

Clinical Guidelines — CPIC, DPWG & Evidence Grading — Hands-on

Learn how to navigate pharmacogenomic clinical guidelines such as CPIC and DPWG, understand evidence levels and recommendation strength, and translate complex tables into concise, actionable therapy guidance. This module builds confidence in reading guideline documents and using them consistently in clinical and reporting workflows.

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Session 1

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PGx Guideline Landscape & Documents

Overview of major pharmacogenomic guideline groups

CPIC **DPWG** **FDA label annotations (concept)**

Structure of a typical PGx guideline document

introduction and scope **tables and footnotes**
supporting evidence sections

Navigating online resources and guideline updates

finding latest versions **drug and gene specific searches** **change logs and updates**

Session 2

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Evidence Levels & Recommendation Strength

Evidence categories used in PGx guidelines

CPIC evidence levels **DPWG evidence classes** **study design and effect size**

Recommendation strength and clinical actionability

strong vs moderate **optional vs no recommendation**
how this shapes reporting

Reading evidence tables and summaries efficiently

focus on key outcomes **confidence in effect estimates** **when to be cautious**

Session 3

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Applying CPIC DPWG Tables to Cases

From genotype and phenotype to table lookup

finding the right gene drug table **locating phenotype row** **reading recommendation columns**

Translating recommendations into dose and drug choices

dose adjustment language **alternative drug options**
monitoring and follow up notes

Worked examples across different therapeutic areas

cardiology and thrombosis **psychiatry and pain**

oncology toxicity scenarios

Session 4

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Mini Capstone: Guideline Based PGx Summary

Choose a gene drug pair and extract key guideline lines

identify relevant document **capture phenotype**
recommendations **note evidence and strength**

Build a concise, clinician friendly summary template

summary statement **recommendation bullets**
supporting guideline citation

Deliverables: one page guideline summary and slide deck

PDF or PPTX **re usable template** **ready for PGx**
reports