



Physician Development

Med II
Student Guide
2006-2007

Physician Development Med II

Clinical Interview and Physical Examination Course

INTRODUCTION.....	3
COURSE COMPONENTS	4
Course Overview	4
Course Objectives	5
OVERVIEW OF COURSE COMPONENTS	6
Introductory Lecture	6
Physical Examination Tutorials.....	6
Physical Exam Preceptorship	6
Advanced Topics in Clinical Interviewing.....	7
Hospital Based Preceptorship.....	7
Male and Female Genitalia Lecture-Demonstrations.....	7
Advanced Cardiac Life Support	8
Senior Partners.....	8
Objective Structured Clinical Examination (OSCE).....	9
STUDENT GRADES.....	10
READING ASSIGNMENTS.....	10
REQUIRED INSTRUMENTS	11
The Ten General Objectives	12
2006-2007 Physician Development Schedule	13

INTRODUCTION

The Med II Physician Development course will expand upon knowledge and skills acquired during Med I Physician Development. In addition, you will receive specific instruction in physical examination technique, problem-focused and complete history taking and strategies for clinical problem solving. During this course you will gain an appreciation for the art and science of the clinical interview and physical exam. This course will not teach physical diagnosis. The emphasis is on learning basic skills that can later be applied for diagnostic purposes.

This course requires active participation, cooperation with fellow students, outside practice, close contact with faculty members and volunteer patients, and most importantly—**self-directed learning**. The success of the course and your growth in the area of clinical problem solving depends upon these components.

Student Syllabus: The following pages contain an in-depth description of the course including detailed student objectives, assignments, and responsibilities. The student syllabus is not designed to take the place of the textbook, but should be used to help guide your studies throughout the year.

Questions/Problems: The Physician Development Program Coordinator, Amanda Jaconette, is available at 292-6445, and the Physician Development Program Assistant, Casey Leitwein is available at 292-9687. Both are located in the Med 1/Med 2 office, B053 Graves Hall, Monday-Friday, between 8:00 a.m. - 5:00 p.m. Amanda or Casey can help with scheduling questions and general information. If you have questions or problems that remain unresolved or would like to provide feedback on any part of the course, please contact us.

Doug Knutson, MD
Assistant Professor
Director, Physician Development
College of Medicine & Public Health
052 Meiling Hall
Knutson.1@osu.edu
292-6445

Joe Dusseau, MD
Clinical Assistant Professor
Associate Director, Physician Development
College of Medicine and Public Health
052 Meiling Hall
Joseph.Dusseau@osumc.edu
292-6445

COURSE COMPONENTS

- Physical Exam Tutorials (begin August 2006)
- Physical Exam Preceptorship (begins October 2006)
- ATCI- Advanced Topics in Clinical Interviewing (begins October 2006)
- Hospital-Based Preceptorship (begins January 2007)
- Male and Female GU exam tutorials (begin February 2007)
- Med 2 Physician Development OSCE (begins April 2007)
- Med 2 Senior Partners (various times through out the year)
- ACLS (begins Spring 2007)

Course Goal

The overall goal of Physician development is to enable the pre-clinical medical student to master the skills of interviewing and physical examination prior to beginning clinical clerkships. The goal of the Med 2 curriculum is to learn thorough examination skills and develop advanced interviewing techniques, allowing ample practice time in clinical settings.

Course Overview

Effective history taking is the key to formulating a diagnostic and therapeutic plan tailored to the individual patient. Physical examination complements the history to help “rule in” or “rule out” diagnostic possibilities. Despite technologic advancement, a careful history and skilled examination are still the best and most cost-effective tools for diagnosis.

While this course will not teach every examination technique, it will provide students with the skills thought to be important and valuable at this level of training. More specific or branched examination techniques will be learned in the clinical years.

Course Objectives

Students will:

1. Begin to learn how to synthesize and analyze information to formulate differential diagnoses and report this information in a meaningful way (both in verbal and written form).
2. Gain experience performing a comprehensive history and exam, a problem-focused history and exam, and a health promotion/disease prevention assessment, and know when to apply each.
3. Develop skills to perform a screening exam in each of the systems listed below; practice these examinations sufficiently to achieve mastery of system specific objectives; and be able to record the results of these examinations appropriately.
 - a. General Appearance and Vital Signs
 - b. Head and Neck Examination
 - c. Pulmonary and Thorax Examination
 - d. Cardiac and Peripheral Vascular Examination
 - e. Abdominal Examination
 - f. Neurological Examination
 - g. Male and Female Genitalia Examination- (will be taught via demonstration; practice of exams to achieve mastery will not be possible)

