

Ethical Use of AI in Ophthalmic Research Writing

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Artificial intelligence (AI) is transforming ophthalmic research and also provides reckoned means of data analysis, literature review and even writing manuscripts. Artificial intelligence tools such as natural language processing (NLP) and machine learning algorithms can help simplify research activities, determine trends, and improve the level of scientific writing. Nevertheless, with the level of AI penetration in the research process growing, the ethical matters should never be left far behind in order to uphold scientific integrity and plausibility.

Major ethical implications related to plagiarism and misinformation that AI may cause form one such issue. AI-powered writing tools can be used to create content based on large amounts of data, but they can also accidentally create writing that is too similar to that already published without adequate references. This brings a doubt about originality and ethical use of AI generated material in academic articles. Scientists should make sure that AI is not used as a replacement to critical thinking and true scientific contribution.

One more of the most important issues is authorship and accountability. In future, with the evolution of AI tools they can serve as a great support in the manuscript writing process. Nevertheless, AI is unable to take the responsibility of accuracy and ethical integrity of the research. Recommendations, including the ones offered by the International Committee of Medicine Journal Editors (ICMJE), state that its human authors should be solely responsible in the content, and sections generated by AI should not come in with biases or facts errors (ICMJE, 2023).

Additionally, AI applications in writing ophthalmic research should be transparent. Researchers should clarify the extent to which the AI-powered manuscript

preparation tools were used. Journals and peer reviewers also play a crucial role in ensuring that AI was applied ethically and that the final article meets academic and ethical standards.

In order to overcome these obstacles, the ophthalmic researchers should present ethical framework governing AI usage that focuses on including references, tracking openness, and human control. Although the scope of AI can be viewed in terms of immense potential that can improve efficiency of research, it must be used responsibly so as to maintain the integrity of ophthalmic science and medical writer.

References:

- International Committee of Medical Journal Editors (ICMJE). (2023). "Recommendations for the Conduct, Reporting, Editing, and Publication of Scholarly Work in Medical Journals." Retrieved from <http://www.icmje.org>