St SimulationsPlus



ADDITIONAL DOSAGE ROUTES:

DERMAL

The Transdermal Compartmental Absorption & Transit (TCAT™) model represents the skin as a collection of the following compartments: stratum corneum, viable epidermis, dermis, sebum, hair lipid, and hair core.



The model can simulate a variety of transdermal and topical dosage forms, specified at different places on the body, including:

- Liquid formulations:
 - (solutions, lotions, patch, suspensions)
- Semi-solid formations: (gels, creams, lotions, pastes)



Utilize validated PBBM models

Mechanistic models are provided for multiple animals + humans



Customize in GastroPlus®

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



- ✓ Vehicle and compound evaporation
- Absorption from the vehicle into the various tissue regions
- Model in vitro dermatomed skin using the TCAT model
- Systemic circulation and lymphatic absorption
- Drug partitioning and diffusion through different skin layers and compartments (stratum corneum, viable epidermis, dermis, sebum, hair)



Optimize your models

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



Leverage all simulation modes

All functionality, including the Population Simulator and Parameter Sensitivity Analysis, can be utilized.



Interested in collaborating?



Email us! info@simulations-plus.com



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