



Module Title:	Principles of Sports Pharmacology
Academic year:	2009 2010
Credit Value:	5.0
Pre- requisites:	2.1
Assessment:	Continuous Assessment: 30% (2 x 15% CA assessments) Final examination: 70%
Aims	This module seeks to introduce students to the principles of pharmacology and in particular the application of these principles to the area of health and sports science. Students will be provided with a thorough understanding of the fate of drugs in a mammalian system by providing a detailed insight into selected topics including phases of drug deposition and pharmacokinetics. The relevance of this topic will be developed in relation to pharmacokinetics, drug metabolism and elimination. Pharmacological measurement of drugs will be discussed in light of new and emerging bioanalytical techniques. The analysis of drugs and their metabolites will be examined in relation to physiological enhancement in health and performance in sports science.
Module Content	Introduction to Pharmacology Absorption of Drugs Distribution of Drugs Removal of Drugs Drugs Affecting Major Organ Systems Concepts of Measurement in Pharmacology

Intended Learning Outcomes:	On completion of the module the student should be able to; <ol style="list-style-type: none">1. Describe the principles of pharmacology and their application to health and sport.2. Describe the process of drug absorption and distribution.3. Identify the key factors affecting drug absorption and distribution.4. Describe the process of drug metabolism and resultant metabolites.5. Identify the most likely route(s) of drug elimination;6. Identify the key organs/systems affected by drugs.7. Describe how drugs may be utilized to enhance performance of treat disease.8. Identify and discuss the principle methods by which drugs and their metabolites may be detected in the laboratory.
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