

# 33rd Annual Internal Medicine Board Review

Hilton Rochester Mayo Clinic Area Hotel

Program Schedule – Live and Livestream

June 3-7, 2024 – Central Time

Monday, June 3, 2024	
6:00 a.m.	<b>Registration &amp; Breakfast</b>
7:00 a.m.	<b>Welcome and Course Overview</b> <i>Christopher A. Aakre, M.D., April R. Christensen, M.D., MS and Hannah C. Nordhues, M.D.</i>
7:15 a.m.	<b>Geriatrics</b> <i>Maria D. Mendoza de la Garza, M.D.</i> <ul style="list-style-type: none"><li>Recall evidence-based fall prevention strategies and use this information to effectively manage patients</li><li>Diagnose and manage patients with mild cognitive impairment and dementia in the elderly</li><li>Evaluate and manage urinary incontinence in the elderly</li><li>Recognize high-risk medications in elderly patients and develop strategies for preventing medication related side effects</li><li>Prevent and manage pressure injury in the elderly</li></ul>
8:05 a.m.	<b>Dermatology</b> <i>Hafsa M. Cantwell, M.D.</i> <ul style="list-style-type: none"><li>Diagnose and manage basal and squamous cell carcinoma</li><li>Diagnose and develop initial management strategies for melanoma</li><li>Identify the diagnosis and management of common primary care skin conditions, such as vitiligo, pityriasis rosea, rosacea, and scabies</li><li>Recognize and manage acne vulgaris</li><li>Recognize and treat psoriasis</li><li>Recognize and treat drug eruptions</li></ul>
8:50 a.m.	<b>Allergy</b> <i>Gerald W. Volcheck, M.D.</i> <ul style="list-style-type: none"><li>Recognize and treat anaphylaxis</li><li>Diagnose and treat urticaria and angioedema</li><li>Diagnose and treat allergic rhinosinusitis</li></ul>
9:45 a.m.	Break
10:05 a.m.	<b>Nutrition/Nutritional Disorders</b> <i>Meera Shah, M.B., Ch.B.</i> <ul style="list-style-type: none"><li>Identify overweight and obese patients and identify their health risks</li><li>Review medical and surgical management of obesity</li><li>Recognize and manage dietary factors in hypertension</li></ul>

	<ul style="list-style-type: none"> <li>Recognize nutrition deficiencies</li> </ul>
10:50 a.m.	<p><b>HEENT</b> <i>Luke T. Hafdahl, M.D.</i></p> <ul style="list-style-type: none"> <li>Evaluate and manage epistaxis</li> <li>Identify the presentation, evaluation, and management of glaucoma</li> <li>Diagnose and treat infectious pharyngitis</li> <li>Develop initial evaluation and management strategies for the acute red eye</li> <li>Diagnose and treat acute and chronic infectious sinusitis</li> </ul>
11:35 a.m.	<b>Lunch</b>
12:20 p.m.	<p><b>Men's Health</b> <i>Jason H. Szostek, M.D.</i></p> <ul style="list-style-type: none"> <li>Identify the screening strategies, diagnosis, and management of prostate cancer</li> <li>Describe an approach to diagnosing &amp; treating benign prostatic hypertrophy (BPH)</li> <li>Recall the evaluation, diagnosis, and initial management strategies for erectile dysfunction</li> </ul>
1:10 p.m.	<p><b>Women's Health: Adolescence and Beyond</b> <i>Jill M. Huber, M.D.</i></p> <ul style="list-style-type: none"> <li>Outline the principles of contraception and contraceptive counseling</li> <li>Review the management of common medical conditions in pregnancy</li> <li>Recall the evaluation of abnormal uterine bleeding</li> <li>Outline the risks, benefits, and indications for hormone replacement therapy in women</li> </ul>
2:05 p.m.	<p><b>Hypertension and Hyperlipidemia</b> <i>Joel D. Beachey, M.D.</i></p> <ul style="list-style-type: none"> <li>Apply lipid lowering treatment based on patient characteristics/risk utilizing AHA/ACC guidelines</li> <li>Identify, diagnose, and manage hypertension based on consideration of medical comorbidities</li> </ul>
2:50 p.m.	<b>Break</b>
3:05 p.m.	<p><b>Psychiatry</b> <i>Scott A. Breitingner, M.D.</i></p> <ul style="list-style-type: none"> <li>Review diagnosis and treatment of depression</li> <li>Recall the diagnosis and treatment of anxiety spectrum disorders</li> <li>Recognize the presentation and management of substance use disorder</li> <li>Diagnose and manage schizophrenia, including medication side effects</li> <li>Identify and treat bipolar disorder</li> </ul>

