorders encountered today. We will discuss Diabetic Ketoacidosis, Hypoglycemia, Diabetes Insipidus, SIADH, water intoxication, Thyroid storm, and a few other errors of metabolism. This session is designed to help the EMS provider identify when a patient with an endocrine disease needs emergent interventions or when their presentation is simply a common presentation of their underlying disease process.

*Instructor: William S Krost*

#### **MED-837 Is The Wheeze Just a Tease: Asthma and It's Mimics**

BLS 14 / ALS 19 / 1.0 CEU

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

Wheezes mean Asthma right? Not necessarily! There are many conditions that can cause the kind of bronchoconstriction and inflammation seen in asthma. This class will tackle many of those. From the common, like exacerbations of COPD, bronchitis, certain allergic reactions, to the more difficult to diagnose and recognize, like pulmonary hypertension and vocal cord dysfunction, we'll discuss each in detail to help you differentiate from normal asthma presentations, and cover appropriate treatments and patient approaches to improve your assessment of these asthma mimics.

*Instructor: Rory S Putnam*

#### **MED-838 EMS Simulation Escape Room**

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 the successful escape from the room. Can you solve the mystery?

*Instructor: Robert E Page*

**Limited to: 10**

#### **OPE-927 EMS and Law Enforcement: When You Can - and Can't - Share Patient Information With the Police**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

EMS professionals and police officers sometimes are at odds - especially when law enforcement wants information about your patient. This session will review the specific instances in which EMS professionals can - and cannot - release patient information to law enforcement agencies. Using case examples, this session - led by one of the nation's best known EMS lawyers and a co-author of the ambulance industry's patient privacy guide - will give you a clear understanding of how to deal with law enforcement when it comes to sharing patient information.

*Instructor: Doug Wolfberg*

#### **PED-1032 Death of a Child: Speaking of the Unspoken**

BLS 15 / ALS 20 / 1.0 CEU

*Target Audience: All*

The discussion of the death of a child in the out-of-hospital environment seems not only to bring about numerous questions but also a great deal of discomfort to those involved. For some reason it seems almost taboo to even mention NOT transporting a dead child. Join us for this interactive and thought-provoking presentation where we will discuss the death of a child.

*Instructor: Kyle D Bates*

#### **PED-1033 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 it's 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*



## Saturday Courses

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

#### **ARV-221 Be One with Your BVM (Bag-Valve Mask)**

BLS 11 / ALS 16 / 1.0 CEU

*Target Audience: ALS, BLS, MD, DO, RNs*  
HANDS ON DEMO! Join me as we breakdown and literally break apart the bag-valve mask device. Learn how to troubleshoot the equipment and feel confident repairing and replacing parts should it fail in an emergency. Come and gain a better understanding of what the device can do for your patients after learning about its capabilities and settings.

*Instructor: Patrick McLaughlin*

**Limited to: 25**

#### **CAR-418 Aortic Emergencies**

BLS 12 / ALS 17 / 1.0 CEU

*Target Audience: ALS, BLS, MD, DO, RNs, Youth*  
Aortic emergencies include ruptured aneurysms, acute occlusion, and dissection that can result in vital organ ischemia. Diagnosis can be challenging and careful initial management in the field, ED, or during interfacility transport can make the difference between a patient surviving to surgery or not. This session will give providers the knowledge to identify acute aortic syndromes, manage critical aspects of care, as well as make important transport decisions.

*Instructor: Daniel H Newton*

#### **EDU-516 Discriminatory Item Analysis: A Test Administrator's Best Friend**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: Educators*

Tired of students complaining about test questions? Need a better way to assess test question validity? What if you could determine the validity of a test question without looking at the question? Discriminatory Item Analysis allows the instructor to use data, rather than feelings, to validate test questions. This interactive session will illustrate how Discriminatory Item Analysis can be used by an instructor who administers written tests.

*Instructor: Bob Matoba*

#### **LMGT-716 Strategies for Survival : How to Lead Like Sun Tzu**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: Administrators*

There was no greater leader and strategist than Chinese military general Sun Tzu. His seminal text, the Art of War, is considered a masterpiece of strategy that presents a philosophy for managing conflicts and winning battles. His book is especially relevant to today's marketplace, where EMS is "under attack" and we need to develop strategy for survival like Sun Tzu

did. This session will review lessons and assist you in defining expectations of leadership as well as living up to your own personal leadership potential.

