

Utilizing Artificial Intelligence (AI) during Clinical Precepting

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No conflicts of interest to disclose.

Learning Objectives



1. Explain how AI is transforming medical education and why AI literacy is essential for clinical preceptors.



2. Demonstrate ways to use AI tools responsibly to enhance teaching, assessment, and learner engagement.



3. Apply ethical principles and critical evaluation skills when integrating AI into clinical teaching.

AI in Clinical Teaching: Why It Matters

- AI is transforming clinical workflows and education.

- Understanding AI is essential for modern preceptors.

- AI enhances, not replaces, human educators.

AI as the 'Autopilot' of Education

- AI assists educators like an autopilot supports pilots.
- Reduces cognitive and administrative load.
- Enhances teaching quality and safety.

Rapid Adoption in Medical Education



59% INCREASE IN AI-
INTEGRATED CURRICULA
FROM 2023 TO 2024.



107 OF 140 SCHOOLS NOW
REQUIRE AI LITERACY.



AI LITERACY IS BECOMING
A CORE COMPETENCY.

Focus of AI Curricula in Medical Schools



- Basic AI Concepts: 60 schools

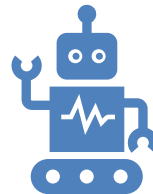


- Ethical, Social, and Legal Aspects: 57 schools

Institutional Gaps and Preceptor Responsibility



- 52% lack AI policy.



- 30% have institutional AI access.



- Preceptors bridge the gap with site-level guidance.

Streamlining Workflow with AI

- Generate outlines, rubrics, and assessments.

- Summarize literature or draft letters.

- AI scribes reduce documentation time by 70%.

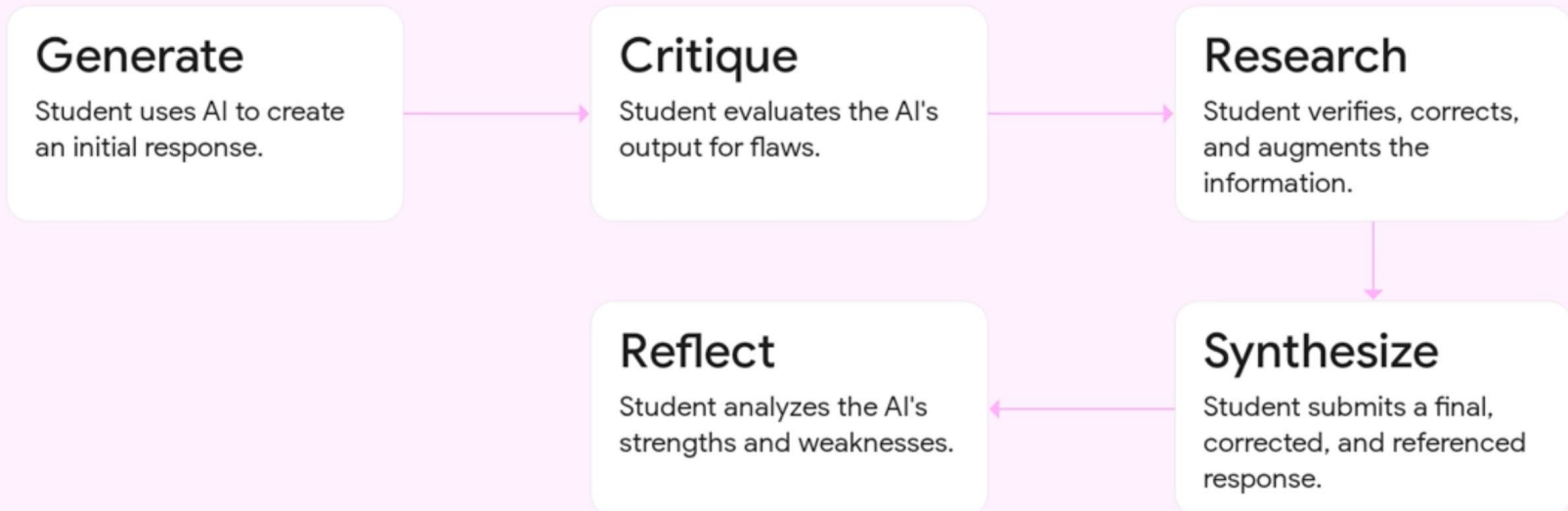
Reimagining Assignments

- Shift focus from generation to critique.



- Apply 5-step model:
Generate → Critique →
Research → Synthesize →
Reflect.

New Assignment Framework



Enhancing Student Learning

- Automated feedback on reasoning.
- NLP scoring for SOAP notes.
- Scalable AI-driven simulations.



HANDS-ON RESOURCE DEMOS

Tool 1: OpenEvidence



- Synthesizes peer-reviewed literature.



- Use for modeling critical thinking.

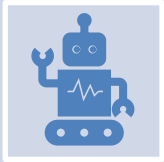


- Not HIPAA-compliant; verify output accuracy.

www.openevidence.com



Tool 2: ChatGPT



- Versatile AI for interactive tutoring.



- Encourage context-rich, role-based prompts.

<https://chatgpt.com/>



Tool 3: NotebookLM



- Upload PDFs/audio/websites for synthesis.



- Generates Audio/Video Overviews, Flashcards, Quizzes for study support.

[https://notebooklm.
google.com/](https://notebooklm.google.com/)



Ethical Oversight and Accountability

- Preceptor remains accountable.

- Failing to oversee AI output violates duties.

Mitigating AI Risks



- Accuracy: watch for “hallucinations” (plausible but false info).



- Privacy: **never** input PHI into public tools.



- Bias: recognize AI can amplify health disparities from training data.

Model Policy for AI in Learning



- PERMITTED FOR LEARNING ENHANCEMENT.



- PROHIBITED FOR GRADED ASSESSMENTS UNLESS EXPLICITLY PERMITTED & DISCLOSED.

Integration Strategy

- AI augments, not replaces, expertise.

- Begin with one simple use case.

- Introduce one AI-enhanced assignment.

Developing Long-Term AI Literacy



- TREAT AI LITERACY AS A CORE COMPETENCY.



- EMPHASIZE REFLECTION, ETHICS, AND CREATIVE PROBLEM-SOLVING.



AI is designed to **augment**, not **replace**, your irreplaceable expertise as an educator and clinician.





Summary: Integrating AI in Clinical Teaching



AI as an Augmentation Tool: AI is intended to **augment**, not replace, the expertise of educators and clinicians. It serves as the 'autopilot' of education.



Developing Preceptor AI Literacy: Preceptors should focus on **developing their own AI literacy** and **beginning slowly** with integration, ensuring they can effectively guide students in this new landscape.



Reimagining Assignments: A new framework encourages students to use AI to Generate an initial response, then **Critique, Research, Synthesize, and Reflect** on the AI's output to build long-term AI literacy.



Practical Workflow Integration: AI can **streamline workflow** and enhance student learning. Tools demonstrated include **OpenEvidence, ChatGPT, and NotebookLM**.



Ethical and Policy Responsibility: Integration must include **ethical oversight and accountability, mitigating AI risks**, and adopting a **model policy** for AI in learning.

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QUESTIONS?

