

# Aquifer Internal Medicine

36 cases covering the Clerkship Directors in Internal Medicine's (CDIM) General Internal Medicine Core Medicine clerkship curriculum.

Case	Differential Diagnosis	Final Diagnosis
Internal Medicine 01: 49-year-old male with chest pain	Unstable Angina, Non ST elevation MI	Acute ST elevation myocardial infarction
Internal Medicine 02: 60-year-old female with chest pain	Angina, myocardial infarction, GERD, pulmonary embolism	Stable angina pectoris
Internal Medicine 03: 54-year-old female with syncope	Obstructive cardiac disease; Arrhythmia; Cardiac Ischemia; Peripheral vascular or circulatory dysfunction; Central nervous system disorder: including transient ischemic attack (TIA) and stroke. Metabolic derangement: including hypoglycemia. Potassium, magnesium and calcium disorders can cause arrhythmias which can lead to syncope. Hyponatremia can lead to seizure presenting like syncope.	Syncope related to atrial fibrillation and mitral stenosis
Internal Medicine 04: 67-year-old female with shortness of breath and lower-leg swelling	Congestive heart failure, asthma, chronic obstructive pulmonary disease (COPD), pneumonia, cardiac ischemia, interstitial lung diseases; psychogenic causes	Heart failure with reduced ejection fraction
Internal Medicine 05: 55-year-old male with fatigue		Major depression
Internal Medicine 06: 45-year-old male with hypertension	N/A	Stage 2 hypertension
Internal Medicine 07: 28-year-old female with lightheadedness	hypotension, polyuria, nausea, vomiting, and diarrhea: pregnancy, urosepsis, acute hyperglycemia, gastroenteritis, adrenal insufficiency	Hyperosmolar hyperglycemic state, newly diagnosed Type 2 diabetes mellitus
Internal Medicine 08: 55-year-old male with chronic disease management	N/A	Type 2 diabetes mellitus with micro and macrovascular complications
Internal Medicine 09: 55-year-old female with upper abdominal pain and vomiting	cholecystitis, gastritis, pancreatitis, peptic ulcer disease, small bowel obstruction, spontaneous bacterial peritonitis	Acute pancreatitis, acute alcohol withdrawal

Internal Medicine 10: 48-year-old female with diarrhea and dizziness	Causes of upper gastrointestinal bleed (UGIB): peptic ulcer disease esophageal or gastric varices, erosive esophagitis erosive gastritis Mallory-Weiss tear gastric cancer epistaxis Causes of lower gastrointestinal bleed (LGIB): angiodysplasia diverticulosis ischemic colitis hemorrhoids anal fissures colon cancer inflammatory bowel disease	Bleeding peptic ulcer, H. pylori infection, febrile non-hemolytic transfusion reaction
Internal Medicine 11: 45-year-old male with abnormal liver chemistries	acetaminophen toxicity, alcoholic liver disease, autoimmune hepatitis, hemochromatosis, hepatitis B, hepatitis C, non-alcoholic steatohepatitis (NASH), metastatic liver cancer, hepatitis A.	Active hepatitis C infection
Internal Medicine 12: 55-year-old male with lower abdominal pain	pseudomembranous colitis (Clostridium difficile infection), inflammatory bowel disease, gastroenteritis, small bowel obstruction, renal colic, appendicitis	Acute sigmoid diverticulitis
Internal Medicine 13: 65-year-old female for annual physical	N/A	Osteopenia
Internal Medicine 14: 18-year-old female for pre-college physical	N/A	UTI, chlamydia
Internal Medicine 15: 50-year-old male with cough and nasal congestion	Allergic rhinitis, acute bacterial sinusitis, acute bronchitis, influenza, Streptococcal pharyngitis, bacterial pneumonia	Viral upper respiratory infection (common cold); Tobacco use disorder
Internal Medicine 16: 45-year-old male who is overweight	N/A	Obesity, Dyslipidemia
Internal Medicine 17: 28-year-old male with a pigmented lesion	DDx: pigmented lesion--melanoma, benign nevus; seborrheic keratosis; cafe au lait spots;Melasma; Freckles; Post-inflammatory hyperpigmentation hemosiderin deposition DDx:Acute erythematous maculopapular erythematous rash	Melanoma, adverse drug reaction, psoriasis, seborrheic dermatitis, MRSA abscess, and contact dermatitis
Internal Medicine 18: 75-year-old male with memory problems	N/A	Major neurocognitive disorder, Alzheimer's dementia subtype
Internal Medicine 19: 42-year-old female with anemia	anemia, B12 deficiency, iron deficiency	Iron deficiency, pernicious anemia
Internal Medicine 20: 48-year-old female with HIV	tuberculosis, Pneumocystis jiroveci (formerly Pneumocystis carinii), cryptococcosis, viral hepatitis, cytomegalovirus (CMV), mycobacterium avium complex (MAC), toxoplasmosis, endocarditis, lymphoma, protozoan infection (Microspora, Isospora, Cryptosporidium), disseminated histoplasmosis, Bartonella infection, coccidioidomycosis, visceral leishmaniasis.	Disseminated Mycobacterium avium infection
Internal Medicine 21: 78-year-old male with fever, lethargy, and	cardiogenic shock, hypovolemic shock, neurogenic shock, anaphylactic shock, adrenal crisis, and septic shock	Urosepsis, mesenteric ischemia, metastatic colon cancer

