

The University of Arizona Pediatric Residency Program Outpatient Pediatrics

Performance Expectations by Level of Training

	Rarely (0- 25%) Beginning	Sometimes (26-50%) Developing	Often (51-75%) Accomplished	Nearly Always (76-100%) Competent
	Description of identifiable performance characteristics reflecting beginning level of performance	Description of identifiable performance characteristics reflecting development and movement toward mastery of performance	Description of identifiable performance characteristics reflecting near mastery of performance	Description of identifiable performance characteristics reflecting highest level of performance
Medical Knowledge	PL1	PL1, PL2	PL2, PL3	PL3
Patient Care	PL1	PL1, PL2	PL2, PL3	PL3
Interpersonal and Communication Skills	PL1	PL1, PL2	PL2, PL3	PL3
Professionalism		PL1	PL2, PL3	PL3
Practice-Based Learning and Improvement	PL1	PL1, PL2	PL2, PL3	PL3
Systems-Based Practice	PL1	PL1, PL2	PL2, PL3	PL3

Primary Goals for this Rotation

3.4 GOAL: Common Signs and Symptoms (Continuity Clinic and Primary Care OPD). Evaluate and manage common signs and symptoms associated with the practice of pediatrics in the Continuity Clinic and Primary Care Pediatric Outpatient Department.

3.4.1 : Evaluate and manage the following signs and symptoms that present in the context of health care promotion:

1. Infancy: malpositioning of feet, hip clicks, skin rashes, birthmarks, jitteriness, hiccups, sneezes, wheezing, heart murmur, vaginal bleeding and/or discharge, foul smelling umbilical cord with/without discharge; undescended testicle, breast tissue, breast drainage, malpositioning of feet, malrotation of lower extremities, developmental delays, sleep disturbances, difficulty feeding, dysconjugate gaze, failure to thrive, frequent infections, abnormal head shape or size, evidence of abuse or neglect, abdominal masses, abnormal muscle tone
2. General: Acute life-threatening event (ALTE), constitutional symptoms, excessive crying, failure to thrive, fatigue, fever, weight loss or gain, dental caries, excessive

- thumb-sucking or pacifier use, sleep disturbances, difficult behaviors, variations in appetite, variations in toilet training, overactivity, somatic complaints, poor school performance, attention problems, fatigue, masturbation, anxiety, violence
3. Cardiorespiratory: Apnea, chest pain, cough cyanosis, dyspnea, heart murmur, hemoptysis, hypertension, inadequate respiratory effort, respiratory failure, rhythm disturbance, shortness of breath, stridor, syncope, tachypnea, wheezing
 4. Dermatologic: Congenital nevus and other birth marks, ecchymoses, edema, paleness, petechiae, pigmentary changes, purpura, rashes, urticaria, vascular lesions, foul smelling umbilical cord
 5. EENT: Acute visual changes; dysconjugate gaze; conjunctival injection; ear or eye discharge; ear, throat, eye pain, edema, epistaxis; nasal foreign body; hoarseness; stridor
 6. Endocrine: growth disturbance, short stature, heat or cold intolerance, normal and abnormal timing of pubertal changes, polydipsia, polyuria
 7. GI/Nutrition/Fluids: Abdominal pain, mass or distention; ascites; constipation; dehydration; diarrhea; dysphagia; encopresis; hematemesis; inadequate intake of calories or fluid; jaundice; melena; obesity; rectal bleeding; regurgitation; vomiting
 8. Genitourinary/Renal: Change in urine color, dysuria, edema, enuresis, frequency, hematuria, oliguria, pain referable to the urinary tract, scrotal mass, pain or edema, trauma to urinary tract or external genitalia, undescended testicle, enuresis
 9. GYN: Asymmetry of breast development, abnormal vaginal bleeding, pelvic or genital pain, vaginal discharge or odor; vulvar trauma or erythema, delayed onset of menses, missed or irregular periods
 10. Hematologic/Oncologic: Abnormal bleeding, bruising, hepatosplenomegaly, lymphadenopathy, masses, pallor
 11. Musculoskeletal: Malpositioning of feet, malpositioning of legs, hip clicks, abnormal gait, abnormal spine curvature, arthritis or arthralgia, bone and soft tissue trauma, limb or joint pain, limp, variations in alignment (e.g., intoeing)
 12. Neurologic: Delays in developmental milestones, ataxia, change in sensorium, diplopia, headache, head trauma, hearing concerns, gait disturbance, hypotonia, lethargy, seizure, tremor, vertigo, visual disturbance, weakness
 13. Psychiatric/Psychosocial: Acute psychosis, anxiety, behavioral concerns; conversion symptoms, depression, hyperactivity, suicide attempt, suspected child abuse or neglect

3.5 GOAL: Common Conditions (Continuity Clinic and Primary Care OPD). Recognize and manage common childhood conditions presenting to the Continuity Clinic and Primary Care Pediatric Outpatient Department.

