

Comparative Pharmacokinetic studies of antibiotics (Amoxycillin) and its residues in domestic animals.

Mohammed Hammad Al-Nazawi (BVM, MSc, PhD)

ABSTRACT

The disposition of amoxycillin following intravenous (IV) and oral administration in camel was studied. The kinetic behavior of the drug was best described by two compartment open model. The half-life of distribution was 3.6 ± 0.36 minutes for IV and 15.3 ± 1.9 minutes for oral dosing. The half-life of elimination was $69.3 \pm$ minutes for IV and 80.0 ± 3.4 minutes for oral dosing. The mean peak plasma concentration after oral administration was 2.11 ± 8.3 $\mu\text{g/ml}$ detected at 2 hours after drug administration and the bioavailability was 23.3%.