

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

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Potential competing interests: No potential competing interests to declare.

The abstract effectively addresses the rapid integration of AI, particularly machine learning (ML), into healthcare, highlighting both its potential benefits and significant risks. It outlines advancements in technology, especially in dermatology through computer vision and CNNs, and acknowledges the promise of AI in improving medical diagnostics. However, it emphasizes critical challenges, such as data bias, lack of transparency, privacy concerns, and the potential disruption of the doctor-patient relationship.

Key ethical and practical issues are well-articulated, including the risk of over-reliance on AI, disparities in resource access, and the need for robust legal frameworks to protect patient data. The abstract calls for thoughtful reflection on the role of AI in healthcare, advocating for transparency, diverse and representative datasets, and AI tools as aids rather than replacements for human clinicians.

Constructive Suggestions:

1. **Enhance Transparency and Explainability:** Develop AI models with mechanisms for transparency to build trust among clinicians.
2. **Promote Diverse Data Collection:** Ensure training datasets are representative to minimize bias.
3. **Strengthen Data Privacy:** Establish robust legal frameworks for data protection.
4. **Integrate AI as a Support Tool:** Use AI to support, not replace, human clinicians.
5. **Address Resource Disparities:** Advocate for equitable access to AI technologies.
6. **Continuous Education and Training:** Implement training programs for healthcare professionals on AI tools.
7. **Encourage Ethical AI Development:** Focus on AI tools that prioritize patient outcomes and global healthcare standards.

In summary, while AI has transformative potential in healthcare, its integration must be cautious and well-regulated to avoid compromising safety, equity, and the integrity of the doctor-patient relationship.