



**Ohio University**  
**College of Osteopathic Medicine**  
**Centers for Osteopathic Research and Education**  
**Years III and IV Clerkship Curriculum**



**Class of 2009 CORE Clinical Rotation: Pediatrics**

**Course Title:** OCOM 863 Pediatrics

**Instructor of Record:** Peter B. Dane, D.O.

**Credit Hour:** 12 Credit Hours

**Rotation Length:** 4 weeks

**Prerequisites:** Successful completion of the 6-week Family Medicine Clerkship

**Syllabus Components**

1. Rotation Description, Purpose and Philosophy
2. Rotation Objectives
3. Orientation to Rotation
4. Required Activities and Assignments
5. Student Performance Evaluation
6. Recommended Resources
7. Standards of Professional Conduct
8. Tips for Successfully Completing the Rotation

Appendix A: Skills and Procedures Log for this rotation

***Last update: 10/04/2007***

# Pediatrics

## 1. Rotation Description, Purpose, and Philosophy

The purpose of this rotation is to provide the student with an overview of the clinical specialty of Pediatrics. This rotation is not intended to transform the student into a pediatrician, but rather it is to provide the clinical clerk a survey of the specialty. In this hospital and/or ambulatory rotation, the student is encouraged to apply concepts of diagnosis and management to infants and children. In addition, the student will gain knowledge about normal growth and development of the pediatric patient.

## 2. Rotation Objectives

A set of learning objectives is provided below. The objectives are intended to guide for the student's learning activities and to serve as a baseline for assessment of the student's knowledge, skills, and professional behavior. Not all of the objectives listed below will be encountered during any single rotation. While each student is expected to further expand his/her knowledge base and to care for all assigned patient cases, he/she is also expected to avail him/herself of the educational materials provided and to master the following objectives.

### **Rotation Objectives: Knowledge Domain**

A statewide survey of CORE preceptors identified the following as the most common diseases/conditions found on the Pediatrics Rotation at the CORE hospitals. The post-rotation exam may include questions on any of the topics listed.

1. Growth and development
2. Asthma and cystic fibrosis
3. Febrile child
4. Otitis media
5. Newborn jaundice
6. Diarrhea/Gastrointestinal disturbances
7. Upper respiratory tract infections/Bronchitis/Pharyngitis
8. Common rashes
9. Well child care/immunizations
10. Child abuse
11. Meningitis
12. Congenital Anomalies

For each disease or condition listed above, the student should be able to describe/assess the following:

1. Presenting signs and symptoms
2. Physical findings
3. Basic interpretations of appropriate diagnostic studies
4. Major differential diagnoses
5. Management alternatives, including: treatment plans, patient education, and addressing modifiable risk factors
6. Possible complications
7. Prognosis

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8. Follow-up care
9. Somatic dysfunction related to the disease/condition and the osteopathic treatment(s) for the somatic dysfunction

*NOTE:* Students are expected to interact with and provide appropriate care for *all* patients they encounter on a rotation regardless of whether or not the patient's condition is listed above. However, for purposes of the post-rotation exam, students will be responsible only for the diseases and conditions listed above. Students are expected to master the objectives related to the listed disease/conditions regardless of whether or not they encounter any patients with those diseases/conditions while on rotation.

### Rotation Objectives: Clinical Skills Domain

During the Pediatrics Rotation, students are expected to develop their competencies in many basic clinical skills. While not every skill listed below can be performed during this brief rotation, the student should avail him/herself of as many of the following procedures as possible, and to seek out opportunities to perform these skills in other rotations as well.

1. Perform an evaluation of the neonate
2. Know how to:
  - Resuscitate the newborn
  - Intubate and suction the newborn
  - Use the incubator and isolette
  - Start IV's
  - Take blood specimens in the newborn and child
  - Take throat cultures
3. Perform endotracheal intubation
4. Perform respiratory resuscitation
5. Perform lumbar puncture
6. Perform Apgar scores
7. Perform ear lavage
8. Give injections: (intradermal, subcutaneous, intramuscular, intravenous)
9. Removal of foreign body from eye, ear, nose or throat

### 3. Orientation to the Rotation

The rotation orientation provides an opportunity to answer questions and define roles, assess skill level and experience, set expectations, and anticipate and proactively resolve problems. The student should try to meet with the preceptor either prior to or early on the first day of the rotation. Clarifying the following details with the preceptor will help to ensure a rewarding and successful rotation:

- a. Student responsibilities on the service.
- b. Preceptor expectations of the student on the service.
- c. Goals, objectives, and the structure of the rotation.