3:50 p.m.	<b>Neurology</b> <i>Rafid Mustafa, M.D.</i> <ul style="list-style-type: none"> <li>• Diagnose and manage basic seizure disorders</li> <li>• Compare and contrast headache types and management strategies</li> <li>• Evaluate for and treat etiologies of stroke</li> <li>• Identify, diagnose, and manage radiculopathies and spinal stenosis</li> <li>• Recognize the presentation of and select appropriate testing for patients with restless leg syndrome</li> <li>• Diagnose and treat common peripheral neuropathies</li> <li>• Diagnose and treat movement disorders including essential tremor and Parkinson’s</li> <li>• Diagnose and select appropriate treatment for patients with myasthenia gravis</li> </ul>
5:00 p.m.	<b>Sprint Test</b>
5:30 p.m.	<b>Adjourn</b>

<b>Tuesday, June 4, 2024</b>	
6:00 a.m.	<b>Registration &amp; Breakfast</b>
6:55 a.m.	<b>Course Overview</b>
7:00 a.m.	<b>Endocrinology – Diabetes Part 1</b> <i>Pankaj Shah, M.D.</i> <ul style="list-style-type: none"> <li>• Diagnose and manage Type 1 and gestational diabetes mellitus</li> <li>• Diagnose and manage Type 2 diabetes mellitus</li> <li>• Identify strategies to prevent or delay the onset of Type 2 diabetes mellitus</li> </ul>
7:45 a.m.	<b>Endocrinology – Diabetes and Hypoglycemia Part 2</b> <i>Pankaj Shah, M.D.</i> <ul style="list-style-type: none"> <li>• Diagnose and manage diabetic ketoacidosis</li> <li>• Diagnose and manage diabetic hyperosmolar nonketotic state</li> <li>• Diagnose and manage hypoglycemia in the diabetic patient</li> </ul>
8:40 a.m.	<b>Endocrinology – Bone and Parathyroid</b> <i>Kurt A. Kennel, M.D.</i> <ul style="list-style-type: none"> <li>• Use risk factors to diagnose and manage male and female osteoporosis</li> <li>• Distinguish osteomalacia from osteoporosis by listing its distinct clinical features</li> </ul>

