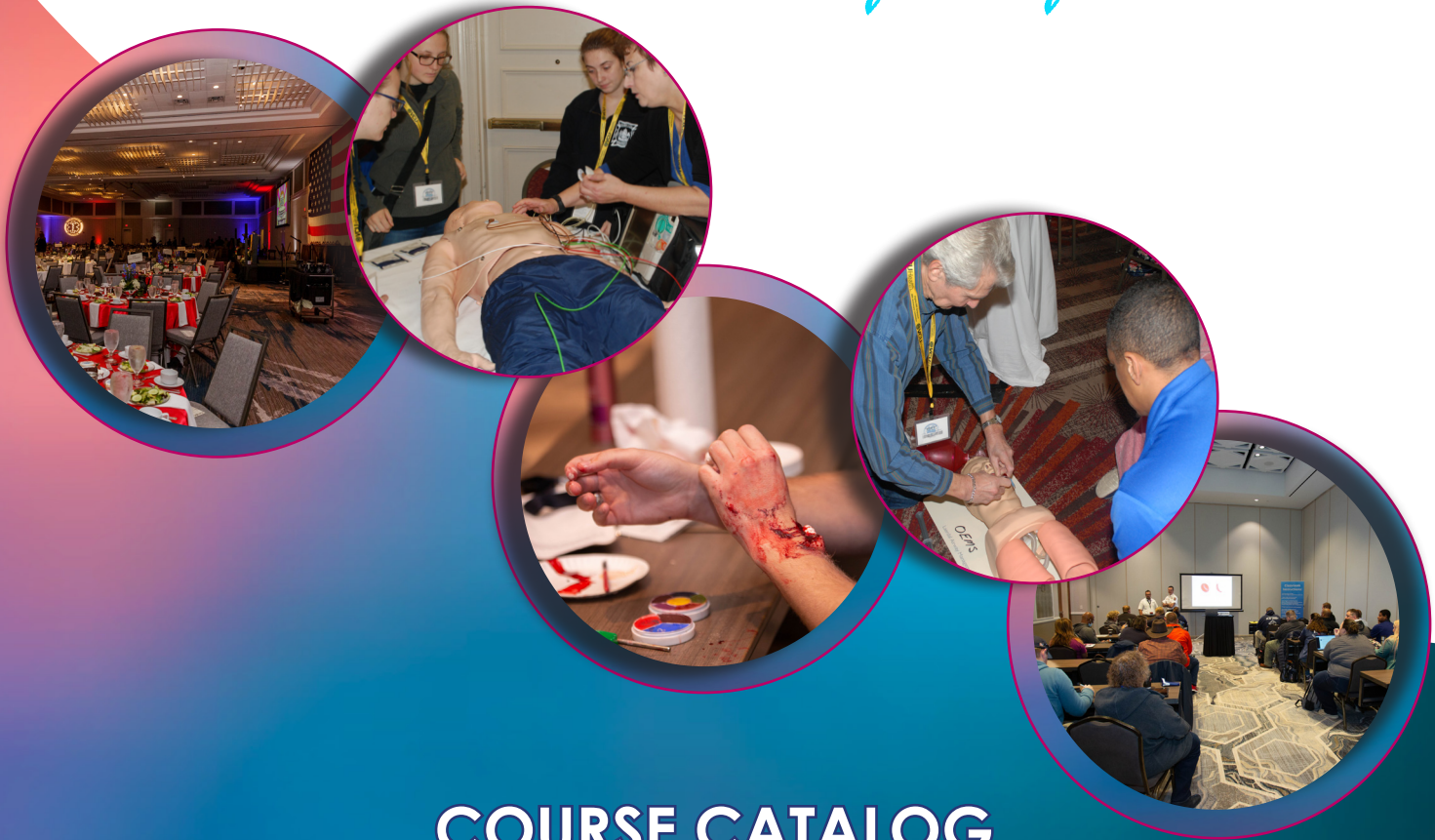


2022 VIRGINIA EMS SYMPOSIUM

an education for life



COURSE CATALOG

More than 300 classes available
Online registration open through October 7
Learn more and register online at:
www.vdh.virginia.gov/symposium

November 9 - 13, 2022

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



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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!

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

Registration Information

Registration Deadline - October 7, 2022

The Virginia EMS Symposium registration deadline is Friday, Oct. 7, 2022 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. 7, 2022 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/. 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.

Payment Support

If you have questions about your registration payment, please call Sandi McGrath at 866-992-3637 or email 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/. 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. 14, 2022. **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 2022 Virginia EMS Symposium.

Tuesday, Nov. 8, 2022, 3 p.m. - 9 p.m.
Wednesday, Nov. 9, 2022, 7 a.m. - 5 p.m.
Thursday, Nov. 10, 2022, 7 a.m. - 5 p.m.
Friday, Nov. 11, 2022, 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/event-reservations/reservation-link.mi?id=1659123972992&key=GRP&app=resvlink>

Hilton Norfolk The Main

100 East Main Street, Norfolk, VA 23510
(757) 763-6200

Sheraton Norfolk Waterside

777 Waterside Drive, Norfolk, VA 23510
(757) 622-6664
<https://www.marriott.com/event-reservations/reservation-link.mi?id=1658921976186&key=GRP&app=resvlink>

Glass Light Hotel and Gallery

201 Granby Street, Norfolk, VA 23510
(757) 222-3033
<https://www.marriott.com/event-reservations/reservation-link.mi?id=1659123851318&key=GRP&app=resvlink>

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/.

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.

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

Marriott Exhibit Hall Hours of Operation:
Thursday, 9 a.m. - 5 p.m.
Friday, 9 a.m. - 2 p.m.

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

Annual Governor's EMS Awards Program and Reception

On Saturday, Nov. 12, join us in celebrating the Commonwealth's 2022 Governor's EMS Award presentation. This year, there will be no fee for this event. Everyone is invited to attend but seating is on a first come first serve basis. We'll have the EMS Memorial Tribute and the presentation of the awards.

Doors open at 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.

Youth and Teen Camps

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

Rescue Camp for Teens is a fast paced and fun-filled class designed for teens ages 13-17. Special emphasis placed on rescue operations to include vertical (ropes), water rescue operations and Emergency Medical First Aid skills. This is an interactive event designed for students interested in public safety careers. Class is limited, registration required.

There will be no fee per youth/teen attending the rescue camps for the 2022 Virginia EMS Symposium. OEMS is doing its part to help mitigate extra costs incurred on our attendees due to inflation.

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

Important Symposium Policies

Cancellations - The symposium registration fee will be refunded if requested in writing and received at the Virginia EMS Symposium office by 5 p.m., Friday, Oct. 15, 2022. **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

CEU & Course Information

only allowed outside of the conference center. Also, please refrain from using other tobacco products in class.

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

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

CEU Worksheets

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

Continuing Education Credit

Virginia EMS Providers - CEUs for Virginia recertification credit will be awarded, as indicated by area, topic and category, to EMS providers certified by the Office of EMS. CEUs are offered for completion of class for Categories 1 and 2. ALS and BLS topics for recertification are listed by CE subject matter, date, time and category. Category 2 applies to both ALS and BLS, unless otherwise noted.


Non-Virginia Certified EMS Providers - Upon request, Non-Virginia EMS providers will receive a document that lists the symposium programs that they attended from the Office of EMS. Requests must be made no later than December 31, 2022.


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-107**) 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.

 **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

2022 Virginia EMS Symposium Registration Form

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

Name _____

Address _____

City _____ State _____ Zip _____

Phone: *Work* () _____ *Home* () _____

Email Address: *(Please print clearly)* _____

EMS Agency/Organization Affiliation _____

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

Virginia EMS Certification Number _____

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

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

2. Registration Fees:

\$100	Full registration includes: all courses held Nov. 9 - 13, 2022, class materials, breaks and special events	\$_____
\$295	CRI-1101 - FPC Review Course	\$_____
\$175	MED-801 - Infection Control Basic Designated Officer Training Course	\$_____
\$150	PED-1008 - NRP for the EMS provider	\$_____
\$100	TRA-1201 - Prehospital Trauma Life Support (PHTLS)	\$_____
\$100	HEA-601 - The Secrets of Psychological Body Armor - Holistic Wellness for Emergency Services and Healthcare Professionals	\$_____
\$75	TRA-1202 - ASHI Wilderness Emergency Care	\$_____
\$65	OPE-914 - Advanced Moulage Techniques and Prosthetics	\$_____
\$50	PED-1027 - Pediatric Shock for the ED and EMS Provider	\$_____

Online Registration is Quick & Easy!

There are two ways to register:

Online and Paper Registration

4:00 - 5:30 PM

___BLS-306

4:30 - 5:30 PM

___CRI-1112 ___PED-1028
___EDU-512 ___PED-1029
___MED-821 ___PED-1030
___MED-822

Friday, November 11
7:30 AM - 5:30 PM

___RSC-1301 (L) ___RSC-1302 (L)
DAY 1* DAY 1*

8:00 AM - 5:30 PM

___CRI-1101 DAY 3* ___MED-801
DAY2*

8:00 AM - 5:00 PM

___ARV-210(L) ___TRA-1220
___OPE-914(L)*

8:00 AM - 3:00 PM

___LMGT-708

8:00 AM - 12:00 PM

___ARV-211 ___BLS-307

8:00 - 10:00 AM

___PED-1031(L)* ___TRA-1221

8:00 - 9:00 AM

___CAR-408 ___MED-823
___CRI-1113 ___MIHCP-1404
___EDU-513 ___OPE-915
___HEA-614 ___PED-1032
___LMGT-709 ___PED-1033
___LMGT-710* ___TRA-1222

9:30 - 10:30 AM

___ADM-111 ___MED-825
___CAR-409 ___MED-826
___CAR-410 ___MIHCP-1405
___CRI-1114 ___OPE-916
___EDU-514 ___PED-1034
___HEA-615 ___PED-1035
___LMGT-711 ___TRA-1223
___MED-824 ___TRA-1224

11:00 AM - 12:00 PM

___ADM-112 ___MIHCP-1406
___ARV-212 ___OPE-917
___CAR-411 ___OPE-918
___CRI-1115 ___OPE-919
___EDU-515 ___OPE-920
___EDU-516 ___PED-1036
___MED-827 ___PED-1037
___MED-828 ___TRA-1225
___MED-829 ___TRA-1226

1:30 - 5:30 PM

___ADM-113 ___ARV-213

1:30 - 4:30 PM

___HEA-616

1:30 - 3:30 PM

___ADM-114* ___HEA-617
___BLS-308 ___PED-1038(L)*

1:30 - 2:30 PM

___CRI-1116 ___OPE-921
___EDU-517 ___OPE-922
___LMGT-712 ___OPE-923
___MED-830 ___OPE-924*
___MED-831 ___PED-1039
___MED-832 ___TRA-1227
___MED-833 ___TRA-1228

3:00 - 5:00 PM

___CAR-412 ___OPE-927
___MED-834 ___PED-1040
___OPE-925(L) ___TRA-1229
___OPE-926

3:00 - 4:00 PM

___CAR-413 ___MED-835
___CRI-1117 ___MED-836
___EDU-518 ___PED-1041
___EDU-519 ___PED-1042
___LMGT-713

4:30 - 5:30 PM

___CAR-414 ___MED-837
___CRI-1118 ___MED-838
___EDU-520 ___MED-839
___EDU-521 ___MED-840
___HEA-618 ___PED-1043
___LMGT-714

Saturday, November 12

7:30 AM - 5:30 PM

___RSC-1301 (L) ___RSC-1302 (L)
DAY 2* DAY 2*

8:00 - 11:00 AM

___TRA-1230(L)

8:00 - 10:00 AM

___PED-1044 ___TRA-1231

8:00 - 9:00 AM

___ARV-214 ___MED-842
___CAR-415 ___MED-843
___CRI-1119* ___MED-844
___EDU-522 ___OPE-928
___EDU-523 ___PED-1045
___LMGT-715 ___PED-1046
___LMGT-716 ___PED-1047
___MED-841 ___TRA-1232

9:30 - 11:30 AM

___ADM-115

9:30 - 10:30 AM

___CAR-416 ___LMGT-719
___CAR-417 ___MED-845
___CRI-1120 ___MIHCP-1407
___EDU-524 ___OPE-929
___EDU-525 ___PED-1048
___HEA-619 ___TRA-1233
___LMGT-717 ___TRA-1234
___LMGT-718

11:00 AM - 12:00 PM

___ARV-215 ___MED-848
___CAR-418 ___MED-849
___CAR-419 ___MED-850
___EDU-526 ___OPE-930
___EDU-527 ___OPE-931
___LMGT-720 ___PED-1049
___LMGT-721 ___TRA-1235
___MED-846 ___TRA-1236
___MED-847

1:30 - 2:30 PM

___CAR-420 ___LMGT-723
___CAR-421 ___LMGT-724
___CAR-422 ___MED-851
___CRI-1121 ___MED-852
___EDU-528 ___MED-853
___EDU-529 ___MED-854
___HEA-620 ___TRA-1237
___LMGT-722 ___TRA-1238

3:00 - 5:00 PM

Sunday, November 13

___ CAR-423 ___ MED-855
___ HEA-621 ___ OPE-932
___ HEA-622

9:00 - 11:00 AM

___ MED-859 ___ PED-1051
___ MED-860 ___ TRA-1240
___ MED-861

3:00 - 4:00 PM

___ EDU-530 ___ MED-857
___ HEA-623 ___ MED-858
___ LMGT-725 ___ PED-1050
___ LMGT-726 ___ TRA-1239
___ MED-856

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

- Youth Camp Child's Name _____ Date of Birth: _____
- Youth Camp Child's Name _____ Date of Birth: _____
- Teen Camp Child's Name _____ Date of Birth: _____
- Teen Camp Child's Name _____ Date of Birth: _____

Emergency Contact Information for Rescue Camp Participants:

Primary Contact Name: (First) _____ (Last) _____

Primary Contact Phone: () _____

Primary On-site Phone: () _____

Secondary Contact Name: (First) _____ (Last) _____

Secondary Contact Phone: () _____

Secondary On-site Phone: () _____

6. Payment Information: Payment must accompany registration form.

Registrant's Name: _____

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

Mail paper registration and check to:

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

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

Will you be attending the Governor's EMS Awards Reception, which will be held Saturday, November 12 at the Norfolk Waterside Marriott?

_____ Yes or _____ No

of Guests (up to five additional) _____

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

CRI-1101 FPC Review Course

BLS CAT 2 / ALS CAT 2 / 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.

Instructor: Christina Martinka

Co-Instructor(s): Nicole Artisst, Robin Davis, Scott Marcosa, Shawn Simmons

Course Fee: \$295.00

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.

Instructor: Christopher M Vernovai

Co-Instructor(s): Chris Payne, Larry A. Oliver

TRA-1201 Prehospital Trauma Life Support (PHTLS)

BLS 13 / ALS 18 / 16.0 CEU

Target Audience: ALS, BLS

PHTLS courses improve the quality of

trauma care and decrease mortality. The program is based on a philosophy stressing the treatment of the multi-system trauma patient as a unique entity with specific needs. PHTLS promotes critical thinking as the foundation for providing quality care. It is based on the belief that, given a good fund of knowledge and key principles, EMS practitioners are capable of making reasoned decisions regarding patient care.

Instructor: Joseph L Hundley

Prerequisite: Pre-test for the course is required.

Limited to: 24

Course Fee: \$100.00

TRA-1202 ASHI Wilderness Emergency Care

BLS 13 / ALS 18 / 16.0 CEU

Target Audience: All

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

Instructor: Vernon M Frayser

Course Fee: \$75.00

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

MED-801 Infection Control Basic Designated Officer Training Course

BLS 14 / ALS 19 / 16.0 CEU

Target Audience: All

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

Instructor: Katherine H West

Co-Instructor(s): James Cross, JD

Course Fee: \$175.00

Friday to Saturday 7:30 AM - 5:30 PM

RSC-1301 Teen Camp

16.0 CEU

Target Audience: Youth

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

Instructor: James T Brendel

Co-Instructor(s): Benjamin Dobrin, Teresa K Phillips

Limited to: 15

RSC-1302 Youth Camp

16.0 CEU

Target Audience: Youth

Rescue Camp for youth is a fast paced and fun-filled session for children ages 8 to 12. Training covers CPR, water rescue, basic first aid, personal safety, as well as ropes and repelling or SCUBA Diving introduction. Rescue Camp is sponsored by The Fairfax County Fire and Rescue Department and the Virginia Office of Emergency Medical Services.

Instructor: Todd I Barb

Co-Instructor(s): Bryan J Nix, Erin L Bond, Evelyn G Edwards, Katherine R Murray

Limited to: 25

Wednesday Courses 8:00 AM - 5:00 PM

EDU-501 Learn By Doing: The Arena Simulation Hands on Experience for Educators

BLS CAT 2 / ALS CAT 2 / 8.0 CEU

Target Audience: Educators

Last year we presented the basics of Simulation for Educators. This year we are continuing with hands on use of simulation, low and high fidelity to flip the traditional learning model to a fun interactive learning experience. Participants will leave with the knowledge necessary to incorporate simulation as a teaching and learning tool, and even an evaluation tool to gauge competency in Red Dot areas of the clarified scope of practice. Come work with State Educator Bob Page to discover the power of progressive learning with simulation. Learn by Doing!

Instructor: Robert E Page

Limited to: 24

Wednesday Courses

8:00 AM - 5:00 PM

PED-1001 Handtevy Instructor Course

BLS 12 / ALS 17 / 8.0 CEU

Target Audience: ALS

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

Instructor: Peter Antevy

Prerequisite: Instructor candidates preferably have 5 years of clinical experience and history of one of the following: AHA or NAEMT Course Instructor Field Training Officer Hospital Educator

Limited to: 40

8:00 AM - 4:00 PM

HEA-601 The Secrets of Psychological Body Armor - Holistic Wellness for Emergency Services and Healthcare Professionals

BLS 14 / ALS 19 / 7.0 CEU

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

This course is designed to aid you in building a personal culture of resilience and holistic health. Our unique approach is intended to help you learn to better manage the stress in your life in order to increase your potential for happiness, success, and even create a competitive advantage through the creation of what we call Psychological Body Armor.

Instructor: Patricia A. Copeland

Course Fee: \$100.00

8:00 AM - 12:00 PM

ADM-102 Traffic Incident Management

BLS 15 / ALS 20 / 4.0 CEU

Target Audience: All

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

working closely with law enforcement and wrecker service or specialty teams.

Instructor: Benjamin F Cheatham

Co-Instructor(s): Edward B Bish

Limited to: 40

8:00 AM - 11:00 AM

ARV-201 The BLS Vent/Ox Lab

BLS 11 / ALS 16 / 3.0 CEU

Target Audience: BLS, Educators, RNs

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

Instructor: Christopher M Kroboth

Co-Instructor(s): Donna Speakes, Duane Tenney

Limited to: 30

8:00 AM - 10:00 AM

OPE-901 Triumph From The Trench - Lessons From Shenandoah Co's 12/9/21 Trench Rescue

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

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

December 9, 2021, marked a day in history when Shenandoah Co. Fire and Rescue was tasked with rescuing a victim buried in a 12-foot ditch - not only a victim, but a member of our fire / rescue community. This incident presented many challenges, obstacles, and calculated risks that resulted in a successful outcome. This course will provide a unique opportunity to evaluate a trench rescue incident from a variety of perspectives. Come listen to this amazing story of survival told from a brother who suddenly became a victim.

