

BMS 6602

Pathology 202

Spring 2013

Table of Contents

Instructors	3
Course Director	3
Faculty	3
Facilitators	3
Course Overview	4
Course Goals	4
Learning Objectives	4
Integration with FSU COM Goals and Objectives:	5
Course Format	6
Lectures/Discussions/Tutorials	6
Small Groups Discussions (SMG)	6
Clinical-Pathologic Correlation (CPC)	7
Competencies	7
Policies	8
Americans with Disabilities Act	8
Academic Honor Code	8
Attendance Policy	8
BMS 6602 Attendance Policy	8
Required Materials	8
Required Texts	9
PowerPoint Lectures	9
Suggested Materials	9
Recommended Text	9
Electronic Supplement	9
Grading	10
Assignments	10
Block Examinations	10
Quizzes	10
Final Comprehensive Exam	10
Small Group Sessions	10
Clinical-Pathologic Correlation (CPC)	10
Grading Scale	11

Instructors

Course Director

Jose Diaz, M.D., Ph.D.

Room 2350-K

Office Hours: 8am-6pm (12-2:00 pm preferred) by appointment.

jose.diaz@med.fsu.edu (Please contact by email)

Faculty

John Blackmon, M.D. (Assistant Course Director)

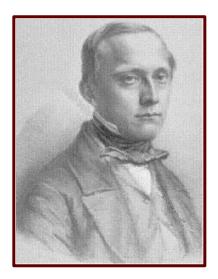
Office Hours: 8am-6pm (12-1:00 pm preferred) by appointment.

john.blackmon@med.fsu.edu (Please contact by email)

Facilitators

Small group facilitators are drawn from the FSUCOM faculty

Course Goals



Rudolf Virchow (1821 - 1902)

Virchow was called the "Pope" of Medicine and is considered the father of Pathology and modern medicine. His dictum "all cells come from other cells" altered the scientific views and the direction of medicine at the time. He established the "cellular theory" as the origin of disease and thought disease was produced by disturbances in the structure and function of cells.

The Pathology 202 course in the spring semester covers the pathophysiology of disease in medicine by organ systems for all the organs (Systemic Pathology), except for the cardiovascular and respiratory systems which were already covered in the Pathology 201 course. Material from the systemic pathology lectures and small group discussions will be used to elaborate further about the general pathology/pathophysiology principles learned during the Pathology 201 course. There is no specific section for Laboratory Medicine in this course. However, all important laboratory tests, the interpretation of their results and the guidelines for its appropriate and cost-effective ordering are covered in the lectures and the small group discussions about each organ system in the Pathology 202 course (also in Doctoring) for each specific disease. The knowledge gained from the study of organ system diseases correlates with other courses during the semester, particularly with Doctoring and will be applied to clerkships in the 3rd and 4th years. This course will incorporate gross pathologic, microscopic, laboratory, radiologic, and other material to assist you in understanding the disease processes and prepare you for licensing examinations as well as provide you with a foundation for future patient care. In summary, the knowledge gained from the study of pathology will integrate with other courses to provide you with a foundation for future patient care.

Learning Objectives

Demonstrate knowledge, skills or ability on the following:

- 1. Demonstrate knowledge of the molecular, genetic and cellular basis for the diseases affecting the organ systems covered in this course.
- 2. Demonstrate knowledge of the pathophysiology of the conditions encountered in clinical practice for all the organ systems covered in this course.
- 3. Demonstrate the ability to recognize abnormal gross and microscopic findings in the context of the clinical problem for all the organ systems covered in this course.
- 4. Demonstrate the ability to interpret laboratory findings associated with the disease conditions for all the organ systems covered in this course and be able to use the laboratory for diagnostic purposes, including indications for ordering and proper specimen collection.
- 5. Demonstrate knowledge of the appropriate application of autopsy and surgical pathology findings to quality assurance for improvement of clinical practice.
- 6. Demonstrate the ability to form differential diagnoses based upon pathologic findings.

- 7. Demonstrate knowledge of the use of clinical-pathologic correlation to understand disease conditions.
- 8. Demonstrate knowledge of the radiologic findings that accompany pathologic lesions affecting the organ systems covered in this course.
- 9. Demonstrate problem solving ability when presented with patient scenarios including pathologic findings.
- 10. Demonstrate skills in evidence-based medicine to obtain information involved in solving case-based problems.
- 11. Develop the ability to meet compliance standards when ordering laboratory tests.
- 12. Demonstrate professionalism in working with colleagues and faculty.
- 13. Demonstrate an attitude of care and concern for patients and their families affected by pathologic disease states.
- 14. Treat patients, as represented by laboratory, pathology, and radiologic specimens and records, with respect, dignity, and confidentiality.
- 15. Locate appropriate resources (e.g. journal articles) and apply the information to small group cases and other pathologic discussions/study.