	<ul style="list-style-type: none"> <li>• List key aspects of the diagnosis, evaluation, and treatment decisions in Paget disease of the bone</li> <li>• Recall the evaluation and management of primary hyperparathyroidism</li> <li>• Employ a stepwise approach to evaluate and treat hypercalcemia and hypocalcemia</li> </ul>
9:35 a.m.	Break
9:50 a.m.	<p><b>Endocrinology – Thyroid</b> <i>Omar El-Kawkgi, M.B., B.Ch., B.A.O.</i></p> <ul style="list-style-type: none"> <li>• Evaluate and manage hyperthyroidism and hypothyroidism, including subclinical disease</li> <li>• Diagnose and manage thyroid medical emergencies</li> <li>• Evaluate and manage thyroid nodules</li> <li>• Describe and manage the different types of thyroid cancer</li> </ul>
10:40 a.m.	<p><b>Endocrinology – Pituitary, Gonadal, and Adrenal Disorders</b> <i>Lucinda Gruber, M.D.</i></p> <ul style="list-style-type: none"> <li>• Evaluate and manage the adrenal incidentaloma</li> <li>• Diagnose and manage Cushing's Syndrome and adrenal insufficiency</li> <li>• Select appropriate evaluation and management strategies of pituitary tumors</li> <li>• Identify the appropriate evaluation of secondary amenorrhea</li> <li>• Identify the appropriate evaluation and management of male hypogonadism</li> </ul>
11:25 a.m.	<p><b>Rheumatology – Vasculitis</b> <i>Matthew J. Koster, M.D.</i></p> <ul style="list-style-type: none"> <li>• Recognize the various forms of vasculitis</li> <li>• Identify initial treatment strategies for vasculitis</li> </ul>
12:15 p.m.	Lunch
1:00 p.m.	<p><b>Rheumatology – Gout and Spondyloarthropathies</b> <i>Kerry Wright, M.B.B.S.</i></p> <ul style="list-style-type: none"> <li>• List common causes of foot and ankle pain and their treatments</li> <li>• Diagnose and treat crystalline induced disease</li> <li>• Identify the diagnosis and treatment of spondyloarthropathies</li> </ul>
1:55 p.m.	<p><b>Rheumatology – Arthritis</b> <i>Ashima Makol, M.D.</i></p> <ul style="list-style-type: none"> <li>• Diagnose and treat fibromyalgia</li> <li>• Utilize physical exam and laboratory studies to diagnose and manage rheumatoid arthritis</li> <li>• Diagnose and manage symptomatic osteoarthritis</li> </ul>

2:50 p.m.	<b>Rheumatology - Systemic Lupus Erythematosus and Anti-Phospholipid Antibody Syndrome</b> <i>Alicia M. Hinze, M.D.</i> <ul style="list-style-type: none"> <li>• Diagnose and develop initial management of systemic lupus erythematosus (SLE)</li> <li>• Review complications of SLE</li> <li>• Assess and manage antiphospholipid antibody syndrome</li> </ul>
3:35 p.m.	<b>Break</b>
3:50 p.m.	<b>Rheumatology - Raynaud's, Scleroderma, Inflammatory Myopathies, and Sjogren's Syndrome</b> <i>Alicia M. Hinze, M.D.</i> <ul style="list-style-type: none"> <li>• Diagnose and manage secondary Raynaud phenomenon</li> <li>• Review the laboratory evaluation and diagnosis of common rheumatologic diseases including: Sjogren's syndrome, scleroderma (diffuse and limited), polymyositis, dermatomyositis, and mixed connective tissue disease</li> </ul>
4:35 p.m.	<b>Critical Care</b> <i>Jeremy M. Clain, M.D.</i> <ul style="list-style-type: none"> <li>• Recall the diagnosis and management of hypovolemic, distributive, cardiogenic shock and tamponade</li> <li>• Recall the etiology and pathophysiology of respiratory failure and select appropriate testing and management strategies</li> <li>• Select appropriate tests and management strategies for sepsis based on pathophysiology</li> <li>• Diagnose and manage transfusion-related reactions</li> </ul>
5:25 p.m.	<b>Sprint Test</b>
5:45 p.m.	<b>Adjourn</b>

<b>Wednesday, June 5, 2024</b>	
6:00 a.m.	<b>Registration &amp; Breakfast</b>
7:00 a.m.	<b>Cardiology – Heart Failure and Pericardial Disease</b> <i>Michael W. Cullen, M.D.</i> <ul style="list-style-type: none"> <li>• Discuss the diagnosis and evaluation of heart failure with reduced ejection fraction</li> </ul>

