General Medicine Teaching Topics:

1) Chronic pain syndromes and suspected narcotic-seeking (with long-term management including pain clinic referral)
2) Appropriate discharge: geriatric and non-geriatric home safety assessment, post-discharge arrangements and their indications (CHOICES, home nursing visits, inpatient rehab, ECF, Select Specialties, hospice)
3) Inpatient diabetes management (modifying home meds, etc)
4) Management of DKA (including cause workup; indications for ICU transfer, common pitfalls/mistakes)
5) Management of hypertensive urgency and emergency (with indications for ICU transfer)
6) Hyper/hyponatremia (most common causes, corrective management with indications for levels of aggresiveness)
7) Approach to AMS (delirium and obtundation) including indications for CT and for ICU transfer
8) Management of EtOH withdrawal (including indications for ICU transfer)
9) Workup of syncope, indications for brief vs. expanded workup
10) DVT/PE management
11) Management of asthma and COPD exacerbations (including indications for ICU transfer)
12) Partial SBO and LBO - most common causes and management, including surgical consult role; assessing improvement/danger signs
13) Preop evaluation, risk stratification and medical optimization
14) Approach to new fever in an inpatient

Infectious Diseases Teaching Topics:

1) Management of infected medical devices (lines of different types, pacers, orthopedic pins, filters, grafts, etc.)
2) Differential and approach for FUO, with most common causes

Our institution's common pathogens and empiric antibiotics (and rationale) for:
3) GI: cholecystitis, cholangitis, SBP, diverticulitis, perirectal abscess
4) skin/soft and connective tissue: cellulitis, necrotizing fasciitis, osteomyelitis, endocarditis, surgical wound infection, septic arthritis
5) miscellaneous: CAP, HAP, meningitis, UTI, PID/TOA

6) 10ish most important (common or serious) antibiotic side effects (not allergies)
7) Basic approach to HIV care (treatment indications, classes and side effects of meds, OIs with their typical CD4 count context and prophylaxis management)
8) Specific additional ID considerations in diabetes, HIV, renal failure, advanced age, and chronic steroid use
9) Approach to known antibiotic "allergies" (true vs. false allergies, cross-reactivity, indications for using alternative agents and for desensitization)
10) Fungal infections: most common pathogens/contexts, when to consider them, and empiric approach
11) Viral infections: most common pathogens/contexts, when to consider them, and empiric approach
12) New/emerging antibiotic classes
13) Major infections in transplant recipients, by time frame after transplant

Endocrine Teaching Topics

1) Outpatient diabetes (diagnosis, transition from PO meds to insulin, old and new types of Insulin, common and less-common disease complications)
2) Inpatient diabetes: DKA/HONKC - signs/symptoms, diagnosis, management, pitfall
3) Thyroid disease (hyper/hypo thyroidism symptoms, differential, and management; evaluation of thyroid nodule)
4) Adrenal insufficiency (presentation, differential, management)

5) Cushing's (diagnosis, management)
6) Hormonal bone regulation/calcium metabolism (hypercalcemia, hypocalcemia)
7) Endocrine disorders of male reproductive physiology (including hypogonadism)
8) Endocrine disorders of female reproductive rhysiology (amenorrhea, PCOS, perhaps DUB)

GI/Liver Teaching Topics

1) Barrett's esophagus and esophageal cancer (presentation/screening, workup, management, outcomes)
2) Esophagitis (infectious, pill, eosinophilic) and gastritis – presentation, workup, management, outcomes)
3) Peptic Ulcer Disease, including H. Pylori (presentation, workup, management, outcomes)
4) Acute Pancreatitis (causes, presentation, management, outcomes)
5) Chronic Pancreatitis (causes, presentation, workup, management, outcomes)
6) Pancreatic Masses (including cystic; differential, workup, non-onc management)
7) Approach to diarrhea, including malabsorption syndromes
8) IBD (presentation, differential, workup, acute and long-term management, outcomes)
9) Intestinal ischemia (presentation/when to suspect, workup, management options)
10) Colon cancer (risk factors, screening, presentation, outcomes)
11) Upper GI bleeding (differential with distinuishers in presentation, acute management, endoscopic management techniques, indications for endoscopic vs. IR intervention)
12) Lower GI bleeding (differential with distinuishers in presentation, acute management, endoscopic management techniques, indications for endoscopic vs. IR intervention)
13) The cirrhotic patient: portal hypertension, varices, hepatic encephalopathy (presentation, acute and long-term management including prophylaxis, outcomes)
14) The cirrhotic patient: ascites, SBP, hepatorenal syndrome (presentation, acute and long-term management including prophylaxis, outcomes)
15) Fulminant hepatic failure (acute management, transplant indications, outcomes)
16) Viral hepatitis (common causes, presentation, general management, outcomes and long-term complications)
17) The gallbladder and bile ducts (acute cholecystitis, choledocholithiasis, cholangitis) – presentation, workup, management, outcomes
18) Functional bowel disease