Instructor: William John Streett

Co-Instructor(s): Jamey Mantz, Nazir Adam

8:00 AM - 9:30 AM

BLS-301 BLS Academy - Trauma

BLS 13 / ALS CAT 2 / 1.5 CEU

Target Audience: BLS

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

Instructor: Victoria C Lunceford

Co-Instructor(s): Raymond Velasquez

8:00 AM - 9:00 AM

ARV-202 Small-Scale Difficult Airway: A Case Presentation

BLS CAT 2 / ALS 16 / 1.0 CEU

Target Audience: All

Difficult airway management has found its place in mainstream educational offerings, but oftentimes, these courses focus predominantly on the adult population. This case study focuses on a pediatric patient who presented with airway and ventilatory compromise that required clearly-defined team roles, detailed planning, and physician consultation in order to facilitate successful airway management and to restore adequate ventilation prior to transport to a tertiary pediatric facility. This presentation will include talking points and after-action pearls that came from the actual transport debrief.

Instructor: Cody G Jackson

CAR-401 I Don't Like That! Cardiology

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: ALS, MD, DO, RNs

EMS education has historically been training modules that address problems, sign and symptoms, and treatment. But to be the best clinicians that we can be, we must use critical thinking instead of trying to memorize hundreds of topics, that is impossible to do. The "I Don't Like That" series teaches to focus on what the provider doesn't like about the patient's condition and to critically think about the best way to approach the situation.

Instructor: Jason Ferguson

HEA-602 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

Wednesday Courses

8:00 AM - 9:00 AM

LMGT-701 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 coworkers, peers and stakeholders. Those who are best at building relationships are also the best at influencing others.

Instructor: Justin B Adams

MED-802 Not Your Mama's Joint: Today's Drugs of Abuse

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, Administrators,

BLS, Dispatcher, Educators, MD, DO, RNs
In today's world, EMS providers are faced with a plethora of drugs of abuse, from the opioid epidemic, to synthetic drugs such as spice and bath salts, to concentrated forms of THC in vape pens. Take a trip down the rabbit hole of the different drugs of abuse and learn how we can best keep ourselves safe as providers as well as treat these patients effectively - samples NOT included!

Instructor: Lucian A Mirra

PED-1002 Pediatric Assessment: How My Two-Year-Old Son Taught Me To Be A Better Provider

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS

Discussion of assessment techniques geared specifically for pediatrics. Kids are an excellent judge of character and they can sense fear. How can you reassure and comfort a child when you are terrified? Children make up one of the smallest groups of patient types we encounter, yet generate the most stress.

Instructor: Scott V McCormack

PED-1003 What the Heck is a PECC?

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

Critically ill or injured children represent less than one percent of EMS calls in the US. These situations create high anxiety for all involved. Ongoing training and resources are the key to successful preparation for pediatric emergencies. The National Emergency Medical Services for Children program is encouraging the development of Pediatric Emergency

Care Coordinators for EMS agencies and Emergency Departments. This session will offer an overview of the process to become a PECC for your department or agency.

Instructor: Kelley C Rumsey

TRA-1203 To Dart or Not to Dart

BLS CAT 2 / ALS 18 / 1.0 CEU

Target Audience: All

Tension pneumothorax is a life threatening condition requiring immediate intervention. Incorrect assessment and needle decompression placement have the potential to damage to underlying structures if not performed as indicated. Regional and statewide data was analyzed demonstrating profound overuse of this procedure, often in patients without tension physiology. This presentation will report findings and update recommendations utilizing case studies to exemplify the problem.

Instructor: Valerie A Quick

9:30 AM - 10:30 AM

ADM-103 Durable Do Not Resuscitate (DDNR) Regulatory Update 2022

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 prehospital 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-203 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-1102 Somebody Hit the Lytes! Case Studies of Electrolyte Imbalances

BLS CAT 2 / ALS 19 / 1.0 CEU

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

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

Instructor: Lucian A Mirra

EDU-502 Give It So They Get It

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Educators

There are so many teaching methodologies being used that it's easy to get overwhelmed. Do I want to "flip it" or is that really a hybrid class? Since the textbook company provides the PowerPoints, should I use those to teach each lesson? Now that I have access to BlackBoard, how in the heck can you teach EMS online? Come learn more about delivery methods and share best practices of how you've been able to "give it so they get it".

Instructor: Jason Ferguson

HEA-603 A Mile in Another's Shoes

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

Although we may put on a smile, a strong face, or a warm personality, we all face internal struggles and obstacles in our daily lives. Unfortunately, we have lost many of our friends, colleagues, and industry "family" members because they were unable to cope with those struggles or didn't know how to ask for help. This course will provide an opportunity for participants to learn the warning signs and indications that their peers may be struggling, despite their laughs or smiles, and how to best offer a helping hand.

Instructor: Cody G Jackson

Wednesday Courses

9:30 AM - 10:30 AM

HEA-604 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

LMGT-702 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-803 Organ Donation: Does EMS Have a Role?

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Over 20 people in the U.S. die each day waiting for an organ transplant. Several EMS systems in the U.S. and worldwide have developed EMS-based protocols for organ transplant, but there are many ethical and legal considerations that must be explored. There are many areas of organ donation that are misunderstood by both EMS providers and lay persons. Discover the myths and realities surrounding this important part of the healthcare system.

Instructor: Valerie A Quick

LOPE-902 Avoiding the Impact: Apparatus Crashes - Prevention and Lessons Learned

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Educators

As an AIC supervisor/manager, you have a responsibility that whomever is driving

the apparatus is operating it in a safe and effective manner. There are things that can only be taught by experience that should be shared and this class gives ideas and points to think about as a crew on the effects of driving. This is not your typical driver education class; it involves the entire crew!

Instructor: Dean S Thompson

PED-1004 Basics of Working With Children in Crisis

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: All

This presentation will provide basic information on child development, interacting with children in crisis and tips to increase compliance in children. Specific areas that will be focused on include: child-friendly language, working with children who have experienced trauma, and developmentally appropriate coping strategies for pediatric patients. The goal of this presentation is to leave the provider feeling more comfortable and confident in interacting with children by educating on ways to decrease a child’s psychological upset.

Instructor: Schoni Marchio

PED-1005 A Trip to the Pharm: Pediatric Toxicology from Lemon Drops to Crystal Methamphetamines

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, Dispatcher, 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

TRA-1204 “Here, hold this!”- The Role for Tourniquets in Civilian EMS

BLS 13 / ALS 18 / 1.0 CEU

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

Tourniquets have proven to save lives in military casualties. So, would they be as effective on the streets of America? Dr. Wesley will review the current literature from both military and civilian sources in an attempt to answer this question. Along the way he will examine the potential role for hemostatic agents and review changes in the national curriculum and testing processes that have changed our approach to bleeding control.

Instructor: Allen Yee

10:00 AM - 12:00 PM

BLS-302 BLS Academy - Operations, Part 1

BLS 15 / ALS CAT 2 / 2.0 CEU

Target Audience: BLS

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

Instructor: Victoria C Lunceford

Co-Instructor(s): Raymond Velasquez

11:00 AM - 12:00 PM

ADM-104 EMS Vehicle Inspection - Everything You Need to Know.

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Everything you need to know about EMS vehicle inspections. What equipment is required to be on an ambulance? What common problems cause an EMS vehicle to be suspended? Find the answer to these and many more of your questions regarding EMS vehicles. Brought to you by the Office of EMS Division of Regulation and Compliance Enforcement.

Instructor: Paul Fleenor

ARV-204 The Airway Film Room, 101: Let me see it!

BLS 11 / ALS 16 / 1.0 CEU

Target Audience: ALS, BLS

Seeing is believing! You’ve heard of it, but have you seen it? Airway management has many facets. This course, part one of two, focuses on airway management for BLS and ALS providers with a twist: video evidence to help you understand things you may have learned about but never actually seen. We’re going to the film to help us grasp a better understanding of airway management!

Instructor: Kevin A Kissner

Limited to: 20

ARV-205 Invasive Airways - Where do we Stand?

BLS CAT 2 / ALS 16 / 1.0 CEU

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

Invasive airways have been at the cutting edge of progress in EMS practice, from the EOA through intubation and RSI, to supraglottic airways. The placement of an invasive airway has often been considered the mark of an expert EMS clinician and a progressive EMS agency. What do we know now about invasive airways and when are they really the best intervention for our patients? With new airway options and a growing evidence base, what are the best practices?

Instructor: George Lindbeck

Wednesday Courses 11:00 AM - 12:00 PM

CAR-402 ECG Misinterpretation: How to tell if the Machine got it Wrong

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience: ALS

Modern 12 lead interpretation algorithms continue to improve but every so often they spit out an interpretation that makes you scratch your head. This presents a tough situation for any provider. Learn why 12 lead algorithms aren't perfect, how you can spot common errors, and how you can use the machine interpretation to enhance your own interpretation rather than just using it as a second opinion. Topics will include axis deviation, lead placement, fascicular blocks, repolarization speed, and T wave abnormalities.

Instructor: Gregory L Cassis

CAR-403 Shock Delivered: Rethinking "Public Access Defibrillation" to Make Devices Publicly Accessible

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: ALS, Administrators, BLS
Public Access Defibrillation programs have been utilized throughout the United States for over two decades, however, in many cases devices are not truly accessible to the public when they are needed in an emergency. This presentation will use evidence to support the placement of AED units in outdoor spaces utilizing systems that allow for 24 hour a day access to emergency equipment. We will share a case study out of Massachusetts of an athlete who was successfully defibrillated using a secure access defibrillator that was deployed in a public park.

Instructor: Richard C Shok

CRI-1103 Aortic Emergencies from Anatomy to Critical Care Management

BLS CAT 2 / 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

HEA-605 Helping EMS Thrive: The Science of Flourishing

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: All

How many days do you show up at work

and just feel like you're just going through the motions? What is almost as much of an issue as mental illness in our line of work? How do we keep from languishing in our lives and work? In this talk, we will introduce participants to the science behind positive psychology. We will link the research-backed concepts of flourishing to discuss how we can help our profession, both on an individual and agency-level, thrive.

Instructor: Kayla W Long

MED-804 Demystifying Renal Emergencies: Fact from Fiction

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Educators

Ever encounter an ESKD patient with IDH or DDS or uremia? Come learn about common renal emergencies NEVER taught in EMS classes from a former paramedic turned nephrologist. This informative class will dispel myths and give you better insight on how best to treat renal emergencies encountered by prehospital providers.

Instructor: Melody L Siff

MED-805 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-903 Don't Make it Awkward: Providing Culturally Competent Prehospital Care

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, BLS, Educators

The word gender has become almost taboo, or at the very least - something that is happening to "other" people. In reality, we all make gender decisions multiple times daily. The pronouns we choose tell the world about us and impacts the way the world responds to us. This presentation will facilitate conversations to examine your misconceptions, help you feel empowered in your knowledge of gender diversity, and explore how cultural/racial bias can even cause patient harm! Participants will leave armed with knowledge to advocate for culturally-competent prehospital care.

Instructor: Leron T Lewis

OPE-904 Training for Tragedy: Helicopter Emergency Accident Training (H.E.A.T.) for First Responders

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Carilion Clinic Life-Guard developed a new training program geared towards the first responders that will help the flight crew in the case of an aircraft emergency. First responders have always been close partners with the flight crew in safety, but they often lack hands-on training with aircraft related emergencies and how to assist the flight crew in the event of a hard landing. This presentation will cover how this training was developed and implemented locally with great success and will cover the PowerPoint portion of HEAT training.

Instructor: Chelsea W Sibold

PED-1006 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 and discussion is to give an overview of considerations for caring for kids in the field and emergency department.

Instructor: James Burhop

PED-1007 Pediatric Trauma, Complex Cases, Pearls and Pitfalls

BLS 13 / ALS 18 / 1.0 CEU

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

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

Instructor: Kelley C Rumsey

1:30 PM - 5:30 PM

BLS-303 BLS Academy - Medical, Part 1

BLS 14 / ALS CAT 2 / 4.0 CEU

Target Audience: BLS

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

Instructor: Victoria C Lunceford

Co-Instructor(s): Raymond Velasquez

Wednesday Courses

1:30 PM - 5:30 PM

MED-806 Ultrasound Education for the Prehospital Provider

BLS 14 / ALS 19 / 4.0 CEU

Target Audience: ALS, Educators, MD, DO

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

Instructor: Michael J Vitto

Limited to: 30

PED-1008 NRP for the EMS provider

BLS 12 / ALS 17 / 4.0 CEU

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

Prehospital Care of the Neonate awards the same certification as standard NRP class, the difference is the focus is on neonatal births and resuscitations that occur outside of the delivery room. Scenarios, skills stations and discussions are geared toward deliveries that occur in austere environments. There will be online modules to complete prior to class and completion certificate of online work must be presented at class. Class size is limited and registration will close two weeks prior to class to ensure timely delivery of books and completion of online modules.

Instructor: Patricia Dusty Lynn

Co-Instructor(s): Alix Paget-Brown,

Elizabeth Scott, Sarah Curry

Prerequisite: Online NRP modules and completion certificate

Limited to: 20

Course Fee: \$150.00

TRA-1205 K9 Officer Down! Treating Police K9 Injuries During Nom-Nom Moments.

BLS 13 / ALS 18 / 4.0 CEU

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

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

Instructor: Dean S Thompson

1:30 PM - 3:30 PM

ADM-105 The Names Have Been Changed to Protect the Guilty - Presented by Regulation & Compliance Enforcement Division

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

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

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

Instructor: Ronald D Passmore

1:30 PM - 2:30 PM

CAR-404 Cardiac Rhythm Identification and Management Made Easy(ier)

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience: All

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

Instructor: Michael D Owens

CRI-1104 Ketamine, Miracle or Menace?

BLS CAT 2 / ALS 19 / 1.0 CEU

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

Although ketamine has been used in medical and veterinary practice for decades, it is relatively new to prehospital practice. It has uses as a pain medication, an induction agent and as a sedative agent for agitated patients. Recent events have focused concerns on the use of ketamine, even to the point that specific legislation has been passed regarding the use of ketamine by EMS clinicians. This presentation will review the pharmacology of ketamine, its use in practice, and review current controversies about its use, particularly with agitated patients.

Instructor: George Lindbeck

LMGT-703 PAs/NPs in EMS - One AOMDs Perspective

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

Brief history of evolution of Physician Assistants and Nurse Practitioners career paths will be discussed, and why EMS is a natural inclination. We will also discuss the two different tracts for PAs/NPs in EMS and potential uses of these levels of providers. We will also cover how to get started if interested, from both an individual and an organizational perspective.

Instructor: Kathleen E Kramer

MED-807 An Epidemic We Need to Know: Considering Obesity in Emergencies

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

MED-808 Hyperactive Delirium with Agitation- A Freight Train To Death

BLS 14 / ALS 19 / 1.0 CEU

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

The "excited delirium" nomenclature has been updated to hyperactive delirium with agitation. The high profile deaths of several individuals has refocused attention on this life threatening syndrome. Far too frequently, EMS is often called in at the last minute to no avail. The lecture will provide updates and explore this important subject. The treatment strategies including pharmacologic restraint will be discussed.

Instructor: Allen Yee

Wednesday Courses

1:30 PM - 2:30 PM

MED-809 Don't Give Up on Me Yet -- Chronic Kidney Disease & Cardiovascular Events: What to Do, When and Why

BLS 14 / 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

OPE-905 Understanding Identity from an EMS Perspective

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Patient care by EMS should always include compassion, respect, and equitable treatment, no matter the patient's complaint or situation. However, EMS providers may struggle with how to respectfully address, care for, or interact with patients from the LGBT+ communities or those patients who may be gender-nonconforming. This presentation will feature EMS professionals that represent these groups that can answer the questions that EMS providers may be unsure of how to ask and provide insight for how to gain understanding of these diverse communities.

Instructor: Cody G Jackson

OPE-906 "Over the River and Through the Woods" - All About Rural EMS

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Providing EMS care in rural settings can be a challenge from a number of different perspectives, from recruitment and retention, ensuring proper response, and maintaining viability, just to name a few. This presentation looks at the most common issues surrounding rural EMS and some ideas for solutions, with the anticipation of significant participation from the audience in discussing items that may need to be addressed in their own system.

Instructor: Tim Perkins

PED-1009 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

PED-1010 My Baby is Blue, What Should I Do? ALTE's, BRUE's, and How They Affect EMS

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, Dispatcher

Infants can experience frightening events known as BRUE (Brief, Resolved, Unexplained Event, formerly known as ALTE) that usually involve sudden apnea, change in skin color or muscle tone, and altered responsiveness. These events usually lead to terrified parents calling 911 for help. Upon EMS arrival, the infant is often responsive and acting appropriately. This presentation will discuss the possible causes of BRUE and delve into why these babies require evaluation by a pediatrician whether in office or in hospital even though they appear to have returned to their normal baseline.

Instructor: Chelsea W Sibold

TRA-1206 TXA: The GREAT Debate (and other controversial therapies)

BLS CAT 2 / ALS 18 / 1.0 CEU

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

A debate format should make this learning opportunity fun and lively. A literature-based debate between several Virginia OMD's. Dr. Wendy Wilcoxon (Lynchburg) will be the moderator and umpire. Dr. Asher Brand and Dr. Reed Smith will support the use of TXA and Dr. Allen Yee and Dr. Jacob Mace will argue against its use. Come and cast your vote for the winners!

Instructor: Asher Brand

Prerequisite: You will get the most out of this experience if you read up on TXA and the treatment of shock.

TRA-1207 Acute Management of Blunt and Penetrating Chest Trauma

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: All

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

Instructor: Megan T Quintana

3:00 PM - 5:00 PM

ARV-206 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 interactive case-based workshop will take a deep dive into capnography's critical use in evaluating and trending the patient's metabolic and perfusion status. We will go through case-based scenarios with treatments and medications and their effects on the patient and EtCO₂.

Instructor: Christopher M Kroboth

CAR-405 Nothin Basic About It - Breaking Down the BLS Cardiac Arrest!

BLS 12 / ALS 17 / 2.0 CEU

Target Audience: BLS

It always comes back to the fundamentals! This hands-on course will include practical evolutions, as well as learning stations on basic airway anatomy and BVM, BLS airway adjuncts, rescue airways and end-tidal CO₂ monitoring. Students will learn how chest compression fraction (CCF) is measured and why it is more important than ever to minimize interruptions in compressions during a cardiac arrest. No powerpoints, all hands-on learning with integrated scenarios to stimulate some critical thinking!

Instructor: Damien G Coy

Co-Instructor(s): Adam Alford, Garrett Freeman, Kyle Smith

Limited to: 24

Wednesday Courses

3:00 PM - 5:00 PM

EDU-503 Rubrics - Why They're Important (Making it Reliable and Valid - With Case Studies)

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

Target Audience: All, Educators

Looking for a way to improve 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

Limited to: 25

MED-810 Transporting From a Planned Home Birth

BLS 14 / ALS 19 / 2.0 CEU

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

How can EMS Providers and licensed Midwives work together when transport is needed before, during or after a planned home birth? We will discuss collaborative efforts to create a smooth transition of care from home to hospital, with continuity and dignity for birthing people, their newborns and loved ones. Explore how we can decrease stress, increase direct access to necessary care when the normal home birth has strayed into a higher-risk situation and also take a look at what is in our birth bag, instruments, set up you might see.