	<p>and heart failure with preserved ejection fraction</p> <ul style="list-style-type: none"> <li>• Manage acute and chronic heart failure with lifestyle, pharmacological, and device Therapies</li> <li>• Diagnose, classify, and manage common cardiomyopathies</li> <li>• Recognize the presentation and select appropriate management for patients with pericardial disease, including acute pericarditis, constrictive pericarditis, and cardiac tamponade</li> </ul>
8:05 a.m.	<p><b>Cardiology – Coronary Artery Disease</b> <i>Benjamin D. Nordhues, M.D.</i></p> <ul style="list-style-type: none"> <li>• Determine appropriate method for evaluating for coronary artery disease based on pre-test probability of disease</li> <li>• Evaluate and manage perioperative testing and medications in patients with known, or at risk for CVD</li> <li>• Select appropriate management of an acute myocardial infarction, including management of NSTEMI</li> <li>• Recognize Right Ventricular Infarction and select appropriate management strategies</li> <li>• Select the appropriate timing of elective operations in patients after coronary stenting</li> </ul>
8:50 a.m.	Break
9:05 a.m.	<p><b>Cardiology – ECG's, Atrial Fibrillation, and Other Arrhythmias</b> <i>Abhishek J. Deshmukh, M.B.B.S.</i></p> <ul style="list-style-type: none"> <li>• Use the fundamentals of EKG to recognize common arrhythmias</li> <li>• Design appropriate evaluation and management strategies for patients with atrial fibrillation</li> <li>• Recognize and manage common arrhythmias (excluding a fib)</li> <li>• Assess the risks and benefits of anti-coagulation therapies to design appropriate management strategies</li> </ul>
9:50 a.m.	<p><b>Cardiology – Valvular Disease</b> <i>Jeffrey B. Geske, M.D.</i></p> <ul style="list-style-type: none"> <li>• Identify risk factors for and presentation of congenital valve abnormalities, and choose appropriate management</li> <li>• Outline risk factors for and recall the diagnosis and presentation of management aortic stenosis and hypertrophic cardiomyopathy</li> <li>• Recognize the pathophysiology and presentation of mitral stenosis, select appropriate testing, and interpret the findings accurately</li> <li>• Delineate risk factors for and recall the diagnosis and management of aortic regurgitation, mitral regurgitation, and tricuspid regurgitation</li> </ul>
10:40 a.m.	<b>Cardiology – Vascular Disease</b>

	<p><i>Ana I. Casanegra, M.D.</i></p> <ul style="list-style-type: none"> <li>• Identify the initial method for evaluating and managing peripheral vascular disease</li> <li>• Describe the risk factors for, and the evaluation and management of aortic dissection</li> <li>• Describe the risk factors for, and the evaluation and management of aortic aneurysm</li> </ul>
11:30 a.m.	Lunch
12:15 p.m	<p><b>Pulmonary – Pulmonary Tests</b></p> <p><i>Darlene R. Nelson, M.D.</i></p> <ul style="list-style-type: none"> <li>• Use an algorithm to correctly interpret spirometry and direct management</li> <li>• Recall diseases with a restrictive, obstructive, or mixed picture on spirometry</li> <li>• Evaluate and interpret pleural fluid tests</li> </ul>
1:05 p.m	<p><b>Pulmonary – COPD, Asthma, and OSA</b></p> <p><i>Darlene R. Nelson, M.D.</i></p> <ul style="list-style-type: none"> <li>• Recall the differential diagnosis and management of pneumothorax</li> <li>• Describe the classification schemes for asthma and use this information to effectively diagnose and manage patients</li> <li>• Recognize features of obstructive sleep apnea and select appropriate testing for diagnosis</li> <li>• Recall the diagnosis and management of chronic obstructive pulmonary disease</li> </ul>
1:45 p.m	<p><b>Pulmonary – ILD, Pulmonary Hypertension</b></p> <p><i>Cassandra M. Braun, M.D.</i></p> <ul style="list-style-type: none"> <li>• Identify and recall the different causes of diffuse alveolar hemorrhage</li> <li>• Identify the cause and select treatment for interstitial lung disease</li> <li>• Describe the causes, presentation, and basic treatment of pulmonary hypertension</li> </ul>
2:25 p.m.	Break
2:50 p.m.	<p><b>Oncology – Breast/Gynecology</b></p> <p><i>Susan N. Kok, M.D.</i></p> <ul style="list-style-type: none"> <li>• Identify appropriate breast cancer screening techniques for women</li> <li>• Describe the diagnostic evaluation of findings worrisome for breast cancer</li> <li>• Recall the adjuvant treatments indicated to reduce breast cancer recurrence</li> <li>• Identify risk factors for cervical cancer and know appropriate screening and management principles</li> <li>• Identify the presentation of uterine cancer and review basic management principles</li> <li>• Identify risk factors and know basic management principles of ovarian cancer</li> </ul>
3:40 p.m.	<p><b>Oncology – Pulmonary</b></p> <p><i>Konstantinos Leventakos, M.D.</i></p>

