

CYP UGT SLC ABC — Pharmacogene Interpretation — Hands-on

Go deeper into pharmacogenomics by learning how to interpret CYP, UGT, SLC and ABC pharmacogenes for real therapies. You will connect genotypes to activity scores and phenotypes, understand transporter effects on exposure and work through structured examples that mirror clinical decision making.

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Session 1

Fee: Rs 8800 [Apply Now](#)

CYP Pharmacogenes & Metabolic Phenotypes

Major CYP families and metabolic pathways

[CYP2D6](#) [CYP2C19](#) [CYP2C9 / CYP3A4](#)

Activity scores and phenotype categories for CYPs

[star alleles to activity score](#) [poor / IM / normal](#) [rapid](#)
[/ ultra rapid](#)

Examples: CYP based dose and toxicity patterns

tricyclics / SSRIs **clopidogrel and PPIs** **codeine and morphine exposure**

Session 2

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UGT & Phase II Conjugation Pharmacogenes

UGT family overview and conjugation pathways

UGT1A1 **UGT1A6 / UGT1A9** **bilirubin and xenobiotics**

Interpreting UGT variants and phenotypes

common alleles and repeats **reduced vs normal function** **hyperbilirubinemia risk**

Examples: irinotecan and atazanavir scenarios

neutropenia risk patterns **jaundice and dose decisions** **report wording principles**

Session 3

Fee: Rs 14800 Apply Now

SLC / ABC Transporters & Drug Exposure

SLC uptake transporters and hepatic uptake

SLCO1B1 **OCT / OATP families** **impact on statin exposure**

ABC efflux transporters and tissue protection

ABCB1 **ABCG2 / ABCC family** **CNS and gut barriers**

Examples: transporter variants and adverse effects

SLCO1B1 and statin myopathy **ABCG2 and kinase inhibitors** **simple interpretation tables**

Session 4

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Mini Capstone: Multi Gene Interpretation

Case with multiple pharmacogenes and drugs

combine CYP, UGT, SLC, ABC **summarize net exposure impact** **prioritize key risks**

Structuring a pharmacogene interpretation table

gene and phenotype columns **effect on exposure** **recommendation notes**

Deliverables: gene drug summary and slide deck

PDF or PPTX **one page interpretation sheet** **reusable template**