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## From the Editor

**Decongesting heart failure with diuretics:** Easier to prescribe than to fully understand  
Digging deep into the pathophysiology of diuretic resistance reveals complex interacting pathways. But none of these pathways can fully explain or be used to safely reverse diuretic resistance.  
Brian F. Mandell, MD, PhD  

## The Clinical Picture

**Blue sclera: An overlooked finding of iron deficiency**  
The pathogenesis is thought to involve thinning of collagen fibers of the sclera due to iron deficiency, allowing the bluish color of the underlying uvea to become visible.  
Yasuhiro Kano, MD  

**Scaly plaques in a malnourished patient**  
A markedly low serum zinc level and the characteristic location of the rash in a patient with long-standing alcohol use disorder and cirrhosis led to the correct diagnosis.  
Sandra Oska, MD; Harleen Arora, MD; Allison Zarbo, MD  

**Mucormycosis presenting as dental pain**  
A root canal procedure failed to relieve the pain, and 1 week later the patient developed mobility of the left upper teeth.  
Pankaj Garg, MS, MBBS; Aalam Sohal, MD; Sankalp Mittal, MDS  

## 1-Minute Consult

**How do I interpret and use quantitative buprenorphine and norbuprenorphine urine levels?**  
Confirmatory testing of urine samples can be useful in outpatient settings where buprenorphine dosing is not directly observed. But retaining and engaging the patient in effective treatment should be the ultimate goals of testing.  
Richard C. Waters, MD, MSc; Matthew Perez, MD  

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**Upcoming Features**

- Update on benign paroxysmal positional vertigo
- When and when not to treat urinary tract infection
How do we maximize diuresis in acute decompensated heart failure?  
The initial goal is to maximize loop diuretic therapy using urine output or urinary sodium for guidance. Combination therapy can be used when patients respond poorly to escalating loop diuretic doses.

Saeid Mirzai, DO; Christopher N. Kanaan, MD; Felix Berglund, MD; Maria Mountis, DO; Heba Wassif, MD, MPH

Atrial fibrillation: Rate control or rhythm control?  
Rate control has been preferred as the primary approach, but the pendulum is swinging in favor of rhythm control.

Radhika Deshpande, MBBS; Yasser Al Khadra, MD; Raad Al-Tamimi, MBBS; Nour Albast, MBBS; Mohamed Labedi, MD

A 65-year-old man with melena and a blood disorder  
The patient had chronic anemia related to primary myelofibrosis and was being treated with epoetin alfa and ruxolitinib, with blood transfusions every other week.

Monia E. Werlang, MD; Marilia L. Montenegro, MD; Bhaumik Brahmbhatt, MD, MBBS

Diagnostic stewardship for urinary tract infection: A snapshot of the expert guidance  
New guidance on ordering, processing, and reporting urine cultures focuses on reducing unnecessary antibiotic use and the misdiagnosis of urinary tract infection.

Glenn T. Werneburg, MD, PhD; Daniel D. Rhoads, MD

Confusion in a 22-year-old woman, and diagnostic uncertainty  
The patient had been complaining of gradual-onset and progressive headache and neck and back pain for 3 weeks.

Brian Elliott, MD; Christopher Newey, DO, MS; Katelynn Alcorn, MPH; Luke McCoy, MD

The role of GLP-1 receptor agonists in managing type 2 diabetes  

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