*Instructor: Raphael M. Barishansky*

#### **MED-839 Walk a Mile With My Walker**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience: ALS, BLS*

Need to brush up on geriatrics? Come to our learning nursing home and experience life as a geriatric patient or a provider. Manage activities of daily living, challenges of age-related changes, and the pressures of multiple patients with multiple medications and demands. This is a hands-on simulation where everyone will have a role - who knows what might end up happening at this nursing home!

*Instructor: Kathleen O'Connor*

**Limited to: 20**

#### **MED-840 EMS Simulation Escape Room**

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 the successful escape from the room. Can you solve the mystery?

*Instructor: Robert E Page*

**Limited to: 10**

#### **MED-841 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*

#### **OPE-928 Don't Fear the Reaper, Hospice 101 for EMS and ED providers**

BLS 15 / ALS 20 / 1.0 CEU

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

Hospice is a mysterious subject surrounded by many myths. In the EMS community the focus is very much on

keeping the patient alive not helping them to die. Hospice is often underutilized in general and patients tend to wait until they are imminent to call out for added support. This course will educate providers on what Hospice is and dispel common myths. We will go over general criteria and scenarios you may encounter with a Hospice patient that has called 911 or came to the ER.

*Instructor: Sherrie A Turner*

#### **PED-1035 "Deadly Defects; Pediatric Congenital Heart Defects"**

BLS 12 / ALS 17 / 1.0 CEU

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

Congenital Heart Defects are the number one birth defect in America. This session is designed to discuss the pathophysiology of pediatric congenital heart defects in addition to the assessment and management of specific defects. CHD treatment modalities will be geared toward prehospital management with some discussion involving definitive treatment of CHD's.

*Instructor: William S Krost*

#### **PED-1036 A "Mini" Stroke? When Pediatric Patients Experience CVA**

BLS 12 / ALS 17 / 1.0, Other (specify) CEU

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

We all know that stroke is the result of cardiovascular disease affecting the brain and that it typically presents in older adults. But are you aware of the statistics regarding incidence of pediatric stroke and how it affects these little patients? Stroke can affect anyone, even the young, so in keeping with another of my classes, "The Patient Didn't Read the Book," we'll explore the rare and unexpected events of stroke in younger patients and how important it is to recognize and treat despite their age and apparent good health.

*Instructor: Rory S Putnam*

## 1:30 PM - 5:30 PM

#### **PED-1037 Handtevy**

BLS 12 / ALS 17 / 4.0 CEU

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

Dr. Antevy will discuss step by step, the pediatric cardiac arrest and how EMS can manage these calls. The session will cover all aspects of pediatric cardiac arrest, from pathophysiology to scene management and patient care activities.

*Instructor: Peter Antevy*

## Saturday Courses

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

#### **CAR-419 Unusual Cardiac Arrest Cases**

BLS 12 / ALS 17 / 1.0 CEU

*Target Audience:* ALS, BLS, Educators, RNs  
Every once in a while, EMS personnel encounter cardiac arrest cases unlike anything they have previously ever witnessed. Two situations increasing in frequency involve double-sequential defibrillation or CPR-induced consciousness. To date, the American Heart Association has not addressed either of these issues but current evidence suggests patients in either group may require therapy outside of current treatment recommendations. This presentation will examine the latest evidence surrounding these increasingly occurring phenomena.

*Instructor:* Kenneth W Navarro

#### **CAR-420 Nailing the Neurologic Exam: How EMS Clinicians Catch Neuro-Catastrophes**

BLS 12 / ALS 17 / 1.0 CEU

*Target Audience:* ALS, BLS, RNs

Within EMS, patient assessment practices for neurological emergencies frequently fall short of what is required to adequately identify abnormalities. Come learn why many EMS providers are ill-equipped to assess and identify abnormal neurologic conditions. This session bridges the gap by identifying the components needed to expand a neurological assessment beyond basic stroke scales. More importantly, participants will be provided an opportunity to perform an expanded neurological assessment so it can be practically integrated into their clinical practice.

*Instructor:* Bob Matoba

#### **EDU-514 Your Students Are C.R.E.E.P.S.! Applying Memory Systems to Learning Styles**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience:* Educators

We know that using a single delivery method will not benefit all students, as they each have their own way of learning; some are predominantly visual learners, some are auditory and some are kinesthetic. But no matter which style is dominant, every student probably learns using a mixture of all three. In this interactive and learner-focused session, we will look at these learning styles, discover our own preferences for learning and, using the C.R.E.E.P.S. mnemonic, discuss ideas as to how best deliver content to such a wide variety of learners.