****Note: The musculoskeletal examination will be taught during the musculoskeletal block in the IP curriculum. ISP students are expected to attend these sessions. ****

4. Practice problem-focused histories and physicals during the Physical Exam Preceptorship; perform several complete histories and physicals, as well as write-ups of these examinations during Hospital-Based Preceptorship.
5. Be observed conducting a complete history and physical examination by a clinician, and receive feedback on interview and examination skills.
6. Continue to develop skills of professional presence during patient encounters in the preceptorship.
7. Assume primary responsibility for learning.

OVERVIEW OF COURSE COMPONENTS

Introductory Lecture

The course begins with an introductory lecture on Thursday, August 17 at 12:30 P.M. in 112 Meiling Hall. Below is a brief overview of each of the course components. A more extensive description of each component can be found in the appropriate section in the syllabus.

Physical Examination Tutorials

The physical examination tutorials are five afternoon sessions devoted to teaching physical examination techniques and use of examination equipment needed for screening exams of various organ systems.

Description: Students are assigned to a Tuesday (Group A - 1st session: August 22) or Thursday (Group B - 1st session: August 24) group and meet with the same faculty member for all five sessions. Attendance is required, and students are asked to remain in assigned groups. During these sessions, you will be examining, and be examined by, fellow students and thus need to be dressed appropriately. Students will NOT practice genital examinations on one another.

Evaluation: Each tutorial will begin with a quiz covering the assigned readings. Each quiz will be worth 10 points for a total of 50 points. Another 50 points will be awarded through a tutorial leader evaluation. This evaluation will be based on attendance, professionalism, skill development and participation.

Physical Exam Preceptorship

The purpose of the Physical Exam Preceptorship is to practice problem-focused histories and physical examinations.

Description: You will be assigned to a clinician in the ambulatory or hospital setting for four ½ day sessions. You are responsible to contact your preceptor and make arrangements for the sessions. **Please dress professionally including your white coat, and wear your hospital ID badge for all sessions.** Students will see patients and perform directed histories and physicals during the preceptorship. Students will complete a time log documenting time spent, and submit it to the Med 1/Med 2 office no later than Dec 9th. Students who have difficulty scheduling time with a preceptor should contact Amanda Jaconette.

Evaluation: Students may earn a total of 50 points in the Physical Exam Preceptorship. Points will be awarded through an evaluation completed by the preceptor. Students will be evaluated on professionalism, participation, and exam skills.

Patient Instructor Session

This is a one-hour session designed to allow you to practice the entire physical examination excluding genital examinations with a patient instructor.

Description: After completing the Physical Exam Tutorials you will sign up for a one-hour session with a patient instructor (a 4th year student who has been trained to give specific, individualized feedback on examination techniques). You will perform a complete physical exam on this patient instructor and receive feedback on your skills.

Evaluation: Students attending their session will earn 25 points. Those who miss their scheduled session will not receive any points whether or not the session is made up at a later date. Excused absences will be evaluated on a case-by-case basis.

Advanced Topics in Clinical Interviewing

ATCI is a course designed to practice advanced communication skills including differential diagnosis and difficult interview situations.

Description: Physician instructors lead this two-session course. Students review and practice interview skills including sexual histories and delivering bad news. There will be homework for each session, outlined in the manual for the course.

Evaluation: This course is worth 25 points and is based on attendance and homework.

Hospital Based Preceptorship

This preceptorship will begin with an introductory lecture on December 13th 12:30 AM-1:30 PM. The purpose of this preceptorship is for students to independently interview and examine hospitalized patients.

Description: The course consists of 4 afternoon sessions in January or February. Each week you will examine a patient and review the history. You will perform selected aspects of the exam with an instructor. There will be write-ups of several of the patient encounters for your instructor to review. The preceptor will also observe you performing a complete history and physical examination.

Evaluation: Students may earn a total of 50 points in the Hospital Based Preceptorship. Points will be awarded based on an evaluation completed by the preceptor. Students will be evaluated on professionalism, participation, history and physical exam skills as well as completed write-ups on patient interactions.

Male and Female Genitalia Lecture-Demonstrations

During these sessions, instructors will demonstrate the examination of the male and female genitalia.

Description: All students will observe a male and female genital examination in a small group session. Students should prepare by reading appropriate chapters in the textbook.

