

Aquifer Pediatrics

32 cases covering the Council on Medical Student Education in Pediatrics (COMSEP) clerkship curriculum.

Case	Differential Diagnosis	Final Diagnosis
Pediatrics 01: Newborn male infant evaluation and care	maternal tobacco use; poor maternal nutrition; fetal alcohol syndrome; chromosomal abnormalities; prematurity; congenital infection	SGA newborn due to poor maternal nutrition and tobacco use
Pediatrics 02: Infant female well-child visits (2, 6, and 9 months)	hepatic neoplasm, hydronephrosis, neuroblastoma, teratoma, Wilms tumor Final Diagnosis: neuroblastoma	
Pediatrics 03: 3-year-old male well-child visit	N/A	iron deficiency, eczema, dental caries
Pediatrics 04: 8-year-old male well-child check	N/A	obesity, elevated blood pressure, ADHD
Pediatrics 05: 16-year-old female health maintenance visit	hypothyroidism, infectious mononucleosis, depression, eating disorder, anemia, substance abuse	anemia secondary to von Willebrand disease
Pediatrics 06: 16-year-old male preparticipation evaluation	vasovagal syncope, hypoglycemia, postural hypotension, seizure Differential Diagnosis (chest pain): asthma, GE reflux, precordial catch syndrome, costochondritis, myocardial ischemia, pericarditis	vasovagal syncope, precordial catch syndrome
Pediatrics 07: 2-hour-old male newborn with respiratory distress	respiratory distress syndrome (RDS), transient tachypnea of the newborn (TTN), pneumothorax, meconium aspiration, congenital heart disease, neonatal sepsis, congenital diaphragmatic hernia, hypoglycemia	transient tachypnea of the newborn (TTN)
Pediatrics 08: 6-day-old female with jaundice	physiologic jaundice, breast-feeding jaundice, breastmilk jaundice, hemolysis, neonatal sepsis, hypothyroidism	breast-feeding associated jaundice
Pediatrics 09: 2-week-old female with lethargy	congenital hypothyroidism, nonaccidental trauma, genetic abnormality, congenital adrenal hyperplasia, inborn error of metabolism	congenital hypothyroidism
Pediatrics 10: 6-month-old female infant with a fever	meningitis, roseola, sepsis, urinary tract infection, acute otitis media, pneumonia	febrile urinary tract infection
Pediatrics 11: 4-year-old male with fever and adenopathy	adenovirus, Kawasaki disease, enterovirus, meningococemia, measles, Rocky Mountain spotted fever, scarlet fever, Stevens-Johnson syndrome, varicella, erythema infectiosum, roseola.	Kawasaki disease