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- d. Required rotation assignments and responsibilities in the preceptor's practice (e.g. clinics, lectures, conferences, other didactics, journal clubs, rounds, office hours, morning report).
- e. Discuss the Evaluation of Student Clinical Performance form.  
The student should ask for feedback several times during the rotation, especially at mid-rotation. In addition, he/she should be prepared to share past clinical experiences and personal objectives for this rotation with the preceptor.

#### **4. Required Learning Activities, Assignments, and Responsibilities for ALL OU-COM STUDENTS in order to earn credit for this rotation**

The following activities are required for satisfactory completion of this rotation:

- a. Successfully complete the pre- and post-rotation exams as detailed in section 5a of this syllabus.
- b. Attend and participate in all CORE education day presentations.  
*NOTE:* If the student is absent from any of the CORE education day presentation without prior approval, he/she will be required to complete a remediation activity. Remediation may consist of a 5-page paper for each missed lecture, or some other assignments at the discretion of the CORE Assistant Dean. These must be completed and accepted by the CORE Assistant Dean in order to receive a grade for the rotation to which you are assigned at the time of the absence.
- c. Attend and participate in any other workshops, seminars, or professional development activities assigned by the CORE Assistant Dean.
- d. Present all clinical case conferences, as assigned by the CORE Assistant Dean.
- e. Ensure that your preceptors' written evaluation is completed and submitted within 2 weeks of the end of the rotation.
- f. Submit the online Student Evaluation through New Innovations. If you need instructions, please ask your CORE staff.
- g. Submit Procedures Log through New Innovations.
- h. Submit a copy signed by your preceptor of the log summary (from New Innovations) at the end of this rotation.
- i. Fulfill all required responsibilities identified by the preceptor during orientation.

#### **5. Student Performance Evaluation**

A student's grade for the Pediatrics Rotation will be based on the following criteria.

##### **a. Rotation Exams**

###### **Pre-rotation Exam**

During the first week of this rotation you must complete an on-line (BlackBoard) 20-item pre-rotation test in 20 minutes. The purpose of this pre-test is to introduce you to the types of questions that will make up the post-rotation exam and help focus your reading during the rotation.

Scheduling The exam is self-scheduled during the first week of the rotation.

Computer requirement The exam can be taken on any computer that meets the requirements for using Blackboard. The exam cannot be taken over a dial-up connection.

Required Score No specific grade is expected or required on this pre-test.

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Limitations You may only attempt to take this pre-test once. Once you start the exam, you must complete it in one sitting. It may not be saved to resume at a later time.

Scoring Upon submitting the exam, you will receive your score along with the correct answers and information on the chapter of the required text on which the question is based.

Honor Code The OU-COM Honor Code guides your behavior related to this exam. Form HC (posted on-line at [http://www.oucom.ohiou.edu/AcademicAffairs/Yr3-4Manual/2007-2009/HC\\_Exam\\_Signature\\_Sheet\\_07.pdf](http://www.oucom.ohiou.edu/AcademicAffairs/Yr3-4Manual/2007-2009/HC_Exam_Signature_Sheet_07.pdf)) must be signed and submitted to your CORE Administrator after submitting your exam. You will not receive a passing grade for the rotation unless this form is on file in the CORE office.

Time Penalty Blackboard will alert you when one minute remains to complete the exam. Blackboard does **not** automatically stop the test when you reach the time limit. You must manually submit the exam within 1 minute of receiving the 1-minute warning. **Your exam score will be reduced by 2 points for every minute that you exceed the time limit.** If you exceed the time limit, you will be notified via e-mail that your score has been reduced.

### Post-rotation Exam

During the last few days of the rotation (or no later than two weeks after the rotation ends), you must successfully complete (score at least 60 percent) on an online, 50-item, 50-minute post-rotation exam that will cover the diagnosis, treatment, and prevention of diseases and conditions listed in Section 2: Rotation Objectives: Knowledge Domain of this syllabus. The answers to all of these questions are referenced to the text listed as required reading for this rotation.

Scheduling The exam is self-scheduled. It may be scheduled during the last few days of the rotation, but must be taken no later than two weeks after the rotation ends.

Computer requirement The exam can be taken on any computer that meets the requirements for using Blackboard. The exam cannot be taken over a dial-up connection.