Evaluation: Attendance at these sessions is required. Make up sessions will not be scheduled.

Advanced Cardiac Life Support

The OSU College of Medicine requires that all Med 2 students become ACLS certified prior to starting the third year clerkships.

Description: The course consists of a 4-hour lecture and 8 hours of training. This is usually completed over two to three days in either April or May. If you take the course through the College of Medicine, there is no charge.

Evaluation: No grade is awarded for this portion of Physician Development, but it must be completed to continue in medical school. Students may certify outside the College, but must present a valid certification card to Amanda Jaconette upon completion. Those students who do not have evidence of ACLS certification cannot begin Med 3, and will receive a grade of “Incomplete” in Physician Development for Med 2.

Senior Partners

The Senior Partners program will allow students to have a longitudinal patient care experience with an elderly community member. Through this relationship, students will be able to practice skills learned in Physician Development throughout the year.

Description: The Senior Partners program will have specific assignments to complete throughout the Med 2 year. This will include more detailed interviews and assessments of your senior. Each assignment will be preceded by an informational session regarding the topic, and email reminders will be sent regarding due dates. Please refer to your Physician Development calendar for due dates, and your Senior Partners website (<http://seniorpartners.osu.edu>) for more information.

Evaluation: Students may earn a total of 100 points in the Senior Partners component of Physician Development. Each student begins the year with 100 points, and points are deducted if assignments are completed after an assigned due date. One point is deducted for each day an assignment is late. If there is an unavoidable delay in completing an assignment, please notify Michelle Myers, Program Coordinator, **BEFORE THE DUE DATE** (myers.654@osu.edu or 293-7914).

Objective Structured Clinical Examination (OSCE)

The Med 2 PD/PCM OSCE will measure student clinical performance on the skills taught over the last two years. This is intended to assess the student's ability to perform a focused history and physical examination, and will include difficult situations reviewed in the ATCI course.

Description: All students will take an Objective Structured Clinical Examination (OSCE) in the Clinical Skills Lab near the end of the Physician Development Course. Students will interview several patients and perform selected tasks (for example, obtain a history of present illness and perform a head and neck exam). Students will also be required to perform an advanced interview technique such as delivering bad news or handling a difficult patient. Skills taught in PCM will also be covered. Prior to the examination, we will provide more specific information regarding what will be covered on the examination.

Evaluation: Students can earn a total of 100 points on the OSCE. Points are awarded based on checklists completed by the standardized patients, and on the answers to "quizzes" that assess the completeness of the history taken by the students.

STUDENT GRADES

Students receive a grade in Physician Development that is separate from the rest of the Med 2 curriculum. As identified in the descriptions of each course component above, these are the point values attached to each course component.

Physical Examination Quizzes:	50 points
Physical Examination tutorial evaluation:	50 points
Physical Exam Preceptorship:	50 points
Hospital-Based Preceptorship:	50 points
ATCI:	25 points
Patient Instructor Session:	25 points
Senior Partners:	100 points
PD Med 2 OSCE:	<u>100 points</u>
Total Points	450 points

Students who score in the top 10 percent will be eligible to receive a grade of “**Honors**” in Physician Development.

Students who score in the next 15 percent will be eligible to receive a grade of “**Letter of Commendation**” in Physician Development.

Timely completion of assignments will be considered in determining overall grade. Students who are late completing course requirements will hinder their ability to earn letters or honors.

Students who score 315 or above (70%), but are not within the top 25% of the class will receive a grade of “**Pass**” in Physician Development.

Students who score below 315 will fail the course and will be referred to the Physician Development Student Review Committee for determination of appropriate follow up. The committee may develop a plan for remediation or require that the student repeat the course.

READING ASSIGNMENTS

Reading assignments will be made from Bates’ Guide To Physical Examinations and History Taking (Either the Eighth or Ninth edition will be acceptable) by Lynn S. Bickley and from materials included in the syllabus or distributed at a later date.