Pediatrics 12: 10-month-old female with a cough	upper respiratory infection, pneumonia, asthma, bronchiolitis, croup, foreign body aspiration, gastroesophageal reflux, pertussis	airway foreign body
Pediatrics 13: 6-year-old female with chronic cough	asthma, allergic rhinitis, sinusitis, gastroesophageal reflux, tuberculosis, atypical pneumonia	moderate persistent asthma
Pediatrics 14: 18-month-old female with congestion	allergic rhinitis, otitis media, pneumonia, sinusitis, upper respiratory infection	recurrent acute otitis media complicated by chronic effusion and speech delay
Pediatrics 15: Two siblings: 4-year-old male and 8-week-old male with vomiting	viral gastroenteritis, bacterial gastroenteritis, gastroesophageal reflux, intestinal malrotation, pyloric stenosis, intussusception, increased intracranial pressure, milk protein allergy, inborn error of metabolism, urinary tract infection	Caleb - Acute gastroenteritis; Ben - Pyloric stenosis
Pediatrics 16: 7-year-old female with abdominal pain and vomiting	gastroenteritis, intestinal obstruction, pyelonephritis, DKA, increased intracranial pressure, appendicitis	DKA
Pediatrics 17: 4-year-old female refusing to walk	transient synovitis, septic arthritis, Lyme disease, musculoskeletal trauma, SCFE, avascular necrosis of femoral head, JIA, reactive arthritis, osteomyelitis, leukemia	transient synovitis of the hip
Pediatrics 18: 6-week-old male with poor feeding	congestive heart failure, respiratory infection, hyperbilirubinemia, sepsis, GE reflux, hypotonia, metabolic disorder	ventricular septal defect (VSD)
Pediatrics 19: 16-month-old male with first seizure	toxic ingestion, febrile seizure, syncope, closed head injury, intracranial hemorrhage, brain tumor, CNS infection	febrile seizure; roseola
Pediatrics 20: 7-year-old male with a headache	migraine headache, tension headache, sinusitis, brain tumor, idiopathic intracranial hypertension	cerebellar astrocytoma
Pediatrics 21: 6-year-old male with bruising	coagulation disorder, HSP, ITP, leukemia, viral infection, sepsis, Rocky Mountain spotted fever, bacterial endocarditis	Henoch-Schönlein purpura (HSP)
Pediatrics 22: 16-year-old female with abdominal pain	appendicitis, pregnancy, ovarian torsion, PID, UTI, cholecystitis, hepatitis, pancreatitis, gastroenteritis, mesenteric adenitis	pelvic inflammatory disease (PID)
Pediatrics 23: 15-year-old female with lethargy and fever	Differential Diagnosis #1 (altered mental status): CNS infection, toxic ingestion, increased intracranial pressure, trauma, metabolic disturbance Differential Diagnosis #2 (fever and petechiae): meningococcal sepsis, toxic shock syndrome, Rocky Mountain spotted fever, bacterial endocarditis	meningococemia/meningococcal meningitis
Pediatrics 24: 2-year-old female with altered mental	CNS infection, sepsis, toxic ingestion, trauma, seizure, intracranial mass	accidental ingestion (nortriptyline, glipizide)

status		
Pediatrics 25: 2-month-old male with apnea	CNS infection, closed head injury, sepsis, respiratory infection, gastroesophageal reflux, breath holding spell	acute subdural hematoma secondary to nonaccidental trauma
Pediatrics 26: 9-week-old male not gaining weight	inadequate diet, congestive heart failure, formula allergy, gastroenteritis, hypothyroidism, malabsorption	cystic fibrosis
Pediatrics 27: 8-year-old female with abdominal pain	functional abdominal pain, inflammatory bowel disease, celiac disease, bacterial gastroenteritis, giardiasis	Crohn disease
Pediatrics 28: 18-month-old male with developmental delay	cerebral palsy, chromosomal/genetic abnormality, metabolic disorder, autism spectrum disorder	cerebral palsy
Pediatrics 29: Infant male with hypotonia		Down syndrome/trisomy 21
Pediatrics 30: 2-year-old male with sickle cell disease	acute chest syndrome, pericarditis, congestive heart failure, rib infarction, sepsis	sickle cell disease with acute chest syndrome
Pediatrics 31: 5-year-old female with puffy eyes	Differential Diagnosis #1 (periorbital swelling): infectious conjunctivitis, upper respiratory infection, allergic rhinitis/conjunctivitis, sinusitis, acute allergic reaction; nephrotic syndrome (pathogenesis, diagnosis and classification, treatment, natural history and prognosis) Differential Diagnosis #2 (generalized swelling): acute glomerulonephritis, nephrotic syndrome, congestive heart failure, hepatic failure, allergic reaction	nephrotic syndrome
Pediatrics 32: 5-year-old female with rash	Differential diagnosis #1 (erythematous wheals): papular urticaria, streptococcal infection, erythema multiforme, urticaria due to type 1 hypersensitivity, drug eruption Differential diagnosis #2 (scaling rash in infancy): eczema, candida, seborrheic dermatitis, psoriasis Differential diagnosis #3 (pustules): staphylococcal folliculitis, acne, hydradenitis suppurativa, rosacea, perioral dermatitis Differential diagnosis #4 (annular scaling lesion(s)): tinea corporis, tinea versicolor, nummular eczema, psoriasis, pityriasis alba, pityriasis rosea Differential diagnosis #5: warts vs molluscum contagiosum Differential diagnosis #6 (diaper rash): irritant dermatitis, diaper candidiasis, bacterial infection, zinc deficiency, Langerhans cell histiocytosis	acute urticaria / seborrheic dermatitis / acne / contact dermatitis / head lice / scabies / tinea corporis / warts