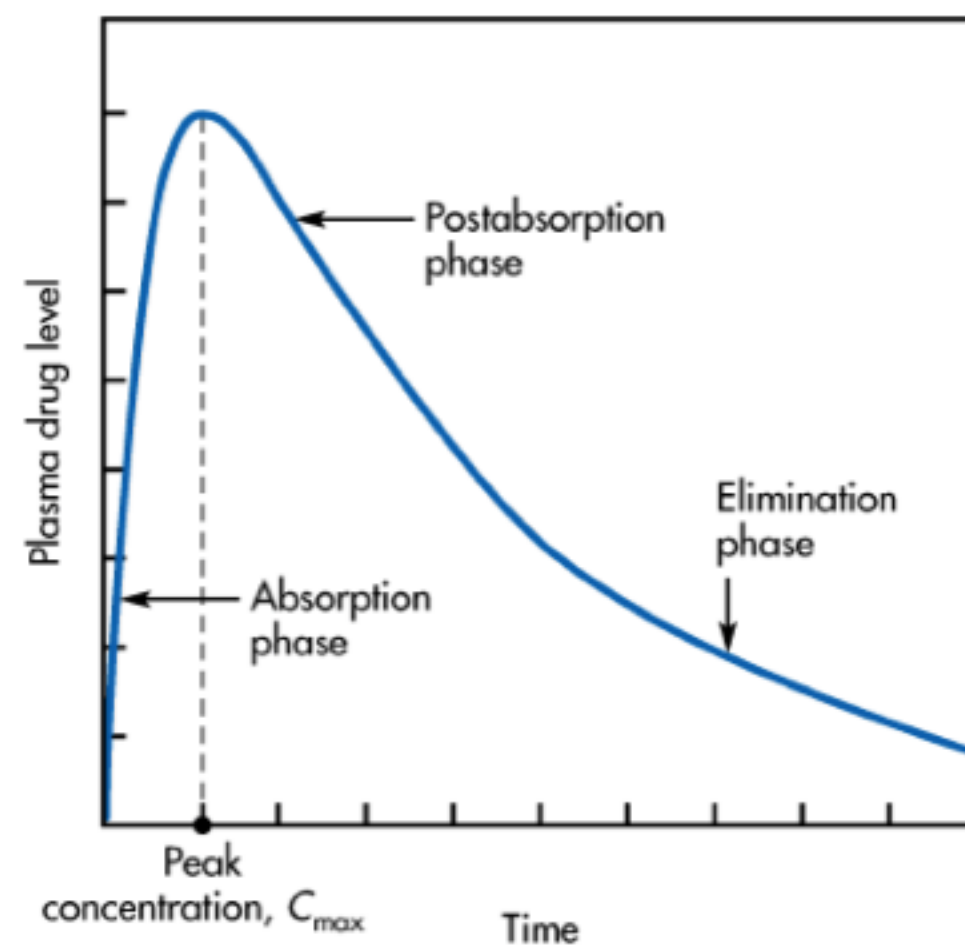
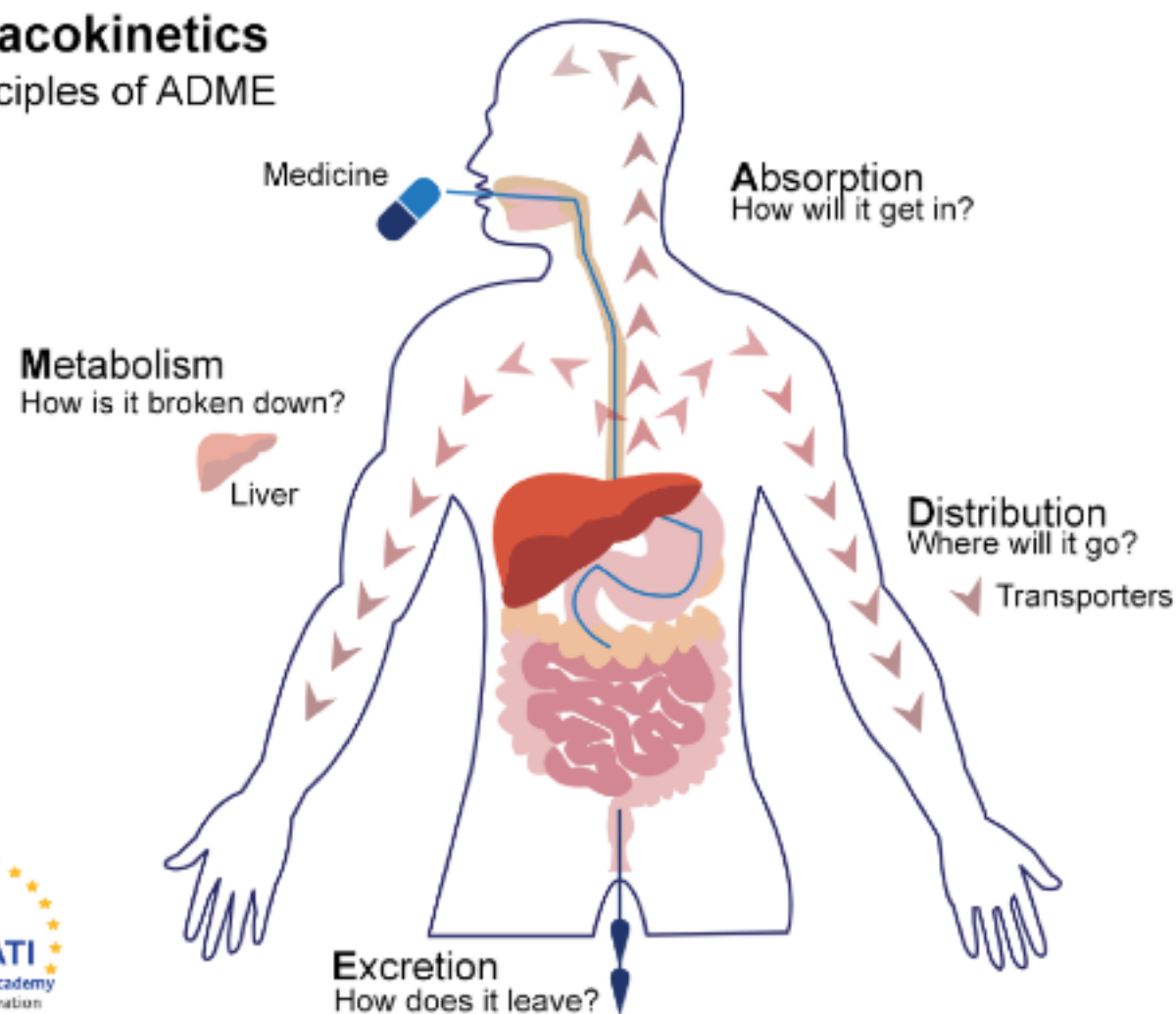


## Pharmacokinetics

The principles of ADME



Source: Shargel L, Wu-Pong S, Yu ABC: *Applied Biopharmaceutics & Pharmacokinetics* 6th Edition: [www.accesspharmacy.com](http://www.accesspharmacy.com)

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<https://blog.biogeniq.ca/hubfs/figure1-article-alexe2-EN.png>

# Modelling the drug amount in the body

$$\frac{dGut}{dt} = -Ka \times Gut$$

$$\frac{dCentral}{dt} = Ka \times Gut - \frac{CL}{V} \times Central$$

