



PHARMACOLOGY

Khder Hussein Rasul

Pharmacology\Theory

Spring Semester

First week

05/02/2025

- TISHK International University
- Department of Physiotherapy
- Subject: Pharmacology
- Grade: 3rd Stage
- Lecturer's name-Khder Hussein Rasul
- Academic Year: 2024/2025

- Department: Physiotherapy
- Course name: Pharmacology
- Lecturer: Khder Hussein Rasul
- Contact: e-mail: khder.rasul@tiu.edu.iq
- Time (in hours) per week: 2hr./ week

Course overview



- This course provides understanding of pharmacology, including
 1. Drug classifications
 2. Mechanisms of drug action
 3. Pharmacokinetics
 4. Pharmacodynamics
 5. Drug interactions.

The Course keywords



- Pharmacokinetics
- Pharmacodynamics
- Drug metabolism
- Bioavailability
- Half-life
- Clearance
- Drug-receptor interaction

Student's obligation



Exam policy:

- Student should take exam during the course

Classroom polices:

- 1. Attendance:** students are strongly encouraged to attend in class on a regular basis, as participation is important to understanding of the material. This is students opportunity to ask questions. Students are responsible for obtaining any information during the class which provided.
- 2. Lateness:** Lateness to class is disruptive
- 3. Electronic devices:** Not allowed to use in the class.
- 4. Talking:** During class, please refrain from side conversations. These can be disruptive to your fellow students

Course objectives



- Understand fundamental pharmacological principles, including drug absorption, distribution, metabolism, and excretion.
- Classify drugs based on therapeutic use, mechanism of action and chemical properties.
- Explain the mechanisms of drug action and their effects on the human body.
- Recognize adverse drug reactions, contraindications, and the importance of pharmacovigilance.
- Describe the pharmacology of key drug classes, including antibiotics, cardiovascular drugs, analgesics, and chemotherapy agents.
- Interpret laboratory data related to drug monitoring and toxicology.

My expectation



1. Participate in discussions
2. Let me know when you experience problems, so I have a chance to assist you
3. Respect classmates and instructor

You can expect of me



1. Knowledge and expertise
2. Effective communication
3. Accessibility and availability
4. Respect for diversity
5. Make scientific environment
6. Listen to your ideas
7. Quick response to your inquiries
8. Assessment and feedback

Topics



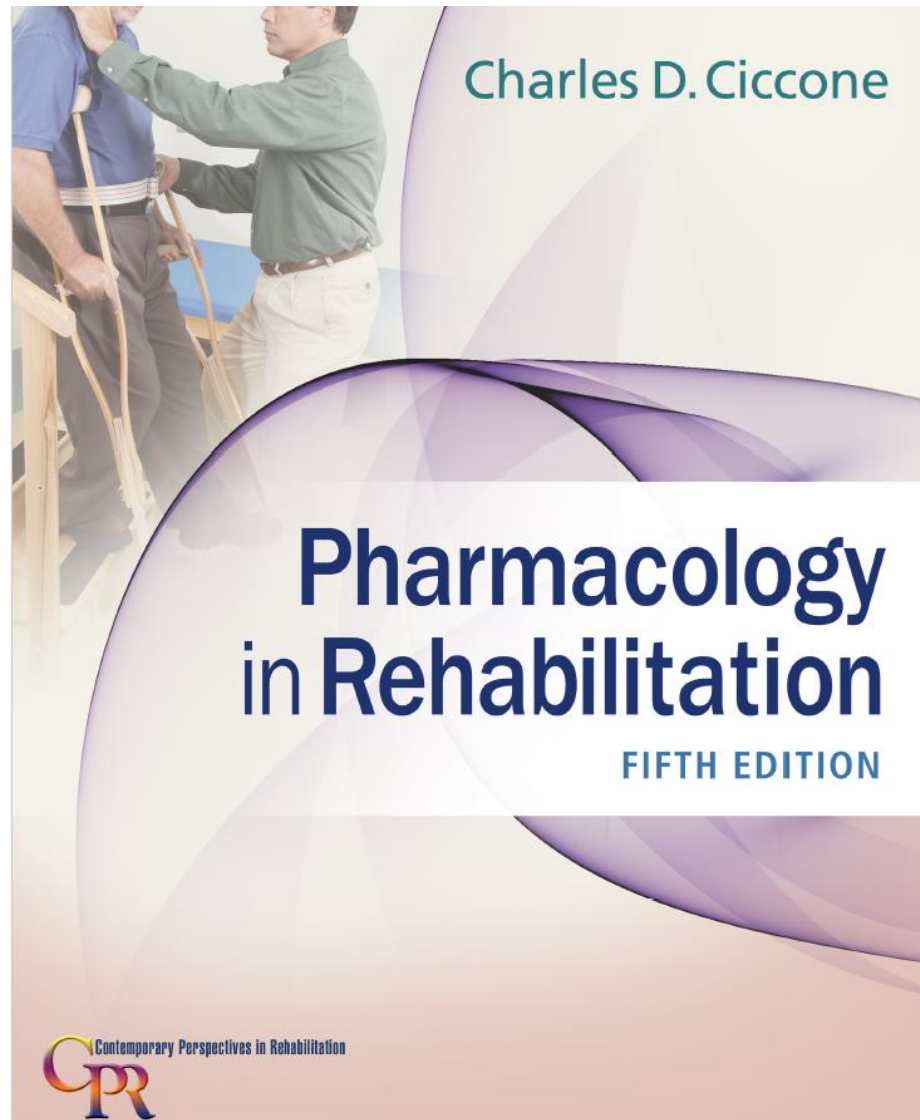
1. Pharmacology course book and introduction
2. Endocrine & Pharmacology of diabetes
3. Pharmacology of Thyroid disorders
4. Metabolic pharmacology: osteoporosis treatment
5. Drugs for rehabilitation & physical therapy
6. Local anesthetics & their clinical use
7. Drugs for Parkinson's disease
8. Spasticity management
9. Advanced pain management
10. Hematologic pharmacology
11. Respiratory medications
12. Corticosteroids & delayed healing
13. Autoimmune conditions: Immunosuppressants and physiotherapy considerations
14. Pharmacology of aging & polypharmacy

