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Letter to the Editor



Artificial Intelligence in Reducing Delays and Enhancing Accuracy of Oral Cancer: Recent Affairs

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Dear Editor,

The challenge of early diagnosis in oral cancer remains significant, as delays in detection often lead to worsened patient outcomes. Recent advancements in artificial intelligence (AI) offer promising avenues to mitigate these delays, enhancing both the accuracy and efficiency of diagnosis.

Al technologies, particularly machine learning and deep learning models, have been instrumental in the early detection and classification of oral cancer lesions. Vats et al.^[1] highlighted the potential of Al in screening techniques, suggesting that combining imaging with Al can significantly improve the detection and diagnosis of oral cancer.

Moreover, the study by Ilhan et al.^[2] underscores the pivotal role of Al in minimizing diagnostic delays. Their research emphasizes how Al can overcome barriers to effective screening and timely healthcare access, especially in resource-limited settings. This is further supported by Abhilasha Chapade et al.^[3] who discuss the integration of innovative optical imaging and Al techniques to identify oral potentially malignant lesions, which could revolutionize early diagnosis efforts.

Additionally, the comprehensive review by Ilhan et al.^[4] elaborates on how combined imaging and Al approaches can lead to improved oral cancer outcomes, suggesting a broad spectrum of applications from low-cost smartphone-based screening to high-precision detection using optical coherence tomography. These studies collectively indicate that Al's integration into oral cancer diagnostics could significantly reduce diagnostic delays, offering a beacon of hope for early detection and improved patient care.

Disclosures

Conflict of Interest: None declared.

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