**Welcome to Veterinary** Pharmacology, Therapeutics and Toxicology 227.305 2 Pharmacology - why bother? 3 treatment options · do nothing · give drugs · surgery · change diet • euthanasia · all but first involve drugs!! What do you need to know?





#### What do you need to know?

- history
- · clinical exam findings
- · differential list
- · lab tests?
- diagnosis

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- · drugs likely to be active?
- side effects & interactions?
- · monitoring required?
- · pharmacokinetics?
- · dose?
- · cost?
- · do the benefits outweigh the risks?

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#### a digression on drug names

- every drug has several different names
- · do not try to remember them all!
- remember "typical" drug from each class
- only drug given in a panic situation is adrenaline (epinephrine)
- remember dose
- 5 20μg/kg, repeat every 5 mins

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drug company numi formula: CH3 CH3 CH3 Chemical name:	Deer. ICI 33 368  Cognisity developed by ICI poer Annazieneca).  It is consettines usual to below a deep's transture cut can be a probleme metabolisis planneds.  CH characteristic between a manue, MUN GCA Characteristic between a manue of the past drugs were approved the characteristic between a manue of the characteristic bet
approved name: trade names: veterinary: human:	propofol  "Rapinover!" (Schering-Plough)  "Rapinover!" (Scheri

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Drug names  • Learn approved names  • Usually BANs in NZ  • USANs often different  • INNs sometimes different again	13	
Drugs likely to be active?  • antiseptics  - chlorhexidine  - iodine	14	
Active drugs?  • antibiotics  - penicillins  • narrow spectrum  • broad spectrum  - cephalosporins  - tetracyclines  - etc, etc	15	
Info you need to know  Info you need to know	16	

sources of info  1. scientific literature 2. textbooks 3. colleagues 4. www 5. drug companies 6. plus this course!		
remember!  • This course is about analysing and evaluating, then using information, not remembering it!		
administration  semester 1 - 38 lectures - Tuesdays 2 & 3 pm SSLB4 - Thursdays 8 am SSLB4 - Fridays 11 am SSLB4 - Library project instead of practicals Study guide essential also on web	19	
Course objectives  By the end of the course you should be able to:  • apply your understanding of the effects, mechanism of action and uses of the major groups of drugs used to treat animals to allow you to formulate a safe, effective and legal treatment plan.  • be aware of drugs which are likely to be used in the near future.  • obtain further information on drugs.  • apply your understanding of pharmacokinetics to ensure that an animal receives the correct dose of drug.  • evaluate scientific and clinical reports of drug trials and apply this to veterinary practice.  • diagnose and recommend treatment of common causes of poisoning in animals.		

Text books  not necessary suggestions in study guide study guide is designed for reference not memorising!!! CALVE web site	21
Assessment  Semester 1 formative Stream MCQs x 5 7.5% 30min team essay 15% weekly therapeutics MCQs x 10 7.5% unlimited Semester 2 formative Stream MCQs x 5 5% 30 min Stream therapeutics MCQ 20% unlimited weekly therapeutics MCQ x 10 20% unlimited team essay 24% poster presentation 1%	
Assessment  Therapeutics MCQs Designed to test depth of knowledge Integration with other subjects necessary  MCQs Designed to test breadth of knowledge ie, a large no. of very specific questions marks for doing the test, not your score	23
practice tests  - questions in study guide at end of each chapter  - answers for MCQs provided  - it is up to you to use these  - same questions on <u>CALVE</u> and <u>Stream</u> - practice tests only!	24

Semester 1

25 lectures timetable on web · subject to change · lectures on CALVE web site 26 Group work Sem 1 Choose groups of four You will be given the titles of 2 papers Find out where the library is · Go to the library and find your papers Decide on the major findings, reliability and relevance to veterinary medicine Write a 3000 word review hand it in by 20th May marks are shared equally between group 27 Group work Sem 2 · use the skills you learned in semester 1 to write a publishable review of a subject of your choice in depth · more details next semester · think about subjects as you do semester 1 work!! 28 Assessment Semester 1 - formative Stream MCQs x 5 7.5% 30min team essay 15%
 weekly therapeutics MCQs x 10 7.5% unlimited Semester 2 formative Stream MCQs x 5 5% 30 min Stream therapeutics MCQ 20%unlimited weekly therapeutics MCQs x 10 20% unlimited

team essay 24% poster presentation 1%

finally,  • the most important point	29
Pharmacology is fun!	30