Faculty Panel: Medical Literature Review II

Presented by: Rebecca Bloch, MD Robert Dachs, MD George Higgins, MD Emily Rose, MD Joshua Russell, MD

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Faculty

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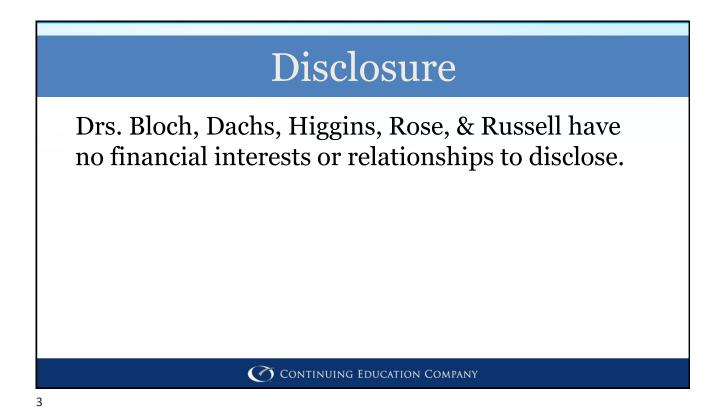
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Disclosure

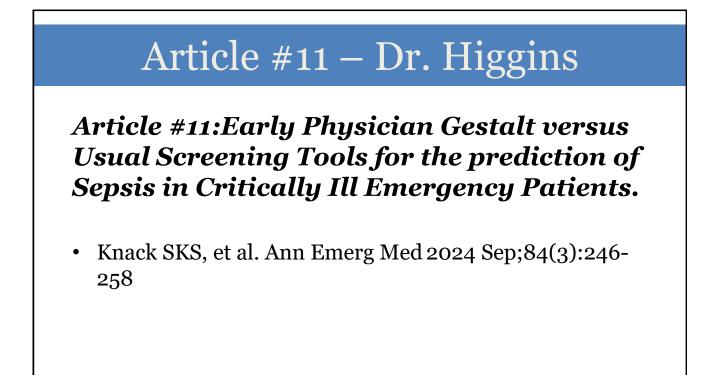
Drs. Bloch, Dachs, Higgins, Rose, & Russell have no financial interests or relationships to disclose.

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Learning Objectives

- Properly employ clinician gestalt, lactate levels and BC's in patients presenting with symptoms suggestive of an underlying infection and/or sepsis
- Understand the role of CT-Angiography of the head and neck in patients with suspicious neurologic complaints
- Identify children with fractures that may be the victims of abuse
- Discuss the pros/cons of providing patients with topical anesthetics at discharge for simple acute corneal abrasions
- Recognize the potential strain on patients and the health care system will endure with increasing heat emergencies



Article #12 – Dr. Bloch

Article #12: Prevalence and clinical significance of a point of care elevated lactate at emergency admission in older patients: a prospective study.

Gosselin M, et al. <u>Intern Emerg Med.</u> 2022; 17(6): 1803– 1812.

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Article #13 – Dr. Rose				
Disruptions in Availability of Becton Dickinson (BD) BACTEC™ Blood Culture Bottles		This is an official CDC HEALTH ADVISORY July 23, 2024		
Do Not Order blood cultures	One blood culture set only (two bottles)	Two blood culture sets (four bottles)		
	Indications for Blood Culture			
Isolated fever or leukocytosis in a stable patient without neutropenia Repeat cultures within 72 hours unless patient clinically unstable	All other patients, including neonates/pediatric patients Patients with UTI, pneumonia, or cellulitis at risk for severe sepsis	Patients with severe sepsis / septic shock "Suspicion of endocarditis or endovascular infection or catheter- related bloodstream infection		
Pneumonia or non-severe cellulitis in immunocompetent patient Lower UTI; cystitis or prostatitis	Patients progressing despite antibiotics or supportive care	Initial presentation of patients with neutropenic fever **Clearance of bacteremia for select, specific situations – see below	Ellia Heanitel	
Postop. fever within 48hrs of surgery Blood cultures without order placed (e.g. "holds")		Necrotizing skin/soft tissue infection	Ellis Hospital, August 1, 2024	



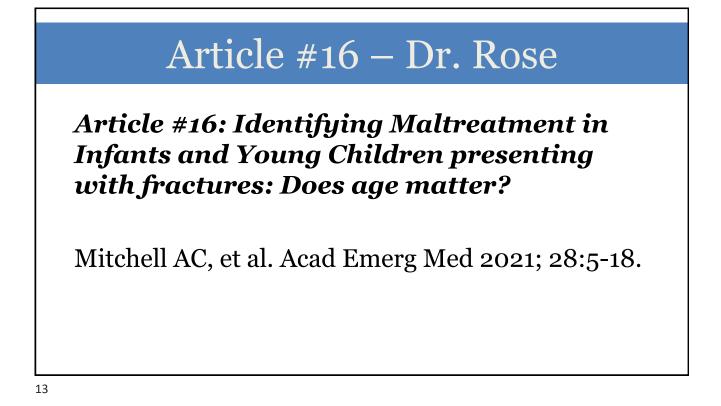
Article #15a, b – Dr. Russell

Article #15a: Brain cancer after radiation exposure from CT examinations of children and young adults: results from the EPI-CT cohort study.

Hauptmann M, et al. Lancet Oncol 2023: 24: 45-53.

Article # 15b: Risk of hematological malignancies from CT radiation exposure in children, adolescents and young adults.

Gomez MBdB, et al. Nature Medicine, published online Nov 9, 2023.

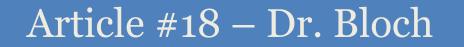




Article #17: Treatment of posttonsillectomy hemorrhage with nebulized tranexamic acid: A retrospective study.

Shin TJ, et al. Int J Ped Otorhinolaryngology 2023; 171: 111644





Article #18: Relationship of Beta-Human Chorionic Gonadotropin to Ectopic Pregnancy Detection and Size.

Eisaman DM, et al. West J Emerg Med 2024; 25: 431-5.

Article #19a,b – Dr. Russell Clinical Controversy #2

Article #19a: Use of topical anesthetics in the management of patients with simple corneal abrasions: Consensus guidelines from the American College of Emergency Physicians.

Green SM, et al. Ann Emerg Med May 2024; 83: 477-89.

Article #19b: Topical anesthetics for analgesia in acute corneal abrasion: Eye Care Providers Survey.

Anderson-Quinines C, et al. Eye and Contac Lens, 2023; 49: 143-6.

Article #20a, b, c – Dr. Dachs

Article #20a: Projected Change in the burden of Excess cardiovascular death associated with extreme Heat by Midcentury (2036 -2065) in the contiguous United States.

Khatana SAM, et al. Circulation 2023; 148: 1559-69.

More than 300 suspected heat-related deaths under investigation in Phoenix area

Almost 100 suspected heat deaths are attributed to a single week, from July 7 to 13, when temperatures reached 118 degrees.

Article #20a, b, c – Dr. Dachs

Article #20b: How blackouts during heat waves amplify mortality and morbidity risks.

Stone B, et al. Envirn Sci Techol 2023; 57: 8245-55.

U.S. NEWS

Houston hospitals report spike in heat-related illness during widespread storm power outages

Hurricane Beryl, July 2024

Article #20a, b, c – Dr. Dachs

Article # 20c: An interrupted time series analysis of the cardiovascular health benefits of a coal coking operation closure.

Yu W, et al. Envion Res Health 2023: 045002

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