# Course 15 — AI in Clinical Decision Support & Medical Imaging

**Tier:** 2 (Practitioner-Tutor, domain: medicine) · **Days:** 3 · **Cohort max:** 16 · **Ratio:** 1:16
**Prerequisites:** Clinical qualification.
**Tools provisioned:** Imaging-AI demo environment, LLM access, literature-synthesis workspace.

**Day 1 — How clinical AI models are trained and validated:** interpreting sensitivity/specificity/PPV in clinical context; FDA/regulatory cleared vs. research-use tools.
**Day 2 — Medical imaging AI (radiology, pathology):** strengths, failure modes, workflow impact; LLMs for differential diagnosis support and literature synthesis.
**Day 3 — Capstone:** critically appraise an AI clinical tool for a specialty; design an implementation and monitoring plan for a clinic/department.

**Capstone artifact:** Tool appraisal + implementation plan.
**Tutor certification:** Tier 2 (medicine) + clinical sign-off + rubric calibration.
**Kit-specific notes:** Appraisal template aligned to regulatory categories; no patient data.



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