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# University of Pretoria Yearbook 2021

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## Advanced fundamentals of pharmacology 876 (FAK 876)

<b>Qualification</b>	Postgraduate
<b>Faculty</b>	<a href="#">Faculty of Veterinary Science</a>
<b>Module credits</b>	40.00
<b>NQF Level</b>	09
<b>Programmes</b>	<a href="#">MSc Veterinary Industrial Pharmacology (Coursework)</a>
<b>Prerequisites</b>	No prerequisites.
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Paraclinical Sciences
<b>Period of presentation</b>	Year

### Module content

Scope and historical development of veterinary pharmacology.  
Veterinary pharmaceuticals and formulation theory.  
Pharmacokinetic theory, pharmacokinetic analysis and modelling.  
Bioequivalence theory and evaluation.  
Physicochemical and molecular basis of drug action.  
Dose response and calculation of dose response parameters.  
Pharmacological modulation of organ and body functions.  
Molecular basis of action and pharmacological effects of chemotherapeutic agents.  
Adverse drug reactions, interactions and pharmacovigilance.  
Comparative species pharmacology, pharmacogenomics and pharmacogenetics.  
Background on complementary medicines.  
Fundamentals of pharmacological research.

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