

**KINETICS OF ENROFLOXACIN IN GOAT FOLLOWING INTRAVENOUS
AND INTRAMUSCULAR ADMINISTRATION**

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ABSTRACT

Pharmacokinetics of enrofloxacin given intravenously (IV) and intramuscularly (IM) at a dose of 5 mg/kg to two groups of ardi goats were determined. The disposition of enrofloxacin was described by two-compartment open model with elimination half-life of 4.7 and 4.4 hours after IV and IM administration. Therapeutic serum concentration of the drug was achieved and maintained for 9 and 12 hours after administration by IV and IM, respectively. Volume of distribution was high after administration by either route but bioavailability was more after IM administration than by IV administration.

KEY WORDS: Pharmacokinetic, enrofloxacin, goat.