Instructor: Christina Owens

MED-811 Beyond SPICES and Beers: Geriatrics in the Field

BLS 14 / ALS 19 / 2.0 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: Dr. Carrie Manke

HOPE-907 Tactical EMS, Tools in the Toolbox

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

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

The presentation would explain and

demonstrate CoTCCC approved devices for tourniquets, junctional tourniquets, chest seals and hemostatic material. We will also explain/demonstrate other devices that maybe in the public sector to save lives. We will provide several types of Tactical EMS equipment for the audience to view and hands-on opportunity with themselves and/or on manikins. The participant (prehospital and hospital) will have a good understanding of the devices available in the civilian sector. The presentation pulls data and information from TCCC/TECC and PHTLS.

Instructor: Jeffrey A Mcphearson

Co-Instructor(s): Brian Harness, Charles Lawrence

Limited to: 30

3:00 PM - 4:00 PM

LMGT-704 Chief Officers Impact on EMS Recruitment and Retention

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

Recruiting and retaining EMS personnel for the future is an ongoing challenge as individuals leave the EMS community for a wide variety of reasons. From financial reasons to mental health to frustration over expectations, career and volunteer EMS providers leave and create vacancies that compound the challenges of providing the service. What is the impact of the agency chief executive on these factors? How can we recruit and retain the right team for the future? What actions can the chief take to improve recruitment and retention for the future?

Instructor: John M Watkins

LMGT-705 Leading Organizational Change

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Administrators

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

Instructor: David J English

MIHCP-1401 Mobile Integrated Healthcare Panel 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

PED-1011 Pediatric Mental Health Pharmacology

BLS 14 / ALS 19 / 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

PED-1012 Stupid Kid Tricks

BLS 13 / ALS 18 / 1.0 CEU

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

This lecture focuses on three of the common MOI for pediatric trauma patients: Pills, Spills & Thrills. The pills section covers the basics of pediatric overdoses with helpful insights of what to look for and works in some comic relief. The spills topic covers some of the most common injuries in children sustained by falls and their treatments. Never underestimate the occult injury. Lastly is the thrills section where we see pediatric trauma at its worst from lawnmower incidents, life threatening dog bites and major burn patients.

Instructor: David W Seastrom

TRA-1208 Acute Management of Traumatic Brain Injury

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: All

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

Instructor: Megan T Quintana

Wednesday Courses

4:30 PM - 5:30 PM

ADM-106 Virginia Data Hot Topic

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

In this session, participants will learn about the latest trends in Virginia EMS data and see how EMS patient care reports are being used to improve the health of Virginia citizens on a daily basis. Join us to hear what's been happening in your EMS council region and around the state!

Instructor: Jessica Rosner

CAR-406 BLS-ALS Assessment of Chest Pain

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: ALS, BLS, Educators, RNs

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

Instructor: Beth L Torres

CRI-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

MED-812 Shock & Damage Control Resuscitation

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS

Until you fully understand shock and the potentially devastating impacts it has on your patient's survival, you can't fully appreciate the treatments necessary to keep that patient alive. For trauma patients, Damage Control Resuscitation (DCR) is a systemic approach to the management of these critically injured patients. Developed initially for the hospital, this same approach can be leveraged prehospital to keep your patient alive while avoiding

intervents which worsen their situation through hypothermia, coagulopathy, and acidosis - the lethal triad.

Instructor: David J English

OPE-908 Persuasiveness, the Art of Informed Consent

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, Educators, MD, DO, RNs
Have you ever had the patient who you just could not convince to go to the hospital? Come learn different strategies on how to get the patient who needs to go to the hospital, but refuses for different reasons. Learn communication with not only the patient, but those involved with the patient care.

Instructor: Daniel Frazier

PED-1013 Pediatric Trauma Resuscitation: Fluids & More

BLS 13 / ALS 18 / 1.0 CEU

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

With all the new products, drugs and science on resuscitation coming out, what do we do for children? Shock is second only to respiratory compromise as the most common cause of death in children. Children have different resuscitation needs. With much weaker and less evidence-based practice, this lecture will help your participants identify appropriate patients for resuscitation efforts.

Instructor: David W Seastrom

PED-1014 Where We Going? Pediatric Trauma Triage

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: All

Pediatric trauma triage challenges all providers, with the critically ill patients, often the "easiest decision." What about the less obvious injuries? What can the local hospital handle? What should we send to the trauma center? What about the family of six in the mini-van from out of town? AND the next unit is 30 minutes away. This course presents case studies of challenging pediatric triage choices and provides tools to increase provider confidence in pediatric trauma decision-making.

Instructor: John M Watkins

TRA-1209 Fall from Height; Gravity Always Wins

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: All

This lecture addresses the trauma patient who has sustained blunt trauma after a fall from height. We will review the differential diagnosis of injuries that can be sustained from falls from height. We will pay special attention to the management of complex pelvic fractures, including acute / initial resuscitation and stabilization measures.

Instructor: Megan T Quintana

Thursday Courses

8:00 AM - 5:00 PM

ADM-107 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

ADM-108 Mass Casualty Incident Management I/II (Awareness/ Operations)

BLS 15 / ALS 20 / 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: 30

8:00 AM - 12:00 PM

CAR-424-High-Performance CPR

BLS 12 / ALS 17 / 4.0 CEU

Target Audience: All

This presentation provides information on how high-quality cardiac arrest efforts can change survival outcomes in out-of-hospital cardiac arrests. Topics will cover the importance of joining a registry, understanding the 10 areas to optimize to save more people from OHCA, and how high-performance CPR works with the system to save more lives.

Instructor: Elizabeth Haydu Travis

Limited to: 30

Thursday Courses

8:00 AM - 12:00 PM

CRI-1106 Managing Ventricular Assist Device (VAD) Emergencies

BLS CAT 2 / ALS 17 / 4.0 CEU

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

This session is a lecture/hands-on experience providing participants with information to manage VAD emergencies in the field. The lecture portion of the session will cover candidacy for VAD implantation, assessment of continuous flow (pulseless) state, common complications, and management of emergencies. The hands-on portion will provide participants with the opportunity to rotate to stations with VAD equipment. Participants will learn how to make power connections and recognize alarms.

Instructor: Tonya Elliott

Co-Instructor(s): Katie Sayen (Hummer), Samantha Copeland, Shawn S Glocker, Tonya I Elliott

Limited to: 40

PED-1015 Handtevy Pre-Hospital Pediatric Provider Course

BLS 12 / ALS 17 / 4.0 CEU

Target Audience: ALS

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

Instructor: Peter Antevy

Co-Instructor(s): Tim Perkins, Tim Perkins
Prerequisite: Provider candidates must have a minimum of EMT level certification and be able to provide proof of such if requested.

Limited to: 40

8:00 AM - 11:00 AM

BLS-304 BLS Academy - Operations, Part 2

BLS 15 / ALS CAT 2 / 3.0 CEU

Target Audience: BLS

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

Instructor: Victoria C Lunceford

Co-Instructor(s): Raymond Velasquez

8:00 AM - 9:00 AM

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 M Watkins

CRI-1107 ABC-XYZ: 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

EDU-504 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

HEA-606 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-607 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-813 Sickle Cell 2.0

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

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

MED-814 When Minutes Matter: The Art and Science of Prehospital Fluid Resuscitation

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

We often treat fluid administration as an after-thought, rather than a critical medical treatment. We "hang a bag" or run it "wide open," not always paying attention to how much (or how little) we give, or how quickly (or slowly) we give it. In this panel discussion, we'll talk about trauma, sepsis, cardiac events, and other possible indications for fluid resuscitation, and what the evidence tells us about when and why and how to deliver this important intervention safely and effectively.

Instructor: Mark P Golino

Co-Instructor(s): Mark Piehl, Tim Jaffry

Thursday Courses 8:00 AM - 9:00 AM

MIHCP-1402 Loyal Customers-One Approach to Decrease 911 Utilization

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Arlington County Fire Department has operated a Frequent User Committee which is a collaborative approach between many different organizations within the county to help address our most vulnerable citizens and better match their need to the most appropriate resource. We will discuss how to approach the formation of a committee like this, why this approach works and review the data from the last eight years of this committee.

Instructor: Kathleen E Kramer

TRA-1210 Tactical Emergency Casualty Care; A Regional Approach

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: All

The Northern Virginia Emergency Response System (NVERS) has provided regional training, equipment, and support to all law enforcement and fire/EMS agencies for a decade. This discussion will describe the evolution and elements of the program, data on usage and delivery of TECC care in the field, and how the program has been successfully implemented by other regions.

Instructor: Geoffrey L Shapiro

TRA-1211 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: Patricia Dusty Lynn

9:30 AM - 10:30 AM

ARV-208 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

CRI-1108 There Will Be Blood: Running a Prehospital Transfusion Program

BLS CAT 2 / ALS 19 / 1.0 CEU

Target Audience: All

It took one particularly challenging response to a fatal car crash to convince EMS leaders in Loudoun County that having the ability to administer blood to patients on the scene or in transport can save lives. Soon, the county and regional partners were planning, launching and successfully running a prehospital blood program. Learn the ins and outs of prehospital blood administration, including which patients need it, which don't, and how fire and EMS agencies are collaborating with local hospital systems to bring this life-saving treatment to the field.

Instructor: Mark P Golino

Co-Instructor(s): Mark Piehl

EDU-505 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

EDU-506 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-608 Stress and Nutrition

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: All

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

HEA-609 Defusing Fear in Crisis

BLS 15 / ALS 20 / 1.0 CEU

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

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

Instructor: Dr. Carrie Manke

MED-815 When the Provider Becomes the Patient: HELLP Syndrome, Pre-Eclampsia & Other Scary OB Medical Emergencies

BLS 14 / ALS 19 / 1.0 CEU

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

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

Instructor: Stephanie K Louka

MED-816 Stay Out of the Tunnel

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

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 course will cover some suggestions on not having tunnel vision, not only with your patient, but also to what is around you.

Instructor: Daniel Frazier

Thursday Courses

9:30 AM - 10:30 AM

MED-817 Wound Care Woes

BLS 14 / ALS 19 / 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

MIHCP-1403 Arlington County Advance Practice Paramedic Program

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

The Arlington County Fire Department embarked into the world of Mobile Integrated Health Care with a program called Advanced Practice Paramedics. This session will discuss the operations, training, implementation and lessons learned in this particular model. Discussion will include advanced assessment, training and use of screening tools in order to safely transport patients via standard and alternative resources to appropriate destinations

Instructor: Matthew E Dreher

PED-1016 Safe Transport of Pediatric Patients in Ambulances

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: ALS, BLS

"Improving Occupant Protection for Non-Critical Pediatric Patients in Ambulances: A Training Curriculum for EMS Personnel" was designed to teach EMS personnel about selection and installation of ambulance-specific restraints and some types of conventional child restraints on the ambulance cot. General occupant protection principles and policy and protocol development are also addressed in the training, which combines lecture and case studies.

Instructor: David John Sanko

PED-1017 Common Pediatric Arrhythmias

BLS 12 / ALS 17 / 1.0 CEU

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

Children have arrhythmias, just as adults do. But what is normal and what is abnormal? As healthcare providers, it is important to be able to identify rhythms in children and treat appropriately. This lecture will focus on the most common arrhythmias seen in children and treatment, including "too fast and too slow" rhythms, sinus arrhythmia,

SVT, ventricular arrhythmia, and less frequently, heart blocks.

Instructor: Lori S Stump

PED-1018 What Are the Alternatives for Low Acuity Children in EMS?

BLS 14 / ALS 19 / 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 (including in DC and Maryland) that have included pediatric patients.

Instructor: Caleb E Ward

TRA-1212 ATV - Automatic Trauma Victim

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: All

Since the Consumer Product Safety Commission started tracking ATV injuries in 1980 there have been 15,250 fatalities, with 2014 being the last year of complete data collection. Of the 15,000 fatalities, over 3,300 of them were children under the age of 16. ATV injuries cause nearly 100,000 ED visits a year. So what can we do to help? Injury prevention topics, safe riding techniques and common injuries sustained while on ATV's will be discussed. As always there are vivid pics and videos to keep the audience engaged.

Instructor: David W Seastrom

11:00 AM - 12:00 PM

ADM-109 The State of EMS Provider Mental Health in Virginia 2022

BLS 15 / ALS 20 / 1.0 CEU

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

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 the Virginia 2022 EMS Provider Mental Health Survey and the mental health resources available to providers and agencies.

Instructor: Vincent P Valeriano

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

EDU-508 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

HEA-610 Putting a Dent in Mental Health

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

Mental Health Awareness - Losing my best friend changed my life and how I look at suicide, PTSD, the stigma with first responders. I want to tell my story and teach healthy ways on how to be better with mental health awareness, not only for self but others as well.

Instructor: Jonathan L Smith

MED-818 Not for Sale! The Healthcare Workers' Role in Preventing Human Trafficking

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

Almost 50% of human trafficking victims encounter a healthcare provider during their exploitation. It is essential for healthcare workers to equip themselves with knowledge in this space to help prevent further victimization and create a safe and trusting environment for victims. In this course you will learn key indicators to identify victims of human trafficking, demonstrate how to start the conversation with patients using an evidence-based tool, and maintain safety and trust with this delicate patient population.

Instructor: Dr. Carrie Manke

Thursday Courses

11:00 AM - 12:00 PM

OPE-909 Lessons From the Foothills: Rural EMS Case Studies

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Rural EMS can be one of the most rewarding and challenging areas of EMS, with very limited resources available. Rural providers commonly rely on critical thinking to ensure that patients receive a high quality of care. Join us as we dive into case studies from the foothills of the Blue Ridge Mountains
Instructor: Christopher Wheeler

OPE-910 Code 3: Is the Risk Worth the Reward?

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, Educators, MD, DO, Youth
If you have spent any amount of time in the EMS industry, you likely remember the days of going Code 3 to everything. While Code 3 runs are becoming less common, they are still prevalent in many systems. We will look at research surrounding emergent responses and talk about the risk they pose to providers, patients and the public. We will talk about reasons for these responses and whether they are warranted. Perhaps the time has come for the Code 3 response to go the way of Mast Pants.
Instructor: Reuben P Farnsworth

PED-1019 Updates in Pediatric Prehospital Research

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: All

This session will review practice changing new research in the prehospital care of sick and injured children. Areas covered will include new and ongoing research regarding: termination of resuscitation, pain control, use of supraglottic airway devices in children, spinal injuries, sepsis, asthma and pediatric readiness. Participants will also learn about how to use the Pediatric Emergency Care Applied Research Network (PECARN) and National EMS Information System (NEMSIS) resources for conducting prehospital pediatric research.
Instructor: Caleb E Ward

PED-1020 Pediatric Snake Bites

BLS 13 / ALS 18 / 1.0 CEU

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

Snake bites are common in Virginia, and children are often affected due to their outdoor activities and inquisitiveness. This lecture will focus on the identification and management of snake bites in children, including signs, symptoms and grading of snake bites, first aid tips and management in the ED and inpatient setting, administration

of antivenom, complications and prevention.
Instructor: Lori S Stump

TRA-1213 Penetrating Trauma: "Band-Aids Don't Fix Bullet Holes"

BLS 13 / ALS 18 / 1.0 CEU

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

Most injuries in the pediatric population are of a blunt origin. This lecture works to sharpen the participants' knowledge with the less common, but no less lethal penetrating wounds. Ranging from gunshot wounds to falls causing impalements, this lecture will wow them with vivid pictures, videos and even a little humor thrown in.
Instructor: David W Seastrom

TRA-1214 Squeezing the Life Out of Me - Crush Injuries

BLS 13 / ALS 18 / 1.0 CEU

Target Audience : ALS, BLS, RNs

Injuries from crushing forces seem to have become more common place in society. The advances made in the technical aspects of confined space rescue have allowed living victims to be pulled from rubble instead of dead bodies. This has created a need to devise and standardize treatments for crush injuries and crush syndrome. However, less glamorous but much more common will be the immobile patient such as the inebriate or elderly patient. We will talk about crush injuries, compartment syndrome as they relate to actual case presentations.
Instructor: David John Sanko

TRA-1215 Myths and Misperceptions of TECC & Rescue Task Force

BLS 13 / ALS 18 / 1.0 CEU

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

TECC and Rescue Task Force have matured and been widely implemented over the past decade. However, there are many myths and misconceptions regarding what TECC is and is not, as well as how to operationalize the delivery of point of wounding high threat care during active violence incidents. You think and say you do, but do you really?
Instructor: Geoffrey L Shapiro

1:30 PM - 5:30 PM

CRI-1109 Managing Ventricular Assist Device (VAD) Emergencies

BLS CAT 2 / ALS 17 / 4.0 CEU

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

This session is a lecture/hands-on experience providing participants with information to manage VAD emergencies in the field. The lecture portion of the session will cover candidacy for VAD implantation, assessment of continuous flow (pulseless) state, common complications, and management

of emergencies. The hands-on portion will provide participants with the opportunity to rotate to stations with VAD equipment. Participants will learn how to make power connections and recognize alarms.

Instructor: Tonya Elliott

Co-Instructor(s): Katie Sayen (Hummer), Samantha Copeland, Shawn S Glocker, Tonya I Elliott

Limited to: 40

PED-1021 Prehospital Neonatal Resuscitation

BLS 12 / ALS 17 / 4.0 CEU

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

The course will include a one hour didactic lecture about: 1) The neonate and the differences between neonates and pediatric patients 2) NRP guidelines. The second part of the course will include hands-on practice with basic care of the newborn and advanced skills including but not limited to airway management, central vascular access, chest compressions, CPR as a team, and pneumothorax evacuation.
Instructor: Joseph Aiden Houry
Co-Instructor(s): Jamie Burton, Nayef Chahin

Limited to: 24

1:30 PM - 4:30 PM

ARV-209 Pediatric Airway Management for the EMS Provider

BLS 11 / ALS 16 / 3.0 CEU

Target Audience: ALS, BLS, RNs

Management of the pediatric patient, especially the pediatric airway can be one of the most stressful situation that an EMS provider will face during their career. This session will work to ease the stresses of pediatric airway management with a didactic presentation and a hands-on skill session with incorporated scenarios.
Instructor: Christopher Wheeler

Co-Instructor(s): Katherine Reidel

Limited to: 20

1:30 PM - 3:30 PM

BLS-305 BLS Academy - Medical, Part 2

BLS 14 / ALS CAT 2 / 2.0 CEU

Target Audience: BLS

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

Instructor: Victoria C Lunceford

Co-Instructor(s): Raymond Velasquez

Thursday Courses

1:30 PM - 2:30 PM

CAR-407 12-Lead ECG - Going Beyond the Machine Interpretation

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience: ALS, Educators, MD, DO, RN
Machines that are capable of interpreting 12-leads are incredibly helpful, but they can't replace the diagnostic abilities of the human brain. In this workshop we will review basic 12-lead interpretation. You will learn about the imposters that look like MIs but aren't, and the clues to help you identify the MI that isn't obvious on your 12-Lead. We will look at incorrect machine interpretations, and give you tips so you aren't led astray when the machine gets it wrong. Current principles for managing acute cardiac events will also be reviewed.
Instructor: Gary A Heigel

CRI-1110 Hemodynamic Monitoring in the Critical Care Patient

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience: ALS, Educators, RNs
Overview of invasive and non-invasive hemodynamic monitoring devices and correlating clinical data. Course will cover hemodynamic parameters and apply their significance into the clinical setting. The main focus will center around cardiac performance dynamics, volume status and systemic vascular pressures. Use of pressors and volume status will also be discussed in relation to the initial and ongoing management of hemodynamic status.
Instructor: Holly A Sturdevant
Prerequisite: Requires knowledge of hemodynamic parameters, such as CVP, CI, and CO as well as shock.