Integration with FSU COM Goals and Objectives

Knowledge

- * Demonstrate knowledge about the application of the scientific bases of health, disease, and medicine to common and high impact medical conditions in contemporary society.
- * Describe the development, structure and function of the healthy human body and each of its major organ systems reviewed on this course (cardiovascular and respiratory) at the macroscopic, microscopic, and molecular levels.
- * Recognize and discuss the implications of altered structure and function (pathology and pathophysiology) of the body and its major organ systems reviewed on this course that is seen in the various diseases and conditions.
- * Identify changes in the structure and function of the human body associated with the aging process and be able to distinguish normal changes associated with aging from those that denote disease.
- * Describe the molecular basis of diseases and the way in which they affect the body (pathogenesis).
- * Demonstrate the ability to use basic biobehavioral and clinical science principles to analyze and solve problems related to the diagnosis, treatment, and prevention of disease.
- * Recognize the implications of cultural, social, economic, legal, and historical contexts for patient care.
- * Describe strategies to support lifelong learning via both print and electronic sources to assist in making diagnostic and treatment decisions (e.g., practice guidelines) and to remain current with advances in medical knowledge and practice (e.g., medical information data bases).

Skills

- * Demonstrate the appropriate use of laboratory tests and radiographic studies in making diagnostic and treatment decisions.
- * Demonstrate the ability to evaluate the patient's medical problems and to formulate accurate hypotheses to serve as the basis for making diagnostic and treatment decisions.
- * Demonstrate the ability to acquire new information and data and to critically appraise its validity and applicability to one's professional decisions, including the application of information systems technologies for support of clinical decision-making.

Attitudes/Behaviors

* Demonstrate professionalism and high ethical standards in all aspects of medical practice, specifically competence, honesty, integrity, compassion, respect for others, professional responsibility and social responsibility.

Course Format

Locations for all course activities are indicated in the class calendar in OUTLOOK. Materials for each activity can be found on the course's Blackboard site. **Note:** the schedule is subject to change, and the student is advised to check the OUTLOOK class calendar frequently. Notification of changes in the schedule will also be e-mailed to the class and posted as Announcements on Blackboard.

Lectures/Discussions/Tutorials

Check locations for course activities in your FSUCOM master OUTLOOK class calendar. Materials for these events can be found at the course's Blackboard site (http://campus.fsu.edu). The lectures are designed to cover the course content in an organized fashion, illustrating the concepts and allowing time for you to ask questions.

Small Groups Discussions (SMG)

Attendance to all SMG sessions is mandatory. You will be assigned to one of the Learning Community team rooms. To encourage more active participation among students, one student will be acting as a *team leader* of the SMG for each particular session. Students will rotate to take this role. The student team leader will be appropriately instructed in a **preview session** and supervised by a *faculty facilitator* (one faculty for each LC rotating trough the small rooms). The last 40 minutes of each small group discussion will be a wrap up session given by faculty in the lecture room.

Small group sessions are not video recorded, are very interactive and constitute a unique experience that must be taken in real time. While initial learning occurs by attending/reviewing and reading lecture and text book materials, the SMG discussions are the "application" phase of the learning process and as such, reinforce and place into clinical context your knowledge and provide a unique opportunity for testing your skills and proficiency on some of the competency domains adopted at FSUCOM: 1) patient care, 2) medical knowledge and 3) communication skills. While it is not possible to be professionally competent without adequate knowledge, the knowledge alone does not guarantee competency, which is the practical translation of medical knowledge and many additional skills necessary to practice medicine with the highest standards. In addition, some questions on the quizzes could be inspired by the cases discussed during the small group sessions.

Our SMG sessions are based on a "clinical case presentation" model. These sessions test your knowledge and competency in a simulated environment closely resembling real clinical situations. The SMG sessions are a unique opportunity to apply your knowledge while interacting with faculty and other students. Students will be evaluated by the student team leader and faculty for attendance and performance, including professionalism. Students acting as leaders will also be independently evaluated for performance and professionalism by assigned faculty. Unexcused absence from the SMG discussions or the corresponding preview session for those acting as student leaders for a particular session will be reported to Student' Affairs. More than two unexcused absences from SMG sessions will result in a "Fail" grade for the course. While attendance to all SMG sessions in the LC is required, attendance to the wrap up sessions in the lecture room is at your discretion. The wrap-up sessions are recorded. You may choose to attend the session in real time or review the on-line version.

