

PBPK / PD Modeling Basics & Exposure Assessment — Hands-on

Develop an intuitive, non-clinical understanding of PBPK and PK/PD modeling to support discovery and safety assessments. You will explore model structure, physiological and compound-related parameters, exposure metrics and simple scenario-based simulations to interpret how changes in properties or regimens may affect exposure, without performing clinical dose selection.

PBPK / PD Modeling Basics & Exposure Assessment

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Session 1

Fee: Rs 8800 [Apply Now](#)

PK / PD & PBPK Conceptual Foundations

PK / PD basics for discovery and safety projects

[concentration-time thinking](#) [exposure vs response concepts](#) [non-clinical use cases only](#)

Compartmental vs PBPK model ideas (high level)

[simple compartment analogies](#) [physiological](#)

structure concept when PBPK is useful

Key quantities and curves (qualitative view only)

C_{max} / T_{max} ideas AUC and exposure notions half life and persistence

Session 2

Fee: Rs 11800 Apply Now

PBPK Structure, Parameters & Scaling Ideas

Typical PBPK structure (conceptual, diagram based)

organ and tissue compartments blood flows & volumes (idea level) elimination organs focus

Physiological and compound-related inputs (non-clinical)

tissue volumes & flows (tables / defaults) partition coefficient concepts clearance and binding ideas

Scaling & scenario thinking (high level, non clinical)

species differences conceptually body size and physiology shifts what-if comparisons only

Session 3

Fee: Rs 14800 Apply Now

Exposure Metrics, Profiles & PD Readouts

Exposure metrics from simulated profiles (conceptual)

reading concentration-time curves interpreting AUC and peaks time-above-threshold ideas

Basic PD response curve concepts (no clinical guidance)

E_{max} / EC₅₀ ideas exposure-response shapes qualitative potency vs exposure

Scenario comparisons and communication of results

visual overlays of profiles | tables of key metrics
clear non-clinical caveats

Session 4

Fee: Rs 18800 | Apply Now

Mini Capstone: Simple Exposure Assessment

Explore a simple PBPK-style scenario (non-clinical)

Theory + Practical (conceptual)

Compare exposure profiles under different what-if conditions

changes in clearance / binding (concept) | impact on
AUC and peaks (qualitative) | non-clinical
interpretation only

Deliverables: exposure summary plots & non-clinical narrative

basic profile figures | table of exposure metrics | short
PDF/HTML explanation note