

Real-World Data, EMR Analytics & PGx Implementation — Hands-on

Understand how real world data (RWD) and electronic medical records (EMR) can be used to operationalise pharmacogenomics in routine care. This module focuses on conceptual workflows for building PGx enabled cohorts, designing EMR data flows, configuring alerts and decision support, and planning a practical implementation roadmap.

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Session 1

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RWD & EMR Data Foundations for PGx

What counts as real world data and real world evidence

[EMR, claims and registry data ideas](#) [prospective vs
retrospective sources](#) [strengths and limitations
conceptually](#)

Basic structure of EMR data for PGx work

[encounters, diagnoses and procedures](#) [medication,](#)

lab and allergy records | problem list and history
concepts

Where PGx information appears in the record (high level)

discrete genotype and phenotype fields | narrative
reports and scanned documents | links to lab systems
and summaries

Session 2

Fee: Rs 11800 | Apply Now

Data Flows, Mapping & Quality

High level data flow from source EMR to analytics

clinical documentation to data warehouse | PGx lab
feed and result storage ideas | cohort extracts for PGx
studies

Coding, mapping and basic harmonisation themes

standardised medication and diagnosis concepts
linking PGx results with drug records | timestamp and
episode alignment ideas

Data quality considerations for PGx implementation

missingness and inconsistent entries | duplicates and
conflicting information | simple checks and monitoring
dashboards

Session 3

Fee: Rs 14800 | Apply Now

PGx CDS Rules & Workflow Integration

Concepts for PGx clinical decision support (CDS)

pre test vs post test alert ideas | blocking, warning
and informational messages | minimising alert fatigue
themes

Designing PGx rules at a high level

trigger conditions using drug and genotype **mapping to phenotype and recommendation text** **linking to guideline references conceptually**

Embedding PGx into clinical workflows and teams

order sets and result display ideas **pharmacist and lab interactions** **governance and change control concepts**

Session 4

Fee: Rs 18800 Apply Now

Mini Capstone: PGx Implementation Playbook

Choose a clinical area and outline a PGx workflow

summarise use case and priority medicines **sketch key EMR touch points** **identify data sources and owners**

Draft a simple PGx implementation and analytics plan

phased rollout and governance steps **candidate CDS rules and reports** **basic metrics for adoption and impact**

Deliverables: PGx implementation map and one page brief

process diagram as PDF or PPTX **written summary for leadership review** **template for future PGx initiatives**