3.5.1 : Evaluate and manage the common conditions and situations presenting in the context of health promotion visits.

1. Infancy: Breast feeding, bottle feeding, colic, congenital hip dislocation, constipation, strabismus, colic, parent-infant interactional issues, sleep problems, child care decisions, separation protest, stranger anxiety, failure to thrive, recurrent respiratory and ear infections, positional foot deformities, rashes, teething, injury prevention and safety
2. General: Colic, failure to thrive, fever, overweight, iron deficiency, lead exposure, strabismus, hearing problems, child care decisions, well-child and well adolescent care (including anticipatory guidance), parental issues (financial stress, divorce, depression, tobacco, alcohol or substance abuse, domestic violence, inadequate support networks)
3. Allergy/Immunology: Allergic rhinitis, angioedema, asthma, food allergies, recurrent infections, serum sickness, urticaria
4. Cardiovascular: Bacterial endocarditis, cardiomyopathy, congenital heart disease (outpatient management of minor illnesses), congestive heart failure, heart murmurs,

Kawasaki disease, palpitations, rheumatic fever

5. Dermatology: abscess, acne, atopic dermatitis, cellulitis and superficial skin infections, impetigo, molluscum, tinea infections, viral exanthems, verruca vulgaris, other common rashes of childhood and adolescence
6. Endocrine/Metabolic: Diabetes mellitus, diabetes insipidus, evaluation for possible hypothyroidism, growth failure or delay, gynecomastia, hyperthyroidism, precocious or delayed puberty
7. GI/Nutritional: Appendicitis, bleeding in stool, constipation, encopresis, foreign body ingestion, gastroenteritis, gastroesophageal reflux, hepatitis, inflammatory bowel disease, nutritional issues, obesity, pancreatitis
8. GU/Renal: Electrolyte and acid-base disturbances (mild), enuresis, glomerulonephritis, hematuria, Henoch Schonlein purpura, nephrotic syndrome, obstructive uropathy, proteinuria, undescended testicles, UTI/pyelonephritis
9. Gynecologic: Genital trauma (mild), labial adhesions, pelvic inflammatory disease, vaginal discharge or foreign body
10. Hematology/Oncology: Abdominal and mediastinal mass (initial work up), anemia, hemoglobinopathies, leukocytosis, neutropenia, thrombocytopenia
11. Infectious Disease: Cellulitis, cervical adenitis, dental abscess with complications, initial evaluation and follow-up of serious, deep tissue infections, laryngotracheobronchitis, otitis media, periorbital and orbital cellulitis, pharyngitis, pneumonia (viral or bacterial), sinusitis, upper respiratory tract infections, viral illness, recurrent infections
12. Musculoskeletal: Apophysitides, femoral retro- and anteversion, fractures, growing pains, hip dysplasia, limp, metatarsus adductus, sprains, strains, tibial torsion
13. Pharmacology/Toxicology: Common drug poisoning or overdose, ingestion avoidance (precautions)
14. Neurology/Psychiatry: Acute neurologic conditions (initial evaluation), behavioral concerns, discipline issues, temper tantrums, biting, developmental delay, seizures (evaluation and adjustment of medications), ADHD, learning disabilities, substance abuse
15. Pulmonary: Asthma, bronchiolitis, croup, epiglottitis, pneumonia; sinusitis, tracheitis, viral URI and LRI
16. Surgery: Initial evaluation of patients requiring urgent referral, pre- and post-op evaluation of surgical patients (general, ENT, ortho, urology, neurosurgical, etc.)

3.6 GOAL: Diagnostic Testing (Continuity Clinic and Primary Care OPD). Utilize common diagnostic tests and imaging studies appropriately in the outpatient department.

3.6.1 : Demonstrate understanding of the common diagnostic tests and imaging studies used in the outpatient setting, by being able to:

3.6.1.1 :Explain the indications for and limitations of each study.

3.6.1.2 :Know or be able to locate age-appropriate normal ranges (lab studies).

3.6.1.3 :Apply knowledge of diagnostic test properties, including the use of sensitivity, specificity, positive predictive value, negative predictive value, likelihood ratios and receiver operating characteristic curves, to assess test utility in clinical settings.

