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Letters to the Editor

Bridging global dermatology education gaps: the promise and challenges of leveraging AI-driven medical training to advance equity and personalization with OSCEai dermatology

Combler les lacunes mondiales en éducation dermatologique : promesses et défis de l'utilisation de la formation médicale basée sur l'IA pour faire progresser l'équité et la personnalisation grâce à OSCEai dermatologie

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Dear Editor,

We would like to thank the authors for their study in "OSCEai dermatology: augmenting dermatologic medical education with Large Language Model GPT-4" and app creation.[1]

OSCEai Dermatology exemplifies the potential of AI-powered medical education tools to address both global and specialty-specific challenges in healthcare training. Leveraging GPT-4, the app generates diverse and realistic dermatologic OSCE scenarios spanning all Fitzpatrick skin types, addressing the historically underrepresented diversity in medical learning resources.

By integrating evidence-based images and providing personalized feedback in an OSCE-style, competency-based format, OSCEai enhances traditional dermatology education. Residents rated its realism, interactivity, and accuracy as moderately effective, acknowledging its contribution to exposing allow trainees to experience broader clinical cases and diagnostic challenges. OSCEai's large-scale simulation of complex patient interactions can support learners in resource-constrained settings by supplementing faculty-led training and expanding clinical case variety. Together, these features demonstrate how such AI-driven educational technologies can democratize access to quality clinical training globally while addressing specific dermatology training needs.

However, realizing the promise of equitable education is contingent on overcoming challenges such as variable internet access and faculty preparedness to integrate AI tools effectively.[2] Continued development to enhance user experience, scenario accuracy, and curriculum integration could further increase its educational impact while addressing inconsistencies and occasional LLM hallucinations. Moreover, ethical considerations require ongoing vigilance to minimize potential biases within AI models and to prevent widening existing inequities in healthcare systems.[3] OSCEai Dermatology is an encouraging step toward a future where institutions worldwide integrate AI-enhanced medical education to help narrow training gaps.

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