

Biotilgængelighed

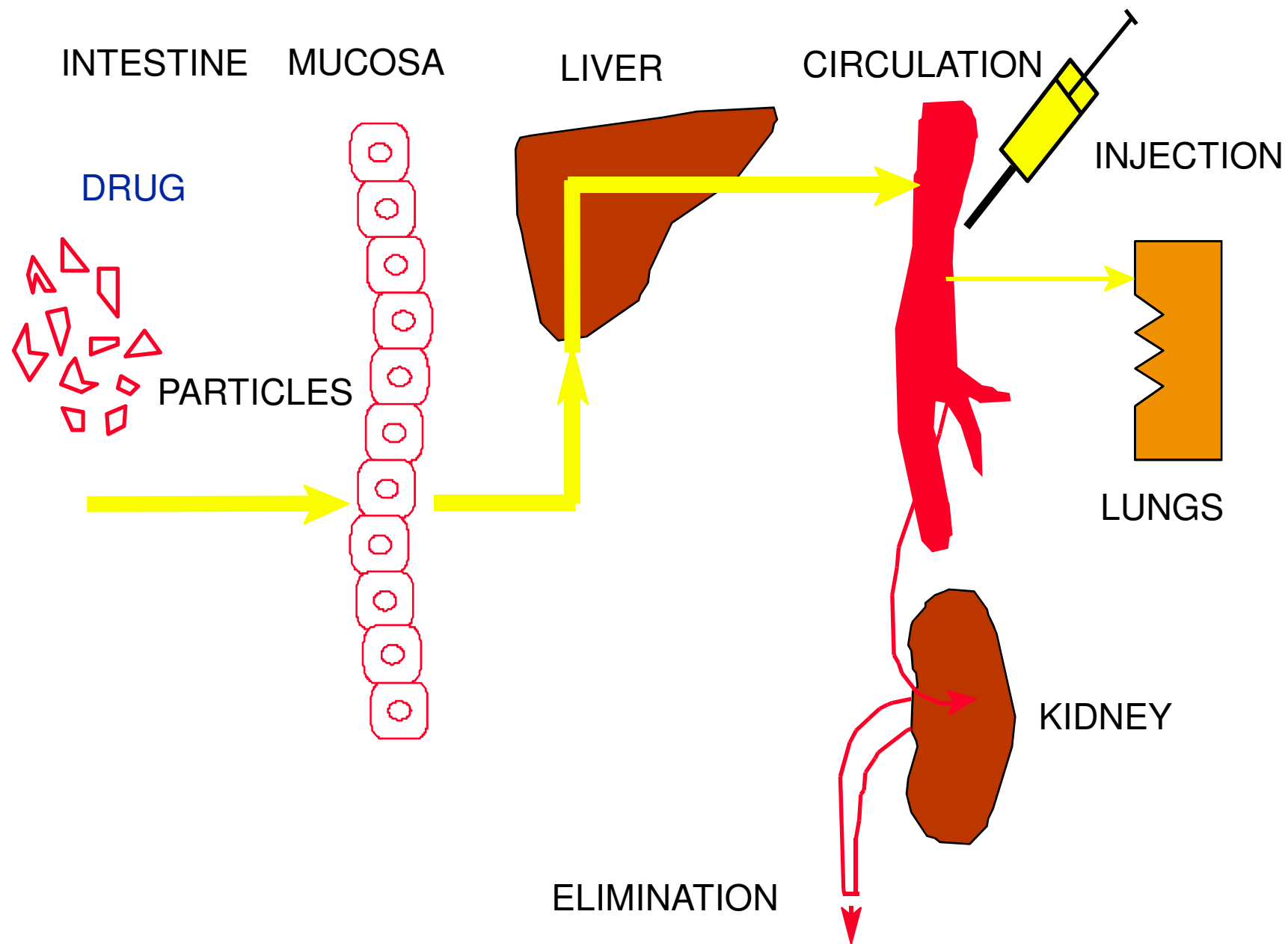
Bioavailability

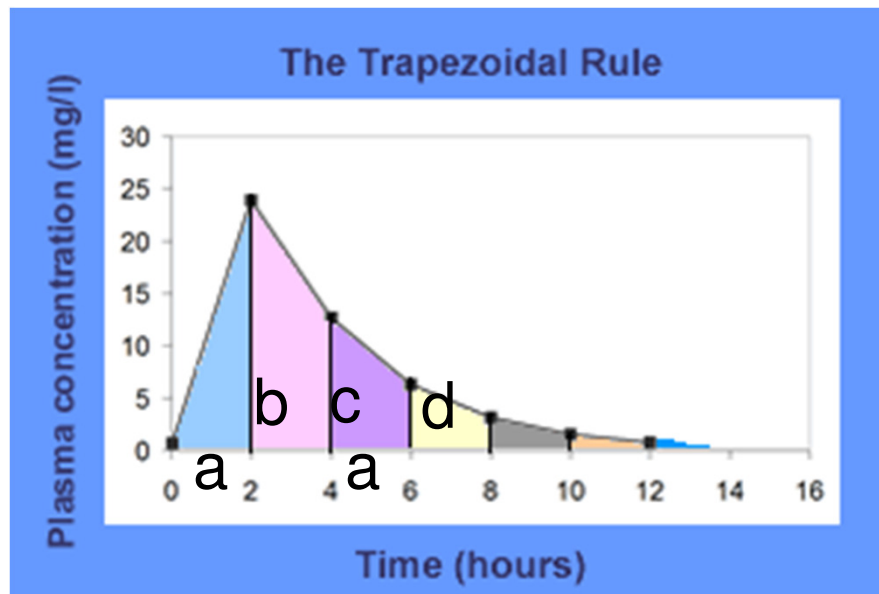
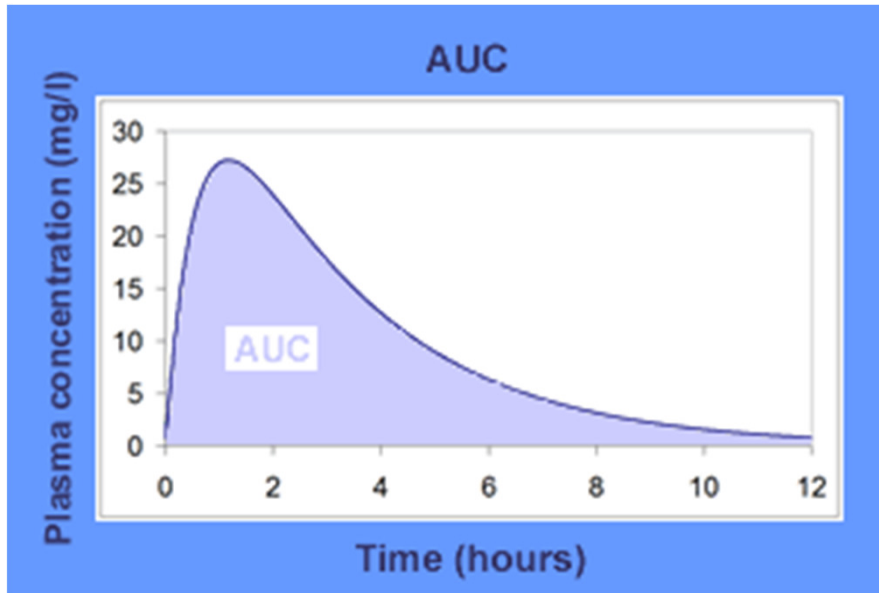
- Fraction of a dose of drug that is absorbed from its