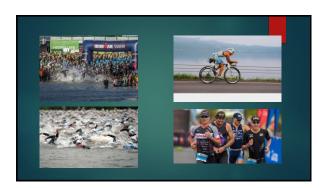
## Ultra Athlete: A Spectrum of Medical Emergencies

### Conflict of Interest There are no conflicts of interest identified There are no financial conflicts of interest

### Identify electrolyte abnormalities and fueling hydration issues that may result in collapse of the endurance athlete Describe GI emergencies of athletes during endurance events Recognize exercise-induced anaphylaxis causes and management





















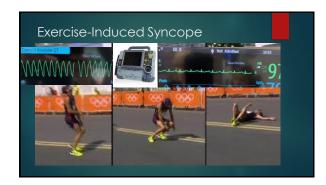


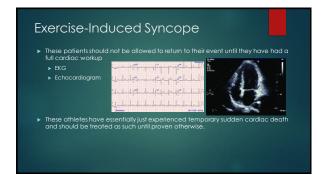


# The Collapsed Runner Cardiac Arrest: Patients in their 20-30s structural abnormalities and arrhythmias Patients in their upper 40s with unaliagnosed heart disease CPR and delibrillator Most events don't have defibrillators, call EMS

### Exercise-Induced Syncope Two categories Syncope during exercise Syncope after exercise ANUTRA WARATHON WONT KILLYOU YOUL PASS OUT









### Death in Triathlon

- - 11 deaths from other causes
    17 successful resuscitations



### Triathlon Deaths 90 in the swim

### Cardiovascular risk is 3.5 times less in women triathletes compared to male triathletes

### Unique Rules of Endurance Events

- ▶ If an athlete doesn't get him/herself over the finish line he/she does not register a time

- Athletes cannot be forced to quit a race
   Medical personnel can strongly encourage participants to stop







# Exercise Anaphylaxis ➤ Presents with urticaria, wheezing, nausea, hypotension, foreign body sensation in the throat, dyspnea ➤ Identical to anaphylaxis ➤ Treatment is the same Lass of consciousness Hes Swelling of tongue, inability to swelling of throat tissues

### Anaphylaxis Treatment • Epinephrine • Adjunctive therapy • Benadry! • H2 Blockers • Steroids

### References Exercise Induced Anaphylaxis [Audio blog interview]. (2018, October). Retrieved January. 2019, from <a href="https://www.emrap.org">www.emrap.org</a> Exercise Induced Hyponatremia [Audio blog interview]. (2016, September). Retrieved January. 2019, from <a href="https://www.emrap.org">www.emrap.org</a> Exercise Induced Syncope [Audio blog interview]. (2014, February). Retrieved January, 2019, from <a href="https://www.emrap.org">www.emrap.org</a> Los Angeles Marathon Clinical Lessons [Audio blog interview]. (2015, March). Retrieved January, 2019, from <a href="https://www.emrap.org">www.emrap.org</a> Scherf, K. A., Brockow, K., Biedermann, T., Koehler, P., & Wieser, H. (2016). Wheat-dependent exercise-induced anaphyloxis. Clinical and Experimental Allergy, 46(1), 10-20, Retrieved January, 2019.

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Questions?			
▶ ("Dumb" questions are easier to answer)	600		
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