Hematology/Oncology Teaching Topics

Hematology:
1) Transfusion (indications, indications for specialized products e.g. leukopoor/CMV-negative, pretreatment, indications for stopping transfusion) and pheresis (indications, complications)
2) Hematology Emergencies (TLS, Blast crisis)
3) Anemia (presentation, common causes by patient demographic, initial workup, secondary workup if unrevealing, management)
4) Leukopenia and Thrombocytopenia (most common causes, presentation, workup)
5) Hypo- and hyper-coagulable disorders (most common causes, presentations, workup, management)
6) Hodgkin's Lymphoma (presentation, diagnosis, staging, treatment, outcomes)
7) Non-Hodgkin's Lymphoma (presentation, diagnosis, staging, treatment, outcomes)
8) Multiple Myeloma and MGUS (presentation, diagnosis, management, outcomes)
9) The acute leukemias (presentation, diagnosis, staging, treatment overview without specific chemo protocols, outcomes)
10) The chronic leukemias (presentation, diagnosis, staging, treatment overview without specific chemo protocols, outcomes)
11) TTP and ITP (presentation, diagnosis, management, outcomes)
12) Sickle cell anemia (presentation, pain crisis management, complications, outcomes)

Oncology:
1) Common treatment side effects and their management (constipation, nausea/vomiting, pain, radiation

sequellae, etc)
2) Oncologic Emergencies (spinal cord compression, SVC syndrome, febrile neutropenia)
3) Lung Cancer (staging, treatment overview without specific chemo protocols, prognosis)
4) Breast Cancer (staging, treatment overview without specific chemo protocols, prognosis)
5) Colon Cancer (staging, treatment overview without specific chemo protocols, prognosis)
6) Prostate Cancer (staging, treatment overview without specific chemo protocols, prognosis)
7) Skin cancers (staging, treatment overview without specific chemo protocols, prognosis)

Rheumatology Teaching Topics:

1) Approach to joint pain (differential, exam, workup, red flags/indications for aspiration)
2) Joint aspiration technique for knee and other commonly tapped joints, and septic arthritis (workup, management)
3) Approach to lower back pain (rheumatologic differential, workup, management, outcomes)
4) Systemic Lupus Erythematosis (presentation, exam, management, variants, complications and emergencies, outcomes) – may need two lectures
5) Osteoarthritis and rheumatoid arthritis (findings, workup, management including disease-modifying agents)
6) Large/medium/small vasculitis syndromes (most common, most severe, presentation, workup, management)
7) Fibromyalgia and myofascial pain (diagnosis, exam and ruling out, management, outcomes)
8) Scleroderma (presentation, differential, workup, management, outcomes)
9) Gout and Pseudogout (presentation, differential, workup including role of aspiration, management, outcomes)
10) Shoulder pain and weakness (rheumatologic differential, workup, management, outcomes)
11) Spondyloarthritidies i.e. AS, reactive arthritis, psoriasis, etc (presentation, workup, management)
12) Inflammatory myopathies i.e. DM, PM, IBM (presentation, workup, management, outcomes)
13) Amyloidosis (presentation, workup, management, outcomes)

