

Preclinical Development Handbook Adme And Biopharmaceutical Properties

Bioavailability

from patient to patient in order to ensure predictable dosing. ADME-Tox Biopharmaceutics Classification System Caco-2 Lipinski's Rule of 5 ^ TH: One of

In pharmacology, bioavailability is a subcategory of absorption and is the fraction (%) of an administered drug that reaches the systemic circulation.

By definition, when a medication is administered intravenously, its bioavailability is 100%. However, when a medication is administered via routes other than intravenous, its bioavailability is lower due to intestinal epithelium absorption and first-pass metabolism. Thereby, mathematically, bioavailability equals the ratio of comparing the area under the plasma drug concentration curve versus time (AUC) for the extravascular formulation to the AUC for the intravascular formulation. AUC is used because AUC is proportional to the dose that has entered the systemic circulation.

Bioavailability of a drug is an average value; to take population variability...

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