

Methocarbamol

Pennsylvania Horse Racing Commissions do not allow the administration of any drug within 24 hours of the post-time of the first race. The figure below shows the plasma concentration vs time curves of the administration of 2.2 mg/kg (100 mg/100 lbs of body wt) to 6 horses. The formulation of methocarbamol was from a compounding pharmacy with a labeled concentration of 100 mg/ml. The solution in which the drug was dissolved was not indicated on the label.

The range of total doses administered in the study was 1111 to 1265 mg by IV. Methocarbamol is rapidly eliminated with a mean terminal elimination half-life of 1.6 h (range 1.4 to 2.0 h). The Limit of Quantification (LOQ) is 1 ng/ml and the plasma concentration at 24 hours must be below the LOQ. In the administration of methocarbamol, a number of factors must be taken into consideration; the administration must be performed outside the 24-hour period, the variable weights of the horses being medicated and the knowledge that the solution being administered is not from an FDA approved company with consistent quality control standards.

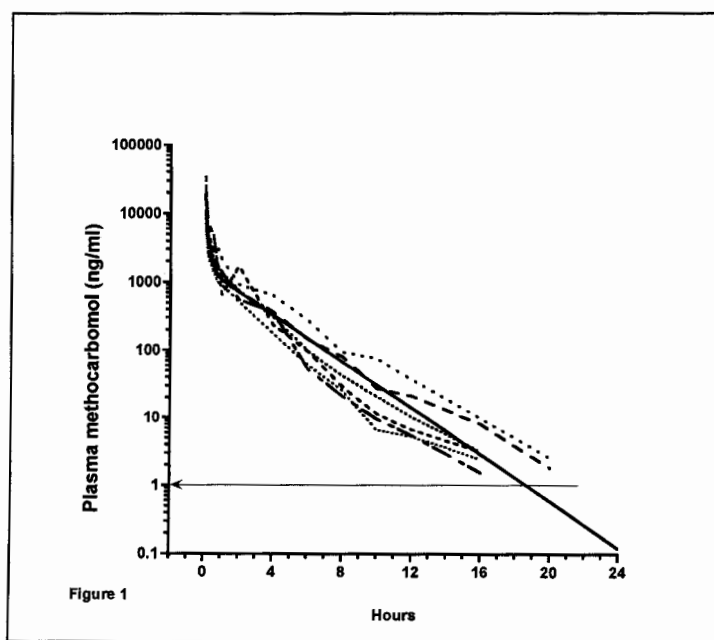


Figure 1. The plasma concentration vs time curves of the administration of 2.2 mg/kg (100 mg/100 lbs of body wt) to 6 horses. The solid line is the line of best fit of the 6 horses. The limit of quantification of the method is 1 ng/ml.