

| CEU HR | DAY | DATE | TIME | EDUCATIONAL EVENT | NCCR AREA | PRESENTER | | |
|--------|----------|-----------|------------|-------------------|--|------------------------|--------------------------------|--|
| 1 | THURSDAY | 9/21/2023 | 9:00 AM | 10:00 AM | Topic: CO = HR x SV, The important formula for EMS | MEDICAL BLS#14 ALS #19 | Jeff McPherson, Chris Lawrence | The audience will understand the importance of this formula in a Medical and Trauma patient scenario. The audience will gain a good understanding of obtaining the numbers of the formula and gain a knowledge of cardiac output for your patient. The audience will also gain an understanding of how cardiac output is used in another formula for blood pressure. We will also highlight some of the cardiac diseases that affect a patient's cardiac output and ejection fraction. |
| 1 | THURSDAY | 9/21/2023 | 10:00AM | 11:00 AM | Intracranial Pressure, is it Medical or Trauma or both? | TRAUMA BLS#13 ALS #18 | Jeff McPherson, Chris Lawrence | We will review the basic anatomy of the cranium and the brain, then discuss the different brain bleeds that can happen from medical and trauma conditions. We will display normal and abnormal signs and symptoms of the ICP patient, so the provider can understand the difference. We will discuss the formula CPP=MAP-ICP and discuss the effect these changes have on the brain. |
| 1 | THURSDAY | 9/21/2023 | 11:00 AM | 2:00 NOON | Knowing the Norms, to know when your patient is abnormal | MEDICAL BLS#14 ALS #19 | Jeff McPherson, Chris Lawrence | The audience will review the normal (typical) values of patients gathered from your primary to your secondary survey. We will discuss medical conditions when your patient's vitals are abnormal but correct for their condition. This will be a great review and discussion for new and renewing providers. We will also discuss situations when the patient's vital signs are abnormal to allow the provider to ask additional questions. |
| | THURSDAY | 9/21/2023 | 12:00 NOON | 1:00 PM | LUNCH | | | |
| 1 | THURSDAY | 9/21/2023 | 1:00 PM | 2:00 PM | Mean Arterial Pressure, What does it mean? | MEDICAL BLS#14 ALS #19 | Jeff McPherson, Chris Lawrence | The audience will gain strong knowledge of why knowing the mean arterial pressure (MAP) on your patients is important in Trauma and Medical situations. The audience will understand how to calculate the MAP from the blood pressure and realize why it may be a better indicator of perfusion to vital organs than systolic blood pressure (SBP). We will also discuss the relationship between MAP and Cardiac Output (CO). |
| 2 | THURSDAY | 9/21/2023 | 2:00 PM | 4:00 PM | NO Perfusion, NO Diffusion | MEDICAL BLS#14 ALS #19 | Jeff McPherson, Chris Lawrence | This lecture will review the anatomy and physiology of the organs needed for diffusion and perfusion including the heart, lungs, and blood. We will also discuss and review irregularities of the heart such as tachycardia, bradycardia and with lung irregularities such as ARDS, COPD, Asthma, etc. and yes, we have to include internal and external hemorrhage. Without blood, nothing goes round and round. |
| 2 | FRIDAY | 9/22/2023 | 9:00 AM | 11:00 AM | Tension Pneumothorax: When you don't hear lung sounds | TRAUMA BLS#13 ALS #18 | Jeff McPherson, Chris Lawrence | 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. |
| 2 | FRIDAY | 9/22/2023 | 1:00 PM | 3:00 PM | Tactical EMS, Tools in the toolbox | TRAUMA BLS#13 ALS #18 | Jeff McPherson, Chris Lawrence | 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 mannikins. 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. |