EDU-509 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

HEA-611 Fatigue in EMS: Is Our Job Hurting Us?

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: All

Fatigue is something that all of us have

experienced at some point in our lives. It can lead to illness and injury in everyone. For EMS providers, fatigue can cause many more problems. When EMS providers are tired, mistakes can happen. This can lead to vehicle accidents, medication errors, improper treatment of patients, and more. Join me to discuss why sleep is important, what can happen when we are tired and ways that we can get more and better sleep.

Instructor: Wendy L Bowman

LMGT-706 Excellence in EMS: Shoot for Excellence and Leave Acceptable Behind

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

Are you settling for less than your best? No more. We will talk about the importance of exceptional medicine and why it matters. We will talk about how in-depth assessments and the constant pursuit of excellence can elevate us as providers. What you do is important and this presentation will remind you why. Come by and reach your potential; why be an ordinary medic when you can be a rock star medic!

Instructor: Reuben P Farnsworth

MED-819 Acid/Base Balance Part 1 The First of a 3 Part Series

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, MD, DO, RNs
The first of a 3 Part Series. This course will be a review of Acidotic and Alkalotic events that our patients experience. Emphasis is on recognition of signs and symptoms and field treatments to begin the long term treatment process. Interactive case studies and student participation through web-based polling will be used to drive home points and learning objectives.
Instructor: Matthew A Norville

OPE-911 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-1022 Implementing the PALS 2020 Guidelines: A Cautionary Tale

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: ALS, BLS

The PALS 2020 guidelines have made key changes that will significantly impact outcomes. The science behind these

changes were based mainly on 1) in-hospital data, 2) non-randomized studies, and 3) observational data. PALS has separated ways from ILCOR on a key issue, namely ventilation rates in POHCA, and their reason is that the data did not support the change. EMS medical directors should understand the evidence base so they can make decisions for their service that aligns with the patient population they see and the foundational physiologic principles.

Instructor: Peter Antevy

PED-1023 Neonatal Emergencies

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, MD, DO, RNs
Few creatures are more frightening than the neonatal. Only the neonatologist has the confidence to face the ill neonatal with a steady hand. Beyond the immediate newborn period, there are a number of neonatal emergencies that are rare but life-threatening. Conditions that will be discussed will include: congenital cardiac disease, neonatal sepsis, unrecognized metabolic conditions, and respiratory distress.

Instructor: Rick Place

PED-1024 Tales From the Crib: Pediatric Shock

BLS 14 / ALS 19 / 1.0 CEU

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

Tales From the Crib: Pediatric Shock. Worldwide, shock is a leading cause of morbidity and mortality in the pediatric trauma patient. Delay in recognition of shock in the pediatric trauma patients may lead to an irreversible state of cellular and organ damage. In this presentation, we will review the pathophysiology and common causes of shock in pediatric trauma patients. It will also include a review of pediatric assessment strategies and prehospital management of pediatric trauma patients exhibiting signs of shock.
Instructor: Tanya Trevilian

TRA-1216 Utilization of Ultrasound in Fluid Resuscitation

BLS CAT 2 / ALS 18 / 1.0 CEU

Target Audience: All

Point of Care Ultrasound (POCUS) examinations in the acute setting have become an extension of the clinical assessment because of their rapid, precise detection capabilities. Attendees will learn how to use point-of-care ultrasound to diagnose the most important problems seen in the acute care setting. It's ideal for anyone who's just starting to use POCUS, be it in the emergency department, general ward, ICU, or private clinic. This talk will show the evidence in how to use POCUS to increase success rate, and decrease complications when performing common procedures.
Instructor: Paula Ferrada

Thursday Courses

1:30 PM - 2:30 PM

TRA-1217 Treatment Beyond the Physical Ailments: Creating a Culture of Trauma-Informed Care

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, Educators, MD, DO, RNs
Foundational knowledge on trauma-informed care is critical to provide a safe and compassionate culture for trauma victims, and avoid re-traumatizing the patient. This presentation will dive into a personal account of sexual assault and provide the learner with an understanding of the physiological impact of trauma, methods for creating a culture of trauma-informed care, and demonstrate how to develop a trusting relationship with a patient that has experienced trauma.
Instructor: Dr. Carrie Manke

3:00 PM - 5:00 PM

ADM-110 Keeping the Best - Leaders and Officers

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

Target Audience: All

As a leader, how do you improve the culture of your organization to retain members? 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. This session will discuss the leaders role in the retention of good people.

Instructor: John T Bianco

Co-Instructor(s): David Tesh

HEA-612 Disposable Heroes

BLS 14 / ALS 19 / 2.0 CEU

Target Audience: All

Mental health is at the forefront of the first responder world. From the battlefields of Iraq to the streets of Hampton Roads, I am sharing my personal experiences in dealing with PTSD, depression, anxiety and suicide ideology. What we think we know and what we actually know are worlds apart and we have to become more aggressive in our approach. We are extending our view too far down the road and are missing people as they develop mental health issues. I'm ready to share... are you?

Instructor: Jeremy Johns

HEA-613 Saving Our Own: Changing the Culture of Mental Health Awareness in Public Safety

BLS 14 / ALS 19 / 2.0 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

LMGT-707 The 212 Degree Attitude - A Mentality for Personal and Professional Success

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

Target Audience: All

Inspire extra effort and care. At 211 degrees, water is hot. At 212 degrees, it boils. And with boiling water, comes steam. And with steam, you can power a train. One extra degree makes all the difference. We will look at how to apply this theory in the Fire/EMS profession and personal life to become better providers and to improve our mental health. Extra time built in for class participation.

Course presented with permission from Author/Owner

Instructor: Matthew A Norville

OPE-912 Working as an Paramedic in Rural Australia. How does it differ?

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

Target Audience: All

My name is Antonella Ryan and I am an Advanced Care II Paramedic working in Rural Queensland, Australia. I was born and raised in a small rural town where I currently practice. This presentation is an insight into how we operate in my part of the world, a brief overview of our scope of practise and how we overcome the challenges of living and working rural.

Instructor: Antonella Ryan

OPE-913 Hook, Line, and Sinker: Getting Your New Applicant Hooked on Your Agency

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

Target Audience: All

Do you feel as if your bay doors are really revolving doors with volunteers only lasting a short while? Come learn about some key features of successful recruitment and retention. The presenters, both nationally-certified Recruitment & Retention Coordinators with years of experience, will guide you through two very difficult areas. The first will allow you to gain an understanding of the onboard process and its critical role. Part 2 will

cover the generational differences. Then join in the Q & A for any questions on the topic.

Instructor: Tim Perkins

Co-Instructor(s): Laurie Hill

TRA-1218 Tension Pneumothorax: When You Don't Hear Lung Sounds

BLS CAT 2 / ALS 18 / 2.0 CEU

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

This session will be a refresher for providers discussing the organs in the chest cavity. This lecture will provide information on the etiology of a tension pneumothorax and critically think for the best outcome for your patient. This lecture will also include a lab portion for demonstration of proper placement to perform a needle decompression on your patient.

Instructor: Jeffrey A Mcphearson

Co-Instructor(s): Chris Lawrence

Limited to: 30

3:00 PM - 4:00 PM

CRI-1111 CNS Case Reviews

BLS CAT 2 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS

Each participant will be given selected actual case review presentations for the ALS provider. These are all actual CNS 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. When available, participants will be given actual EKG tracings, scene photos, radiographic films, lab values, radio reports, and assessments to determine the case progression. This will be an interactive course with plenty of audience participation

Instructor: David John Sanko

EDU-510 Zooming Beyond COVID

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Administrators, Educators

The pandemic has challenged our beliefs and ideas of what is possible with online and remote education. Virtual classrooms present unique challenges, and we will explore best practices for delivery including lecture, Zoom etiquette, and rules for the virtual classroom. We will discuss simulations online, and lessons learned over the last few years. It is no surprise that EMS educators have stepped up in impressive ways: adapting to change and making sense out of chaos is what we do. Come share your successes and challenges and learn from your peers.

Instructor: Gary A Heigel

Thursday Courses 3:00 PM - 4:00 PM

EDU-511 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

MED-820 I'm Weak and Dizzy! Neurological Complaints You Can't Miss!

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All, BLS

The weak and dizzy patient can be one of the most confusing chief complaints we encounter in emergency and prehospital medicine. Is this simple vertigo or a more sinister finding such as a posterior stroke? In this lecture we will explore the can't miss finding you need to know when assessing the patient with weakness or dizziness. Learn to differentiate between peripheral vs. central causes of dizziness.

Instructor: Russ L Brown

PED-1025 Treating Kids Like Little Adults: A Paradigm Shift in Pediatrics

BLS 14 / ALS 19 / 1.0 CEU

Target Audience : ALS , BLS

Have you ever wondered why pediatrics causes so much anxiety for prehospital providers? Why is it that even with years of experience pediatric resuscitation never seems to get any easier? The answer is based on scientific evidence that describes the brain's function during stress. Join Dr. Antevy for an enlightening talk that may finally convince the EMS profession to treat kids like little adults!

Instructor: Peter Antevy

PED-1026 Pediatric Sepsis: From the Home to the ED

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS

Fever is the most commonly encountered pediatric emergency condition. Sepsis is the dreaded endpoint. Where minutes count, recognition and stabilization before and immediately after arrival to the emergency department may be

life-saving. This conversation will focus on an understanding of what pediatric sepsis looks like and the initial steps of recognition and stabilization.

Instructor: Rick Place

PED-1027 Pediatric Shock for the ED and EMS Provider

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: ALS, BLS, RNs

When a child presents with poor perfusion, it is imperative for the health care provider to be able to rapidly assess that patient and determine if he is in shock and if so, determine what is the etiology of the shock. Using the 2015 AHA PALS updates, we will discuss the four main types of pediatric shock and the initial treatment of each one.

Instructor: Patricia Dusty Lynn

Course Fee: \$50.00

TRA-1219 A Bolt Out of the Blue

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS

A person struck by lightning is the second leading cause of storm-related deaths in the United States. At minimum, a lightning strike is both a serious medical and traumatic event that can lead to significant injury and/or permanent disability. This presentation will enlighten you to the various effects that a lightning strike has on the human body and the numerous anatomical and physiological complications that the prehospital provider must be aware of in order to triage and treat these victims properly. Come and see what the thunder is all about!

Instructor: Christopher Ebright

4:00 PM - 5:30 PM

BLS-306 BLS Academy - Airway Management

BLS 11 / ALS CAT 2 / 1.5 CEU

Target Audience: BLS

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

Instructor: Victoria C Lunceford

Co-Instructor(s): Raymond Velasquez

4:30 PM - 5:30 PM

CRI-1112 Medical Case Reviews for the Advanced Provider-Version 3.0

BLS CAT 2 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, RNs

Each participant will be given selected actual case review presentations for the ALS provider. These are all actual medical cases to test even the most experienced provider. Each participant will be given

the patient's presentation from the EMS perspective and then the case will be followed through the hospital course on to discharge. Compare your treatment plan to what actually transpired. This will be an interactive course with plenty of audience participation. Topics covered: Atypical Cardiac Chest Pain with STEMI, AAA, Wake-up Stroke, Methylene Glycol ingestions, Cardiac Arrest with ROSC.

Instructor: David John Sanko

EDU-512 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

MED-821 For the Love of all that is Holy: Adapting to Your Patients' Religious Beliefs

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

Muslim women wear Hajibs, Jehovah's Witnesses will not accept blood transfusions and Sikh men wear a turban. Mormons have special undergarments, and the Church of The Firstborn does not believe in medical intervention. There are a myriad of religions that you may encounter in EMS and we will talk about ways to accommodate these religious beliefs. Come join the discussion and improve your patient care through a better understanding of how your patients' religious beliefs affect your care plan.

Instructor: Reuben P Farnsworth

MED-822 STEMI Mimics You Can't Miss!

BLS 14 / ALS 19 / 1.0 CEU

Target Audience : ALS , MD, DO, RNs

Many potentially life-threatening conditions can have ST-segment elevation. Not every ECG finding of ST-elevation is cause to activate the Cath lab. In fact, many of these conditions can delay or even worsen the patients condition if misdiagnosed as MI. Being able to recognize these STEMI mimics is paramount as an astute clinician. This lecture will cover the spectrum of many of the mimics and imposters of MI and will increase your confidence in reading ECGs exponentially.

Instructor: Russ L Brown

Thursday Courses

4:30 PM - 5:30 PM

PED-1028 When a Child Dies: A Primer for EMS Clinicians

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: ALS, BLS

Pediatric death is the end result of 90% of all out-of-hospital cardiac arrests. In the US each year yet EMS systems allot very little education and training to this difficult topic. Parents are left on scene while their fatally sick or injured children are hastily removed and whisked away to the hospital. In this talk Dr. Antevy will describe the importance of developing education and strategies surrounding pediatric death in the field that will translate to many lives being saved, including immediate family members and the EMS clinicians who responded.

Instructor: Peter Antevy

PED-1029 EMS from a Childs Perspective

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, Dispatcher

Looking at holistic EMS interactions with our youth. This program will discuss how youth view EMS when interacting with them on calls or transporting them and discuss what opportunities to engage our youth for the future of EMS. Focus is on interaction, not so much treatment. This will be presented by my son.

Instructor: Byron F Andrews

PED-1030 Hot Tots!

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, RNs

It is estimated that there are approximately 3,000 pediatric deaths annually due to burns and probably three times as many disabling injuries. Burns not only affect the body physically, but also the life-long emotional well-being of individuals who must deal with any disfigurement that occurred from a burn. This presentation will help the EMS provider provide proper, rapid assessment and care to a pediatric patient sustaining a burn from flame, electrical and/or inhalation injury.

Instructor: Christopher Ebright

Friday Courses

8:00 AM - 5:00 PM

ARV-210 Can You Ventilate? A Hands on Lab Experience

BLS 11 / ALS 16 / 8.0 CEU

Target Audience: ALS, BLS, Educators

EMS Ventilation skills are called into question, some are Red Dot. For some the solution is to buy ventilation machines

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with little training or understanding on how or why to use it, some are sitting in closets unused. Come join Bob Page as he coaches participants through basic ventilation skills with CPAP, BIPAP, Basic BVM, and even some ventilator machines. There are new ventilation control devices that measure volumes and pressure. They will be on hand to be used by participants on Simulators that can simulate real patient lung pathologies.

Instructor: Robert E Page

Limited to: 24

OPE-914 Advanced Moulage Techniques and Prosthetics

BLS CAT 2 / ALS CAT 2 / 8.0 CEU

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

Take your training to another level by adding realistic wound simulation. Prosthetics are superior to traditional moulage because they are more durable, faster, reusable, can have special effects added and provide realism nearly unachievable from putty and grease paint. This course will teach you how to mold your own wound, cast it and then create a silicone prosthetic to apply to your simulated victim. Application, wound painting, and realistic effects will be taught after demolding your cast. Traditional moulage techniques will be reviewed during drying times.

Instructor: Holly A Sturdevant

Co-Instructor(s): Ray George

Prerequisite: Basic understanding of moulage and some experience with application

Limited to: 30

Course Fee: \$65.00

TRA-1220 Tactical Emergency Casualty

Care for ALS/BLS Providers

BLS 13 / ALS 18 / 8.0 CEU

Target Audience: ALS, BLS

The Tactical Emergency Casualty Care (TECC) guidelines represent a set of evidenced-based best practices for the immediate medical management of wounded in all prehospital high-risk scenarios. TECC is not tactical medicine; instead, it is intended for situations with on-going threat to the provider and patient. Translated from military medical guidelines for appropriate use by civilians, TECC balances the on-going threats, civilian scope of practice, population, medical equipment, and the variable response resources in civilian atypical emergencies. This certification course will be taught by two of the founders of TECC.

Instructor: E. Reed Smith

Co-Instructor(s): Geoff Shapiro, Jon Bigelow

Friday Courses

8:00 AM - 3:00 PM

LMGT-708 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-211 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

BLS-307 BLS Academy - Cardiovascular, Part 1

BLS 12 / ALS CAT 2 / 4.0 CEU

Target Audience: BLS

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

Instructor: Victoria C Lunceford

Co-Instructor(s): Raymond Velasquez

Friday Courses

8:00 AM - 10:00 AM

PED-1031 Pediatric Resuscitation Simulation: Coding Kids Beyond PALS

BLS 12 / ALS 17 / 2.0 CEU

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

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

Instructor: Sam Bartle

Co-Instructor(s): Ashley Haggerty, Frank Petruzella, Jon Silverman, Pat McLaughlin
Prerequisite: Participants should already have taken PALS. Deigned for providers with basic resuscitation knowledge and experience. Class size limited to 12-15 participants per session.

Limited to: 12

TRA-1221 A Femur Fracture...Not Just a Broken Leg and What it is Like being on the Other Side of Trauma

BLS 13 / ALS 18 / 2.0 CEU

Target Audience: All

This presentation looks at case overview of my 12 year old son who was involved in a serious motorbike accident that resulted in a femur fracture. I will be discussing not only the importance EMS has when first on scene at this incident, but also being on shift and hearing the call drop that involved your child. I will discuss the hurdles both physically and mentally my son and my-self have overcome.

Instructor: Antonella Ryan

8:00 AM - 9:00 AM

CAR-408 Carotid What?

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: All

On September 11, 2013 after a 36 hour shift, Greg suffered a stroke due to a carotid artery dis-section. This presentation will discuss factors that will improve stroke assessment, factors that made his recovery better and prevention guidance. We will also discuss the Virginia Stroke Plan and transport decisions. This will include the right destination at the right time.

Instructor: Gregory V Leitz

CRI-1113 Learning and Training with Real Patient Videos

BLS CAT 2 / ALS 19 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, Educators, MD, DO, RNs
There is no shortage of video footage of actual patients and real cases on the internet, both free and for a cost. What should educators and students keep in mind while watching? What are the best practices for teaching and learning with this material? Join Dr. Mark Piehl and Paramedic Hilary Gates as they share tips, tricks and hurdles from doing just that over the past year: convening eager learners and subject matter experts to discuss real patient videos.

Instructor: Hilary Gates

EDU-513 Top Five Papers that are Changing EMS Today

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

A review of the top five (or so) papers that are shaping the way EMS is evolving at the state and national level. If you have ever wondered what drives an OMD to change protocol, policy and practice in an agency, this presentation will attempt to answer that. Topics may include new re-search, position statements, and state and national regulations that affect the way you practice.