Clinical-Pathologic Correlation (CPC)

The CPC are cases presented by groups of four to five medical students in a 40 minute formal presentation followed by 10 minutes for questions and according to the following format:

- 1. Case history, workup tests as per differential diagnosis and final diagnosis
- 2. Symptoms in a typical case
- 3. Pathophysiology of the disease
- 4. Epidemiology (occurrence, routes of transmission, prevalence, etc.)
- 5. Treatment methods
- 6. Prognosis

A group of faculty (pathologists and clinicians) will attend the presentations and evaluate the performance. The CPC presentations begin during the last block of the Fall semester and continue during the Pathology 202 course. Satisfactory attendance and performance as a presenter of a CPC or as an audience member is necessary to pass the Pathology 202 course in the Spring semester. Therefore, CPC attendance and performance are assessed collectively across both semesters. Students are required to attend 50% of the total CPC sessions in each semester. Typically, each day we conduct CPC sessions two teams of students present two independent 50 minute sessions. Each 50 minute session counts separately toward the 50%attendance requirement. There will be 6 sessions on the fall semester (you must attend 3 or more) and 18 in the spring semester (you must attend 9 or more). Of course, you are obligated to attend the session in which your team is presenting.

Competencies

FSUCOM – Competencies –Pathology 202BMS 6602			
Competency Domains	Competencies Covered in the Course	Methods of Assessment	
Patient Care	X *	Internal Exams, Quizzes and Case Study Problem Solving in SMG Discussions	
Medical Knowledge	Х	Internal Exams, Quizzes, NBME Comprehensive Basic Science Exam, and problem solving in SMG discussions	
Practice-based Learning			
Communication Skills	Х	Case study problem solving in SMG discussions and Clinicopathologic Correlations; evaluated by observation by faculty facilitators, course director and crosspeer student evaluation	
Professionalism	Х	Evaluated by observation by faculty facilitators, course director and cross-peer student evaluation during SMG and Clinicopathological Correlations	
System-based Practice			
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NOTES: * Patient care is evaluated only from a simulated perspective

Americans with Disabilities Act

Candidates for the M.D. degree must be able to fully and promptly perform the essential functions in each of the following categories: Observation, Communication, Motor, Intellectual, and Behavioral/Social. However, it is recognized that degrees of ability vary widely between individuals. Individuals are encouraged to discuss their disabilities with the College of Medicine's <u>Director of Student Counseling Services</u> and the FSU Student Disability Resource Center to determine whether they might be eligible to receive accommodations needed in order to train and function effectively as a physician. The Florida State University College of Medicine is committed to enabling its students by any reasonable means or accommodations to complete the course of study leading to the medical degree.

The Office of Student Counseling Services

Medical Science Research Building, G146

Phone: (850) 645-8256Fax: (850) 645-9452

This syllabus and other class materials are available in alternative format upon request. For more information about services available to FSU students with disabilities, contact the:

Student Disability Resource Center

97 Woodward Avenue, South Florida State University Tallahassee, FL 32306-4167 Voice: (850) 644-9566

TDD: (850) 644-8504 sdrc@admin.fsu.edu

http://www.fsu.edu/~staffair/dean/StudentDisability

Academic Honor Code

The Florida State University Academic Honor Policy outlines the University's expectations for the integrity of students' academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. (Florida State University Academic Honor Policy)

Attendance Policy

The College of Medicine has detailed attendance policies as they relate to each cohort and events that conflict with course schedules. See pages 28-29 and 43-44 of <u>FSUCOM Student Handbook</u> for details of attendance policy, notice of absences and remediation.

BMS 6602 Attendance Policy

Students with more than 2 unexcused absences in the Spring semester will not receive academic credit for the course and a grade of "F" will be submitted to the Registrar. Unexcused absence from a scheduled examination or quiz may result in a grade of zero (0 %) being assigned for that examination or quiz. Unexcused absence from an activity for which attendance is required (for example, small group session) may impact the final grade and put the student at risk of failing the course.

Required Materials

Required Texts

PATHOLOGIC BASIS OF DISEASE, 8th edition, by Robbins and Cotran.

PLEASE NOTE THAT STUDENTS ARE EXPECTED TO READ THE TEXTBOOKS. POWERPOINT SLIDES WILL NOT SUBSTITUTE FOR THE REQUIRED READINGS.

PowerPoint Lectures

The "Power Point Lectures" section on Blackboard has an electronic version of the PowerPoint presentations for the course. These are designed to supplement and organize the material in the textbook, but not be a complete substitute for it. **Reading the assigned chapters in Robbins is required**. The posted material represents subsets of the slides for a lecture which are posted prior to a lecture. Last moment changes or corrections may occur from time to time, thus the official version is the one available when the lecture begins. Copyright and other restrictions may prevent some images and other materials from being distributed.