	<ul style="list-style-type: none"> <li>• Evaluate and manage a solitary pulmonary nodule</li> <li>• Identify the most common forms of lung cancer, their staging, and respective treatments</li> <li>• Integrate smoking cessation options into treatment plans</li> <li>• Diagnose paraneoplastic syndromes associated with lung cancer</li> <li>• Identify risk factors for lung cancer</li> <li>• Recognize indications for lung cancer screening</li> <li>• Recall the clinical presentation and diagnosis of lung cancer</li> </ul>
4:25 p.m.	<b>Oncology – Gastrointestinal Cancers</b> <i>Zhaohui Jin, M.D.</i> <ul style="list-style-type: none"> <li>• Stage and treat colon cancer (screening covered separately)</li> <li>• Diagnose and stage pancreatic cancer</li> <li>• Evaluate and diagnose esophageal cancer</li> <li>• Diagnose and treat gastric cancer, including MALT lymphoma</li> </ul>
5:10 p.m.	<b>Sprint Test</b>
5:30 p.m.	<b>Adjourn</b>

Thursday, June 6, 2024	
6:00 a.m.	<b>Registration &amp; Breakfast</b>
7:00 a.m.	<b>Gastroenterology – Esophageal and Gastric</b> <i>Karthik Ravi, M.D.</i> <ul style="list-style-type: none"> <li>• Recognize common clinical situations requiring endoscopic evaluation</li> <li>• Recall the diagnosis, management, and complications of gastroesophageal reflux disease</li> <li>• Diagnose and manage candida esophagitis</li> <li>• Diagnose and manage gastric polyps</li> <li>• Diagnose and manage Helicobacter pylori infection</li> <li>• Diagnose and manage peptic ulcer disease</li> </ul>
8:00 a.m.	<b>Gastroenterology – Hepatology, Gall Bladder, and Biliary</b> <i>William Sanchez, M.D.</i> <ul style="list-style-type: none"> <li>• Interpret abnormal liver function tests to diagnose common patterns of liver injury</li> <li>• Identify risk factors and appropriate screening intervals for hepatocellular carcinoma</li> <li>• Diagnose and manage major complications of chronic liver disease (e.g. Ascites, variceal bleeding and hepatocellular carcinoma)</li> </ul>



	<ul style="list-style-type: none"> <li>• Diagnose and manage Hepatitis A, B and C infections</li> <li>• Interpret ascites fluid chemistries</li> <li>• Diagnose and manage common biliary disease</li> </ul>
8:55 a.m.	<p><b>Gastroenterology – Small Bowel</b> <i>Seth R. Sweetser, M.D.</i></p> <ul style="list-style-type: none"> <li>• Evaluate non-variceal GI bleeding</li> <li>• Evaluate and manage acute and chronic diarrhea</li> <li>• Diagnose and manage celiac disease</li> <li>• Diagnose and manage bowel ischemia, including colon ischemia</li> </ul>
10:00 a.m.	Break
10:15 a.m.	<p><b>Gastroenterology – Colon and Pancreas</b> <i>Xiao Jing (Iris) Wang, M.D.</i></p> <ul style="list-style-type: none"> <li>• Recall when to initiate colon cancer screening given patient and family history</li> <li>• Identify the appropriate management and follow up of colon polyps</li> <li>• Recognize the cause, diagnosis, and management of acute pancreatitis</li> <li>• Select appropriate management options for the patient with inflammatory bowel disease</li> </ul>
11:05 a.m.	<p><b>Infectious Diseases – Endocarditis and CNS Infections</b> <i>Matthew J. Thoendel, M.D., Ph.D.</i></p> <ul style="list-style-type: none"> <li>• Review the indications for and management of infective endocarditis (IE) prophylaxis</li> <li>• Review the evaluation, diagnosis, and treatment of infective endocarditis</li> <li>• Diagnose and treat bacterial meningitis</li> <li>• Identify the diagnosis and management of viral meningitis/encephalitis</li> </ul>
11:55 a.m.	<p><b>Infectious Diseases – Pneumonia and Travel</b> <i>Douglas Challener, M.D., M.S.</i></p> <ul style="list-style-type: none"> <li>• Identify the diagnosis and management of community acquired pneumonia in the outpatient and inpatient setting</li> <li>• Diagnose and treat hospital-acquired pneumonia</li> <li>• Identify infectious control strategy for hospitalized patients</li> <li>• Review indications for prophylactic antimicrobials in international travel</li> </ul>
12:40 a.m.	Lunch
1:25 p.m.	<p><b>Infectious Diseases - GI and GU</b> <i>Mac Chesdachai, M.D.</i></p> <ul style="list-style-type: none"> <li>• Identify the differences in treating non- severe, severe, and recurrent Clostridium difficile infection</li> <li>• Diagnosis and manage patients with urinary tract infections</li> <li>• Screen for and treat localized and systemic STI</li> </ul>