site of administration and reaches, in an unchanged form, the systemic circulation

ORAL ABSORPTION

DISTRIBUTION

IM ABSORPTION



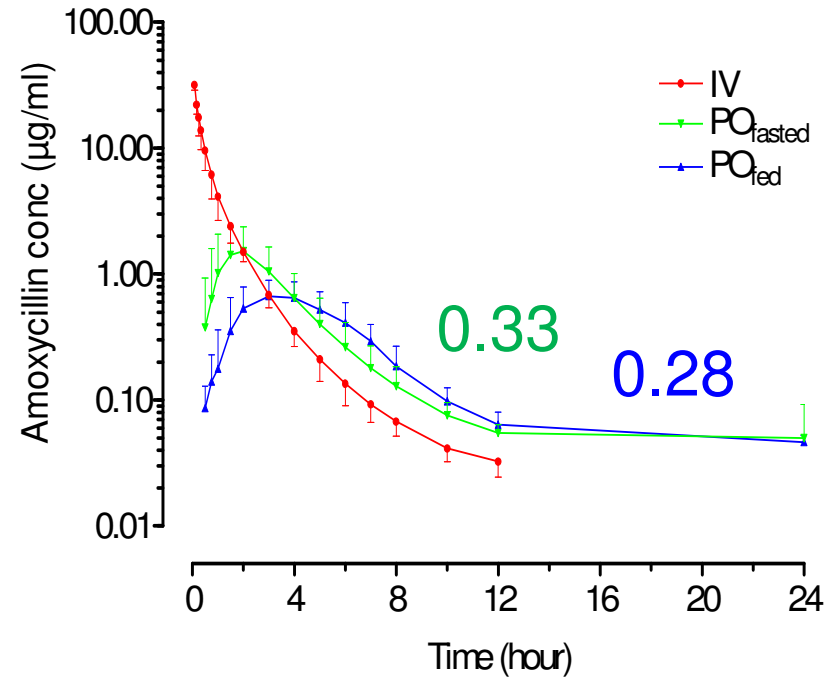
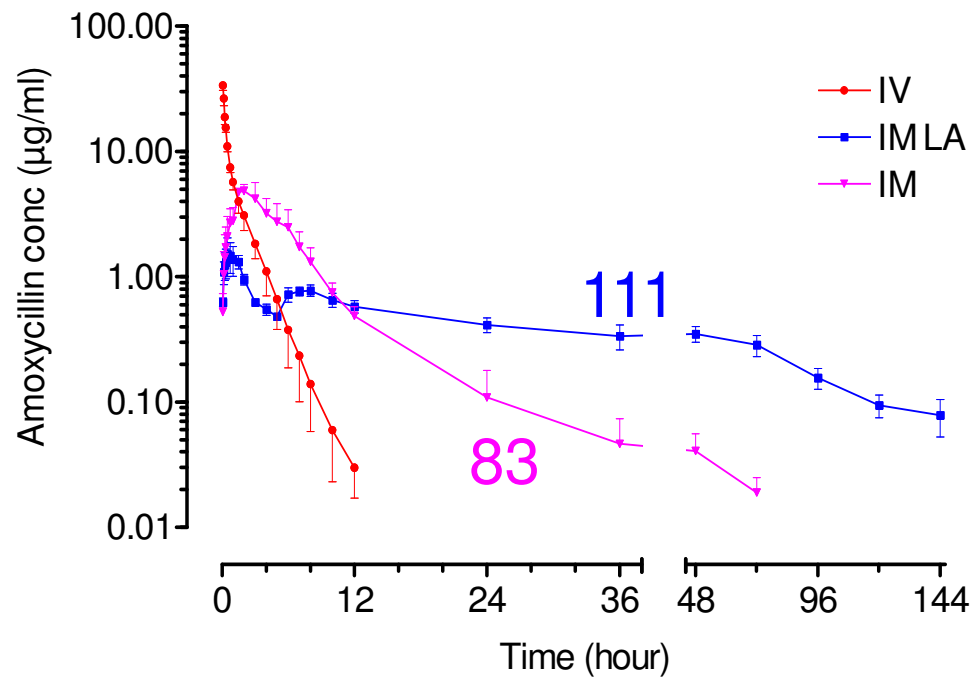


