Kingdom of Saudi Arabia
Ministry of Education
Jazan University
College of Pharmacy

المملكه العربيه السعوديه
وزاره التعليم
جامعه جازان
كليه الصيدله

Applied Pharmacokinetics

Title: Applied Pharmacokinetics.

Course number: 452 PHCL

Semester: Eighth Semester (Fourth year).

Duration: 2 + 1 Units (4 contact hours) per week.

Aims: To provide general knowledge on therapeutic drug monitoring with the emphasis on medication pharmacokinetics in clinical pharmacy.

Objectives: Upon successful completion of course the student should be able to demonstrate therapeutic drug monitoring and evaluation of drug therapy in individualized patient.

Contents: Application of pharmacokinetic principles for the purpose of optimizing drug therapy, therapeutic drug monitoring with the emphasis on pharmacokinetics of drugs (such as: aminoglycosides antibiotics, carbamazepine, cyclosporine, digoxin, ethosuximide, lidocaine, lithium, methotrexate, phenpbarbital, phenytoin, procainamide, quinidine, salicylates, theophylline, tricyclic antidepressants, valproic acid and vancomycin).

Minimum course requirements: 30 (2 x 15) Unit lectures and 30 practical hours (2 x 15) per level.

Evaluation methods:

-Quizzes	10%
- Mid term examination	25%
- Practical examinations	25%
- Final examination (written)	40%

Text Books (latest edition):
1- Applied Clinical Pharmacokinetics, Bauer, the Middle East Observer. 2- Concepts in Clinical Pharmacokinetics, Joseph T. DoPiro, William J. Spruill.
Recommended books (latest edition):
1- Therapeutic Drug Monitoring, Schumacher, G.E., Appleton and Lange. 2- Basic Clinical Pharmacokinetics, Spokane, Applied Therapeutics, Inc. 3- Applied Pharmacokinetics: Principles of Therapeutics: Drug Monitoring, W.E. Evans, J.J. Schentag, W. J. Jusko, Spokane, Applied Therapeutics, Inc.