

Dane County EMS Newsletter

December, 2021



CPR Spotlight

The first standout high-performance CPR case takes place with the crew of Sun Prairie Medic 71. With the help of Sun Prairie Fire, Paramedics Arvizu and Kleinshmidt worked to provide high-performance CPR and ACLS resuscitation. This incident was an outstanding example of multiple responders working together to provide a smooth and effective resuscitation. Great work to all involved! Highlights of this case to note for those involved include:



- A chest compression fraction of 97%
- Zero pauses lasting longer than 10 seconds
- LUCAS deployment in under 10 seconds
- Monitor charged prior to every rhythm check

A second recent standout case comes from the City of Madison Fire Department. The crew of Medic 7 (Jones & Kinkade) and Engine 7 (Dietzel, Villanueva, Larson, & Raddatz) demonstrated their ability to execute a high-performance CPR resuscitation with the following highlights:



- A chest compression fraction of 97.6%
- Zero pauses lasting longer than 10 seconds
- Excellent rate and depth control
- Monitor charged prior to every rhythm check

There have been 290 cardiac arrest summaries sent to crews for 2021 incidents. Even if a case you were involved in was not featured in this newsletter, know that the work you do does not go unnoticed! Thank you to all first responders in and around Dane County for your hard work and dedication to providing excellent cardiac arrest care to victims of cardiac arrest! Do you have a high-performance CPR case you would like to see covered in a future newsletter? Email anderson.eric@countyofdane.com with your submissions!

December Viz Quiz

- You're dispatched to a local homeless shelter for a patient with feet pain
- Upon arrival you find a patient who states their feet have been excruciatingly painful over the last couple days. They were going to try and walk to the ER, but could not do so because of the pain.
- This is their first night in the homeless shelter and have been sleeping outside with little to no shelter the last couple of nights while it has been close to freezing temperatures.
- Once in the back of the ambulance while doing an exam, you find that the shoes they are wearing are thin-soled. The patient has multiple socks on, though they are moist. Dorsalis pedis pulses are palpable, though they are having paresthesias bilaterally (which are new). They describe the pain as a burning sensation all over their feet.
- This is what they look like on exam



What do you think is going on?

- A. Mild hypothermia
- B. Diabetic neuropathy
- C. Trench foot
- D. Ischemic foot

Submit your answers at <https://www.surveymonkey.com/r/R58WXSZ> for the chance to win a prize!

November Viz Quiz Follow-Up

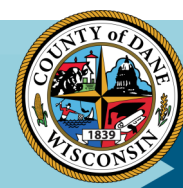
Answer: C. High and tight, as proximal to the wound as you can

Per protocols, place tourniquet high and tight, as proximal to the wound as you can. Do not go over joints or bony prominences. Minimum of 2" above the wound.

Congratulations to Isaack from Sun Prairie Fire & Rescue for winning the November Viz Quiz!

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Case Study

Case: You are called out for a 26C1, sick person. The mother called stating that her 2 year old has been screaming for the past 15 minutes and is not consolable. She was out playing with her siblings in the snow, sledding. Her older sibling brought her in the house because she was just sitting in the snow crying. The mother undressed her but there was no change in behavior. When you examine her, her extremities are cold to the touch, red, appear slightly swollen, and she tries to pull away any time you touch her. There are no other signs of obvious trauma.

Kids are More Susceptible to Hypothermia

Hypothermia is a significant public health issue - In the US, an average of 1,301 people die each year due to hypothermia.

- Kids are dependent upon adults to help protect them and prevent exposure
- Their relatively large surface area to body mass leads to greater heat loss
- Have a paucity of subcutaneous tissue to insulate them
- Submersion events in cold water account for most accidental cases of hypothermia in older children

<https://pedemmorsels.com/hypothermia/>

While I am Cool... kids should never be as Cold as I am.



Spotlight

Captain Jen Román has worked for Madison Fire for 23 years and has been teaching EMS students at Madison College for 28 years. Captain Román has also been an active volunteer for the Girl Scouts for 32 years, helping shape young girls and women. Combining her passions of teaching, public safety, and empowering women, she co-founded CampHERO, an experience offered for young girls to learn skills associated with fire, EMS, and law enforcement. In 2018 she was honored in Washington, D.C. at the Jefferson Awards for her efforts to establish this initiative and address the gender gap in these fields. This month, Captain Román will be retiring from Madison Fire as a Training Captain and from Madison College as the EMS Program Director. We wish her a very happy retirement and best wishes for all her future endeavors!

HPCPR – Case Vignette of the Month

Case Study: You are paged to a 20D1 for an 82 year-old female that was found by her son lying in a snow pile in her backyard. She is not responsive and not breathing, and the tele-communicator initiated bystander CPR. Upon your arrival, you find an elderly female appearing frail, barefoot, and dressed in thin pajamas on the ground in the snow receiving compressions from an officer.

Discussion:

- How does the patient being hypothermic impact your management of suspected cardiac arrest?
- Would this patient be a potential candidate for ECMO? What criteria should be considered to determine this? When in the arrest is it best to contact ECMO center of a potential candidate?
- What additional considerations are there in regards to where you work the arrest, disposition/termination criteria or overall management of the cardiac arrest?

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Protocol Quiz

Want to test your Dane County EMS Protocol knowledge? The newsletter will feature a different topic each month for members to test their familiarity with the protocols. This month's topic is ECMO. Take the quiz [here!](#) For more information on this topic or for correct answers, reach out to our office or your agency's training director.

Happy Holidays and a Happy New Year to All!

Thank you for reading! For questions, comments, or feedback you can contact the DCEMS office at dcems@countyofdane.com or by calling 335-8228. All other staff contact information can be found at em.countyofdane.com/EMS/contactus.