Limitations You may only attempt to take this post-test once. Once you start the exam, you must complete it in one sitting. It may not be saved to resume at a later time.

Scoring Upon submitting the exam, you will receive your score along with the correct answers and information on the chapter of the required text on which the question is based.

Honor Code The OU-COM Honor Code guides your behavior related to this exam. Form HC (posted on-line at [http://www.oucom.ohiou.edu/AcademicAffairs/Yr3-4Manual/2007-2009/HC\\_Exam\\_Signature\\_Sheet\\_07.pdf](http://www.oucom.ohiou.edu/AcademicAffairs/Yr3-4Manual/2007-2009/HC_Exam_Signature_Sheet_07.pdf)) must be signed and submitted to your CORE Administrator after submitting your exam. You will not receive a passing grade for the rotation unless this form is on file in the CORE office.

Time Penalty Blackboard will alert you when one minute remains to complete the exam. Blackboard does **not** automatically stop the test when you reach the time limit. You must manually submit the exam within 1 minute of receiving the 1-minute warning. **Your exam score will be reduced by 2 points for every minute that you exceed the time limit.** If you exceed the time limit, you will be notified via e-mail that your score has been reduced.

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Reassessment Failure to achieve a 60 percent on the examination will result in a second opportunity to take the exam. You may retake this exam no sooner than 48 hours after completion of the first post-clerkship exam. In the event of a second failure to achieve a score of 60 percent, you will meet with the CORE assistant dean to discuss areas of knowledge deficiency and to construct a plan for remediation.

If you have any questions regarding your exam, please contact your CORE Administrator.

### b. The Preceptor's Written Evaluation

A student must receive a passing grade from the preceptor in order to pass the rotation. If the preceptor considers the student *Marginal*, then a remediation recommendation should be made by the CORE Assistant Dean, in consultation with the preceptor, and submitted to the Associate Dean for approval. If the preceptor fails the student, the student is awarded a grade of "F" for the rotation regardless of the grade s/he received on the post-rotation exam. The failure must be forwarded to the CSP.

**NOTE: It is the responsibility of the student to ensure that the preceptor's evaluation is submitted to the CORE office within 2 weeks of the end of the rotation.**

### 6. Recommended Resources

The following resources have been identified for this rotation by the instructor of record. Note: Post-rotation exam questions are referenced to the required texts.

#### Required:

Hay, W., Levin, M., Sondheimer, R., & Deterding, R. (2007), *Current pediatric diagnosis and treatment*, (18th ed.) New York: McGraw-Hill. Also available on AccessMedicine

#### Reference for additional information:

Behrman, R., Kliegman R., & Jenson, H. (2007). *Nelson textbook of pediatrics*. (18th ed.). Philadelphia.: Saunders \* (**Available on MD consult**)

Robertson, J. (2005) *The Harriet Lane handbook: A manual for pediatric house officers* (17th ed.). Philadelphia.: Elsevier Mosby.

#### **The following have been identified as resources for ALL rotations by CORE preceptors.**

Cooper, D., H, Krainik, A., J., & Lubner, S., J. (2007). *The Washington manual of medical therapeutics*. (32nd ed.). Philadelphia: Lippincott Williams & Wilkins.

McPhee, S., J., Papadakis, M., A., & Tierney, L., M. (2007). *2007 Current medical diagnosis and treatment*. New

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York: McGraw-Hill. Also available on AccessMedicine

Ward, R. (2003). *Foundations for osteopathic medicine* (2nd ed.). Philadelphia: Lippincott Williams & Wilkins.

Medical Dictionary (Dorland or Taber)

CORE OMM Curriculum for Students and Interns. Materials available through CORE Office

PubMed ([www.pubmed.gov](http://www.pubmed.gov)) or  
PubMed configured to show OU resources  
(<http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?myncbshare=oucom>) or  
Medline available through OhioLINK (<http://rave.ohiolink.edu/databases/login/medl>)

National Guideline Clearing House (<http://www.guideline.gov/>)

AccessMedicine available to OU students at: [http://www.library.ohiou.edu/cgi-bin/redis\\_athensonly.pl?http://www.accessmedicine.com/](http://www.library.ohiou.edu/cgi-bin/redis_athensonly.pl?http://www.accessmedicine.com/)

Evidence-Based Medicine Resources available on OU-COM home page via Current Student dropdown menu:

Cochrane Library  
InfoPOEMs/InfoRetriever

MD Consult (Available to COM students for \$25 fee through Office of Academic Affairs/Pre-Doctoral Education)

### 7. Standards of Professional Conduct

The OU-COM Honor Code applies to all activities in the CORE as well as on the Athens campus.

