



Ernest Mario School
of Pharmacy

Poison Management and Drug Abuse (30:725:415)

Course Information

Spring 2014

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Required Reading

Goldfrank L. Goldfrank's Toxicologic Emergencies. 9th edition. New York. McGraw Hill Medical Pub;2011 – www.accesspharmacy.com. *Please review pertinent chapters prior to class*

Periodically, there will also be Podcasts or review articles posted. These must be viewed prior to lecture as material from these Podcasts or articles may appear on exams.

Class Times

Tuesday and Fridays 8:40am-10:00am - Hill Room 114

Course Description

This class is designed to introduce the Doctor of Pharmacy student to the role of the pharmacist in the clinical management of drug overdoses and poisonous substances. In addition emphasis will also be placed on drug induced organ dysfunction.

Course Outcomes

Upon completion of this course, students should be able to:

- Identify, obtain and evaluate patient information including medication, laboratory, and disease state histories (including intentional and unintentional overdoses)
- Identify and define the terminology, signs, and symptoms associated with diseases and medical conditions including overdoses
 - Identify specific toxidromes associated with major drug classes
 - Identify the clinical presentation of common drug overdoses
 - Recognize toxic drug levels and other objective data in the poisoned patient
 - Recognize drug induced organ toxicity
- Identify specific mechanisms of actions, uses and indications of drug products commonly used in toxicology
 - Describe the toxicology of specific drugs, poisons and antidotes
- Identify contraindications, warnings, and precautions associated with a drug product's active and inactive ingredients
 - Recognize and describe why some people may be more prone to drug toxicity based on these contraindications and precautions
- Identify pharmacotherapeutic outcomes and endpoints
 - Recommend general poison management in the poisoned patient
 - Recommend specific antidotes for the treatment of the poisoned patient
 - Design a treatment plan for a poisoned patient
- Assess and evaluate patient signs and symptoms and results of monitoring tests to determine achievement of desired outcomes and to assess for adverse reactions and recommend appropriate pharmacotherapeutic alternatives
 - Monitor the efficacy and safety of the designed plan
 - Recommend appropriate follow up and alternative treatments
- Assure safe and accurate preparations and dispensing of medications
 - Recognize when a prescription falls outside of the usual dose range, duration of use or indication

- Perform calculations to compound, dispense, and administer medication, including calculation of rate of IV administration
- Identify at risk patients and populations for screening and preventative care interventions.

Course Notes

In most cases, the notes for class will be posted on Sakai (**sakai.rutgers.edu**). If the professor will not be providing notes on Sakai, the coordinator will leave a message on Sakai informing you notes will be distributed in class.

i>clicker

Some professors will be using the i>clicker for class participation during lectures and cases. Extra bonus points will be added to your grade at the end of the semester based on your participation. If you have not already registered your i>clicker in cardiopulmonary therapeutics, please go to www.iclicker.com/registration. In addition, it is your responsibility to have a functioning i>clicker. No credit will be given for students attending class who do not have function clicker or because they forgot it. Please keep extra batteries with you to avoid not getting credit due to a dead battery.

Tutoring

If students should require additional help throughout the semester, they may contact the Pharmacy Practice and Administration Tutoring service by emailing RUPharmTutor@gmail.com. Students will be given access to the Tutoring Sakai website in order to arrange sessions with Tutors.

Examination

Three exams will be administered throughout the semester. The 3rd exam will take place during the scheduled final exam week. Each exam will last 80 minutes (*you will not have 3 hours for the final unless you want a cumulative exam*). Two classrooms will be used for the exams, both Hill 114 and 009. The morning of the exam, there will be a seating chart to direct you to your exam. Please read the **Examination Policy** below for important information regarding Exams.

Grading

The three exams will each be worth 100 points for a total of 300 points. The following grading scale will be used:

89.45-100	A
84.45-89	B+
79.45-84	B
75.45-79	C+
69.45-75	C
59.45-69	D
< 59.44	F

Examination Policy

- *There will be **NO MAKE-UP EXAMS** for unexcused absences.* You must notify the course coordinator regarding your absence BEFORE the exam (or within 24 hours after the

exam if that is not possible) and provide documentation of the reason for your absence in order for the absence to be excused. **Only students who receive authorization for an excused absence from the course coordinator will be eligible to take a make-up exam.** The format of the make-up exam is at the discretion of the instructors (i.e. fill-in, multiple choice, etc). There will be ONE cumulative make-up exam at the end of the semester for all exams missed – there **will not** be separate make-ups for exams I, II and III.

