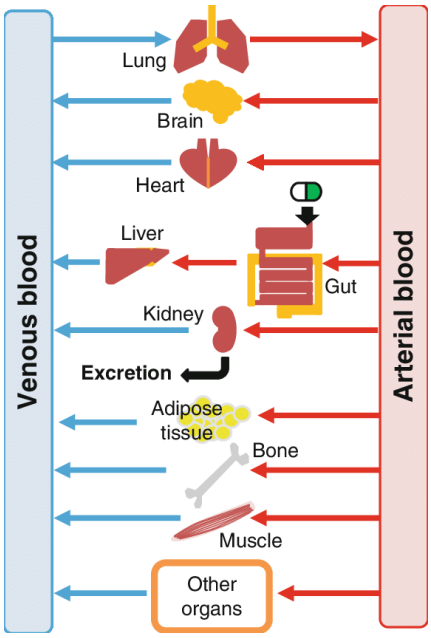
QUANTMETRICS

Physiologically-based PK modeling (PBPK)



- Mechanistic approach that integrates physicochemical, in vitro and physiological knowledge in a single model.
- PBPK is a very powerful tool for Animal-to-Human translational modeling.
- PBPK can simulate the impact of disease or organ impairment on the drug PK properties.
- PBPK models can be used to simulate Drug-Drug Interactions (DDIs) in place of conducting clinical study.
- PBPK modeling can support formulation development by simulating the impact of quality attributes (excipients, release rate, route of administration) on drug exposure.
- Bioequivalence can be demonstrated using PBPK-based simulation in virtual populations.

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