REQUIRED INSTRUMENTS

1. Oto-ophthalmoscope- instruments that combine the otoscope and ophthalmoscope are desirable so you do not have to purchase two power sources.
2. Reflex hammers- there are many varieties. Most popular are those that have a rubber triangle at the head (tomahawk); however, often recommended is the “Babinski” reflex hammer. Both can be purchased in the medical bookstore.
3. Stethoscope- certain features are necessary. The stethoscope should have a flat diaphragm (for high-pitched sounds), and a bell (for detecting low pitched sounds). A rubber rim around the bell is desirable (which helps to prevent the bell from being converted into a diaphragm inadvertently with pressure against the chest wall). Tubing approximately 12 inches long is best (the shorter the tubing the better). Comfortable ear pieces are critical. Remember, this purchase should last you for many years of your medical career.
4. Tuning forks- probably the best for testing vibratory sense is the C-128 HZ tuning fork. However, to detect sensorineural defects in hearing a 512 Hz or 1024 HZ is needed. You need to purchase at least a C-128 HZ and 512 Hz
5. Light source- often a penlight is suggested. However, penlights purchased in the bookstore often have a short life span and provide a “flickering” light that is not very bright. Alternatively, the light source from the Oto-ophthalmoscope can be used, or a penlight purchased at a sporting goods store may be used.
6. Ruler- preferable one that is calibrated in inches and centimeters. This can be combined with a hand-held Rosenbaum pocket eye chart (eye chart for visual acuity), found in the medical bookstore.
7. Rosenbaum Pocket Eye Chart- these are hand held visual acuity charts that will fit into a coat pocket, and have pictorial estimates for pupil size. One edge is designed to be a ruler. Rosenbaum charts are available in the medical bookstore.
8. Sphygmomanometer- (optional) This instrument is often used during the second-year of medical school. Choose one with an aneroid pressure gauge, and be sure there is not a pin stop at the “zero” mark.

The Ten General Objectives
of
The Ohio State University College of Medicine and Public Health
M.D. Curriculum

The purpose of the M.D. curriculum is to prepare students for post-graduate education and the eventual practice of medicine. Towards that purpose, each graduate of the College of Medicine and Public Health must:

- A. Acquire knowledge and skills to promote health and prevent disease.
- B. Acquire the basic clinical knowledge and skills for the diagnosis and management of the spectrum of diseases, occurring in individual patients as well as in special populations, with the emphasis on common disorders.
- C. Acquire the skills necessary to remain current with scientific research and new discoveries that influence patient care.
- D. Commit to life-long learning and professional development.
- E. Demonstrate compassion, show respect, and take responsibility for patients, their families, one's colleagues, and all other health care delivery participants.
- F. Demonstrate effective communication with patients, families, colleagues, and other health care providers.
- G. Develop and use analytic problem-solving skills.
- H. Develop knowledge and skills for patient advocacy and cost-effective care through an understanding of contemporary health care delivery systems.
- I. Recognize, acknowledge, and address ethical issues related to patient care, resource management, and professional practice.
- J. Understand the fundamental knowledge, principles, and processes of the science basic to the practice of medicine.

The above objectives are in alphabetical order. All ten are important, and must be accomplished to graduate. Each will have differing emphasis during specific phases of the curriculum.

Approved by:

Executive Curriculum Committee 6/14/96
Council of Chairs 7/18/96
Faculty Council 7/24/96

2005-2006 Physician Development Schedule

Doug Knutson, MD, Director, Physician Development

Allison Macerollo, MD, Associate Director, Physician Development

Amanda Jaconette, Program Coordinator, Physician Development, 292-6445

Casey Leitwein, Program Assistant, Physician Development, 292-9687

Med 2

Physician Development Intro Lecture			
Date	Day	Time	Group
8/17/2006	Thursday	8:00 AM - 8:30 AM	All

PE Tutorials			
Date	Day	Time	Group
8/22/2006	Tuesday	2:15-5:00 PM	#1-A
8/24/2006	Thursday	2:15-5:00 PM	#1-B
9/5/2006	Tuesday	2:15-5:00 PM	#2-A
9/7/2006	Thursday	2:15-5:00 PM	#2-B
9/12/2006	Tuesday	2:15-5:00 PM	#3-A
9/14/2006	Thursday	2:15-5:00 PM	#3-B
9/26/2006	Tuesday	2:15-5:00 PM	#4-A
9/28/2006	Thursday	2:15-5:00 PM	#4-B
10/3/2006	Tuesday	2:15-5:00 PM	#5-A
10/5/2006	Thursday	2:15-5:00 PM	#5-B

Physical Exam Preceptorship			
10/9/2006 -12/8/2006			

ATCI			
Date	Day	Time	Group
10/17/2006	Tuesday	1:30-4:30 PM	#1-A
10/19/2006	Thursday	1:30-4:30 PM	#1-B
10/24/2006	Tuesday	1:30-4:30 PM	#2-A
10/26/2006	Thursday	1:30-4:30 PM	#2-B