Teaching methods



- Using power point
- White board
- Scientific animations during teaching time

References



References



Pharmacology for Physiotherapy

Second Edition

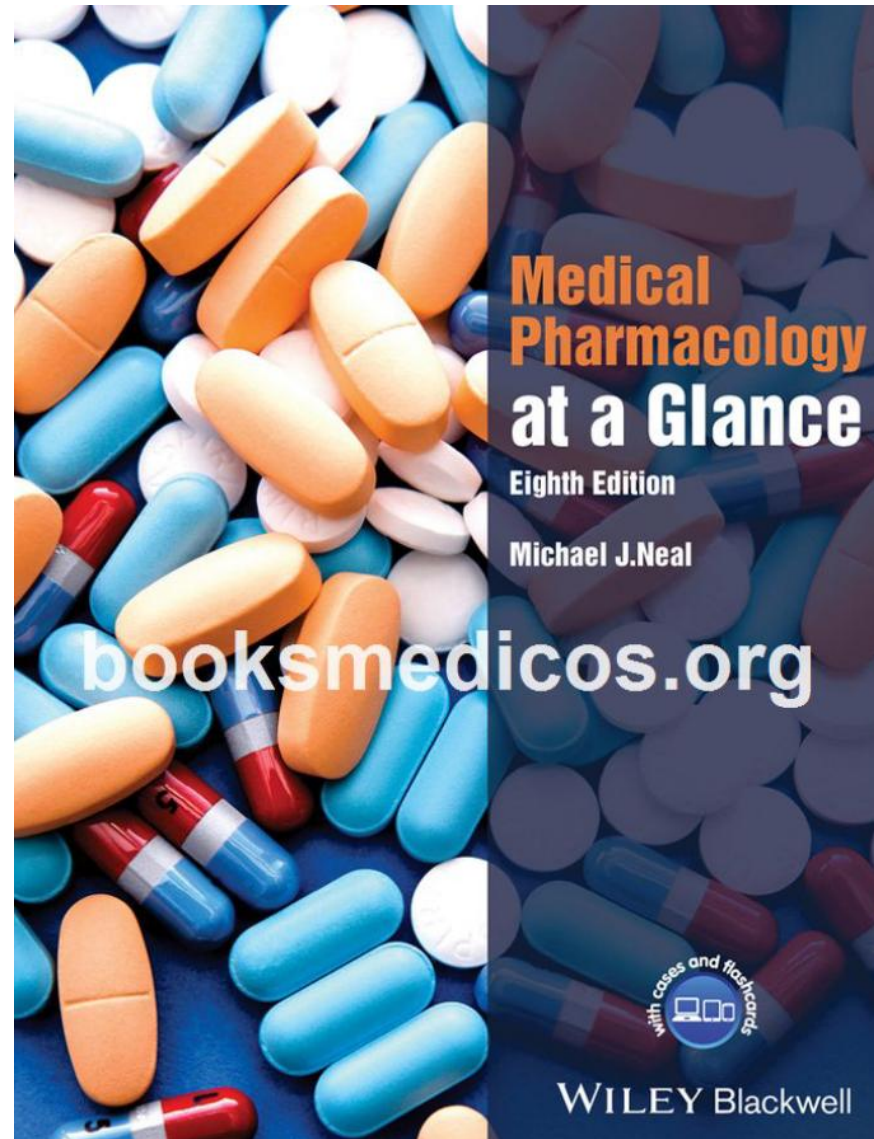
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References



References



Introduction to Pharmacology

Second Edition

Mannfred A. Hollinger, Ph.D.

Professor Emeritus,
Department of Medical
Pharmacology and Toxicology
University of California, Davis