Toxicology Case Conference

Thursday, June 23, 2022

Location: 5th Floor Conference Room/Zoom

Time: 1:30-3:00 PM

Leaders: Bourgeois/Marraffa

***Cases for Discussion***

**Case 1**: 52 year old female presents to the emergency department with complaints of increasing fatigue and shortness of breath. She reports these symptoms have been worsening over the past 4 weeks after a recent dose change of her medication. Vital signs include a blood pressure of 122/67 mmHg; heart rate 107 beats/minute; Respiratory rate 19 breaths/minute; 87% saturation on 2 L NC and afebrile. Of note, she has perioral cyanosis.

Questions:  
1. What is the differential diagnosis in this patient?   
2. What definitive test would you like to order?   
3. Based on your differential diagnosis and results of the definitive test, what are causes of this?   
4. What treatment would you initiate and why?

**Case 2:** 66 year old male presents to the emergency department with chief complaint of snake bite. HPI: He was hiking in the Hudson Valley region of New York and he felt a sharp pain on his ankle. He saw a snake slithering away and he states that he heard a ‘rattle’. He is complaining of 9/10 pain in his lower extremity. Vital signs include: Heart rate 70 beats per minute; blood pressure 120/72 mmHg; Respiratory rate of 19 breaths per minute and 99% saturation on room air. Physical exam reveals edema and erythema to his left lower extremity extending to his knee.

Questions:   
1. What is your initial treatment approach in this patient?  
2. What laboratory tests should you order?   
3. What poisonous snakes are endemic to our region?   
4. What are the characteristics of a snake/snake bite that lead you to believe the snake was poisonous?  
5. What indications do you use for administration of antivenom?

*Journal Articles:*

1) Whitley P, LaRue L, Fernandez SA, Passik SD, Dawson E, Jackson RD. Analysis of Urine Drug Test Results From Substance Use Disorder Treatment Practices and Overdose Mortality Rates, 2013-2020. JAMA Netw Open. 2022 Jun 1;5(6):e2215425. doi: 10.1001/jamanetworkopen.2022.15425. PMID: 35657623.

2) Filip AB, Berg SE, Mullins ME, Schwarz ES; Toxicology Investigators Consortium (ToxIC). Fomepizole as an adjunctive therapy for acetaminophen poisoning: cases reported to the toxicology investigators consortium (ToxIC) database 2015-2020. Clin Toxicol (Phila). 2022 May 5:1-6. doi: 10.1080/15563650.2022.2070071. Epub ahead of print. PMID: 35510880.

Zoom Meeting Details:

Please click this URL to start or join. <https://upstate.zoom.us/j/94022814635?pwd=ZXdZOFN3OFMrN1FjWlhOTGRid3YyUT09>

    Or, go to <https://upstate.zoom.us/join> and enter meeting ID: 940 2281 4635 and password: caseconf

Join from dial-in phone line:

    Dial: +1 646 876 9923 or +1 312 626 6799

    Meeting ID: 940 2281 4635

    Participant ID: Shown after joining the meeting

    International numbers available: <https://upstate.zoom.us/u/agSuvcevx>