Cardiology Teaching Topics

1) Atrial Fibrillation and flutter (rate vs. rhythm control/ablation, anticoagulation, RVR)
2) Acute Coronary Syndrome (differentiate UA, NSTEMI, STEMI; management strategies including recent changes; critical complications and their red flags)
3) Malignant HTN/HTN Emergency/Urgency
4) Outpatient heart failure (causes; signs, symptoms and lab values; staging; overview of systolic vs diastolic chronic management and outcomes)
5) Decompensated (inpatient) heart failure (acute causes/workup, management including assist devices and their indications
6) Heart block (types, management with indications for pacing) and other bradycardias (management)
7) VT and SVT (diagnosis, causes, management)
8) Aortic stenosis (presentation and exam, natural history, management with indications for surgical referral, outcomes)
9) Infectious endocarditis (presentation and findings, management, cardiac complications)
10) Pericarditis/Pericardial effusion (presentation/findings, workup, management)
11) Peripheral vascular disease (renal artery stenosis, PVOD, etc) – presentation/findings, workup, management
13) Stress testing and other diagnostic techniques (cardiac MRI, etc) – indications, choosing studies
14) "Stable" CAD (presentation, basic management including role of intervention)
15) Pulmonary HTN (most common causes, presentation, workup, management, outcomes)
16) Preop evaluation – cardiac risk stratification and optimization
17) Syncope (cardiac causes, cardiac workup)
18) Systematic approach to EKGs

Nephrology Teaching Topics

1) Clinical evaluation of kidney function (determining GFR from Cr/24-hr urine/MDRD; interpreting UA findings; indications for biopsy; renal drug dosing)
2) Fluid and Electrolyes – hyper- and hyponatremia (most common causes, workup, management)
3) Fluid and Electrolytes – potassium (common causes of derangements, workup, management)
4) Acid/Base Disorders (most common, systematic approach to lab interpretation for diagnosis)
5) Hypertension (definition and classification, workup, management, complications)
6) Acute renal failure (most common prerenal, renal and postrenal causes in the ambulatory and outpatient settings, initial and expanded workup, management)
7) Chronic kidney disease (most common causes, management for preserving function, complications including phos/calcium derangements)
8) Chronic dialysis (decision to start, choosing a method, vascular access issues, complications)
9) Nephrolithiasis (risk factors, screening and prevention, diagnosis, management)
10) Genetic disorders causing renal disease (most common, presentation, workup, disease-modifying management)
11) Glomerular diseases (nephritic vs. nephritic presentation and most common causes of each, and management)
12) Kidney transplantation (indications/contraindications/mortality benefit, workup, basic immunosuppresive regimen and side effects, complications)

Pulmonary Teaching Topics

1) Pulmonary imaging (major study types and their indications)
2) PFTs (indications and contraindications, selecting features, interpretation, use in management)
3) Asthma, with stepwise approach to treating chronic stable asthma and exacerbations
4) COPD, with stepwise approach to treating chronic stable COPD and exacerbations
5) Pneumonia (empiric and focused management, role of bronchoscopy, role of PPV, outcomes, complications with abscess management)
6) PE/DVT (indications for workup, workup flowchart, acute- and long-term management)
7) Sleep Apnea/Pickwickian syndromes/etc (indications for workup, management, complications)
8) CF (chronic management, empiric management of exacerbations, outcomes)
9) ILD (presentation, workup, management, outcomes)
10) Pleural effusions (differential by appearance, workup with indications for thoracentesis)
11) Fungal pulmonary disease (most common, presentation,/when to suspect it, workup, management)
12) Mycobacterial lung disease i.e. TB and MAC (presentation, workup, management)
13) Neuromuscular respiratory disorders (most common, presentation, workup, management)

Critical Care Teaching Topics

1) Shock/Sepsis (most common etiologies, early goal-directed management, outcomes)
2) ABGs (expert tricks, interpretation, common pitfalls, use in decisions about intubation and vent management)
3) Vents (initial settings, appropriate scenarios for manipulating each major parameter)
4) Pressors (empiric stepwise approach, side effects, indications and contraindications for specific pressors, role of vasopressin)
5) ARDS/ALI (most common causes, indications for and basics of lung-protective ventilation, outcomes)
6) Renal failure/CRRT (most common causes in ICU, indications for specific dialysis methods)
7) Hepatic failure (most common causes in ICU, acute management, complications)
8) Overdoses (most common, basic management with most important parameters to monitor, HD indications)
9) Nutrition (approach to tube feeds, indications for TPN, monitoring nutritional status)
10) Procedures (indications and expert tricks for neck vs. fem lines, art lines, and if time

permits, paracentesis/thoracentesis)
11) DIC (setting, diagnosis, complications, management)