3.6.1.4 :Recognize cost and utilization issues.

3.6.1.5 :Interpret the results in the context of the specific patient.

3.6.1.6 :Discuss therapeutic options for correction of abnormalities.

3.6.2 : Use appropriately the common laboratory studies in the Continuity Clinic and Outpatient setting:

1. CBC with differential, platelet count, RBC indices
2. Blood chemistries: electrolytes, glucose, calcium, magnesium, phosphate
3. Hemoglobin A1C

4. Cholesterol
5. Renal function tests
6. Tests of hepatic function (PT, albumin) and damage (liver enzymes, bilirubin)
7. Serologic tests for infection (e.g., hepatitis, HIV)
8. CRP, ESR
9. Routine screening tests (e.g., neonatal screens, lead)
10. Wet preps and skin scrapings for microscopic examination, including scotch tape test for pinworms
11. Tests for ova and parasites
12. Thyroid function tests
13. Culture for bacterial, viral, and fungal pathogens, including stool culture
14. Urinalysis
15. Gram stain
16. Developmental, behavioral and depression screening tests

3.6.3 : Use the common imaging, diagnostic or radiographic studies when indicated for patients evaluated in Continuity Clinic or the Outpatient Pediatric Clinic:

1. Plain radiographs of the chest, extremities, abdomen, skull, sinuses
2. CT, MRI, angiography, ultrasound, nuclear scans (interpretation not expected) and contrast studies when indicated
3. Bone age films
4. Electrocardiogram and echocardiogram
5. Skin test for tuberculosis

3.7 GOAL: Monitoring and Therapeutic Modalities (Continuity Clinic and Primary Care OPD). Understand how to use physiologic monitoring and special technology in the Continuity Clinic and Primary Care Pediatric Outpatient Department, including issues specific to care of the chronically ill child.

3.7.1 : Demonstrate understanding of the monitoring techniques and special treatments commonly used in the Continuity Clinic and Pediatric Outpatient Department:

1. Discuss indications, contraindications and complications.
2. Demonstrate proper use of technique or treatment for children of varying ages.
3. Interpret results of monitoring based on method used, age and clinical situation.

3.7.2 : Appropriately use the monitoring techniques commonly used in the Continuity Clinic and Pediatric Outpatient Department:

1. Cardiac monitoring
2. Pulse oximetry
3. Repeated assessment of temperature, heart rate, respiratory rate, blood pressure, as clinically indicated during an office visit

3.7.3 : Use appropriately or be familiar with the following treatments and techniques in the Continuity Clinic and Pediatric Outpatient Department:

1. Universal precautions
2. Hand washing between patients
3. Isolation techniques
4. Administration of nebulized medication

<ul style="list-style-type: none"> 5. Injury, wound and burn care 6. Oxygen delivery systems 7. Intramuscular, subcutaneous and intradermal injections
3.7.4 : Recognize normal and abnormal findings at tracheostomy, gastrostomy, or central venous catheter sites, and demonstrate appropriate intervention or referral for problems encountered.
3.7.5 : Demonstrate skills for assessing and managing pain. <ul style="list-style-type: none"> 1. Use age-appropriate pain scales in assessment. 2. Describe indications for and use of behavioral techniques and supportive care, and other non-pharmacologic methods of pain control.
3.8 GOAL: Pediatric Competencies in Brief (Continuity Clinic/Outpatient): Demonstrate high standards of professional competence while working with patients in the continuity and outpatient setting. [For details see Pediatric Competencies.]
3.8.1 : Competency 1: Patient Care. Provide family-centered patient care that is development- and age-appropriate, compassionate, and effective for the treatment of health problems and the promotion of health.
3.8.1.1 :Use a logical and appropriate clinical approach to the care of outpatients, applying principles of evidence-based decision-making and problem-solving.
3.8.1.2 :Provide sensitive support to patients and their families in the outpatient setting.
3.8.1.3 :Provide effective preventive health care and anticipatory guidance to patients and families in continuity and outpatient settings.
3.8.2 : Competency 2: Medical Knowledge. Understand the scope of established and evolving biomedical, clinical, epidemiological and social-behavioral knowledge needed by a pediatrician; demonstrate the ability to acquire, critically interpret and apply this knowledge in patient care.
3.8.2.1 :Demonstrate a commitment to acquiring the knowledge needed for care of children in the continuity and general ambulatory setting.
3.8.2.2 :Know and/or access medical information efficiently, evaluate it critically, and apply it appropriately to outpatient care.
3.8.3 : Competency 3: Interpersonal Skills and Communication. Demonstrate interpersonal and communication skills that result in information exchange and partnering with patients, their families and professional associates.
3.8.3.1 :Provide effective patient education, including reassurance, for conditions common to the outpatient setting.
3.8.3.2 :Communicate effectively with physicians, other health professionals, and health-related agencies to create and sustain information exchange and teamwork for patient care.
3.8.3.3 :Develop effective strategies for teaching students, colleagues and other professionals.
3.8.3.4 :Maintain accurate, legible, timely, and legally appropriate medical records in this clinical setting.
3.8.4 : Competency 4: Practice-based Learning and Improvement. Demonstrate knowledge, skills and attitudes needed for continuous self-assessment, using scientific methods and evidence to investigate, evaluate, and improve one's patient care practice.
3.8.4.1 :Identify standardized guidelines for diagnosis and treatment of conditions common to outpatient care, and adapt them to the individual needs of specific patients.
3.8.4.2 :Work with health care team members to assess, coordinate, and improve patient care in the outpatient setting.
3.8.4.3 :Establish an individual learning plan, systematically organize relevant information resources for future reference, and plan for continuing acquisition of knowledge and skills.

