**Preoperative Cardiac Risk Stratification/Infection in the Immunocompromised Host - Hugo Quinny Cheng, MD, MS and Preeti Malani, MD**

Apply streamlined tools to quickly and accurately screen patients for predictors of cardiac complications before surgery; Comply with guidelines about preoperative cardiac care and the safety of elective surgery after placement of a stent; Assess the efficacy of medications for reducing risk for cardiac complications during and after surgery; Recognize inherited and acquired forms of immunodeficiency that may affect a patient’s susceptibility to infections; Treat infections that are relatively rare in healthy populations, but may be severe or fatal in patients with a compromised immune system.

**Topics in Cardiology and Addiction - Roy C. Ziegelstein, MD and Robert J. Malcolm, MD**

Explain the association between weight loss and atrial fibrillation; Determine when anticoagulation therapy can be restarted in patients who have had gastrointestinal bleeding; Recognize the risk factors for substance use disorder; Use screening tools to assess patients with substance use disorders; Prescribe appropriate pharmacotherapy for the management of substance use disorders.

**Women and Heart Disease/ Genetics - Gretchen L. Wells, MD, PhD and Robert J. Desnick, MD, PhD**

Recognize the signs of coronary artery disease (CAD) in women; Identify and modify risk factors for CAD in women; Implement recommendations for the prevention of cardiovascular disease in women at risk; Recognize the advantages of genomic testing in the prediction and prevention of disease; Explain how genetic variants can alter drug metabolism and affect dosing.

**Thyroid Nodules and Endocrine Incidentalomas/ Acute Kidney Injury - Veronica K. Piziak, MD, MA, MS, PhD and – M.J. Barchman, MD**

Evaluate thyroid nodules using appropriate tests; Recognize the indications for surgical removal of adrenal and pituitary incidentalomas; Determine the appropriate preoperative preparation for pheochromocytoma; Identify biomarkers that can be used in the diagnosis of AKI; Prescribe appropriate fluids for volume resuscitation in cardiorenal syndrome.
Atrial Fibrillation/ Abdominal Obstruction - Allan L. Anderson, MD and John M. Carethers, MD
Choose the appropriate test to evaluate patients with AF; Use scoring systems to predict the risk for stroke in patients with AF; Characterize newer anticoagulants according to mechanism, side effects, and interactions with other drugs; Diagnose abdominal obstruction based on history, physical examination, and testing; Recognize causes of abdominal obstruction in the upper gastrointestinal (GI) tract, lower GI tract, and biliary tract.

Pain and Drug-Seeking Behavior/ Screening for Colorectal Cancer - Glenn J. Treisman, MD and Jonathan Potack, MD
Integrate exercise recommendations for older patients into clinical practice; Counsel aging patients on the key components of exercise; List indications and mechanisms of action of commonly used herbal supplements; Avoid side effects and herb-drug interactions in patients taking herbal supplements; Advise patients of the recommended dosing and formulation of frequently used herbs and supplements.

Sepsis Management/ Diabetes Update - Christopher D. Spradley, MD and Sherley Abraham, MD
Implement the latest guidelines for the management of sepsis; Choose the appropriate dose of fluids and vasopressors for adequate volume resuscitation in patients with sepsis; Recognize the importance of clinical assessment for adequacy of circulation in patients with sepsis; Use management algorithms to treat patients with DM; Characterize the different classes of agents used to treat DM.

Mood Disorders/ Diverticular Disease - Descartes Li, MD and Kathrin Troppmann, MD
Recognize signs of bipolar disorder during the clinical interview; Counsel patients about the risks associated with selective serotonin reuptake inhibitors in the treatment of depression; Explain the possible role of dietary fiber in the etiology of diverticulitis; Select appropriate testing for the diagnosis of acute diverticulitis; Prescribe appropriate treatment for uncomplicated diverticulitis.

Metabolic Acidosis and Kidney Disease/ Celiac Disease - David Weiner, MD and Christopher E. Forsmark, MD
Recognize the effects of MA on major organs of the body; Explain how MA worsens the progression of chronic kidney disease; Counsel patients about dietary strategies for lowering the production of acid; Perform appropriate serologic testing to diagnose CD; Recognize the atypical symptoms and illnesses that suggest a reasonable likelihood of CD.

HIV/ Drugs and the Heart - Jennifer Janelle, MD and Mathew McKillop, MD

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