

Review of: "The Pursuit of Healthcare by AI: Thoughtful Delivery Needed"

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This commentary article provides a thoughtful perspective on the potential benefits and risks of artificial intelligence (AI) applications in healthcare, with a particular focus on dermatology. The authors raise important points about the need for careful implementation of AI tools to avoid unintended negative consequences.

Strengths:

1. The article addresses a highly topical issue in healthcare as AI/ML tools are being rapidly developed and deployed.
2. The authors acknowledge both the potential benefits of AI in healthcare as well as the risks and challenges that need to be considered.
3. The discussion includes concrete examples from dermatology, which helps ground the commentary in practical applications.
4. The article raises key ethical issues around data privacy, algorithmic bias, and the doctor-patient relationship that warrant careful consideration.
5. The authors make a compelling case for a measured approach to AI adoption in healthcare rather than uncritical enthusiasm.

Weaknesses:

1. While dermatology provides a useful case study, expanding the discussion to other medical specialties could strengthen the article's broader relevance.
2. The article does not describe the different types of medical AI models (Image, Biosignal, Language) and how they are used as part of medical practice.
3. Including some statistics or study results on AI performance in healthcare applications would bolster the arguments.
4. The article is stronger on identifying problems than proposing specific solutions. More concrete recommendations for responsible AI implementation would be valuable.
5. A more detailed explanation of how AI/ML algorithms work in medical contexts would be helpful for readers less familiar with the technology.
6. The discussion focuses primarily on Western healthcare contexts. Considering implications for low-resource settings could enhance the article's scope.

Overall, this is a well-written and timely commentary that raises important considerations as AI becomes more prevalent in

healthcare. The authors effectively argue for a thoughtful, ethical approach to AI adoption that maintains the critical role of human medical professionals. With some expansion of scope and more specific recommendations, this could be an even stronger contribution to the ongoing dialogue around AI in medicine.

Suggested revisions:

1. Expand examples beyond dermatology to demonstrate relevance across medical specialties.
2. Include some quantitative data on AI performance in healthcare applications.
3. Propose more specific recommendations for responsible AI implementation.
4. Add a brief technical explanation of relevant AI/ML approaches for non-expert readers.
5. Consider implications for AI adoption in low-resource global health settings.