*Instructor:* Kyle D Bates

**Limited to: 30**



#### **HEA-616 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 suck it up, is killing us.

*Instructor:* Robin J Davis

#### **MED-842 Riding the Waves: Prehospital Ultrasound**

BLS 14 / ALS 19 / 1.0 CEU

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

The utility of ultrasound (US) is ever expanding. Today we have inexpensive, portable devices, which makes it hard to justify not having them on every truck or aircraft in the country. In this lecture, we will spend time talking about ultrasounds use in resuscitation and as an adjunct to the performance of procedures. US can be used to determine if a patient is likely to crash or the reason why a patient is actively crashing. US can also be used to ensure procedures are performed safely and accurately.

*Instructor:* William S Krost

#### **MED-843 Is Your EMS Agency Ready for the Silver Tsunami?**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience:* All

America is aging. Between 2010 and 2030, the number of older Americans is expected to double, to 72.1 million. This will undoubtedly have significant impact on EMS. Is your EMS agency ready for this paradigmatic shift and what it means for utilization of your service, nature of responses, greater interaction with social services, and even potential changes to treatment and transport protocols? This presentation will delve into the various issues surrounding the aging of America as well as highlight best practices being implemented around the country to address these issues.

*Instructor:* Raphael M. Barishansky



#### **MED-844 EMS Simulation Escape Room**

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 the successful escape from the room. Can you solve the mystery?

*Instructor:* Robert E Page

**Limited to: 10**

#### **MED-845 Encephalopathy, Down the Rabbit Hole**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience:* All

This presentation is a unique opportunity to hear and discuss the personal impact and recovery from encephalopathy. We will also discuss the term, it's meaning and broad approach for utilization in the medical community. This session will cover common causes, recovery strategies and those incidents that some patients will never recover. The rabbit hole is deeper than you think.

*Instructor:* Gene Mcdaniel



#### **OPE-929 A New Approach for Patient Refusals: CID in EMS**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience:* All

All too often in a patient refusal of care or transport situation, the focus is on getting a signature on the refusal form. This eye-opening session will use actual court cases to demonstrate why a refusal signature alone is not the best legal protection, and how EMS practitioners can best protect themselves from exposure to a lawsuit following a refusal situation. The concept of Collaborative Informed Decision-making - or CID - will be presented, along with narrative-writing strategies to minimize legal liability and bad patient outcomes in refusal cases.

*Instructor:* Doug Wolfberg

#### **OPE-930 What are all these Papers? End of Life Planning and What the EMS Provider Needs to Know**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

As EMS providers most of us are familiar with a DNR form but there are many other documents that are used when planning for end of life care. As providers we must learn about these form to protect the wishes of our patients and families and to also understand the legalities surrounding them. In this lecture you will learn more about DNR forms, Medical Power of Attorney, Advance Directives, POST forms and other documents used in end of life planning.

*Instructor:* Sherrie A Turner

## Saturday Courses

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

#### **OPE-931 Don't Ask, Don't Tell**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: All*

We have heard much this past year about needing to change our workplaces to reflect more equitable, inclusive, and diverse communities of practice. There has been a lot about implicit bias, microaggressions, disparities in care, and the need to teach our providers about social determinates of health. But right now, EMS does not have a single source of truth for collecting information about our provider or student experience. How do we craft the right solutions to the most wicked problems facing our profession today. If we don't ask, nobody tells.

*Instructor: Heather Davis*

#### **PED-1038 Protecting Mini Me: Pediatric Disaster and Terrorism Preparedness**

BLS 13 / ALS 18 / 1.0 CEU

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

It's well established that children aren't just little adults and have special needs. Pediatric care is important for EMS providers to master, not just because we rarely have such calls, but also because of the special situations that we can find ourselves in with children as those patients. Disasters and Terrorism attacks are one unique event where working with pediatric patients may pose bigger challenges we aren't ready for. This class will explore preparations we should take and considerations for helping pediatric patients in the event a disaster occurs.

*Instructor: Rory S Putnam*

#### **PED-1039 Pediatric Patients: Parents and Pitfalls**

BLS 14 / ALS 19 / 1.0 CEU

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

Dealing with pediatric patients can be stressful, even to the most experienced providers. Join in this presentation as we discuss tips and pearls from a health care provider with over 30 years of pediatric critical care experience. More importantly, Dusty has discussed this topic with many parents of critically ill children who are eager to share their thoughts on the topic with health care providers.