Instructor: Eric Stanley

HEA-614 What Dreams May Come: The Value of Sleep

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: All

Fatigue is a consistent and constant issue in the EMS industry. In this discussion we will look at some of the current science regarding sleep and fatigue management. How much sleep do we need? What are the physiologic effects of sleep deprivation? What effects on performance de-velop secondary to sleep deprivation? Perhaps, most importantly, what can we do to improve sleep patterns, quality and quantity among EMS providers.

Instructor: Reuben P Farnsworth

LMGT-709 NEMSMA EMS-FTEP, Is it Right for my Agency?

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Educators

The National EMS Managers Association (NEMSMA) has a program for EMS Field Training and Evaluation (EMS-FTEP). What is it and will it work for your agency? If you are looking to develop a program to take your newly hired or newly certified provider from the basics to competent provider in your system come and learn about the tried and true method based off the San Jose Police FTEP model that

is a national standard for police agencies and used by hundreds of EMS agencies across the nation.

Instructor: Duane P Tenney

LMGT-710 We Have All This Data, But What Do We Do With it?

BLS 15 / ALS 20 / 1.0 CEU

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

We've all been collecting data for a long time, but what are we actually doing with it? In this presentation we will talk about the process ensuring accurate data collection, and we will also demonstrate how to build out simple charts, graphs and even dashboards with your data. This course will give you the upper hand when it's time to present your data in a meaningful and easy to understand format.

Instructor: Robert Mintern

MED-823 Fun With toxicology!

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

This dynamic, interactive lecture will cover the latest toxicological emergencies that the pre-hospital provider may encounter. A little Imodium AD with a chaser of whiskey to start your day! Some SSRI's sprinkled on your cereal with a big helping of serotonin syndrome! If you aren't sure what all that means then this lecture is for you. Identification of specific toxidromes as well as key management strategies for specific drugs/medications will be discussed

Instructor: Russ L Brown

MIHCP-1404 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 percent the James City County (JCC) population that is over 65. CONECT was formalized in March 2018 to address the in-creasing 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

Friday Courses

8:00 AM - 9:00 AM

OPE-915 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

PED-1032 It Ain't Easy Being Wheezy: Pediatric Status Asthmaticus

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, RNs

Severe asthma is becoming more prevalent in American children, and mortality has risen sharply in the past decade. Any EMS professional may be faced with the asthmatic child in severe respiratory distress or impending respiratory failure that has not been relieved with their usual bronchodilator therapy. These scary patients need more aggressive treatment than what is usually required and this discussion will show you how to do just that at the basic and advanced levels of care.

Instructor: Christopher Ebright

PED-1033 Update on the Diagnosis and Management of Pediatric Seizures

BLS 14 / ALS 19 / 1.0 CEU

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

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

TRA-1222 ATVs, UTVs, and ROVs: Let's Stop Unsafe Behaviors

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: All

ATVs, UTVs and ROVs present a twofold problem for EMS agencies. First, rural agencies use these vehicles to access and transport patients from inaccessible locations. Metropolitan agencies use

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these vehicles during special events. Operator behavior is the key to safety. Additionally, agencies responded to an increased number of incidents involving these types of vehicles in 2021. During this session, we'll talk about common injury patterns, prehospital management, and transport from remote scenes.

Instructor: Kern L Watson

9:30 AM - 10:30 AM

ADM-111 Rules and Regulations for EMS Providers

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

This presentation will review a number of regulations and legal concepts that EMS providers frequently encounter in their practice, including such topics as termination of resuscitation in the field, ECOs and TDOs, "duty to act", patient refusal of care, patient competence and capacity, patient abandonment and others. Many of the common myths and misunderstandings will be addressed, with a focus on rules and regulations in Virginia.

Instructor: George Lindbeck

CAR-409 The Right Ventricle Will Mess You Up!

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience: ALS, RNs

Managing critically ill patients with right ventricular heart failure can be challenging. Many of the usual treatment modalities we use can have disastrous consequences in this setting. This dynamic lecture will use a real case based presentation to illustrate key management principles in the management of these patients. Topics discussed will include airway management in this patient population, fluid dynamics and the right ventricle, managing hypotension, vasopressors, and the pathophysiology of right ventricular heart failure.

Instructor: Russ L Brown

CAR-410 Emergency Management of Stroke

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: All

Worldwide, stroke is the second most common cause of death and third most common cause of disability. The lifetime risk of all adults to have stroke is 25%. This presentation will help you understand the pathophysiology, diagnosis, and treatment of acute ischemic stroke, with recommendations on how to improve patient outcomes using our EMS providers' Prehospital Stroke Alert Policy as an example.

Instructor: Ankur S Fadia

CRI-1114 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

EDU-514 Stick It to Your Students: Evidence-Based Learning!

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Administrators, Educators

We want our students to learn what we teach, and we want the information to stick. Decades of research on the science of learning shows us what really works, but many of us aren't applying the lessons learned. This presentation outlines key cognitive principles including motivation, retention, problem solving, and transfer of learning. We will explore common misconceptions about effective teaching and learning, and share tools and strategies for applying all of these concepts more effectively in your courses and training.

Instructor: Gary A Heigel

HEA-615 Mile-Hi Moments: They're Why We Play The Game

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

So often we talk about the "bad calls". What we should be focusing on, are the positive ones. We all have plenty of calls that drag us down and make us question our choice of profession. While important to learn from, these calls don't build us up. Come share some of the Mile-Hi Moments in my career. Together we will remember the reasons we chose EMS as our profession, and why there is nothing we would rather do. What you do is important, this presentation will remind you why.

Instructor: Reuben P Farnsworth

Friday Courses

9:30 AM - 10:30 AM

LMGT-711 “Just the Facts Ma’am, Just the Facts. How to Conduct Intra-Agency Investigations”

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

Most Virginia agencies don't have a separate division to conduct internal investigations for department specific purposes. These types of investigations can be riddled with pitfalls to those unaccustomed to the art of the investigation. This program will examine techniques and strategies that will assist those tasked with conducting internal organizational investigations and how to stay out of trouble when doing them.

Instructor: Justin W Witt

MED-824 Never Look Down on a Medic...Someday You May Be Looking Up at One - The Provider as a Patient

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

In late March 2020 I became the first Paramedic in Northern Virginia to be severely infected with COVID-19 to the point of being admitted as an ICU patient, quickly placed on a ventilator and among the first to be treated with convalescent plasma. After being discharged in mid-May I returned to full operational duty in late July. Shortly after returning to duty I was encouraged to prepare a talk for new and seasoned providers on “the provider as a patient”. This is that talk.

Instructor: Sam Neglia

MED-825 Rapid Visual Diagnosis in Emergency Care

BLS 14 / ALS 19 / 1.0 CEU

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

Emergency personnel face numerous challenges in the approach to the critically ill or injured patient. The physical examination and the results of various diagnostic investigations (i.e. electrocardiogram or monitor tracing) are essential components of the medical evaluation. Rapid bed-side clinical diagnosis, based upon specific clinical images, is a vital skill for EMS personnel. The purpose of this symposium is to provide some of those diagnostic visual clues that might be encountered in acute care scenarios and which first responders should know immediately.

Instructor: Christopher P Holstege

MED-826 Diseases You’ve Never Heard Of (But Are Fun to Talk About)

BLS 14 / ALS 19 / 1.0 CEU

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

Have you heard of a water allergy? How about foreign accent syndrome? Did you know tourists in Florence, Italy sometimes go to the hospital after being overwhelmed by the beauty of Italian art? And how about young immigrants in Scandinavian countries becoming catatonic for months as they wait for asylum? Explore the bizarre and unknown with Dr. Ed Racht and Paramedic Hilary Gates. You'll get a solid mix of A&P, pathophysiology, humor and plenty of, “Wait, what?!”

Instructor: Hilary Gates

MIHCP-1405 “Reverse Specialty Centers”: The Expanding Range of Alternative Destinations for Our Low Acuity EMS Patients

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

The creation of modern EMS systems drove the rise of specialty referral centers (SRC) as definitive destinations for time-dependent conditions. But on the opposite spectrum lies a cohort of those with low acuity disease or injury. The speaker will discuss EMS use of alternative destinations besides hospital EDs for non-emergent conditions, in the context of “reverse specialty centers” (RSC). He will then use cases to illustrate the potential for EMS systems to explore expanding dispositions that might be feasible in the RSC paradigm, including just staying home.

Instructor: Roger M Stone

Prerequisite: Basic medical care or Dispatch training

OPE-916 “The Doctor Wont Let Me”

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

Almost like putting OMDs and EMS Supervisors in a MMA Octagon, this class will be a heated round table debate between OMDs and EMS Supervisors using evidence based medicine to discuss controversial topics such as finger thoracostomy and push dose pressors. Together we'll sort out cutting edge care from bogus bougie trends and how to let go of your Granddad's archaic way of doing EMS.

Instructor: Christopher A Judkins

PED-1034 Pediatric Emergencies: High Yield Pediatric Respiratory Pearls

BLS 11 / ALS 16 / 1.0 CEU

Target Audience: ALS, BLS

Review some high yield pearls of the pediatric respiratory emergency. Recognize respiratory dis-tress across the age groups.

Review treatments for multiple respiratory pathologies. Apply hands-on practice for airway interventions. Highlight the importance of BLS airway skills for all practitioners. Simulate high yield respiratory emergency scenarios. Specific pathologies that will be reviewed include: bronchiolitis, anaphylaxis, asthma, and respiratory arrest. Instructor: Ashley Elizabeth Griswold Haggerty

PED-1035 Initial Evaluation and Management of the Injured Child: Know Your Re-sources!

BLS 13 / ALS 18 / 1.0 CEU

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

A developmental and anatomic guide to the initial Evaluation and Management of the Injured Child. Approach to child and parent and patterns of injury will be described as an aid to proper field treatment. Pediatric trauma resources across the Commonwealth will be described as well as choosing the correct destination for any specific pediatric trauma case.

Instructor: Jeffrey H Haynes

TRA-1223 Drowning and Management of Submersion Injuries

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, Educators

Each year roughly 4,000 patients die, and 800,000 patients are successfully rescued following a drowning event. Yet, submersion injuries remain poorly understood. To optimize outcomes and to separate myth from fact, providers must understand the pathophysiology behind drowning situations. This class will discuss the evidence-based best practices and offer specific focus to cardiac arrest and how the approach must differ from more frequent sudden cardiac arrest etiologies. The class will also discuss a detailed evaluation of the rescued patient and describe an algorithm for treatment and transport decisions.

Instructor: Dan Batsie

TRA-1224 Stretched, Stabbed and Strangled: Traumatic Neck Injuries

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: AL, BLS

Managing injuries to the neck can be both complex and challenging for the prehospital provider, as it is the location for many vital structures. Whether the injury is blunt or penetrating, the EMS provider must maintain a high index of suspicion even if the patient appears to have only minor superficial injuries. This presentation will discuss the anatomy of the neck, zones of neck injury, and management strategies to assist the EMS professional maintain a high index of suspicion and deliver optimal care for victims of neck trauma.

Instructor: Christopher Ebright

Friday Courses

11:00 AM - 12:00 PM

ADM-112 REPLICIA Doesn't Mean Copy & Paste - You can Visit, but you Can't Stay!

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Join us for this session to learn about the new National EMS Licensure Compact known as REPLICIA. Gain a clear understanding of how this Interstate Licensure Compact works, what coverage it provides, and how it differs from the Nursing Compact. We will provide time for a discussion group as well as a Q & A session.

Instructor: Ronald D Passmore

ARV-212 Oxygen: Why It May Not Be The Panacea You Think

BLS 11 / ALS 16 / 1.0 CEU

Target Audience: ALS, BLS, RNs

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

Instructor: Reuben P Farnsworth

CAR-411 When Cardiac Arrest is Not Sudden: Asphyxial and Special Arrest Situations

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: ALS, BLS, Educators

While many cardiac arrest occur because of a sudden dysrhythmia, a substantial number of ar-rests each year occur from asphyxia and other special circumstances. Most providers appropriately train with the pathophysiology of sudden cardiac arrest in mind, but does this approach prepare us for the other circumstances? This class is designed to address the etiologies of cardiac arrest beyond the sudden category. Focus will be given to asphyxial and non-cardiac pathophysiology. Special arrest circumstances including asthma, submersion injuries, pregnancy, toxicology, and anaphylaxis will be highlighted.

Instructor: Dan Batsie

CRI-1115 Whole Blood Transfusion

BLS CAT 2 / ALS 19 / 1.0 CEU

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

PHI AirMedical is among the very first civilian EMS agencies in the country

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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. We will also review the ongoing efforts to secure whole blood for EMS throughout Virginia. Ample time for questions and discussion.

Instructor: Asher Brand

EDU-515 How Much is too Much? A Cognitive Load Theory Discussion

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Educators

How much is too much for our students, how do we help them achieve higher levels of function and performing smoothly and competently that will help them be successful with their national registry testing and becoming a competent field provider? Come learn about Cognitive Load Theory and how you can apply it to your teaching plan to help promote learning progression.

Instructor: Duane P Tenney

EDU-516 Success with a Hybrid EMT Program

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Educators

Many EMS programs are switching to a hybrid model for initial EMT courses for a variety of reasons. This session will explore tools, online learning platforms, and strategies for maximizing student involvement even when they are not in the classroom. The Instructor brings several years experience with both high school and adult education EMT courses run using the hybrid model to help you be successful in your own hybrid classroom.

Instructor: Mary Catherine Gardner

MED-827 Emerging Illicit Substance Use/ Misuse Trends and the Appropriate EMS Management of the Inebriated Patient

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

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

emphasizing various options in pre-hospital pharmacotherapy.

Instructor: Christopher P Holstege

MED-828 Sex, Drugs and Cell Phones: Ethics in EMS

BLS 14 / ALS 19 / 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 pro-mote positive ethical change in your organization without killing the fun.

Instructor: Kern L Watson

MED-829 Storytelling in EMS

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

Throughout history, cultures have been defined by the stories passed down through generations. With a vibrant culture of its own, EMS is no different. Our profession is filled with endless opportunities for remarkable stories, myths, and even legends. In this humorous and entertaining presentation, we will examine some of these stories, discuss the reasons that we feel compelled to share, analyze the risks and the educational benefits, and consider the impact that storytelling has on the EMS culture we are creating every day. *Updated: Was presented at VA in 2016

Instructor: Gary A Heigel

MIHCP-1406 Bad Medicine - All That Stuff People Use That Does Not Do Anything

BLS 14 / ALS 19 / 1.0 CEU

Target Audience : All

A look into Supplementary, Complementary and Alternative Medicine (SCAM medicine, see what I did there?)

In a world full of fake medical therapy, this lecture will empower providers to understand the pseudoscience behind these claims. It will help develop critical thinking skills and provide a framework for approaching claims that seem too good to be true. Topics explored will include Homeopathy, Naturopathy, Acupuncture, Reiki, and many more. Come with an open mind and hopefully leave with a full brain.

Instructor: Eric Stanley

Friday Courses

11:00 AM - 12:00 PM

OPE-917 Virginia Emergency Custody Orders A Tool for Help

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, Educators, MD, DO, RNs
Mental Health crisis recognition and treatment are an important and vital function of first responders. In fact beyond family members, first responders are sometimes the first person to discover that a mental health issue is present. However, what can Virginia EMS providers do to provide the first steps to care. This program will review the criteria and steps involved in initiating the Emergency Custody Order, or ECO. Participants will also gain a further understanding of how this process works and what is required of the provider.

Instructor: Justin W Witt

OPE-918 "Ooh, no... Medic Please Don't Go!": Check-listing the Safety of BLS Transports after ALS Dispatch

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, Educators, MD, DO
Every day tiered EMS systems field calls after an assessment by paramedics with or without transportation capabilities. Often ALS resources are relatively scarce. They need options to "downgrade" patients to BLS crews and release themselves to service for the next ALS call. The speaker will present a tool validated in their system, and data from a pilot study that utilized this tool. Quoting Chicago for some patients: "If you leave me now, you take away the very heart of me." Having guidelines in systems enhances the safety of downgrade practices.

Instructor: Roger M Stone

OPE-919 Everything Cave Rescue

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, BLS, MD, DO, RNs
Everything you ever wanted to know about the bizarre subspecialty of underground medicine. You will learn about caverns and caves and recognize the massive difficulties associated with even basic spelunking injuries. Once recognized, this talk will describe austere prehospital management and treatment during prolonged evacuation. Prior experience not required. (But come to Blacksburg and we'll take you caving!)

Instructor: Brian D Ekey

OPE-920 The Future of EMS: Rough Years Ahead or the Best is Yet to Come?

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

The last few years have challenged EMS systems and clinicians, leading many to wonder what the long-term impact on the profession will be. Has COVID-19 set us back or accelerated needed progress? Depends who you ask. In this fast-paced, lighthearted and evidence-based session, EMS cynic Michael Gerber, a co-author of EMS Agenda 2050, will be joined by eternal optimist Hilary Gates, formerly of EMS World, to discuss the issues facing the profession, including recruitment, education, safety and technology and leave you with strategies to tackle them in your agency.

Instructor: Michael Gerber

PED-1036 THC Ingestion in Pediatrics

BLS 14 / ALS 19 / 1.0 CEU

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

Recognize and review the pearls of a THC overdose in the pediatric population. As of July 1st, 2021, marijuana use is legal in Virginia and therefore has been more accessible in the home to our pediatric population. The pediatric population has variable reactions to THC when ingested and when inhaled. There is a growing number of THC overdoses in pediatric patients in Virginia.

Instructor: Ashley E Griswold Haggerty

PED-1037 Pediatric Transport Refusals

BLS 15 / ALS 20 / 1.0 CEU

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

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

Instructor: Rick Place

TRA-1225 Prehospital and Acute Burn Care

BLS 13 / ALS 18 / 1.0 CEU

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

This course will review burn pathophysiology with a focus on early management for prehospital and emergency medicine practitioners. It will provide an overview of special topics in burn care, including inhalation injury, electrical injury and chemical injury. In addition, we will discuss care of pediatric, adult and geriatric patients and provide an overview of burn

resuscitation and approach to patients who are not responding to resuscitation. A review of operative techniques in burn care will also be discussed.

Instructor: Michael J Feldman

TRA-1226 Blunt Force Trauma and Gunshot Wounds

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: All, BLS

To discuss blunt force trauma injuries and gun shot wound injuries as seen through the eyes of the OCME, through scene investigation and autopsy findings as presented by an OCME investigator. There will also be discussions regarding the partnership of the OCME and other first responders and how we can work together in order to continue to preserve a crime scene.

Instructor: Sandra Williams

1:30 PM - 5:30 PM

ADM-113 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

ARV-213 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

Friday Courses

1:30 PM - 4:30 PM

HEA-616 Commanding the Mental Mayday: An Incident Command Style Approach to Addressing Behavioral Health Injuries

BLS 14 / ALS 19 / 3.0 CEU

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

"Commanding the Mental Mayday" provides a real-world Incident Command System (ICS) approach to managing mental health injuries for senior level officers. Utilizing the tenants of ICS we discuss a rapid intervention team methodology to provide effective and consistent leadership and support in the event of an employee suffering a behavioral health injury. In addition we analyze organizational and cultural obstacles that prevent command level officers from ensuring a competent and mentally resilient workforce.