Suggested Materials

Recommended Text

Robbins and Cotran REVIEW OF PATHOLOGY, 3rd Edition, by Klatt and Kumar

Electronic Supplement

WebPath, the Internet Laboratory for Pathology Education

(http://www.med.fsu.edu/webpath/webpath.htm) is highly recommended for supplementation of the materials in the textbook, lecture materials, small group discussions and problem based learning (PBL) exercises.

Assignments

The material for examinations and quizzes will come from lectures, SMG sessions, and the textbook.

Written examination items will include multiple choice questions (single best answer and extended matching) based upon illustrations of gross and microscopic lesions, radiologic images, charts, graphs, or drawings, from material covered in small group discussions, textbooks, and lectures.

Block Examinations

There will be four integrated block examinations in the Spring semester. These examinations will cover material in all the courses for the four weeks prior to each examination. Each of these examinations will include 60 questions from Pathology and may include the following types of questions

Multiple choice questions without illustrations

Multiple choice questions with illustrations

Exam	Topic	Questions
Block 5	Urinary System, Digestive System	60
Block 6	Female and Male Reproductive System, Endocrine System and Head and Neck	60
Block 7	Hematology, Musculoskeletal System: bone, soft-tissues and muscle	60
Block 8	Central and Peripheral Nervous System, Eye and Skin	60

Quizzes

There will be 4 integrated quizzes, approximately 1 per block. Quizzes will test only the materials (lectures and SMG discussions) covered in the current block. Quizzes are formative and will not contribute to the final exam average.

Final Comprehensive Exam

There will be a final comprehensive exam (covering both fall and spring semesters), which will be the NBME Comprehensive Basic Science Exam.

Small Group Sessions

Satisfactory performance is defined as being present and punctual to each assigned activity, staying engaged during the session, listening respectfully to others and contributing regularly, exhibiting understanding of the topic by previous review of the assigned materials (lecture PowerPoints and reading of text book chapters or any other assigned readings) and demonstrating analytical thinking ability. In addition, the student acting as a team leader will be evaluated by the assigned faculty for compliance with the goals and objectives of the particular SMG discussion he/she is leading, which are discussed during the preview session that precedes each SMG discussion.

Clinical-Pathologic Correlation (CPC)

Each student will take part in one Clinical-Pathologic Correlation (CPC) exercise and will receive the same score as the whole group based on the following scale: 1-Unsatisfactory 2-Satisfactory and 3-Outstanding. A score of Satisfactory or better is required to pass the course. Students are required to attend 50% or more of the CPC presentations. Since the CPC began during the Pathology 201 course you are already familiar with this activity. Those who presented their CPC during the Fall semester will receive their CPC score in the Spring semester.

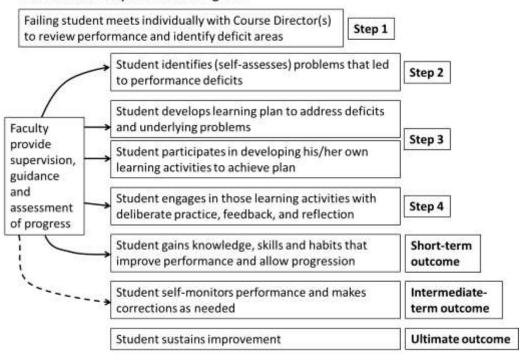
Grading Scale

FSU COM has adopted a pass/fail grading system which is used in the curriculum for the first and second years (See <u>page 31</u> of Student Handbook). To achieve a grade of Pass in BMS 6602 (Pathology 202) a student must meet <u>all</u> of the following requirements:

- A final average ≥ 70% on the total of all examinations (Formative quizzes do not contribute to the final average). An average below 70% will receive a grade of Fail which will require remediation or repetition of the course, as determined by decision of the Student Evaluation and Promotion Committee. A student whose performance is below passing during the semester
 - <65% on any one exam OR
 - <70% on any two exams in the semester

is required to engage in and complete the Performance Improvement Program in consultation with the Course Director. The purpose of this program is to assist the student in developing the skills and habits necessary to succeed in the curriculum as well as to address specific performance deficits.

Performance Improvement Program



- 2) Attendance and satisfactory participation in all required sessions, as determined by the Course Director. Attendance is required at all Small Group discussions and 50% (9 or more) of the CPC presentations. Unexcused absence from an activity for which attendance is required (for example, Small Group session) may be considered as an issue of Professionalism and require completion of the Performance Improvement Program.
- 3) Satisfactory completion of all assignments, as determined by the Course Director. Assignments may include preparation and performance as a small group facilitator, and/or preparation and presentation of 1 CPC session.
- 4) Demonstration of the attitudes and behaviors of Medical Professionalism in all aspects of the course. Issues of Professionalism may require completion of the Performance Improvement Program.

Students who receive a grade of Fail are required to successfully remediate or repeat the course. This determination will be made by the Student Evaluation and Promotion Committee in consultation with the Course Director.