*Instructor: Dusty Lynn*

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

#### **CAR-421 Cardiac Chameleons: When the EKG Changes in Your Stroke Patient**

BLS CAT 2 / ALS 17 / 2.0 CEU

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

A stroke is unique in presentation, but we sometimes forget it is created by cardiovascular disease. We should expect to see EKG changes in our patients. Unfortunately, many of these can be sudden and unexpected as we concentrate on the patient's stroke symptoms. This class will explore common EKG changes seen in stroke patients while reiterating importance of good diagnosis, early recognition and treatment. Emphasis will be on case studies and identifying EKG changes typically seen with stroke so you can care for these high risk patients with better outcomes!

*Instructor: Rory S Putnam*

#### **HEA-617 Street Violence! How Safe Are You?**

BLS 15 / ALS 20 / 2.0 CEU

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

The surge in violence against public safety now involves firefighters, EMTs and paramedics. In 2016, four providers were murdered. Traditional scene safety classes and staging policies are not doing enough to prepare our crew members, and hands-on self-defense training, while helpful, teaches perishable skills. This lecture 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*

#### **MED-846 As if Heroin Wasn't Enough?**

BLS 14 / ALS 19 / 2.0 CEU

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

The Heroin epidemic is out of control. Unfortunately, it isn't the only drug of abuse on the rise. Which new drugs of abuse do you need to worry about? With a significant proportion of EMS calls and ED visits related to traditional and novel drugs of abuse, it is imperative for the EMS provider to understand the key features of the drugs and toxidromes commonly seen today. We will review the newest street drugs, their clinical effects, and unique aspects to their treatment modalities.

*Instructor: William S Krost*

#### **PED-1040 Pediatric Rapid Cardiopulmonary Assessment - The PATs, ABCs and CAB of it All!**

BLS 12 / ALS 17 / 2.0 CEU

*Target Audience: ALS, BLS, RNs*

This presentation will assist prehospital and emergency department healthcare providers in developing a rapid systematic approach to pediatric assessment. It will also empower the EMS provider to make a rapid determination of which assessment practice is most appropriate for the situation. We will explore the Pediatric Assessment Triangle (PATs), ABCs, and CABs as tools in pediatric assessment.

*Instructor: Dusty Lynn*

#### **PED-1041 Pediatric Submersion Injuries**

BLS 13 / ALS 18 / 2.0 CEU

*Target Audience: All*

Pediatric submersion events are predictable and preventable events. Join us as we discuss the epidemiology of these events and prevention strategies for the community. We will also discuss the physiological insult of submersion injury on the pediatric patient including management and treatment strategies. Also included will be discussion of the impact on family members, responders and providers.

*Instructor: Gene Mcdaniel*

### 3:00 PM - 4:00 PM

#### **EDU-515 Scenario Remodeling to Remove Unintended Bias**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience: All*

Our scenarios and exam vignettes are often unintentionally laced with language that communicates a bias or attitude about the patient or population in the scenario. This session will utilize a tool to help participants analyze their own scenarios, to identify bias and reword those items ensuring no negative stereotype is being communicated about any particular group or type of patient. Participants are encouraged to bring scenarios or exam items of their own to begin making improvements immediately. This session is appropriate for educators and trainers of all types and levels.

*Instructor: Heather Davis*



## Saturday Courses

3:00 PM - 4:00 PM

### **LMGT-718 Peace, Love and Leadership: Six Lessons From the Turbulent 1960s That Can Inspire EMS Leaders**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

The 1960s were a turbulent time in America. But from that decade came stories of leadership that can inspire EMS leaders - or anyone who aspires to a position of leadership in EMS. Doug Wolfberg - one of the nation's best known EMS attorneys and a highly-rated and dynamic speaker - has a knack for taking historical issues and distilling them into thought-provoking lessons for EMS professionals. This fast-paced, multimedia session will present six examples of leadership inspiration that EMS leaders in all types of agencies can draw from.

*Instructor:* Doug Wolfberg

### **MED-847 EMS Simulation Escape Room**

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 the successful escape from the room. Can you solve the mystery?

*Instructor:* Robert E Page

**Limited to: 10**

### **MED-848 Elusive Endocrinology**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience:* ALS, BLS, RNs

Have you ruled out diabetes but can't explain your patient's altered condition? This interactive case study presentation highlights Addison's disease, Cushing's Syndrome, and Grave's disease. A nuts and bolts approach will be used to address the advanced life support and basic life support considerations for managing these less than common conditions.

