PHYSICIAN ASSISTANT PROGRAM

GASTROENTEROLOGY

FPMD 6011 – PATHOPHYSIOLOGY I

KEITH TOLMAN, MD
HAL COLE, MD

FALL SEMESTER, 2010

PA 41
2010-2012
UNIVERSITY OF UTAH PHYSICIAN ASSISTANT PROGRAM
Department of Family and Preventive Medicine

COURSE NUMBER AND NAME: 6011 – Pathophysiology I

TOTAL COURSE CREDITS: 5

COURSE DESCRIPTION:

Comprehensive study of the various body systems and common primary-care problems particular to the areas of: Infectious Disease, Surface Anatomy, Wound Management, Pediatrics, Adolescent Med., Orthopedics, ENT, Ophthalmology and Gastroenterology.

CLASS TITLE: Gastroenterology

ACADEMIC TERM(S) OFFERED: Fall Semester

FACULTY:
Keith Tolman, MD  Ph: 801-277-2770
Hal Cole, MD  Ph: 801-486-6941

COURSE OBJECTIVES:

Upon completion of this component, the PA student will demonstrate knowledge of the following concepts related to Gastroenterology:

General Objectives
PA students will be able to:

1. Distinguish gastrointestinal symptoms from non-gastrointestinal symptoms (MK)
2. Diagnose and treat common gastrointestinal diseases (MK)
3. Describe the pathophysiology of common clinical gastrointestinal problems (MK/ICS)
4. Evaluate patients presenting with abdominal pain, heartburn, dysphagia, dyspepsia, hemoccult positive stool, iron deficiency anemia, constipation, diarrhea, elevated ALT, and jaundice. (MK/PC)
5. Perform a complete physical exam (including rectal exam) relating to the gastrointestinal system in coordination with physical diagnosis course. (PC)
6. Predict risk for gastrointestinal diseases based on socioeconomic/lifestyle issues (PC/ICS)
7. Recognize common genetic gastrointestinal disorders and to recognize genetic predisposition to predict common gastrointestinal disorders (MK/PC)
8. Distinguish alarm from non-alarm symptoms and make appropriate referrals (MK/ICS/PC/PROF)

Genetic Objectives for Gastrointestinal Disease

PA students will:
1. Discuss what constitutes a positive family history for a gastrointestinal illness and identify who in a family may benefit from screening and preventive interventions. (MK)
2. For hereditary colon cancer (MK)
   - Identify red flags in pedigrees for identifying hereditary colon cancer syndromes
   - Differentiate between familial colon cancer, Hereditary Nonpolyposis Colorectal Cancer (HNPCC), and Familial Adenomatous Polyposis (FAP), and discuss different strategies for diagnosis, surveillance, cancer prevention, referral, and primary care management.
3. Recognize and be able to discuss clinical features, mode of inheritance (if known), complications, potential screening and diagnosis strategies, prevention, and primary care management of the following gastrointestinal diseases that are either genetically transmitted or have a strong genetic/familial component: (MK/ICS/PC)
   - Inflammatory bowel disease (i.e., Crohn’s disease, ulcerative colitis)
   - Alpha-1-antitrypsin deficiency
   - Hereditary hemochromatosis (HH)
   - Celiac disease
   - Wilson’s disease
   - Disorders of bilirubin metabolism

Social/Economic Objectives

PA students will:
1. Identify social issues which impact on care: (PROF/SBP)
   a. transportation eg. access to public transportation
   b. culture, religious issues; eg. denial of care to children or terminally ill, refusal of transfusions or transplantation, abortion issues.
2. Identify economic issues: (PROF/SBP)
   a. access to care
   b. impact of co-payment
   c. insurance impact on emergency care

TEACHING METHODS:
Lecture and discussion.

INSTRUCTOR PERFORMANCE OBJECTIVES:
1. Help students identify useful and available learning resources.
2. Utilize a variety of classroom instructional procedures.
3. Help the class members achieve course objectives.

4. Provide a course syllabus, schedule of activities and evaluation mechanisms.

5. Help provide an environment that nurtures learning and development of a student’s self-esteem and sense of accomplishment.

6. Clarify unfamiliar or unclear ideas.

7. Facilitate learning activities.


9. Provide meaningful feedback to students.

10. Be open to meaningful feedback from students.

**TOPICAL OUTLINE OF MAJOR AREAS TO BE TAUGHT:**

- Abdominal Pain
- Heartburn, Dysphagia, Dyspepsia
- Occult GI Bleeding, Fe Deficiency Anemia
- Diarrhea, Constipation, Colon Cancer
- Jaundice, Natural History and Assessment of Liver Disease
- Diseases of the Hepatobiliary System
- Case Reviews

**COURSE REQUIREMENTS:**

- Attendance (includes being on time) and participation.
- Additional assignments, when required by instructor.
- Satisfactorily pass each proficiency examination with a "73%" or higher. One repeat is permitted. In the case of a repeat proficiency exam, the score will be averaged and the final grade for the class will be submitted as a "73%" or a "C" grade.

**EVALUATION SCHEME:**

- Attendance, discussion and participation are expected, and may effect your final grade.

- Proficiency examinations:

<table>
<thead>
<tr>
<th>PASSING GRADES</th>
<th>FAILING GRADES</th>
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<tbody>
<tr>
<td><strong>Letter Grade</strong></td>
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<tr>
<td>A</td>
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<td>86-89</td>
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<td>B</td>
<td>82-85</td>
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REQUIRED TESTS:
Listed when required.

RECOMMENDED TEXTS:
Listed when recommended.

PLEASE NOTE: The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in the class, reasonable prior notice needs to be given to the Center for Disability Services, 162 Olpin Union Building, 581-5020 (V/TDD). CDS will work with you and the instructor to make arrangements for accommodations.

All written information in this course can be made available in alternative format with prior notification to the Center for Disability Services.

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**Gastroenterology Schedule**  
**Fall Semester, 2010**  
Keith G. Tolman, MD  
Hal Cole, MD

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Time</th>
<th>Topic</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>Oct 21</td>
<td>Thu</td>
<td>8-10am</td>
<td>Clinical Aspects of Abdominal Pain</td>
<td>Keith Tolman, MD</td>
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<tr>
<td>Oct 28</td>
<td>Thu</td>
<td>10-12pm</td>
<td>Heartburn, Dysphagia, Dyspepsia, GERD, PUD</td>
<td>Hal Cole, MD</td>
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<tr>
<td>Nov 4</td>
<td>Thu</td>
<td>10-12pm</td>
<td>Diarrhea and Constipation</td>
<td>Hal Cole, MD</td>
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<td>Nov 11</td>
<td>Thu</td>
<td>10-12pm</td>
<td>Fe def Anemia, Occult GI Bleeding, Colon Cancer Screening</td>
<td>Hal Cole, MD</td>
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<tr>
<td>Nov 18</td>
<td>Thu</td>
<td>10-12pm</td>
<td>Jaundice, Natural History and Assessment of Hepatobiliary Disease</td>
<td>Keith Tolman, MD</td>
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<tr>
<td>Dec 2</td>
<td>Thu</td>
<td>10-12pm</td>
<td>Diseases of the Hepatobiliary System</td>
<td>Keith Tolman, MD</td>
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<td>Dec 6</td>
<td>Mon</td>
<td>10-12pm</td>
<td>Review</td>
<td>Faculty</td>
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<td><strong>Dec 15</strong></td>
<td><strong>Wed</strong></td>
<td><strong>8-10am</strong></td>
<td><strong>Final Exam</strong></td>
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