anorexia		
Internal Medicine 22: 71-year-old male with cough and fatigue	Common cold, acute bronchitis, influenza, acute COPD exacerbation, pulmonary embolism, CHF, pneumonia, lung cancer, aspiration	Right lower lobe pneumonia
Internal Medicine 23: 54-year-old female with fatigue	chronic kidney disease	Chronic kidney disease probably due to hypertensive nephropathy
Internal Medicine 24: 52-year-old female with headache, vomiting, and fever	Bacterial meningitis, cerebral vasculitis, cerebrovascular accident, cluster headache, intracerebral abscess, migraine, primary central nervous system lymphoma, subarachnoid hemorrhage, temporal arteritis, tension headache, toxoplasmosis, viral meningitis	Bacterial meningitis
Internal Medicine 25: 75-year-old female with altered mental status	Electrolyte imbalance, medication adverse reaction	Delirium due to thiazide-induced euvolemic hypotonic hyponatremia
Internal Medicine 26: 58-year-old male with altered mental status and experiencing homelessness	electrolyte abnormality, toxic ingestion, infection, hypoxia, hypercarbia, intracranial hemorrhage	Ethylene glycol toxicity, hypernatremia
Internal Medicine 27: 65-year-old male with hypercalcemia	Primary hyperparathyroidism (sporadic) Familial: Familial isolated hyperparathyroidism, Multiple endocrine neoplasia (MEN) 1 and 2a, Familial hypocalciuric hypercalcemia (FHH) Hypercalcemia of malignancy; Parathyroid hormone-related protein (PTHrp);Osteolytic bone metastases and local cytokines Vitamin D intoxication Chronic granulomatous disorders Medications: Lithium, thiazide diuretics, vitamin A excess Miscellaneous Hyperthyroidism Acromegaly Pheochromocytoma Adrenal insufficiency Immobilization Parenteral nutrition Milk alkali syndrome	Stage II squamous cell lung cancer and neutropenic fever
Internal Medicine 28: 70-year-old male with shortness of breath and cough	COPD, lung cancer and pneumonia. Less likely diagnoses are also discussed.	COPD exacerbation, cor pulmonale
Internal Medicine 29: 55-year-old female with fever and chills	community-acquired pneumonia, CHF, tuberculosis, lung malignancy, pulmonary embolism, lymphoma, sarcoidosis, acute bronchitis	Active pulmonary tuberculosis
Internal Medicine 30: 55-year-old female with leg pain	cellulitis, DVT, ruptured popliteal cyst and superficial thrombophlebitis.	Lower extremity deep venous thrombosis and pulmonary thromboembolism
Internal Medicine 31: 40-year-old male with knee pain	bursitis, crystal arthropathy, and osteoarthritis	Osteoarthritis

Internal Medicine 32: 39-year-old female with joint pain	SLE, RA, systemic sclerosis and Sjögren syndrome.	Systemic lupus erythematosus (SLE)
Internal Medicine 33: 49-year-old female with confusion		Prerenal acute renal failure due to hypovolemia
Internal Medicine 34: 55-year-old male with low back pain	vertebral metastasis, vertebral or epidural infection, acute mechanical back pain, spinal stenosis, herniated disk, pyelonephritis	Acute mechanical back pain with sciatica
Internal Medicine 35: 35-year-old female with three weeks of fever	Acute HIV infection; Acute viral hepatitis; Drug Reaction; Endocarditis; Hodgkin disease; Adult Still disease; Systemic lupus erythematosus (SLE); Urinary tract infection; Venous thromboembolism	Adult Still disease
Internal Medicine 36: 49-year-old male with ascites	Alcoholic hepatitis; Ascending cholangitis; Gastrointestinal hemorrhage; Hepatorenal syndrome; Spontaneous bacterial peritonitis; Urinary tract infection	Spontaneous bacterial peritonitis (SBP), hepatitis C cirrhosis