*Instructor:* Bob Matoba

### **OPE-932 What We Have Here Is a Failure to Communicate: Top Communication Tips From Great Leaders**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience:* All

It is impossible to be a great leader without being a great communicator. There are some constants to effective communications that we can learn from great leaders. Drawing on examples from leaders in the political realm or business world, the lessons are myriad. In this presentation, Ray Barishansky, an EMS and Public Health professional with over 25 years of experience, will share the various communication secrets, such as being a great listener, reading a crowd effectively and adapting your messaging to the environment - that leaders have utilized to success.

*Instructor:* Raphael M. Barishansky

### **PED-1042 Current Trends in Pediatric Resuscitation Care**

BLS 12 / ALS 17 / 1.0 CEU

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

This session will examine recent publications and up-to-date treat recommendations specific to the pediatric patient who suffers cardiac arrest. We will examine the relationship between time to defibrillation and survival for kids presenting with a shockable rhythm, the impact of early scene management on survival, the use of epinephrine and airway management strategies during resuscitation attempts, whether two-finger or encircling thumbs remain the optimal method of chest compressions for infants, and the accuracy of drug dosages administered by paramedics.

*Instructor:* Kenneth W Navarro

### **TRA-1235 Adam Lost A Rib, Was it a Life Threat?**

BLS 13 / ALS 18 / 1.0 CEU

*Target Audience:* ALS, BLS, RNs

The call comes out; "Ambulance 251, Rescue 252 respond to Lou's Bar 35 East Union on a 45 year old male experiencing difficulty breathing and chest pain." As you arrive you find that indeed the patient is S.O.B. and experiencing chest pain but it's from a pool cue to the chest and the cue is lodged in the patient's chest. The actions you take next will determine the patient outcome. Join Capt Kirk for an interactive and case based session that will answer if Adam really needed that rib.

*Instructor:* Kirk E Mittelman

4:30 PM - 5:30 PM

### **LMGT-719 Sticks and Stones May Break My Bones, but Words Do Hurt**

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

*Target Audience:* All

We may not speak in ten codes anymore, but we have our own language in EMS. Learning to speak that language goes a long way in determining if you will be successful in this field. Whether we are willing to let others in on our linguistic shorthand creates a culture of inclusion or exclusivity. For all learners in class or the field, what we say that is not content related changes persistence for underrepresented students by 20%. Come learn how your words may be helping or hurting others in EMS.

*Instructor:* Heather Davis

### **MED-849 EMS Simulation Escape Room**

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 the successful escape from the room. Can you solve the mystery?

*Instructor:* Robert E Page

**Limited to: 10**

### **MED-850 Not Your Grandfather's DKA: Recent Changes in Diabetes Care**

BLS 14 / ALS 19 / 1.0 CEU

*Target Audience:* ALS, BLS, Educators

Diabetic Ketoacidosis (DKA) is a serious complications of diabetes. Increasingly, patients with Type II diabetes are developing DKA, even in the absence of abnormally elevated glucose levels. What many of these patients have in common is the use of a one of group of medications recently approved by the FDA for the treatment of diabetes. This case-based presentation will review the associated pathophysiology of patients presenting with euglycemic DKA and discuss the approach to diagnosis and management of such patients.

*Instructor:* Kenneth W Navarro

## Saturday Courses

4:30 PM - 5:30 PM

### **PED-1043 KIDz: They're Only Scary at Halloween**

BLS 14 / ALS 19 / 1.0 , Other (specify) CEU  
*Target Audience: ALS, BLS, RNs*

Many EMS providers feel very uneasy with pediatric calls, but they shouldn't. If the provider understands the physical and cognitive developmental milestones while utilizing a pediatric assessment tool they should be able to quickly determine the nature of illness. This presentation will address these as well as discuss one of the most common reasons 911 is activated: respiratory complaints.

*Instructor: Kirk D Bates*

### **TRA-1236 Now That Is Shocking, A Look at Hypo-Perfusion and its Effects.**

BLS 13 / ALS 18 / 1.0 CEU

*Target Audience: ALS, BLS, RNs*

You are dispatched to a man down on the edge of town; your response time is delayed due to weather. Upon arrival you see a male victim laying in the middle of the street with police surrounding him. During this session we will explore the need to recognize hypo-perfusion, the differing kinds and why they happen. With humor and some case studies Capt. Kirk will review the common and uncommon treatments done in the field setting for patients with hypo-perfusion while evaluating the finer points that could be Shocking!

