



Pathology I

PATH 400

Course Description

Pathology I introduces students to an understanding of the alterations in cells and tissues in response to harmful stimuli. These acquired skills of general pathology including inflammation, ischemia, infarction, necrosis and neoplasia will be applied to specific organ systems.

Credit: 6.0 credits

Repeatable: No

Competencies: At the end of Pathology I and Pathology II, the student will have the opportunity to practice the following competencies through meeting the objectives of the course:

Medical Knowledge

- MK1 Demonstrate knowledge of normal and abnormal structure and function of the human body on the macroscopic, microscopic and molecular levels.
- MK2 Identify the pathology and pathophysiology of various diseases and correlate them with clinical signs and symptoms.
- MK3 Demonstrate knowledge of common or significant, acute and chronic clinical problems.
- MK4 Differentiate between normal and abnormal development and age-related changes across the life span.
- MK5 Demonstrate comprehension of clinical interventions and agents including pharmaceutical, surgical, genetic, complementary and alternative medicines, and other therapies.
- MK7 Demonstrate knowledge of preventive medicine and current guidelines for health promotion and disease screening.

Course Structure

The study of Pathology is to recognize the structural alterations in cells and the effects of these changes on cells' and tissues' functions and ultimately the effects on patient's health. The main goal for the Pathology faculty is to guide students to develop sound knowledge based on general concepts of disease process i.e., cause, pathogenesis, gross and microscopic changes in the tissues from the particular disorder and finally laboratory diagnosis and prognosis.

Pathology is broadly divided into General Pathology and Systemic Pathology. In General Pathology, during term 3 students learn about the reactions of cells and tissues to abnormal stimuli and inherited defects. Systemic Pathology, during term 4, helps the students to understand changes in the specialized organs and tissues in relation to disorders.

Team Based Learning (TBL) as the integral part of active learning enhances students' understanding of concepts covered in the classroom, improves the ability to solve "higher order" questions, and encourages collaboration between peers.

The main theme is to develop a friendly learning environment of active discussion, independent and critical thinking and self-learning with the purpose of developing and producing the most competent diagnostic consultants that can work effectively both as leaders and team members.

Objectives

1. To provide students with the opportunity for detailed study of various aspects of pathology
2. To provide a stimulating and challenging learning environment where teaching is informed and enhanced by research
3. To provide training in scientific methodology and experience in the evaluation and practice of research
4. To bridge knowledge and skills learned in basic sciences with clinical medicine

Schedule: Available through the online calendar.

Lecture topic schedule

Each lecture is well-planned and updated. It is designed to introduce the topic meaningfully. The lectures are supplemented by resourceful power point presentation complemented with interactive sessions. A review is held at the end of every chapter. Students are welcome to clarify doubts during the lecture sessions. Lectures are available in student's drive.

Lab Schedule

Laboratory sessions will be in a virtual microscopy format for every chapter and will follow the lecture sessions on the same chapter. The students will compare normal histological slides with pathological alterations.

Textbooks and Reference Materials

Robbins & Cotran Pathologic Basis of Disease, 9th Edition
By Vinay Kumar, MBBS, MD, FRCPath, Abul K. Abbas, MBBS, Nelson Fausto, MD and Jon Aster, MD, Elsevier. ISBN: 978-0-8089-2450-0

Kaplan USMLE Step I lecture notes
Publisher: Kaplan Medical (2016) ASIN: B002WW9JLK

Robbins and Cotran: Review of Pathology, 4th edition, 2015. ISBN: 987-1-4557-5155-6

Toronto Review Notes (March 1, 2010)
Paperback: 1400 pages,
ISBN-10: 1506200494

Evaluation

Exams and Grading

- There will be two quizzes, a midterm, and a final cumulative exam.
- There will be pre-exam review before each exam and post-exam reviews for both exams and Quizzes. There will be no post-exam review for final exam.
- **Material covered on the exams and individual exams may be weighted.**
 - *The exams are in multiple choice formats. Each question will be assigned approximately 75 seconds. Exams 1 and 2 will have approximately 70 questions each. The each quiz will be about 30 questions based on Gross and Microscopic pictures.
- The final exam will be cumulative one (10% of questions) and will have approximately 70 questions.
- These are approximate percentages of weight for the individual exam. All efforts will be made to give equal weight to each question. **The # of questions is subject to change.**
- Every attempt possible will be made to phrase exam questions clear and unambiguous.
- Exams will focus on but may not be limited to the material that has been covered in class.
- **Note: All material covered by the reading assignments plus all of the additional material supplied during the course is testable.**
- Exams will not be curved. Cumulative score will be curved to 80% (class average) at the end of the course.
- Performance grades from each exam will be directly communicated to the students on an individual and confidential basis after Academic Progress Committee meeting for Examinations 1 & 2. The grades for the quizzes will be posted with student secret numbers on the same day.
- Exam reviews will be held on the next working day after the exams.
- No personal review of the Quizzes and exams, only class reviews of the concepts of the exam's questions.
- The final exam will be cumulative subject exam (10% of the exam's questions).
- *A failing grade ("zero") will be assigned for a missed exam. The only acceptable exceptions are documented emergencies. A make-up exam for a failed students will be decided on individual cases by the School administration.

Grade:

Percent of Points	Letter Grade
95-100%	A(h)
90-94%	A
85-89%	B+
80-84%	B
75-79%	C+
70-74%	C
<70%	F

Faculty:

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