2:05 p.m.	<p><b>Infectious Diseases – Vaccine-Preventable Diseases and Zoonoses</b>  <i>Mac Chesdachai, M.D.</i></p> <ul style="list-style-type: none"> <li>• Identify the indications for varicella-zoster testing, vaccination and treatment</li> <li>• Select vaccines that can be safely given in pregnancy</li> <li>• Prevent and treat measles</li> <li>• Identify, diagnose, and manage toxoplasmosis</li> <li>• Diagnose and manage complications of rheumatic fever</li> <li>• Review evaluation and management of common tick-borne diseases</li> <li>• Review evaluation and management of common fungal infections throughout the US</li> </ul>
3:00 p.m.	Break
3:15 p.m.	<p><b>Infectious Diseases – Skin and Bone Infections</b>  <i>Matthew J. Thoendel, M.D., Ph.D.</i></p> <ul style="list-style-type: none"> <li>• Identify pathogen specific treatment of skin and soft tissue infections</li> <li>• Identify, diagnose, and treat lower extremity cellulitis, and gas gangrene</li> <li>• Discuss prophylactic antimicrobial therapy in patients with prosthetic joints</li> <li>• Diagnose and treat osteomyelitis</li> <li>• Diagnose and treat septic bursitis</li> </ul>
4:10 p.m.	<p><b>Infectious Diseases – HIV/TB</b>  <i>Mary J. Kasten, M.D.</i></p> <ul style="list-style-type: none"> <li>• Review appropriate screening, diagnosis, and initial management of HIV/AIDS</li> <li>• Review prophylaxis and screening for opportunistic cancers and infections during HIV infection</li> <li>• Diagnose and treat tuberculosis</li> <li>• Identify the most common adverse reactions with tuberculosis treatment</li> </ul>
5:10 p.m.	Sprint Test
5:30 p.m.	Adjourn

<b>Friday, June 7, 2024</b>	
6:00 a.m.	<b>Registration &amp; Breakfast</b>
7:00 a.m.	<p><b>Hematology – Abnormal CBC</b>  <i>Carrie A. Thompson, M.D.</i></p> <ul style="list-style-type: none"> <li>• Summarize the evaluation of abnormal red blood cell counts</li> </ul>

