

STANFORD Department of Emergency Medicine Lane Library 2025 Update

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Lane Medical Library

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[Plagiarism checking of research manuscripts: iThenticate is a web-based service that compares](#) research manuscripts, grant proposals, and other scholarly writing against an extensive database of published content to highlight both potential originality concerns and the inclusion of AI-generated text. Using iThenticate, the same tool utilized by most scholarly journals and funding agencies to screen submissions, allows Stanford authors to identify and address potentially inappropriate duplication and citation practices prior to external distribution.

[ChatGPT5](#) ChatGPT5's image generation capabilities have been significantly improved. Additionally, consider experimenting with the free version of [ChatGPT's Sora](#), an app that generates videos from text prompts and images. It allows users to create personalized "cameos" of themselves, featuring their appearance and voice, and insert them into various scenarios.

AI use cases: 1) Stanford Medicine [Technology & Digital Solutions](#) created a Medical Student Performance Evaluation AI tool using [Stanford Medicine Secure Chat GPT](#) that standardizes the dean's letters according to a style guide before a final review, and drafts a summary paragraph for the Advising Deans to further refine. 2) The Stanford Medicine CME office has created a 4-page rubric "prompt" with [ChatGPT](#) to instantly assess whether they should pursue a specific

grant or funding opportunity. As I understand it, they simply enter the appropriate grant website URL, and the tool will provide a relevance ranking score.

[Elicit](#): An AI *scientific* research tool.

Ask a question: Retrieve articles that show best practices for teaching pediatric residents about performing bedside ultrasounds in the ED.

Extract data: Let's look at outcomes measured in the cited studies.

Create a research report: Conduct a comprehensive literature review on the applications and implications of agentic AI in healthcare, focusing on research published within the last five years. The review should address:

1. Definition and Key Characteristics of Agentic AI Systems in Healthcare Contexts
2. Major Use Cases and Applications of Agentic AI in Healthcare
 - o Diagnostic accuracy and early disease detection
 - o Personalized treatment planning and precision medicine
 - o Remote patient monitoring and chronic disease management
 - o Administrative process automation and operational efficiency
 - o Drug discovery and development
3. Potential Impact of Agentic AI on Healthcare Outcomes
 - o Improvements in patient care and clinical decision-making
 - o Cost reduction and resource optimization
 - o Accessibility of healthcare services, particularly in underserved areas
4. Challenges and Limitations in Implementing Agentic AI in Healthcare
 - o Data privacy and security concerns
 - o Ethical considerations and regulatory compliance
 - o Integration with existing healthcare systems and workflows
5. Role of Agentic AI in Addressing Current Healthcare Challenges
 - o Staff shortages
 - o Administrative burdens
 - o Limited patient–doctor interaction time
6. Comparative Analysis of Agentic AI Systems versus Traditional AI Applications in Healthcare
7. Future Prospects and Emerging Trends in Agentic AI for Healthcare
 - o Potential transformative impacts on the healthcare industry

Scope and Sources

- Focus on research published within the last five years
- Include studies from:
 - o Peer-reviewed journals
 - o Reputable healthcare technology sources
 - o Relevant conference proceedings

Objectives

- Critically evaluate the current state of research
- Identify gaps in knowledge
- Highlight areas for future investigation

Systematic Review Support: Automatic relevancy ranking and data extraction *could* significantly reduce the overhead associated with systematic and scoping reviews.

[OpenEvidence](#): An AI *clinical* research tool.

Ask a question: Are there studies that look at the effectiveness of simulation training in brachytherapy for residents?

Other features: Drug interactions and side effects, exam question generator, guidelines, pop-science questions, and pre-authorization letters.

[Google NotebookLM](#): “Google NotebookLM” (often written Notebook LM) is a Google experimental AI-powered notebook/research assistant tool that helps you organize and interact with your own documents, notes, and source materials using a built-in language model.
GeeksforGeeks

Create an [audio summary of this handout](#)

Create a [quiz based on this handout](#)

Create [flashcards based on this handout](#)

[Speechify](#): Speechify is a mobile, Chrome extension, and desktop app that reads text aloud using a computer-generated text-to-speech voice. The app also uses optical character recognition technology to turn physical books or printed text into audio which can be played in your own voice or in that of a celebrity

[Stanford AI Playground](#) – A "sandbox" for trying out various AI tools, e.g., ChatGPT, Claude, DeepSeek, etc.