Patient Instructor			
Date	Day	Time	Group
10/31/2006	Tuesday	5:00 PM – 9:00 PM	As Assigned
11/7/2006	Tuesday	5:00 PM – 9:00 PM	As Assigned
11/8/2006	Wednesday	5:00 PM – 9:00 PM	As Assigned
11/9/2006	Thursday	5:00 PM – 9:00 PM	As Assigned
11/14/2006	Tuesday	5:00 PM – 9:00 PM	As Assigned
11/15/2006	Wednesday	5:00 PM – 9:00 PM	As Assigned
11/16/2006	Thursday	5:00 PM – 9:00 PM	As Assigned
11/28/2006	Tuesday	5:00 PM – 9:00 PM	As Assigned
11/30/2006	Thursday	5:00 PM – 9:00 PM	As Assigned

Hospital Based Preceptorship

January			
Date	Day	Time	Group
12/13/2007	Wednesday	13:30 PM – 1:30 PM	ALL - Lecture
1/4/2007	Thursday	1:30-5:30 PM	#1-B
1/9/2007	Tuesday	1:30-5:30 PM	#1-A
1/11/2007	Thursday	1:30-5:30 PM	#2-B
1/16/2007	Tuesday	1:30-5:30 PM	#2-A
1/18/2007	Thursday	1:30-5:30 PM	#3-B
1/23/2007	Tuesday	1:30-5:30 PM	#3-A
1/25/2007	Thursday	1:30-5:30 PM	#4-B
1/30/2007	Tuesday	1:30-5:30 PM	#4-A
February			
2/1/2007	Thursday	1:30-5:30 PM	#1-B
2/6/2007	Tuesday	1:30-5:30 PM	#1-A
2/8/2007	Thursday	1:30-5:30 PM	#2-B
2/13/2007	Tuesday	1:30-5:30 PM	#2-A
2/15/2007	Thursday	1:30-5:30 PM	#3-B
2/20/2007	Tuesday	1:30-5:30 PM	#3-A
2/22/2007	Thursday	1:30-5:30 PM	#4-B
2/27/2007	Tuesday	1:30-5:30 PM	#4-A

Male/Female GU			
Date	Day	Time	Group
2/20/2007	Tuesday	1:30-4:30 PM	As Assigned
2/22/2007	Thursday	1:30-4:30 PM	As Assigned
2/27/2007	Tuesday	1:30-4:30 PM	As Assigned
3/6/2007	Tuesday	1:30-4:30 PM	As Assigned
3/8/2007	Thursday	1:30-4:30 PM	As Assigned
3/13/2007	Tuesday	1:30-4:30 PM	As Assigned
3/15/2007	Thursday	1:30-4:30 PM	As Assigned
3/20/2007	Tuesday	1:30-4:30 PM	As Assigned

ACLS			
Date	Day	Time	Group
4/9/2007	Monday	7:15 AM -11:30 AM	All - Lecture
4/9/2007 – 4/10/2007	Monday/Tuesday	12:30-4:30 PM	As Assigned
4/11/2007 – 4/12/2007	Wednesday/Thursday	12:30-4:30 PM	As Assigned
4/16/2007 – 4/17/2007	Monday/Tuesday	12:30-4:30 PM	As Assigned
4/18/2007 – 4/19/2007	Wednesday/Thursday	12:30-4:30 PM	As Assigned
4/23/2007 – 4/24/2007	Monday/Tuesday	12:30-4:30 PM	As Assigned
4/25/2007 – 4/26/2007	Wednesday/Thursday	12:30-4:30 PM	As Assigned

OSCE			
Date	Day	Time	Group
4/11/2007	Wednesday	1:00 PM – 7:00 PM	As Assigned
4/12/2007	Thursday	1:00 PM – 7:00 PM	As Assigned
4/16/2007	Monday	1:00 PM – 7:00 PM	As Assigned
4/17/2007	Tuesday	1:00 PM – 7:00 PM	As Assigned
4/18/2007	Wednesday	1:00 PM – 7:00 PM	As Assigned
4/19/2007	Thursday	1:00 PM – 7:00 PM	As Assigned

Senior Partners		
Date	Day	
9/25/2006	Monday	Assignment Due Date
11/27/2006	Monday	Assignment Due Date
2/21/2006	Monday	Assignment Due Date
4/2/2007	Monday	Assignment Due Date