	<ul style="list-style-type: none"> <li>• Describe the evaluation of abnormal white blood cell count</li> <li>• Identify and evaluate pancytopenia</li> <li>• Review the evaluation of elevated platelet counts</li> <li>• Recall the diagnosis and treatment of thrombotic thrombocytopenic purpura (TTP)</li> </ul>
7:45 a.m.	<p><b>Hematology – Lymphoid Malignancies</b> <i>Carrie A. Thompson, M.D.</i></p> <ul style="list-style-type: none"> <li>• Recall the evaluation and initial management of chronic lymphoproliferative disorders</li> <li>• Describe the differences between HL and NHL with respect to diagnosis and treatment</li> <li>• Diagnose and treat acute lymphocytic leukemia</li> </ul>
8:25 a.m.	<p><b>Hematology – Plasma Cell Disorders</b> <i>Mustaqeem A. Siddiqui, M.D., M.B.A.</i></p> <ul style="list-style-type: none"> <li>• Recall the clinical presentation, diagnosis, and management of amyloidosis</li> <li>• Recognize the presentation of and select management strategies for patients with Waldenstrom macroglobulinemia</li> <li>• Compare and contrast monoclonal gammopathy of undetermined significance (MGUS), smoldering myeloma and multiple myeloma according to presentation, evaluation, and management</li> </ul>
9:10 a.m.	<b>Break</b>
9:25 a.m.	<p><b>Hematology – Myeloid Malignancies</b> <i>Mithun V. Shah, M.D.</i></p> <ul style="list-style-type: none"> <li>• Recall the presentation, diagnosis, and management of myelodysplastic neoplasms</li> <li>• Identify the presentation, diagnosis, and management of myeloproliferative neoplasms</li> <li>• Diagnose and treat acute myeloid leukemia</li> <li>• Diagnose and manage acute blast crisis</li> </ul>
10:25 a.m.	<p><b>Hematology – Bleeding and Coagulation</b> <i>Alexandra Wolanskyj-Spinner, M.D.</i></p> <ul style="list-style-type: none"> <li>• Recall the diagnosis and management of congenital and acquired bleeding disorders</li> <li>• Identify and manage coagulation factor deficiencies and dysfunction</li> <li>• Evaluate and manage thrombocytopenia</li> <li>• Recall the evaluation and management of superficial and deep venous thrombosis</li> <li>• Diagnose and manage pulmonary embolism</li> <li>• Diagnose and manage heparin-induced thrombocytopenia (HIT)</li> </ul>
11:25 a.m.	<b>Lunch</b>
12:10 p.m.	<p><b>Nephrology – Electrolyte and Acid-base Cases</b> <i>Ladan Zand, M.D.</i></p>

	<ul style="list-style-type: none"> <li>Recall the diagnosis and management of inappropriate antidiuretic hormone secretion (SIADH)</li> <li>Identify, evaluate, and manage hypo- and hypernatremia</li> <li>List appropriate treatment strategies for hypo- and hyperkalemia</li> <li>Apply an algorithm to diagnose acid-base disorders</li> </ul>
1:40 p.m.	<b>Break</b>
1:55 p.m.	<p><b>Nephrology –Nephrolithiasis and Acute Kidney Injury Part 1</b>  <i>Michael A. Mao, M.D.</i></p> <ul style="list-style-type: none"> <li>Describe the diagnosis and evaluation of acute renal injury</li> <li>Define indications for acute dialysis</li> <li>Manage pre and post renal injury</li> <li>Diagnose and manage nephrolithiasis</li> <li>Diagnose and manage acute tubular necrosis</li> </ul>
2:45 p.m.	<p><b>Nephrology – Acute Kidney Injury Part 2</b>  <i>Michael A. Mao, M.D.</i></p> <ul style="list-style-type: none"> <li>Identify indications for renal biopsy</li> <li>Diagnose and manage acute interstitial nephritis</li> <li>Describe the diagnosis, evaluation, and management of glomerular disorders</li> <li>Prevent, recognize, and manage contrast-induced nephropathy</li> </ul>
3:35 p.m.	<p><b>Nephrology – Chronic Kidney Disease</b>  <i>Virginia (Ginny) A. Dines, M.D.</i></p> <ul style="list-style-type: none"> <li>Identify risk factors and recognize the presentation of nephrogenic systemic fibrosis</li> <li>Identify causes of chronic kidney disease and strategies to prevent progression of chronic kidney disease</li> <li>Manage calcium-phosphorous homeostasis, anemia &amp; other issues in chronic kidney disease</li> </ul>
4:25 p.m.	<b>Sprint Test</b>
4:45 p.m.	<b>Adjourn</b>