AI in Academia: A Review of the Evolving Guidelines on AI Use and Disclosure in Top Scholarly Journals

Fisher D. M.D., Fisher S. B.S., Clark W. M.D.
1. Wright State Department of Psychiatry

Background

Technological advancements continuously transform the transmission and processing of knowledge. Generative Artificial Intelligence (AI) is a rapidly evolving technology that has the potential to alter research and academic activities. It is important to establish guidelines for AI use in research to avoid harmful abuse of this technology in the academic process. However, there is no current universal guideline in academic medicine for the use of AI programs. We present a review of published guidelines for authors from top psychiatric and medical research journals.

Methods

Reviewed 50 academic journals, based on Impact factor, the top 25 journals overall, and the top 25 psychiatry-specific journals. Parent Journals were only included once (e.g. Nature). Reviewed publicly available AI guidelines on the below rubric.

Disclosure

ChatGPT 4.0 was utilized in the information gathering, research literature review, and brainstorming poster titles. All content is written by the authors. No financial disclosures. Views are the authors’ and do not represent the US Air Force or Department of Defense.

Psychiatry journals are behind in establishing AI policy statements compared to other top-impact journals

Many policies do not explicitly endorse or reject the use of generative AI tools in the process of research data gathering

Call for the development of clear nuanced guidance for the use of generative AI in research and academic writing

Summary of AI Policies - Combined Psychiatry and Non-Psychiatry

Research Process 64% - 0% - 36%
Manuscript Preparation 32% - 16% - 50%
Editing Process 42% - 0% - 36%
Information Gathering 16% - 24% - 60%