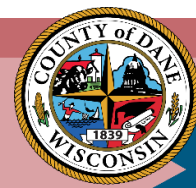


Dane County EMS Newsletter

July, 2021



Sign up to receive Alerts from Dane County

Emergency alerts and notifications via

Phone call, text message, email and social media



Dane County Emergency Telephone Notification is the official emergency notification system used by Dane County first response agencies to communicate with community members during emergencies. Sign up now to receive free alerts via text message, email, and/or voice message.

- Add your addresses (home, work, school) to receive geo-targeted alerts
- Indicate what types of alerts you want to receive, including weather, evacuation orders, armed person/active shooter, hazardous materials incidents, gas leaks, missing persons, and more.
- Indicate how you want to be notified: text, email, and/or voice message.

Sign up to receive emergency notifications [here](#).

July Viz Quiz

You're dispatched to the local campground at 0030 for a 21 y/o who sustained significant burns. While goofing around the campfire, the patient accidentally fell into the smoldering fire, sustaining the following burns of varying degrees:



1st degree to dorsum of both hands



3rd degree burns to entire back



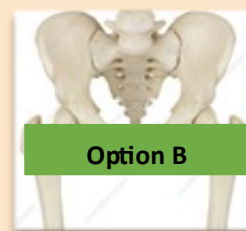
2nd degree burns to entire back of the left upper arm and back of the left thigh

What is the total body surface area (percentage) covered by significant burns using the Rule of Nines? Submit your answer [here](#). Congrats to Kris from Monona Fire and EMS for winning the June Viz Quiz!

✦ Reach out to the UW Burn Program Manager, Lori Mickelson to request further information and/or education at: lmickelson@uwhealth.org or 608-263-8024 ✦

June Follow-Up

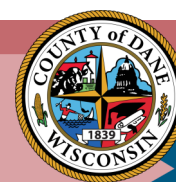
- Pelvic binders should be placed across the greater trochanters (typically lower than where people place them since most people will place them across the iliac crests)
- The purpose of a pelvic binder is to help stop any bleeding that may occur internally from an "open book" pelvic fracture (seen below). These fractures can cause significant internal bleeding due to shearing of blood vessels along the pelvic floor causing blood to pool in the pelvis
- Using the pelvic binder can help tamponade the bleeding



Option B

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Case Study

Case: You're called for a 62 year-old female with previous medical history of Bipolar disorder, diabetes, and hyperthyroidism. She is found by her daughter in her apartment, altered with complaints of headache, muscle aches, and EMS reported that the apartment felt really warm with no air conditioning and their field temperature was 104.6F.

With warmer summer temperatures, we may see an increase in patients suffering from hyperthermic syndromes. Heat stroke is a life-threatening emergency in which there is a failure of the body's thermoregulatory mechanisms due to excessive heat production and/or inadequate heat dissipation. This failure of thermoregulation leads to multi-system organ dysfunction and rapid cooling is critical. However, keep your differential broad as many different causes of a presentation like this can exist!

Differential Diagnosis to consider:

- Heat related illness (heat exhaustion, heat stroke)
- Sepsis
- Sympathomimetic intoxication (sweating usually present)
- Anticholinergic intoxication (sweating absent)
- Sedative-hypnotic withdrawal
- Serotonin toxicity
- Malignant hyperthermia
- Neuroleptic malignant syndrome
- Severe decompensated hyperthyroidism (i.e. thyroid storm)

Check out this month's protocol quiz to further explore management of hyperthermic patients!

Source: <https://rebelem.com/hyperthermia-syndromes/>

Open Mic

Dr. Kacey Kronenfeld has been working with EMS in Dane County for 4 years. Some fun facts about her:

- Her teen years were spent working as a small animal vet assistant and are the reason she continued into medicine
- She learned how to start IVs on rat tails
- While 36 weeks pregnant with her third child, she was working medical pit row at the Indianapolis 500 and nearly got hit by a flying tire (she's one of the two blue fire suits/white helmets in the video https://www.youtube.com/watch?v=9eS6_jwRiOM)



Heat Data

The Dane County 911 center has dispatched 39 heat related EMS calls in 2021, with 29 occurring within a four week period. This is a 70% increase compared to the same time in 2020, and 116% higher than 2019 heat exposure incidents.

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 protocols. This month's topic is Hyperthermia. 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.

HPCPR – Case Vignette of the Month

You are paged to a 31-D unconscious person with ineffective breathing. CAD notes the patient is a 68F that was with husband at grandson's baseball game. She passed out in the stands after they had been watching him play in a tournament for the past few hours. Of note, the current weather is 90 degrees F and sunny. It is 4pm in the afternoon. Upon arrival, you find the patient on the ground in a field surrounded by a crowd of people. Your patient is not responsive, not breathing, and you do not palpate a pulse. HPCPR is initiated, and the medical history obtained from the husband includes that she has depression and was recently started on a new medication, as well as a history of hypertension.

Discussion:

- How might this situation impact your planning and role designation prior to arrival?
- Any reversible causes of cardiac arrest to consider in this case?
- How might the location of your patient impact your implementation of high performance CPR?

Upcoming Events and Training

7/15, 6:30pm - SSM Health Month Training - The ABCs of Trauma

Register at bit.ly/ssmemstraining

7/19, 8am - SSM Health ACLS Update Course

Register at <http://bit.ly/ssmemsACLSupdate>

7/20, 6pm - UW Health Summer Burn Emergencies

Register at uwhealth.org/burneducation

7/24, 8am - DCEMS Driving Range

Register through your Director or Training Director

If issues are encountered with hyperlinks, copy and paste URL into browser.

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.