Instructor: Adam Bartman

1:30 PM - 3:30 PM

ADM-114 Mass Casualty Incident Management Instructor Trainer

BLS 15 / ALS 20 / 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: Completion of MCIM I and II. Must have one of the following: Education Coordinator, VDFP Instructor, VAVRS Instructor, DCJS Instructor, CPR/First Aid Instructor or similar (ACLS, PALS, etc.) Upon training completion, you'll need your OMD to endorse you for teaching. Contact instructor with questions.

BLS-308 BLS Academy - Cardiovascular, Part 2

BLS 12 / ALS CAT 2 / 2.0 CEU

Target Audience: BLS

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

Instructor: Victoria C Lunceford

Co-Instructor(s): Raymond Velasquez

HEA-617 Lifestyles in EMS, Buckle up for the Ride!

BLS 15 / ALS 20 / 2.0 CEU

Target Audience: All

It is understood that living the EMS lifestyle can take a toll both mentally and physically on us. Do you really know when your batteries are empty? Making important decisions to keep at peak performance is one key to staying healthy. How do family and friends impact our ability to give so much to others? Buckle up and join Gary as he points out sights along the way to help you avoid potential negative trends and to maximize your own physical and mental health living the EMS life!

Instructor: Gary E. Wiemokly

PED-1038 Pediatric Resuscitation

Simulation: Coding Kids Beyond PALS

BLS 12 / ALS 17 / 2.0 CEU

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

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

Instructor: Sam Bartle

Co-Instructor(s): Ashley Haggerty, Frank Petruzella, Jon Silverman, Pat McLaughlin

Prerequisite: Participants should already have taken PALS. For providers with basic resuscitation knowledge and experience. Class size limited to 12-15 participants per session.

Limited to: 12

1:30 PM - 2:30 PM

CRI-1116 What in the ECMO??

BLS CAT 2 / ALS 17 / 1.0 CEU

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

This course will look at what extracorporeal membrane oxygenation (ECMO) is; as well as the difference between VA and VV ECMO. Along with the indications for their use and how to manage them in an emergency/transport environment for the Critical Care EMS provider, we will also look at the daily management of ECMO in the ICU setting and steps for cannulation of the patient on to ECMO.

Instructor: Calvin Kendig Mansfield

EDU-517 All the Lies Your EMS Instructor Told You

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS

From pink frothy sputum and deviated tracheas to backboarding and 15 liters by non-rebreather - EMS has a history of teaching, testing, and instilling the equivalent of old wives tales. Maybe the science has changed, maybe we were just wrong? This class will bust myths and legends to get down to real-world presentations and evidence-based practice.

Instructor: Kathleen O'Connor

LMGT-712 Are You SURE You Want to be the Boss?

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Administrators

There can be a tendency for people to think they want the top spot in an organization and that things would be better if they were in charge. Sadly, the realities of leading are often vastly different, and infinitely more complicated, than they may appear. There are often political realities, an entrenched corporate culture as well as communications hurdles at every turn. This informative lecture will provide EMS leaders with a look at the realities of being in charge and how to make it all work.

Instructor: Raphael M. Barishansky

MED-830 Don't Open That Door!! EMS Provider Role in Chemical Suicides

BLS 14 / ALS 19 / 1.0 CEU

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

Instructor: Andy Backowski

MED-831 Picasso, Judy Garland and Indiana Jones all Walk into a Bar...

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, Educators, RNs
This presentation will describe the organic, psychosocial and environmental causes of mental health derangement as well as providing information on schizophrenia, phobias and depression. Specific pathophysiology, signs and symptoms and EMS treatment options are provided to the participant during the discussion, as well as addressing the prevalent problem of PTSD and suicide that is affecting all of us in the EMS community now more than ever.

Instructor: Christopher Ebright

Friday Courses 1:30 PM - 2:30 PM

MED-832 The Return of Cocaine? A Stimulating Discussion on the Next Drug Epidemic

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS

The headlines of fentanyl frequently overshadow the subtle yet pervasive rise stimulant use in the US. Since 2007, both volume of seizures and purity of cocaine are at all-time highs, while at the same time the price of the drug is at an all-time low. Cocaine presents a very different profile for assessment and management. From severe agitation to cardiac complications, a sympathomimetic overdose can be a ticking time bomb. This class will discuss the epidemiology of in-cresing cocaine use and describe the dangers of the next drug epidemic.

Instructor: Dan Batsie

MED-833 HOCUS-POCUS

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, MD, DO, RNs

How can rapid assessment with point of care ultrasound (POCUS) benefit your prehospital care? We will discuss using ultrasound in cardiac arrest to differentiate PEA from pseudo-PEA and how to treat them. For conscious patients, we will discuss using ultrasound to identify patients who may benefit from fluid resuscitation vs. early pressors. Let us show you how to introduce the magic of hocus-pocus and accelerate your EMS division to the cutting edge.

Instructor: Christopher A Judkins

OPE-921 Learning from Line-of-Duty Deaths

BLS CAT 2 / ALS CAT 2 / CEU

Target Audience: All

Tragically, every year dozens of EMS providers lose their lives in the line of duty, including right here in Virginia. We mourn their loss, toast their lives and gather by the thousands to pay our final respects. Too often, we then move on, often without asking ourselves how we can prevent the same thing from happening again. In this session, we'll examine several LODD investigations, what lessons were learned, and how we can use them to make EMS a safer profession--starting with ourselves and our own agencies.

Instructor: Michael Gerber

Co-Instructor(s): Hilary Gates

OPE-922 So, You Want to Stock Your own Drug Boxes, do You?

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

Most EMS agencies in Virginia have used a hospital-based drug box system for decades. Moving forward, it looks like that system may need to change in some ways. What do EMS agency leaders need to know if they are thinking about starting their own drug box system? This presentation will review the applicable state and federal laws, including the Ensuring Patient Access to Emergency Medications Act of 2017, and the mechanics of ordering, storing, and stocking medications.

Instructor: George Lindbeck

OPE-923 Virginia Temporary Detention Orders: What They are and How They are Utilized

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

One of the choices of tools in the toolbox for Virginia first responders in dealing with situations where patients are at a risk of harm to themselves or others is the Temporary Detention Order, or TDO. This program will take an in depth look at the Virginia TDO and review the statutory requirements necessary for the issuance of a TDO, where to obtain them, and what kind of help the TDO provides to the patient in crisis.

Instructor: Justin W Witt

OPE-924 The Natural History of a Fluctuating or Partially Treated High Risk Chief Complaint: Our Job is Not Finished in Just the "Here and Now!"

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

High risk chief complaints (HRCC) during dispatch or clinical phases, and patients' physiology drive assessments and therapy. Cases in our QA shops include patients with advanced dispatch criteria whose symptoms were fluctuating, resolved, smoldering, or partially treated with an intervention. In this session, the speaker will share caveats about the natural history of HRCCs when not fully treated, and preventable outcomes from insufficient vigilance. The totality of assessments, past similar events and the pre-arrival treatment are germane to a decision that is not only in "the here and now".

Instructor: Roger M Stone

Prerequisite: Basic knowledge of Dispatch BLS

PED-1039 Blood, Sweat, and Tears: Balanced Pediatric Trauma Fluid Resuscitation

BLS 13 / ALS 18 / 1.0 CEU

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

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

Instructor: Katherine Schulz

TRA-1227 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

TRA-1228 Unusual Sharp Force Injuries at the Medical Examiner's Office

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: All

Sharp force injuries, although familiar to every emergency medic, may present in unique ways. This presentation reviews unusual fatal sharp force injury cases from the files of the Medical Examiner's Office. Cases include screwdriver stabbings, unexpected accidental death from a broken fish tank, a decedent with X-ray findings leading to recognition of three unexpected stabbings in a house fire not initially recognized as arson, and two deaths in one altercation from the same sword. This presentation correlates scene, investigative, and autopsy findings to examine unusual sharp force deaths.

Instructor: Wendy Marie Gunther

Friday Courses 3:00 PM - 5:00 PM

CAR-412 Acute Coronary Syndromes with Heart Dissection

BLS CAT 2 / 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

MED-834 The Bugs Among Us

BLS 14 / ALS 19 / 2.0 CEU

Target Audience: ALS, All, BLS

This session will review the basic concepts of the immune system and immune system response, the disease profiles of the most common infectious diseases and their pathogenesis effects. Many of these are encountered by prehospital providers each day. Join us for a conversation about the bugs among us and strategies to protect yourself.

Instructor: Billy Gene McDaniel

OPE-925 From 0 to 60; Releasing a New Provider

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

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

How the Fairfax County Fire and Rescue Department prepares its newest members to becoming certified ALS providers both on the career and volunteer sides. New members come to our agencies with a variety of experience or often non at all. How we prepare a new member to ride the front seat of a medic unit in so little time while our Fire Officers take years to prepare for the same role. We will discuss the path of progression from assignment of preceptors, shift evaluation forms, weekly workshops, examinations, and authorization.

Instructor: William A Harrington

Limited to: 30

OPE-926 "Who Let the Dogs Out!"

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

Target Audience: All

This presentation will expose the provider to the types and disciplines of Canines used in the Fire and EMS field. We will include Arson, Drug, Bomb, USAR, Healthcare, Wilderness Search, Therapy, and Patrol Canines, where they are, how they work and where to call to get them. You will be able to meet working canines

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and ask questions of their handlers.

Instructor: Vernon M Frayser

OPE-927 Flight Paramedic/Nurse Tales from the Roundtable

BLS 13 / ALS 18 / 2.0 CEU

Target Audience: ALS, BLS, RNs

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

Instructor: Scott W Davis

PED-1040 Fatal Pediatric Trauma: How the Medical Examiner Tells Child Abuse from Accidents

BLS 13 / ALS 18 / 2.0 CEU

Target Audience: All

When children die from trauma, everyone understands the impact on the family. There is both the tragedy of a life cut short, and the possibility of a crime. EMS is always first in the chain of witnesses to both inflicted and accidental deaths in childhood. Discover what the medical examiner sees at autopsy, and what research we rely on to help us differentiate tragic accidents from child abuse homicides. This presentation is based on actual cases, from the time that EMS was called, all the way through courtroom testimony.

Instructor: Wendy M Gunther

TRA-1229 Virginia Beach Municipal Shooting

BLS 13 / ALS 18 / 2.0 CEU

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

This class presents the details of the shooting, the aftermath actions taken by the City and lessons learned for the Virginia Beach Municipal Center 2019 shooting. The presentation includes criminal mass casualty incident response, mass casualty incident management, Emergency Operation Center operations, continuity of operations and media relation discussions. The presentation is detailed and may rekindle memories or thoughts for those persons that have experienced an active shooter situation.

Instructor: Joseph L Hundley

3:00 PM - 4:00 PM

CAR-413 Cardiac Arrest in Pregnancy

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: ALS, BLS

Although rare, cardiac arrest during pregnancy generally represents a high-stress encounter for EMS personnel. Successful resuscitation of the pregnant patient requires some modifications to standard adult treatment algorithms. This case-based session will outline maternal physiology as it relates to resuscitation along with current evidence-based treatment recommendations for BLS and ALS EMS crews.

Instructor: Kenneth W Navarro

CRI-1117 Choose Your Own Adventure

BLS CAT 2 / ALS 16 / 1.0 CEU

Target Audience: ALS, MD, DO, RNs

This session is a case-based session that will review challenging RSI airway situations and medical situations and will involve critical thinking and critical airway management ideas. Participants will be involved in an interactive case-based review session and will actively engage the instructor discussing challenging EMS scenarios in a discussion format. Come prepared to "choose your own adventure."

Instructor: Christopher A Judkins

EDU-518 The Weak Link in EMS Education...

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Administrators, Educators

This lecture will give educators a better understanding as to why we are doing an injustice to our students and lab instructors. We will go into detail on how we can improve the confidence and competence of students while preparing them to function at their appropriate level in the emergency setting. At the conclusion of this program the participant will understand how to correct issues in the lab setting. More importantly the participant will recognize the need for recruiting and retaining high quality, well-rounded lab instructors for initial EMS education.

Instructor: Dustin Housewright

Friday Courses

3:00 PM - 4:00 PM

EDU-519 What, No Trophy? Failing Them for the First Time! How to Effectively Teach the Next Generation of EMS Students

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Educators

Are you frustrated by the younger generation and what appears as apathy and lack of personal responsibility in your EMS classroom? The Millennium generation is just the latest installment of the generational gap entering our EMS classrooms. The question we must continuously ask ourselves as professional educators is, how do we communicate effectively with each and every student to achieve successful learning outcomes. This presentation will discuss the generational divide and how to work with every student regardless of their "generational identity" to motivate and insure success in our classrooms.

Instructor: Bryan F Ericson

LMGT-713 Next-Gen EMS Leaders, Where do we Find Them?

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Administrators

Where do future EMS leaders come from? How do we find them? What do we do when we do find them? Many organizations promote from within which leads to an excellent career ladder. However, these promotions are often based on the clinical acumen of the provider. Organizations need to provide the proper professional development when promoting staff into leadership roles. This presentation will discuss the importance of identifying the proper candidates and providing them with the knowledge and skills to succeed.

Instructor: Peter I. Dworsky

MED-835 DEMENTIA, DELIRIUM: I SO CONFUSED!

BLS 14 / ALS 19 / 1.0 CEU

Target Audience : ALS , BLS , RNs

DEMENTIA, DELIRIUM: I SO CONFUSED!

Presentation will discuss 1. Dementia and Delirium in relation to the ease with which we as EMS providers confuse their signs and symptoms when exhibited by the confused patient. 2. The assessment and management of the confused patient with an emphasis on the differences between Dementia and Delirium.

Instructor: John Todaro

MED-836 Take a Good Look: A Review of Ocular Emergencies

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, RNs

Eye injuries make everyone queasy,

especially this presenter. However, early and prompt recognition of common eye injuries and illnesses is imperative to save a patient's vision. This presentation will review basic anatomy and physiology that is relevant to managing emergent ocular emergencies, highlight an abbreviated exam for EMS providers, and go over some common traumatic and atraumatic emergency presentations seen in the prehospital setting.

Instructor: Christopher Ebright

PED-1041 Pediatric Respiratory Failure: Recognizing, Treating and Preventing Arrest in Children with Severe Respiratory Crisis

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, Educators, RNs
Respiratory failure is a leading cause of cardiac arrest in children, but since it is a relatively rare event, very few EMS practitioners have experience in managing these patients. This class will review the most common causes of respiratory failure in children including bronchiolitis and asthma and describe key recognition features to identify the periarrest state. Both BLS and ALS treatments will be reviewed and best practice, evidence-based interventions will be described.

Instructor: Dan Batsie

PED-1042 ROSC! Now What??? Pediatric Cardia Arrest- You Have Achieved Your Goal- Now What do you do??

BLS 12 / ALS 17 / 1.0 CEU

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

Instructor: Patricia Dusty Lynn

4:30 PM - 5:30 PM

CAR-414 12 and 15 lead EKG - Where Does This Lead Us???

BLS CAT 2 / ALS 17 / 1.0 CEU

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

This presentation goes beyond the basics of 12 lead EKG application. We will discuss in depth 12 and 15 lead EKG's. We will take a dynamic approach to areas of infarct, axis deviation as well as the different types of blocks. The students will be able to differentiate the difference from STEMI mimics to actual STEMI's. Not only will the participant recognize these on an

EKG, they will understand the areas of the heart that is affected.

Instructor: Dustin Housewright

CRI-1118 LVAD's, ECMO, Balloons Oh My!

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience: ALS, BLS, Educators, MD,

DO, RNs

This class will look at the use of life-sustaining invasive cardiac devices to include: LVADs, Impella, IABP, and ECMO. We will discuss indications for their use, the pathophysiology of how each machine works, and how long these therapies can assist a patient's heart. Additionally, essential information will be provided about the management and emergency action steps for these machines and for the EMS providers who transport them.

Instructor: Calvin K Mansfield

EDU-520 Awakening the Future! Successful Strategies for Developing and Mentoring the Next Generation of EMS and Nursing Professionals

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Educators

What role has a mentor played in your life or your career? This presentation will outline the key characteristics of successful mentoring and how to implement them in your setting. By using the example of Young Frankenstein we will look at the challenges faced by successful mentors and what it takes to develop future professionals. It is the responsibility of current professionals to develop successful mentoring strategies to help insure the success of the NEXT generation of healthcare professionals.

Instructor: Bryan F Ericson

EDU-521 Mentoring 101

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

What does it mean to be a mentor? How does this relate to success in EMS? If one can "read the book" can't they "do the job?" Taking the knowledge one gathers from the classroom experience and being able to put that brainpower into action is not always as easy as it seems. A good mentor or FTO, coaches, teaches, corrects, and praises their apprentice. The quality of an EMS Care provider is often related to the one who mentored them!

Instructor: Gary E. Wiemokly

Friday Courses

4:30 PM - 5:30 PM

HEA-618 How to Effectively Conduct a Safety Huddle

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: Administrators

What is a huddle? Its a short, stand-up meeting, 10 minutes or less, that is typically used once at the start of each shift. The daily huddle gives you and your team a way to maintain a focus on safety and operational resiliency. In this presentation we will look at the process and tools used for daily huddles.

Instructor: Peter I. Dworsky

Co-Instructor(s): TBD

Class Format : Didactic/Lecture

LMGT-714 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: Administrators, 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

MED-837 Complications of Emergency Childbirth

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS

This presentation will cover the assessment and treatment of a patient experiencing an eminent emergency delivery in the prehospital setting with the following complications: breech presentation, shoulder dystocia, limb presentation, prolapsed cord, multiple births. In addition to these complications, the concept of the assess for and procedure for emergency C-Section will be discussed.

Instructor: John Todaro

MED-838 What is Really Impacting Your Patient?

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, Educators

Have you ever wondered why a patient waited so long to call 911? Why they aren't taking their medications? Why they

didn't just go to urgent care? This session will explore social determinants of health through interactive activities. We will explore all the factors that can impact a patient before and after our short time with them as EMS providers and how we can make a positive impact. It's more complex than SAMPLE/OPQRST!
Instructor: Kathleen O'Connor

MED-839 Unexpected Allergic Responses

BLS 14 / ALS 19 / 1.0 CEU

Target Audience : ALS , BLS , RNs

Allergic reactions present in a variety of ways, with a myriad of different symptoms. Some pre-sent right away, some hours later, and is it really an allergy or just an odd side effect? This session will describe some of the more unusual reactions we may encounter in patients - including alpha-gal allergy, and certain untoward effects from medications - to help you distinguish between them and understand how to best treat these patients.

Instructor: Mary C Gardner

MED-840 Brief Resolved Unexplained Event (BRUE)

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS

What was once called acute life-threatening events (ALTEs) is now known as brief resolved unexplained events (BRUEs). The condition involves an episode that is frightening to the observer and is characterized by some combination of apnea, color change, marked change in muscle tone, choking, or gagging. The case-based presentation will examine the relationship between SIDS and BRUE, some common causes of BRUE, and recommendations for the field management of infants who present with BRUE.

Instructor: Kenneth W Navarro

PED-1043 Pediatric Case Studies - What's Wrong With This Little Kid?