*Instructor: Kirk E Mittelman*

## Sunday Courses

9:00 AM - 11:00 AM

### **ARV-222 Respiratory Interactive**

BLS 11 / ALS 16 / 2.0 CEU

*Target Audience: All*

Who says medical lectures have to be boring? This one rocks! This session is presented in a game show atmosphere where the audience interacts with clickers throughout the session. This case-based session walks the participant through some tough respiratory calls from CHF, to COPD and Asthma, while teams gather points along the way. Join edutainer Bob Page as he moderates the action and reviews in a rather unique way, the respiratory system and the pathophysiology of common respiratory emergencies and assessment techniques.

*Instructor: Robert E Page*

### **CAR-422 Sudden Death in Young Athletes**

BLS 12 / ALS 17 / 2.0 CEU

*Target Audience: ALS, BLS*

The possibility that young physically fit athletes may be susceptible to sudden cardiac death seems counter intuitive. Nevertheless, such catastrophes occur, often in the absence of prior symptoms, and the emotional and social impact can be profound. Two conditions, hypertrophic cardiomyopathy and commotio cordis, together are responsible for almost half of the deaths. This presentation will examine these conditions in detail and provide EMS with useful information for helping to reduce the incidence of sudden death in the young athletes within their local communities.

*Instructor: Kenneth W Navarro*

### **HEA-618 Prayers and Tails in CISM**

BLS 15 / ALS 20 / 2.0 CEU

*Target Audience: All*

This presentation will go into the history of Chaplain's and Therapy Dogs and how they have evolved into the world of Critical Incident Stress Management. Learn what the benefits are for having both as team members. This presentation will be presented by both REMS CISM Team Chaplains and Therapy Dog handlers. Free hugs to the tails are welcome, but we do ask that you ask the Chaplains before you hug them!

*Instructor: Patricia A. Copeland*

*Co-Instructor(s): Bob Morrison, Chris Brown*

### **HEA-619 Diagnosis Cancer: Almost Everything You Need to Know**

BLS 14 / ALS 19 / 2.0 CEU

*Target Audience: All*

Everyday EMS Workers and Firefighters are being diagnosed with Occupational Cancer. Cancer is a personal catastrophe for each and every provider and their family. If you receive this diagnosis do you know what to do, who to contact, what's your next step? This course will provide guidance, resources and direction to aid the provider or a family member. It will include an overview of the occupational cancer problem, emotional tolls it takes on the member and their families, financial responsibilities and how to aid fellow workers with their diagnosis.

*Instructor: Steven I Weissman*

*Co-Instructor(s): Joe Schumacher*

### **HEA-620 The Demons Are Coming, But Are They Real?**

BLS 15 / ALS 20 / 2.0 CEU

*Target Audience: All*

Have you ever wondered what drives people to suicide? Are the demons really coming? Maybe that's what it seems like. Suicide is real and if it hasn't affected

you or someone you know you may be lucky. In this session, we will look at suicide, warning signs, help options and the effect it has on those left behind. Kirk asks that you come with an open mind to this session and be prepared to face your inner demons and help us understand this real crisis in our country.

*Instructor: Kirk E Mittelman*

### **MED-851 Benzos, Barbs and the Rest of Neuro Pharmacology**

BLS 14 / ALS 19 / 2.0 CEU

*Target Audience: All*

The drugs used to treat neurological conditions can be mind boggling to the average provider. Anticonvulsants, antidepressants and antipsychotics can help to 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*

### **PED-1044 "Little Lives within Little Lives; Pediatric Sepsis"**

BLS 14 / ALS 19 / 2.0 CEU

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

Caring for a septic child can sometimes cause anxiety and fear in even the most seasoned EMT or paramedic. Septic children can be very difficult to assess and treat due to the vague symptoms they often present with. This session will review the essential components of a rapid pediatric assessment along with some discussion on treatment modalities currently being used in pediatric medicine. Through the use of "real-life" case studies, ALS personnel will come away better able to assess and provide care for septic children.

*Instructor: William S Krost*

### **TRA-1237 The Pathophysiology of Shock**

BLS 13 / ALS 18 / 2.0 CEU

*Target Audience: All*

This session will review the etiology and pathophysiology of shock. We will review the different forms of shock and the different phases of shock and the impact on body systems during states of inadequate perfusion. This topic will also cover the presentation and management strategies of the patient in shock.

*Instructor: Gene Mcdaniel*

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