

The Physiology of Anesthesiology Practice
ANES 458
Academic Year 2008 - 2009 (Semester II)
Syllabus
Instructor: Donald Voltz, MD

Contact Information

The best way to contact me with non-urgent questions is via my e-mail donald.voltz@gmail.com. You can also reach me most days on my MetroHealth cellular phone 216-957-6571 (this only works while I am in the OR, so if you do not get an answer try back again).

Course Design

This course was designed to cover physiologic principles that present and help to define our management of patients undergoing anesthesia. The course is organized as an open didactic lecture. You are encouraged to bring specific cases you managed during your clinical rotations to obtain a better understanding of how physiology played a role in their management. I encourage all input and questions. There is no grade component for your interaction during the lectures. You are expected to ask questions if things are not clear. I am available most days in the OR for additional help with the material covered in class as well as to assist with other classes where similar material may be discussed.

Objectives

This course is the second semester of the Physiology of Anesthesiology Practice. See objectives listed below for each individual system covered this semester.

Grading Policy

Your grade for this class will be based on 3 quizzes (during weeks 3, 6, and 12) and the final exam. The final examination for this class is schedule to be on May 5, 2009 from 9:00-11:00 a.m. in the Kulas Auditorium in Lakeside.

Missed Exams/Quizzes

You are expected to show up for all scheduled examinations. I personally write each exam based on what is covered in class and the reading assignments. It is very difficult to re-write an examination that is fair for both the student who missed the exam as well as the others who took it on the scheduled date. If you know you are going to miss an exam for some scheduled reason, you need to contact me at least 1 week prior to the scheduled exam so we can make arrangements. In the event of an emergency, you need to contact me immediately on one of the above listed modes. If you fail to contact me and/or do not have a valid reason for missing the examination, you will receive a zero for that examination. I will do my best to arrange the exams/quizzes to fit the schedule for your other classes. I do not anticipate any problems with missed exams.

Week 1: Cardiac Physiology - Valvular Dysfunction Part I

Week 2: Cardiac Physiology - Valvular Dysfunction Part II

Week 3: Cardiac Physiology Quiz

 Physiology of the Nervous System - Part I

Week 4: Physiology of the Nervous System - Part II

Week 5: Physiology of the Nervous System - Neuromonitoring

Week 6: Quiz/Physiology of the Renal System - Part I

Week 7: Physiology of the Renal System - Part II

Week 8: Physiology of the Renal System - Part III

Week 9: Hepatic Physiology

Week 10: Endocrine Physiology - Diabetes

Week 11: Endocrine Physiology - Thyroid & Pheochromocytoma

Week 12: Quiz/Physiology of Airway Manipulation

Week 13: Misc Physiology/Make Up

Week 14: Review

Week 15: Exam