BLS 12 / ALS 17 / 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: Patricia Dusty Lynn

Saturday Courses

8:00 AM - 11:00 AM

TRA-1230 Trauma Maze

BLS 13 / ALS 18 / 3.0 CEU

Target Audience: All

Come navigate the Trauma Maze, filled with blood, guts and . . . You and your Team! How will you handle trauma - secure airways, cease bleeding, splint bones, treat shock, 'blindly' apply apparatus? The Trauma Maze will take you to the tops of the mountain and deep into the earth. Can you handle it? It's not for the faint of heart! Everyone participates, no matter your EMS Level. Prepare to deal with true grit! Come see the new Maze!

Instructor: Bonnie Caplinger

Co-Instructor(s): Brandon Sites

Limited to: 60

8:00 AM - 10:00 AM

PED-1044 Pediatric Medical Case Studies

BLS 14 / ALS 19 / 2.0 CEU

Target Audience: All

An EMS response to the child experiencing a medical emergency can be a challenging incident. This series will discuss the presentation, assessment, and management of the pediatric patient with common and uncommon medical emergencies. The discussion will use various case studies of real incidents involving each of the disease processes discussed.

Instructor: Billy Gene Mcdaniel

TRA-1231 Salt Water is for Cooking Pasta! The New Theory of Damage Control Resuscitation for Traumatic Injury

BLS CAT 2 / ALS 18 / 2.0 CEU

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

The traditional approach to trauma resuscitation is founded in these 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

Saturday Courses

8:00 AM - 9:00 AM

ARV-214 First We Succeed! Optimizing First Pass Success During Airway Management

BLS CAT 2 / ALS 16 / 1.0 CEU

Target Audience: ALS, MD, DO

Referred to by many different names, rapid sequence intubation utilized sedation and paralytic medications to help optimize the view for endotracheal intubation during airway management. Ultimately our goal is to succeed on the first pass regardless of the specific tool, technique or situation. How can we maximize the chance of first pass success? Join us as we discuss the ways we can insure first pass success!

Instructor: Jeff Myers

CAR-415 Everything Hollywood Got Wrong

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: All

ER, Greys Anatomy, House, 911, Code Black, if you follow Hollywood you would be stocking your failed airway kit with vodka and a BIC pen. They might be entertaining but the medicine is a little wacky. This class will provide helpful edits to your favorite TV providers in some classic scenes and review identifying and treating emergencies that are seen in the real world, not just on the screen!

Instructor: Kathleen O'Connor

CRI-1119 Ready Set Intubate! (RSI Pharmacology)

BLS CAT 2 / ALS 16 / 1.0 CEU

Target Audience: ALS

Does your patient need an advanced airway? Wondering what RSI drugs to use for this pending airway disaster? Want to impress the ladies with your extremely large...brain? Well look no further, this lecture will go through the indications, pharmacology, and mechanism of the drugs used for rapid sequence intubation that will get approval from even the saltiest of ER docs!

Instructor: Cara M Jackson

Co-Instructor(s): TBD

Prerequisite: RSI trained and certified to intubate by agency.

EDU-522 Reinventing Recert: An Update on the National Registry Continued Competency Initiative

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

The National Registry began an initiative to explore new ways to verify continued competency in 2019 with the aim of developing an agenda for the future of recertification. New ways

to verify continued competency could revolutionize the ways in which we renew certification, licensure and local credentials. Mark will summarize the research and accomplishments of the continued competency initiative.

Instructor: Mark Terry

EDU-523 The Write Stuff - How to Write and Present an Article for Publication

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Rob Lawrence has been a regular writer and broadcaster across EMS publications, both in the US and UK for the last decade. In this session, Rob will discuss how to get published, how to pitch a story, who to pitch it to and hints and tips to write for industry publications. Rob will share his experience as an EMS writer and broadcaster, combined with his role as the Communications Chair for the American Ambulance Association, to help you and your organization get published and noticed.

Instructor: Rob C Lawrence

LMGT-715 What the Heck Just Happened? Conducting Evidence-Based Investigations

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Administrators

Your agency experienced an incident resulting in a sentinel event. Now what? Reacting quickly to the incident with a prescribed procedure and actions can demonstrate your commitment to safety and ensure the proper information is collected to fulfill an incident investigation's ultimate purpose, not assigning blame but the prevention of future incidents.

Instructor: Peter I. Dworsky

LMGT-716 Decades of Leadership: Lessons for EMS Leaders From the 1970s, 80s and 90s

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, Educators, MD, DO, RNs
EMS Leaders can be inspired by the lessons of our past. Join national EMS attorney Doug Wolfberg as he takes a look at some of the pivotal historical events of the 1970s, 1980s and 1990s and presents uplifting, inspiring and important lessons that EMS leaders - or those who aspire to leadership - can learn from these incredible stories. Doug Wolfberg's leadership sessions are multi-media events that are entertaining, though-provoking and humorous.

Instructor: Doug Wolfberg

MED-841 Chief Complaint, could this be Covid-19 related?

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, RNs

Fortunately, at the time of this writing the Covid-19 pandemic seems to be holding steady or slightly improving in both the number of individuals surviving and those acquiring the virus. Unfortunately, though many individuals will suffer long-term effects of the illness; this has the potential to affect our usual patient assessment. Join Gary in reviewing complaints some of your patients may be stating that may be related to Long-Haul Covid. You will no doubt encounter these individuals if you have not already!

Instructor: Gary E. Wiemokly

MED-842 IS Your Department Offering Education and Training that Meets OSHA/CDC Requirements?

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: Administrators,

Educators, MD, DO, RNs

This presentation is based on the results of a one year cross country survey requesting information on the status of education and training on bloodborne, airborne/droplet transmitted diseases. Departments of various sizes, including volunteer departments, participated in this survey. Come and see where your department falls in the compliance with OSHA and CDC requirements for training. You may find the results of the survey surprising.

Instructor: Katherine H West

MED-843 Understanding Psychiatric Emergencies

BLS 14 / ALS 19 / 1.0 CEU

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

This interactive lecture will focus on the various types of psychiatric emergencies EMS providers may encounter. The lecture will consist of several case studies which will give participants a better understanding on why these patient encounters are truly emergencies. We will discuss excited delirium syndrome and the use of Ketamine. This program will prepare the student to better treat these types of emergencies, and understand why certain treatments are necessary.

Instructor: Dustin Housewright

Saturday Courses

8:00 AM - 9:00 AM

MED-844 “What Does That Drug Do?” - Pharmacology for BLS

BLS 14 / ALS 19 / 1.0 CEU

Target Audience : BLS

EMT class covers drugs you are allowed to administer as a BLS provider, but do you really know what that medication is going to do in the patient’s body? This session will explore common BLS medications so the BLS provider can better understand how their treatment is actually helping the patient, and potentially causing harm if used incorrectly. Additionally, some ALS medications and common patient meds will be discussed to improve students’ understanding of how these drugs affect patient outcomes.

Instructor: Mary C Gardner

OPE-928 Bringing Telehealth to Rescue Squad Stations in Patrick County, VA

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Historically, the Virginia State Office of Rural Health (VA-SORH) has prioritized the need to increase access to healthcare services in Virginia’s rural communities. The VA-SORH offers Innovative Rural Programming Awards that bridge small, rural communities to state and federal resources with the goal of developing long-term solutions to address the root causes of access barriers to health. This presentation will highlight the benefits of state and local partnerships, awarding seed funding to implement innovative rural programming and the Healthy Patrick County Rescue Squad Telehealth Project.

Instructor: Sarah N O’Connor

PED-1045 Epiglottitis or Croup? A Case-Based Approach in a Young Child

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS

In the early phases of illness, epiglottitis and croup share many clinical characteristics. Although both cause respiratory distress in children, one isn’t generally serious while the other is potentially life-threatening. Early differentiation between these two types of infections is vital to avoid misdiagnosis and life-threatening acute airway obstruction and peripheral circulatory failure. This case-based session will provide a framework for EMS crews to differentiate between epiglottitis and croup along with current evidence-based treatment recommendations.

Instructor: Kenneth W Navarro

PED-1046 Cardiac Kids: Channelopathies in Youth

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: All

Sudden cardiac arrest is a leading killer in school age children. Many times due to an undetected heart condition. Yet many kids have known heart conditions. Channelopathies are congenital conditions that some children have that can be life threatening. What are Channelopathies? What can we do in EMS to prepare? Bob Page teams up with UVA Pediatric Cardiologist George McDaniel, MD to present a highly informative, case-based session to help you understand these conditions in Children and to become better prepared to handle these kids on the call.

Instructor: Robert E Page

PED-1047 Hot Wheels: Pediatric Vehicular Heat Stroke

BLS 13 / ALS 18 / 1.0 CEU

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

Children love to play with toy car models. What happens when they play with a real car, in the sun? This class will explore the tragic consequences of inquisitive children getting trapped in vehicles they can’t escape or worse, being left behind because they were so quiet someone forgot them. During the summer, temperatures soar quickly causing heat emergencies that can lead to serious organ damage, debilitating injury and death. We’ll look at strategies you can use to reduce these disasters happening in your community with Hot Wheels involved!

Instructor: Rory S Putnam

TRA-1232 Burn Resuscitation-Fluid Resuscitation Beyond Parkland

BLS CAT 2 / 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

9:30 AM - 11:30 AM

ADM-115 Virginia OEMS Agency Inspection - Everything you need to know!

BLS CAT 2 / ALS CAT 2 / 2.0 CEU

Target Audience: Administrators

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

Instructor: Paul Fleenor

9:30 AM - 10:30 AM

CAR-416 Therapeutic Electrocutation: Keep Current on Non-Invasive Pacing

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience : ALS

This is an “electrifying” session that includes hands-on use of external pacers. The course includes an overview of the history of use of pacing, understanding pacer function and troubleshooting problems. The workshop also features outstanding actual case history of TCP use in the field. Included in this talk are interesting ways to teach pacing and how to get others to believe in the effectiveness of this technique. Pacing was removed from the asystole algorithm in 2005. Come find out why and how it can be reinstated!

Instructor: Robert E Page

CAR-417 When Things Get Slow

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience : ALS

This session is talking brady rhythms, blocks, and squiggles on the ECG that make your own heart throw some PVCs. We won’t only review ECG findings, but link them to structural or chemical pathologies to have a richer conversation about treatment modalities. We are going to dive into brady presentations as deep as a pathologic Q wave.

Instructor: Kathleen O’Connor

Saturday Courses

9:30 AM - 10:30 AM

CRI-1120 Don't Fuhgeddaboutit: Sgarbossa's Criteria for Difficult to Diagnose MI with Bundle Branch Blocks and More!

BLS CAT 2 / ALS 17 / 1.0 CEU

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

Ever have one of those days you wished they had covered some of the lesser used items in medic school in more detail...like Sgarbossa's criteria? Yeah they covered it, but how often did you practice it? Do you know the uses and easy ways to calculate it? This class will take a closer look at Sgarbossa's and how it's used to look at MI with bundle branch blocks, pacemakers and other STEMI "mimics" to help you be a better clinician with a solid tool in your cardiac assessment toolbox.

Instructor: Rory S Putnam

EDU-524 What? I Actually Have to Talk to People? Helping EMS Students Learn to Communicate Effectively!

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Educators

Take a look around your classroom, what do you see? Are your students instantly reaching for their iPhones and Androids when released for break? (Or even worse, during class?) Are they upset when email is not returned within seconds or that you actually ask them to call you or come by your office to talk? Have you ever received a written assignment in cryptic text language? This lecture will help you understand the role of social networking, text messaging and modern technological communication tools in the classroom.

Instructor: Bryan F Ericson

EDU-525 Most Everything but THE Kitchen Sink at THE Rocco Morando Building, Columbus, OH

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

The presentation will provide numerous content areas related to the ALS Redesign. Topics to be covered include technology enhanced items, AEMT SMC portfolio, and the Performance Examination.

Instructor: Paul Lee Rosenberger

HEA-619 How to Effectively Conduct a Safety Huddle

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: Administrators

What is a huddle? Its a short, standup meeting, 10 minutes or less, that is typically used once at the start of each shift. The daily huddle gives you and your team a way to maintain a focus on safety and operational resiliency. In this

presentation we will look at the process and tools used for daily huddles.

Instructor: Peter I. Dworsky

LMGT-717 Evidence-Based Guidelines for Prehospital Pain Management

BLS CAT 2 / ALS CAT 2 / 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

LMGT-718 Lawrence on Leadership

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Rob Lawrence has spent 30 years in both military and civilian EMS leadership positions on two continents, he is also a graduate of the UK's Royal Military Academy Sandhurst, one of the world's primer leadership establishments. In this class, he will identify and evaluate key leadership lessons for all to take back and apply in their own organizations. From servant leadership to making big and sometimes ugly decisions, Rob has a roadmap for all on how to lead well.

Instructor: Rob C Lawrence

LMGT-719 Why Just Manage When You Can Lead?

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Administrators

It can be tempting to coast along as an EMS manager, but in today's world you have never been more accountable for your actions than right now. You can no longer afford to just manage your EMS operations; you have to lead your agency into the future. Drawing upon more than 25 years in EMS, with both clinical and managerial responsibilities, Ray will examine some of the common issues EMS leaders face and give the audience an energized analysis of the core elements of being a leader in EMS.

Instructor: Raphael M. Barishansky

MED-845 Breathe Easier Knowing Respiratory Pharmacology

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, Dispatcher, Educators

Did you know that allowing a patient to use one of their own inhalers during an asthma attack can actually hurt them? Shortness of breath calls are among the most common and scary for patients.

Learn which medications correct specific respiratory pathology and which combinations can be dangerous. This session has useful, practical information for all levels of provider.

Instructor: Heather Davis

MIHCP-1407 Be a Paramedic ACE!

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience : ALS, RNs

In a future when integrated mobile healthcare is a reality, paramedics will need to be able to ASSESS, CORRECT and EDUCATE the patient about heart failure. This discussion will include the signs and symptoms of systolic heart failure and diastolic heart failure. We will also talk about both the out-of-hospital and the prehospital care of these patients.

Instructor: Kyle D Bates

OPE-929 Patient Offload and Hospital Wait Times: APOT Run Amok

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

Ambulance Patient Offload Times (APOT) have stretched EMS systems to the breaking point all across the United States. In this timely and important session, national EMS attorney Doug Wolfberg will take a close look at the law and answer the question, "whose patient is it" when an ambulance reaches hospital property, and will discuss unilateral strategies that EMS agencies can employ when hospitals keep ambulance crews for unreasonable periods of time. This session will also address the law related to Emergency Department diversions.

Instructor: Doug Wolfberg

PED-1048 Toxic House, What Children Find 2022

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS

Have you ever been call to a child choking? How about if the dispatch indicates, "child took something". When you arrive on scene and begin to sort out the possibilities you discover that the youngster has ingested something that is not for human consumption, or it is if they were say 68 years of age and 150 pounds! What is it that children so often find, why are they drawn to toxic items, what can EMS do about this?

Instructor: Gary E. Wiemokly

Saturday Courses

9:30 AM - 10:30 AM

TRA-1233 Trauma Informed Care and Underserved Survivors of Violence

BLS 15 / ALS 20 / 1.0 CEU

Target Audience: All

VCU Injury and Violence Prevention Program's Project Empower has worked to successfully integrate violence screening into patient interactions, trained staff and partners, and integrating a Trauma Informed Care component in order to best serve survivors of sexual and domestic violence. Join us as we discuss how these tools have been implemented at VCU and their outcomes, and how you can integrate these approaches to best serve the survivors you encounter in your day-to-day work.

Instructor: Gabriella R Hutchinson

TRA-1234 Farming Accident Response

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, Dispatcher

Farming accidents happen everyday, but are we, as first responders, truly prepared to handle the situation? We will discuss the resource issues, challenges and responsibilities of the responder and describe the various equipment utilized on the farms and the dangers associated with such equipment. This class will concentrate on the importance of preparing for an agricultural accident, the tedious response and appropriate scene management.

Instructor: Sara L Walker

11:00 AM - 12:00 PM

ARV-215 Understanding Pulse Oximetry

BLS 11 / ALS 16 / 1.0 CEU

Target Audience: ALS, BLS, RNs

Pulse oximetry is a common assessment tool used at all levels of medical care and even available over the counter by the lay public. Seems simple enough, put it on their finger and read the numbers, right? But, is there more to it? To use the readings in a clinical setting, we must ask: Why do we measure pulse oximetry? How does the machine work? What does it really tell us? Join Bob Page as he breaks down Pulse Oximetry and realize the full value of this diagnostic tool.

Instructor: Robert E Page

CAR-418 Differential Diagnosis: Bell's Palsy or Stroke

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: ALS, BLS, RNs

Presentation will discuss the process for establishing a differential diagnosis

between the clinical presentation of Bell's Palsy versus Stroke. Explain the differences in the assessment process and observations of signs and symptoms of Bell's Palsy versus Stroke and will explore the treatment differentiations between Bell's Palsy and a Stroke in the prehospital setting.

Instructor: John Todaro

CAR-419 When Stroke Doesn't Look Like Stroke

BLS 12 / ALS 17 / 1.0 CEU

Target Audience: ALS, BLS

On average, someone in the United States suffers a stroke every 45 seconds making it the fifth leading cause of death in this country. Unfortunately, stroke can sometimes present with symptoms unlike the typical presentation. In fact, some patients can be experiencing a significant stroke and still pass the commonly used stroke screen examinations. This presentation will examine the latest advances in the prehospital management of stroke, including the use of mobile stroke units and the management of large vessel occlusion.

Instructor: Kenneth W Navarro

EDU-526 Flipping for the Flipped Classroom

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Educators

Have you heard of the "Flipped Classroom"? I'm here to tell you all about it and the advantages it has for your students and you as an Instructor. In this presentation, we will discuss the advantage of student-centered learning and discuss the incorporation of active learning into your future teaching strategies. We will also describe techniques and various activities you can implement in your classroom. Let's get our students out of their seats and up and learning.

Instructor: Sara L Walker

EDU-527 Evidenced-Based Guidelines Wallop NREMT Examinations and Continued Competency

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

The presentation will deliberate the effort that is being conducted by the Prehospital Consortium Group and NREMT regarding the use of Evidence Based Guidelines when constructing examinations and continued competency requirements. The lesson will conclude with information related to the ongoing Continued Competency Project.

Instructor: Mark Terry

LMGT-720 Leadership and Personnel Development

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, Administrators, BLS, Dispatcher, Educators, MD, DO, RNs
Organizations have ignored the

responsibility to develop personnel for succession planning, and prepare their leaders to lead rather than manage. We will discuss why this is imperative for a high-performing team and the overall success of the organization. Levels of mastery, leadership styles, and organization culture are just a few of the topics we will cover. This program will expand the leadership abilities of personnel, and provide them with insights, skills and the capabilities to help set-up success for your team/organization.

Instructor: Dustin Housewright

LMGT-721 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

MED-846 Annual Infection Control/ OSHA Update - REPEAT

BLS 14 / ALS 19 / 1.0 CEU

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

This speaker will review updated disease and regulatory information regarding OSHA compliance and infection control practices. Learn about what is new since last year and what may be required in the near future. Speaker will clarify VA State OSHA v. Federal OSHA requirements. Attendance at this session will meet your annual training requirement.

