St SimulationsPlus



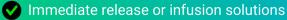
ADDITIONAL DOSAGE ROUTES:

PULMONARY

The Pulmonary Compartmental Absorption & Transit (PCAT™) model represents the lung/nose as a collection of the following compartments: an optional nose, extra-thoracic, thoracic, bronchiolar, and alveolar-interstitial.



The pulmonary model provides dosing via the intranasal or respiratory route as an:



- Immediate release or infusion powders
- Intratracheal administration
- Nasal sprays (solution or powder)
- ✓ Vapor Inhalation



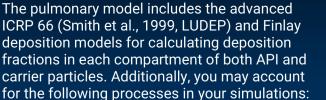
Utilize validated PBBM models

Mechanistic, physiologically-based models are provided for each tissue, for different species.



Customize in GastroPlus®

As with other GastroPlus modules, there is no equation or code writing required.



- Mucociliary transit
- Linear mucus and tissue binding
- Lymphatic transport & systemic absorption
- Nonlinear metabolism or transport in any lung tissue compartment



Optimize your models

Load measured *in vivo* PK data, for local tissues, to optimize and validate your models.



Leverage PBPK delivery models

PBPK delivery models, including the Population Simulator and Parameter Sensitivity Analysis, can be utilized.



Interested in collaborating?



Email us! info@simulations-plus.com



simulations-plus.com/gastroplus