

Artificial intelligence in training and education of nurses.

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Presentation

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AI tools, particularly ChatGPT, show promise in nursing education for case simulation and language learning, but challenges remain around accuracy verification, curriculum integration, and maintaining critical thinking skills.

KEY POINTS

- A systematic review of 46 studies found that 48% expressed optimism about ChatGPT benefits in nursing education including academic writing and realistic simulations, while 31% raised concerns about data privacy, content accuracy, and overreliance.
- In a randomized study with 188 third-year nursing students, those taught by AI had significantly better knowledge test results than those taught by human instructors, with similar acceptance ratings in both groups.
- The speaker uses ChatGPT-based patient simulations in supervised two-hour sessions with first-year students using a structured prompt, though the chatbot sometimes becomes fixated on minor issues requiring restarts.
- The speaker's team developed ViGaTu, an open-source VR simulator for endoscopy training covering equipment setup, team time-out, and propofol sedation, available for free download.
- ChatGPT correctly cites guideline names but gets guideline numbers and publication years wrong in most cases, and its temperature setting causes it to give different answers each time, making standardization difficult.
- There are currently no structured curricula or dedicated apps for nurse training with AI based on available scientific evidence, raising the question of whether to wait for industry development or begin integration now.

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