“As a member of the medical profession, I will maintain the highest standards of academic and personal behavior. As a medical student I will not cheat or plagiarize or tolerate that behavior in others.” OU-COM Honor Code

Students are encouraged to study together and to share their knowledge freely with one another during the learning process. During examinations, however, no assistance from other students or from outside sources is allowed, unless explicitly permitted by the CORE office. Books, notes, and other materials must be left at the periphery of the testing area during examinations.

Professional standards required of a member of the Osteopathic profession are a requirement for passing this rotation, as is compliance with the professional standards of the hospital and outpatient offices of the student’s preceptor. Students are expected to maintain high

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professional standards of behaviors. They should exhibit such personal characteristics as honesty and integrity, as well as to maintain patient confidentiality at all times.

Unprofessional behavior may result in a failing grade in this rotation, regardless of other academic performance on this rotation, and could subject the student to dismissal from the hospital in which they are based. Professional conduct shall be evaluated by the CORE Assistant Dean through observation of and interaction with the student, his/her preceptor, other hospital attending physicians and staff.

### **8. Tips for Successfully Completing the Rotation**

Being successful on this rotation requires you to be a proactive student. Taking an interest in the specialty and becoming an active team member of the service is critical to learning in a clinical setting. Remember, the clinical learning environment differs from the classroom. You will be “thinking on your feet” and “learning as you go.” To capitalize on “the learning moment,” seek out opportunities to ask questions and speak up appropriately.

In addition, be sure to:

1. Review the syllabus to ensure that you understand all requirements.
2. Discuss with your preceptor your previous clinical experiences and personal goals and objectives for this rotation. The rotation orientation is an opportune time to initiate this discussion and to develop positive rapport with you preceptor.
3. Clarify your preceptor’s expectations of your activities.
4. Complete your skills and procedure log as you proceed through the rotation; avoid procrastinating until the end.
5. Come prepared to take advantage of the opportunities this rotation has to offer.

*If you have any questions, contact your CORE Administrator or CORE Assistant Dean.*

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### Skills and Procedures List

### Appendix A

During the Pediatrics rotation you must complete your procedures log on New Innovations. At the end of your clerkship, you must print out your procedure log, ask your preceptor to sign it, and turn it into the CORE office.

ABG interpretation	Injection, joint
Administration of blood and blood products	Injection, subcutaneous
Airway management/intubation	Intravenous Catheter Insertion - Central
Apgar score	Intravenous Catheter Insertion - Peripheral
Audiometry	Laceration/wound stapling
Bladder catheter insertion (Foley)	Laceration/wound suturing
Breast examination	Lumbar puncture
Cast application	Nasal packing
Cast removal	Newborn evaluation
Cerumen removal	Newborn resuscitation
Circumcision	NG tube placement
Comprehensive Hx (new admit/new patient)	OMT 1-2 regions
Comprehensive PE (new admit/new patient)	OMT 3-4 regions
CPR	OMT 5-6 regions
Culture, blood	OMT 7-8 regions
Culture, sputum	Ophthalmoscopic exam
Culture, stool	Osteopathic Exam
Culture, throat	Pap smear
Culture, urine	Patient education
Culture, vagina	Pelvic examination
Culture, wound	PFT interpretation
Debridement	PPD interpretation
Ear lavage	Prescription writing
EKG	Rapid strep test
EKG interpretation	Rectal exam
Excision, skin lesion	SOAP notes
Foreign body removal ear	Splint application
Foreign body removal eye	Splint removal
Foreign body removal nose	Steri-strip application
Foreign body removal skin	Suture removal
Foreign body removal throat	Taping procedure for sprains etc.
Fracture reduction	Tonometry
Glucose by fingerstick	Transfusion, blood and blood products
Hemoccult	Trichomonas prep
Imaging CT	Tuberculosis Testing
Imaging MRI	Tympanometry
Imaging x-ray	Ultrasound
Immunizations	urinalysis (dipstick and microscopic)
Incision and drainage of abscess	Venipuncture (for blood sampling)
Incision closure	Visual acuity/visual field testing
Injection, Intradermal	Wart Removal
Injection, intramuscular	
Injection, intravenous	