

BACKGROUND

- Large language model Artificial Intelligence (AI) applications (e.g., ChatGPT, Bard, Bing AI) are becoming increasingly popular¹
- These applications use a combination of deep learning and natural language processing to generate human-like text based on the question received²
- It is hypothesized that although student pharmacists use AI tools, education on appropriate use in educational or clinical context is lacking

OBJECTIVES

- Characterize AI utilization among fourth-year (P4) pharmacy students
- Assess perceptions of AI tools in pharmacy education
- Identify opportunities to incorporate AI into the curriculum

METHODS

- A 14-item anonymous survey was created and hosted in RedCap
- Distributed to all current P4 students at the Medical University of South Carolina (MUSC) in December 2023
- Participation in the study was voluntary, no incentives were offered to students, and investigators were blinded to the identity of participants
- Responses for each item were not required
- The term "AI tools" was used to refer to large language models including, ChatGPT, Bard, Bing AI, etc.
- Data was exported to Excel and descriptive statistics were performed to analyze findings
- This study was deemed quality improvement by the Medical University of South Carolina Institutional Review Board (IRB) and therefore was not subject to IRB review and approval









- Small sample size
- Potential for response and self-selection bias
- Questions were primarily close-ended, limiting ability to capture respondents' full experiences
- Al is a rapidly evolving topic, which makes capturing current utilization and perceptions difficult

Shah NH, Entwistle D, Pfeffer MA. Creation and Adoption of Large Language Models in Medicine. JAMA. 2023 Sep 5;330(9):866-869. 2. Gottlieb S, Silvis L. How to Safely Integrate Large Language Models Into Health Care. JAMA Health Forum. 2023 Sep 1;4(9):e233909.



- A small percentage of students are currently using AI tools for educational purposes
- Opportunities exist to optimize how students could use AI tools for educational purposes
- Education regarding use of AI tools is needed including clear guidance and education on acceptable usage for academic purposes as well as critical appraisal of AI tool output
- Future studies examining the impact, effectiveness, and areas of improvement with the use of AI tools in pharmacy education is needed

REFERENCES