

PHARMACOKINETICS AND TOLERANCE OF CHLORAMPHENICOL AND FLORFENICOL IN CAMELS

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ABSTRACT

The pharmacokinetic of chloramphenicol and florfenicol following intravenous administration of 5 mg/kg body weight was studied in camels. The plasma concentration versus time were best described by a two-compartment open model. Significantly higher volume of distribution, shorter half-life and body clearance were observed for chloramphenicol compared to florfenicol. Animals treated intramuscularly with chloramphenicol in a dose up to 40 mg/kg for 3 successive days showed inappetance, dullness and some hematological and biochemical alterations. Florfenicol given at a dose of 200 mg/kg for 3 days was well tolerated. It is suggested that further studies using higher doses of florfenicol and its effect on bone integrity should be performed to confirm its safety in this species.

KEY WORDS: Pharmacokinetic, tolerance, chloramphenicol, florfenicol, camel.