3.8.5 : Competency 5: Professionalism. Demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles and sensitivity to diversity.
3.8.5.1 :Demonstrate personal accountability to the well being of patients (e.g., following-up lab results, writing comprehensive notes and seeking answers to patient care questions).
3.8.5.2 :Demonstrate a commitment to professional behavior in interactions with staff and professional colleagues.
3.8.5.3 :Adhere to ethical and legal principles and be sensitive to diversity.
3.8.6 : Competency 6: Systems-Based Practice. Understand how to practice high quality health care and advocate for patients within the context of the health care system.
3.8.6.1 :Identify key aspects of health care systems (e.g., public and private insurance) as they apply to the primary care provider, such as the role of the PCP in decision-making, referral, and coordination of care.
3.8.6.2 :Demonstrate sensitivity to the costs of clinical care in the outpatient setting, and take steps to minimize costs without compromising quality.
3.8.6.3 :Recognize and advocate for families who need assistance to deal with system complexities, such as lack of insurance, multiple medication refills, multiple appointments with long transport times, or inconvenient hours of service.
3.8.6.4 :Recognize one's limits and those of the system; take steps to avoid medical errors.

Procedures

7.1. GOAL: Technical and therapeutic procedures. Describe the following procedures, including how they work and when they should be used; competently perform those commonly used by the pediatrician in practice.

Abscess: I & D of superficial abscesses
Abscess: aspiration
Bladder: catheterization
Conjunctival swab
Ear: cerumen removal
Eye: eyelid eversion
Eye: patch
Eye: fluorescein eye exam
Foreign body removal (simple): nose
Foreign body removal (simple): ear
Foreign body removal (simple): subcutaneous
Ingrown toe nail treatment
Inguinal hernia: simple reduction
Intravenous line placement
Liquid nitrogen treatment for molluscum/warts
Lumbar puncture
Medication delivery: inhaled
Medication delivery: IV
PPD: placement
Pulmonary function tests: peak flow meter
Pulse oximeter: placement
Rectal swab
Reduction of nursemaid elbow
Skin scraping
Sterile technique
Subungual hematoma: drainage

Suctioning: nares
Suctioning: oral pharynx
Throat swab
Tooth: temporary reinsertion
Urethral swab
Venipuncture
Wood's lamp examination of skin

7.2. GOAL: Diagnostic and screening procedures. Describe the following tests or procedures, including how they work and when they should be used; competently perform those commonly used by the pediatrician in practice.

ECG: emergency interpretation
ECG: perform
PPD: interpretation
Monitoring interpretation: pulse oximetry
Radiologic interpretation: abdominal X-ray
Radiologic interpretation: chest X-ray
Radiologic interpretation: extremity X-ray
Radiologic interpretation: sinus films
Tympanometry evaluation: interpretation
Vision screening

Source

Kittredge, D., Baldwin, C. D., Bar-on, M. E., Beach, P. S., Trimm, R. F. (Eds.). (2004). APA Educational Guidelines for Pediatric Residency. Ambulatory Pediatric Association Website. Available online: www.ambpeds.org/egweb. [Accessed 03/26/2008]. Project to develop this website was funded by the Josiah Macy, Jr. Foundation 2002-2005.