Trapezoid: $\frac{1}{2} a (c + d)$
 Triangle: $\frac{1}{2} ab$

Bioavailability

$$F = \frac{AUC_{po} * Div}{AUC_{iv} * Dpo}$$

Amoxicillin - pharmacokinetics



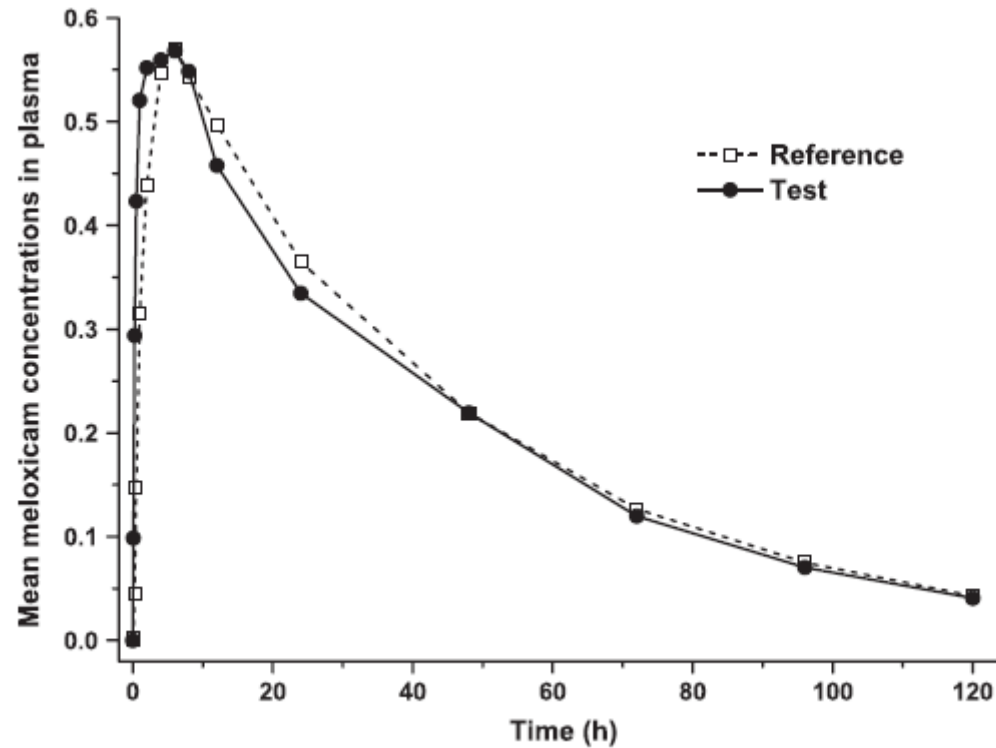
PO Biotilgængelighed kan påvirkes af

- Passagetid
- Kemisk stabilitet af lægemiddel
- Adsorption til partikler i tarm
- Metabolisme
 - i tarmkanal
 - i lever

Bioequivalence

- **Bioequivalence** is a term in pharmacokinetics used to assess the expected in vivo biological equivalence of two proprietary preparations of a drug. If two products are said to be bioequivalent it means that they would be expected to be, for all intents and purposes, the same.

Meloxicam oral mist formulation vs po



Lees et al. J. vet. Pharmacol. Therap. 36, 78–84, 2012.

Guideline on the conduct of bioequivalence studies for veterinary medicinal products

- AUC
- C_{max}
- T_{max}

- 90% confidence intervals for the ratio of the population geometric means (test/reference) for the parameters under consideration