Instructor: Katherine H West

MED-847 Syncope! All My Consciousness Fell Out of Me!

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, MD, DO

Loss of consciousness can occur in all ages for many reasons. Fortunately, many are benign, however in some patients, more serious pathology exists. Causes range from dehydration to pulmonary embolus, from psychogenic to GI bleeding. In this interactive session, we'll discuss the red flags that potentially indicate a serious cause for syncope.

Instructor: Jeff Myers

Saturday Courses

11:00 AM - 12:00 PM

MED-848 A Breathtaking Experience (Anaphylaxis and Angioedema)

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS

Sometimes people discover they are allergic and it's a breathtaking experience! Fortunately for them, you attended this lecture and know how to start them back on the path to breathing easy again. We will be providing a brief overview of the clinical spectrum of allergies from allergic reaction all the way to anaphylactic shock and what you can do to practice in an evidenced-based method.

Instructor: Cara M Jackson

MED-849 What Size Batteries Does Your Patient Take? Patient Assessment Technology Pearls and Pitfalls

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

Technology has become all too commonplace in the practice of EMS. How many of us really remember EMS practice without them? The problem develops when we rely on these technologies and forget to really look at our patients. One of the EMS provider's most basic skills is the ability to assess patients. By having some fun and going back to the basics in our approach, we can build on and enhance this critical skill making us all more skilled and proficient EMS Professionals!

Instructor: Bryan F Ericson

MED-850 Home Medication Heartache

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, Dispatcher, Educators

It seems there is a pill for every illness. Knowing which medications to use in a prehospital emergency is one thing, but understanding the thousands of medications used at home by patients and their interactions is quite another feat! This session will focus on the mechanism of action of cardiac drugs by class in order to ensure participants leave with knowledge of the most common drugs and most lethal drug interactions in the field. This session has pearls of wisdom for all levels of providers.

Instructor: Heather Davis

OPE-930 How to Initiate Change in EMS

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: ALS, BLS

Healthcare is always evolving and EMS is no different. As EMS providers, we play a critical role in the initial care of patients. This class will review how to initiate change in an EMS system based on chart review, quality assurance findings, and

evidence-based research. We will discuss how to find, review, and understand research to prompt updates in processes and protocols for your agency. This class will help you build confidence to make evidence-based decisions to improve the care we deliver to our patients.

Instructor: Kellie H Lavine

OPE-931 PPE: The Missing Piece

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Every year, the number of fatalities and serious injury to first responders struck by vehicles working along the highway continues to rise. First responders are being struck by a vehicle or flying debris while at the scene of an emergency incident. We will examine the frequency of incidents, and the current research being done to emphasize the need for responders to consider adding an approved helmet to their personal equipment in use at highway scenes. Reviewing steps that sporting organizations have taken, how can that be applied to EMS.

Instructor: Robert E Bemis

PED-1049 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

TRA-1235 Inhalation Injury and Burn Airway Management

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS

Inhalation injury is often associated with early intubation for upper airway edema, but it is actually subdivided into three categories: above the cords, below the cords and systemic poisoning. These separate injuries bring some unique challenges and pitfalls for prehospital and 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

TRA-1236 Heavy Truck Rescue April 2021 - How Training, Teamwork and Lack of Egos Made for a Successful Outcome

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: All

On April 29, 2021 two heavy trucks collided requiring an extensive extrication plan. Early requests for additional resources, established relationships and well trained personnel all came together to achieve a successful outcome. Come join a case review discussion on the incident details and how to set your department up for success when dispatched to similar incidents.

Instructor: Christopher H Jett

1:30 PM - 2:30 PM

CAR-420 PEA? A More Pragmatic Approach to Care Than ACLS

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience: ALS, RNs

Pulseless Electrical Activity is a code rhythm met with much angst. If we could only get a pulse to match that complex! Perhaps the problem is the approach to resuscitation. Rather than take the standard ACLS H's and T's approach, it may be more advantageous to separate causes based on ECG complex!

Instructor: Kyle D Bates

CAR-421 Demystifying Pacemakers

BLS CAT 2 / ALS 17 / 1.0 CEU

Target Audience: ALS

We have all had patients who have pacemakers/AICD. These devices are getting smaller each year and are much more prevalent than they were 15 years ago. But how do they work? What does the magnet really do? What happens when the AICD fires? In this interactive session we will explore the inner workings and practical information about pacemakers and AICDs that will be invaluable to your EMS practice.

Instructor: Jeff Myers

CAR-422 It Hit Me Like a Hammer: Commotio Cordis

BLS 12 / ALS 17 / 1.0 CEU

Target Audience : ALS, BLS

It's a hit...and he's gone! Ever been faced with a situation where a patient took a hard hit on a ballfield or hockey game and the next thing you knew you were doing CPR? This class will more closely examine Commotio Cordis, an unfortunate rare event that occurs when a physical stimuli interrupts the heart's electrical firing and causes sudden cardiac arrest. We'll look at the mechanics of what causes it, statistics behind it's occurrence and of course, talk how we can prevent this from causing your next patient.

Instructor: Rory S Putnam

Saturday Courses

1:30 PM - 2:30 PM

CRI-1121 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! 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

EDU-528 Most Everything but THE Kitchen Sink - Part 2 - Q&A Session

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: Administrators, All, Educators

Building on the first lecture, Scott Vanderkooi, Program Director at Blue Ridge Community College will join Paul Rosenberger and share his perspective after having a first-hand experience in Columbus related to the ALS Redesign. Topics to be covered include technology enhanced items, AEMT SMC portfolio, and the Performance Examination.

Instructor: Paul L Rosenberger

EDU-529 Applying the Science of Learning

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience : Administrators, Educators

Educational psychologist have determined how best to teach for maximum retention. Come learn how to apply these simple principles to your teaching of any topic at any level. We'll address concepts such as cognitive load, guided practice, scaffolding, and distributed practice in a way that allows you to implement small but powerful changes in your very next class!

Instructor: Heather Davis

HEA-620 A Systems Approach to Resiliency

BLS 15 / ALS 20 / 1.0 CEU

Target Audience : All

Critical incidents are dynamic, challenging, and have the potential to deteriorate rapidly. A famous quote states; "90% of the game is mental". This training will adapt the latest evidence-based training in personal resiliency, neuroscience research, and sports performance training to low frequency/high threat critical incidents. This training will provide

practical demonstrations of tactics, strategies, and proven everyday mental performance skills, which will enhance and sustain emergency incident operations, throughout a first responders career.

Instructor: Barry Jacobs

LMGT-722 KAPE - Keeping Your Agency in the Public Eye

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

KAPE - Keeping your Agency in the Public Eye - It is a fact that it takes 10 good news stories to trump the one bad story. In the age of social media and the 24-hour news cycle, generating content and positive stories is now a full-time job. The class will look at how to generate news, when social media isn't that social, and campaigns that promote organizational awareness and boost morale. Rob will highlight techniques for both internal and external communication success using every platform available.

Instructor: Rob C Lawrence

LMGT-723 Green Thumb Leadership - How to Grow Your Personnel to Success

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Leaders are responsible for growing personnel to their full potential. Each person, just like items in your garden, has their own set of needs to achieve their goals. Put on some work clothes and come join the discussion on how to maximize your harvest. Don't forget your tool cart to add new ones or to knock the rust off of some old ones you haven't used in awhile.

Instructor: Christopher H Jett

LMGT-724 When You Fail to Plan, You Plan to Fail: Understanding Strategic Planning for EMS Agencies

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience : Administrators

Many EMS agencies, be they career or volunteer, municipal or commercial, are mired in the "here and now" with little attention paid to the future. Rational, well planned and thought out strategic plans, with input from all levels of the organization, can help make the future less frightening and put EMS agencies on the right road for success. Developing all the vital components of a strategic plan - a SWOT analysis and identification of goals and objectives as well as implementation tips will be reviewed.

Instructor: Raphael M. Barishansky

MED-851 Ketamine, Cops and Criminal Charges: the Cautionary Tale of the Elijah McClain Case

BLS 14 / ALS 19 / 1.0 CEU

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

The criminal charges against two paramedics in the high-profile case surrounding the in-custody ketamine death of Elijah McClain sent shock waves through the EMS profession. In this important and insightful session, national EMS attorney Doug Wolfberg looks at how EMS interactions with law enforcement and combative patients can result in a difficult situation for EMS practitioners - and even lead to homicide charges and other criminal actions against EMS providers. We'll take an in-depth look at what went wrong in this critical case, and how to prevent similar issues.

Instructor: Doug Wolfberg

MED-852 Perfusion Confusion

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS

Pathophysiology can be a complex and confusing topic. Understanding the connection between the cardiovascular, respiratory, and nervous systems is essential to understanding how the body attempts to maintain adequate perfusion in the presence of illness or injury. This session will explore the relationships between these systems and teach students to identify evidence of impaired perfusion, as well as predict whether a patient is likely to experience a decrease in perfusion.

Instructor: Mary C Gardner

MED-853 Complications of Pregnancy

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS, RNs

This Complications of Pregnancy presentation will cover, the pathophysiology of complications such as placenta previa, abruptio placenta, hypertensive disorders of pregnancy, uterine rupture, miscarriage/abortion and ectopic pregnancy, as well as the assessment and potential treatment of each of these complications which may be seen in the prehospital setting.

Instructor: John Todaro

Saturday Courses

1:30 PM - 2:30 PM

MED-854 How COVID-19 Has Affected EMS Today and the Future

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

COVID-19 pandemic has been the worldwide crisis of the past couple of years. It took us all by storm and in many cases, caught the health care industry unprepared. EMS personnel were on the front lines of the pandemic and performed admirably with insufficient and even conflicted information about the disease. Sadly, a million Americans died. What have we learned from this? What long lasting changes are we doing now and in the future. After interviewing providers all over the Commonwealth and beyond, Bob has an after action report!

Instructor: Robert E Page

TRA-1237 Under Pressure, Assessment and Management of Head Trauma

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, RNs

In this lecture we will review the different types, causes and treatments of head injuries in the field. We will look at the common causes of major head trauma from axonal injuries to trauma bleeds and discuss treatment modalities and how they work as well as common pitfalls to avoid during transport.

Instructor: Ellis S Bingley

TRA-1238 Trauma Informed Care and Underserved Survivors of Violence

BLS 15 / ALS 20 / 1.0 CEU

Target Audience : All

VCU Injury and Violence Prevention Program's Project Empower has worked to successfully integrate violence screening into patient interactions, trained staff and partners, and integrating a Trauma Informed Care component in order to best serve survivors of sexual and domestic violence. Join us as we discuss how these tools have been implemented at VCU and their outcomes, and how you can integrate these approaches to best serve the survivors you encounter in your day-to-day work.

Instructor: Gabriella R Hutchinson

3:00 PM - 5:00 PM

CAR-423 CSI (Cardiac Scene Investigation): Easy Cardiology for EMS

BLS CAT 2 / ALS 17 / 2.0 CEU

Target Audience: BLS, Educators, RNs

Cardiology is a subject that can challenge even the best of providers. There are

so many variables, imposters and components to be deciphered. Being good at cardiology is a bit like detective work. CSI EMS will investigate the details of cardiology and teach you how to simplify interpretation, go over rules and algorithms for diagnosis, refresh your memory on setting up 4 and 12 lead EKGs and cover 15 and 18 leads EKGs which are pivotal to diagnosing R sided and posterior MI's. Learn new tools to effective diagnosis!

Instructor: Rory S Putnam

HEA-621 First Responder Mental Health

BLS 14 / ALS 19 / 2.0 CEU

Target Audience: All

This is an awareness level course on the affects mental health has on first responders. Topics include: Mental Health issues, causes and the stigma surrounding it; signs, symptoms, and treatment of Stress, PTSD, Depression, Anxiety, Substance Abuse; and how peer support can help. We will identify resources that are available and how to access them.

Instructor: John P Gannon

Co-Instructor(s): Berkeley Gannon

HEA-622 A Second is a Hell of a Long Time

BLS 15 / ALS 20 / 2.0 CEU

Target Audience: All

Incidents are dynamic, which is to say that incident operations and management must be dynamic as well. In this course, EMS Providers, Company officers and Incident Commanders will explore how to stay one step ahead of the rapidly changing incident conditions. Though the use of sports and performance psychology company officers, incident commanders and individual EMS providers can improve their situational awareness, rapid pattern recognition, critical decision making and sustain their performance at the very second they need it the most; before the close call or near miss happens.

Instructor: Barry Jacobs

Co-Instructor(s): Will Fairhurst

MED-855 Encephalopathy, Down the Rabbit Hole

BLS 14 / ALS 19 / 2.0 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: Billy Gene Mcdaniel

OPE-932 Forged in Scars and Stripes

BLS 15 / ALS 20 / 2.0 CEU

Target Audience: All

Sergeant Bemis shares the story of his journey from a disadvantaged youth, to prestigious service in the U.S. Marine Corps, and on to an accomplished career with the Pennsylvania State Police that was abruptly altered by one act of service. The story provides his account of being injured in the line of duty; the emergency response; the long recovery and living with a spinal injury; the overwhelming agency, peer and community support; and finally, the highs and lows of returning to his role as a Trooper.

Instructor: Robert E Bemis

3:00 PM - 4:00 PM

EDU-530 Standard Setting for High Stakes Exams

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

Choosing a cut score from thin air or based on an institutional history of "70% is passing here" does not cut it anymore. One or more methods must be used to arrive at an appropriate cut score for high stakes exams. Come learn how to utilize this process to ensure you are not penalizing students or employees for performance that is actually well within normal limits, dismissing people who have potential, or creating liability when you cannot defend decisions around the cut score for either written or performance exams.

Instructor: Heather Davis

HEA-623 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

Saturday Courses

3:00 PM - 4:00 PM

LMGT-725 All Those in Favor - Politics 101

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

Target Audience: All

Everyone in EMS must be a politician in order to ensure change occurs in EMS from locality to the nation. Everyone must get in front of their elected officials to tell their story at the local board of supervisors, the statehouse, and on the Federal Hill. Rob Lawrence will identify who needs to do what and how to go about doing it and tell you how to ensure those four important political words - "All Those in Favor" vote carries for and not against you.

Instructor: Rob C Lawrence

LMGT-726 New EMS Liability Case Studies

BLS CAT 2 / ALS CAT 2 / 1.0 CEU

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

EMS court case studies are always of high interest to Symposium attendees. In this session, nationally known EMS attorney Doug Wolfberg will present several new cases where EMS providers and agencies ended up in court. Most importantly, in each case we will explore "lessons learned" so that others can learn from the hard lessons presented in these cases. This session is always good for eye-opening and rigorous debate on the issues!

Instructor: Doug Wolfberg

MED-856 Hoofbeats...? Are Those Zebras?

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: All

"When you hear hoofbeats, don't expect to see zebras." This is an age old medical adage to remind medical providers to think logically when it comes to differential diagnoses of their patients. But what about those pesky hidden zebras? This class will cover multiple "benign" patient chief complaints or symptoms that can and should be investigated by us as EMS providers in order to avoid the patient having a potentially poor outcome from not seeking care.

Instructor: Molly E Karabinus

MED-857 Stethoscopy: The Next Generation

BLS 11 / ALS 16 / 1.0 CEU

Target Audience: All

The stethoscope was invented in 1816. It's the symbol of the medical professional. It's used as a patient assessment tool for blood pressures, breath sounds, heart tones and more. But newer technologies

such as NIBP and Capnography are being used. Heart tones are rarely taught or appreciated. So, is the stethoscope still relevant? Recent introduction of digital stethoscopes come with the ability to record and produce waveforms called phonocardiography. Leave to state educator and stethoscopy instructor Bob Page to be all over it. Come and learn about this new technology!

Instructor: Robert E Page

MED-858 Cannabis Hyperemesis Syndrome

BLS 14 / ALS 19 / 1.0 CEU

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

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

Instructor: Jeff Myers

PED-1050 ABCs of KIDz: Supporting Critical Life Functions

BLS 14 / ALS 19 / 1.0 CEU

Target Audience: ALS, BLS

Many of us were taught that kids were just "little adults" but have come to realize that this is not true. The anatomy and physiology of children are different and understanding this will allow providers to be successful in managing pediatric patients with medical and traumatic injuries. This case-based presentation addresses those differences along with management techniques.

Instructor: Kyle David Bates

TRA-1239 Farming Accident Response

BLS 13 / ALS 18 / 1.0 CEU

Target Audience: ALS, BLS, Dispatcher

Farming accidents happen everyday, but are we, as first responders, truly prepared to handle the situation? We will discuss the resource issues, challenges and responsibilities of the responder and describe the various equipment utilized on the farms and the dangers associated with such equipment. This class will concentrate on the importance of preparing for an agricultural accident, the tedious response and appropriate scene management.

Instructor: Sara L Walker

Sunday Courses

9:00 AM - 11:00 AM

MED-859 How to Learn Pharmacology

BLS 14 / ALS 19 / 2.0 CEU

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

Learning the hundreds of drugs encountered in EMS on patient calls seems nearly impossible to students, and teaching them is often painful to instructors. This presenter has developed a method of teaching that includes a schedule, lesson plans, guided practice, quizzes and a memory and classification system for students and instructors. If teaching (or learning) pharmacology is your responsibility, than this session is a must!

Instructor: Heather Davis

MED-860 Infection Control Update Interactive!

BLS 14 / ALS 19 / 2.0 CEU

Target Audience: All

The latest in the series of Sunday Morning Super Sessions, Bob has put together an all new, Infection Control Update (required annually by OSHA) but in an interactive game show format. This session will cover what you need to know to be updated, knowledge to keep you safe, and more fun items. So come, bring your tea or coffee, do the update, learn new things and have some fun! Note: having your phone with you will allow you to fully participate.

Instructor: Robert E Page

MED-861 EMS Approach to Patients on the Autism Spectrum

BLS 14 / ALS 19 / 2.0 CEU

Target Audience: ALS, BLS, Dispatcher, Educators

Patients on the autism spectrum are not always identified by appearance alone. This course will guide the participants through the process of identifying patients with autism spectrum disorder. We will discuss the many, unique characteristics most commonly seen in ASD patients and how we, as EMS professionals, can properly care for and treat our ASD patients. What works for one ASD patient, may not work for another. We will discuss strategies for patient care and de-escalating techniques. Let's be better providers for our ASD patients.

Instructor: Sara L Walker

Sunday Courses

9:00 AM - 11:00 AM

PED-1051 Pediatric Toxicology

BLS 14 / ALS 19 / 2.0 CEU

Target Audience: All

In this session we will discuss the causes and prevention strategies of the poisoned child. We will also review the toxidromes of common and potential toxic exposures (including common chemicals found in the home) for the pediatric patient; including a discussion on the approach, assessment and management of the child with a toxic exposure.

Instructor: Billy Gene McDaniel

TRA-1240 Mechanism of Injury of Idiocy?

BLS 13 / ALS 18 / 2.0 CEU

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

Recent discussions seem to downplay the importance once placed on "mechanism of injury" (MOI) and more on patient assessment. Nowhere is this more evident than through the Trauma Triage Protocol published by the CDC. This lively and interactive case-based presentation will address how MOI should be used in combination with a thorough patient assessment and history of present injury to make decisions on patient treatment, transport, and destination.

Instructor: Kyle David Bates

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