- ❑ Students are expected to arrive on time for examinations. Students will not be allowed admittance to an exam after any other student has completed the exam and left the exam room. *This will be considered an unexcused absence.*
- ❑ Students must leave coats, book bags, and other belongings at the front or back of the examination room. The only items allowed on the desk are those that are essential to completion of the exam. Other than the examination itself, papers of any kind are not allowed on the desk.
- ❑ Students must be prepared to present picture identification (e.g. driver's license, Rutgers student ID) if requested by the exam proctors.
- ❑ A student may be moved to a different seat at any time during the exam at the discretion of the proctors.
- ❑ Students who want to keep track of the time during an exam should wear a watch. Exam proctors will also provide periodic updates on the time remaining. Cellular phones and personal digital assistants (PDAs) are not acceptable timepieces and will not be allowed on the desk.
- ❑ Programmable calculators or PDAs may not be used during an exam. The exam proctors reserve the right to inspect and remove any calculator that they feel may give a student an unfair advantage.
- ❑ Students wearing baseball caps or similar hats with lids must turn the hat around so that the lid does not cover the eyes.
- ❑ For multiple-choice questions, students must not write their answers in big block letters in the margin of the exam. This makes it too easy for wandering eyes to pick your answers off from the page.
- ❑ Exam review sessions will be conducted by one of the course coordinators after each exam. Students who are not able to attend these review session may make an appointment with a course coordinator for a different time. For the final exam, all exam reviews will require an appointment with the course coordinator and the review must take place prior to the grade submission date.

Academic Integrity

Students are required to be familiar with the university's Policy on Academic Integrity (see <http://teachx.rutgers.edu/integrity/policy.html>). Violation of academic integrity is a separable offense under the University Code of Student Conduct. Violations of academic integrity occurring during exams will be either level three or four violations. The recommended sanction for level three violations is suspension from the university for one or more terms with a notation of "academic disciplinary suspension" placed on the student's transcript for the period of suspension and a failing grade in the course. The recommended sanction for level four violations is expulsion from the university and a permanent notation on the student's transcript. Any student who is aware of academic misconduct by another student is obligated

to notify a faculty member; failure to do so is also a violation of the Policy on Academic Integrity. Any violations of academic integrity relating to this course will be handled by the student disciplinary process as outlined in the University Code of Student Conduct.

Office Hours

If you need to meet with any of the other faculty, please contact them to make an appointment.

The course coordinators will evaluate any issue or problem that arises during the semester not discussed within this document. Any and all decisions made by the course coordinator throughout the semester will be final.

Poison Management and Drug Abuse
30:725:415
Spring 2014
Hill Center Room 114
Tuesdays and Fridays 8:40-10:00

<u>DATE</u>	<u>DAY</u>	<u>TIME</u>	<u>TOPIC</u>	<u>LECTURER</u>
20-Jan	Tue	8:40-10:00	General Poison Management I	Barone
23-Jan	Fri	8:40-10:00	General Poison Management II	Barone
27-Jan	Tue	8:40-10:00	Acid-Base Disorders in Toxicology/Toxidromes	Faley
30-Jan	Fri	8:40-10:00	MetHemoglobinemia/Cyanide/Carbon Monoxide	Faley
3-Feb	Fri	8:40-10:00	Digoxin, Calcium channel and beta blockers	Dixit
6-Feb	Tue	8:40-10:00	Digoxin, Calcium channel and beta blockers	Dixit
10-Feb	Tue	8:40-10:00	Salicylates/NSAIDS	Ruck
13-Feb	Fri	8:40-10:00	Antidepressants/Serotonin Syndrome/NMS	Cocchio/resident
17-Feb	Tue	8:40-10:00	Acetaminophen/Toxicokinetics	Procopio
20-Feb	Fri	8:40-10:00	Mushrooms/Plants and Berries (Start of Exam II Material)	Cocchio
24-Feb	Tue	8:40-10:00	Envenomations	Faley
27-Feb	Fri	8:40-10:00	Caustics and Common Household Poisonings	Faley
3-Mar	Tue	8:40-10:00	Exam I Material From Jan 2-Feb 18 (Hill 114/009)	
6-Mar	Fri	8:40-10:00	Bioterrorism	Ruck
10-Mar	Tue	8:40-10:00	Hazmat and Chemical Warfare	Ruck
13-Mar	Fri	8:40-10:00	Anticoagulants	Awad
17-Mar	Tue	8:40-10:00	Spring Break	
20-Mar	Fri	8:40-10:00	Spring Break	
24-Mar	Tue	8:40-10:00	Anticonvulsants/AHS/SJS	Dixit
27-Mar	Fri	8:40-10:00	Heavy Metals	Faley/Resident
31-Mar	Tue	8:40-10:00	Allergens/Angioedema (Start Final material)	Nerenberg
3-Apr	Fri	8:40-10:00	Exam II Material from Feb 21-Mar 28 (Hill 114/009)	
7-Apr	Tue	8:40-10:00	Hypoglycemic agents	Faley
10-Apr	Fri	8:40-10:00	Sedative-hypnotics/Lithium	Cocchio
14-Apr	Tue	8:40-10:00	Alcohols I	Barone
17-Apr	Fri	8:40-10:00	Alcohols II	Barone
21-Apr	Tue	8:40-10:00	Opioids	Barone
24-Apr	Fri	8:40-10:00	Drugs of abuse	Barone
28-Apr	Tue	8:40-10:00	Drugs of abuse cases	Barone
1-May	Fri	8:40-10:00	Simulation/cases	Faley

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