AI IN DETECTION OF ORAL POTENTIALLY MALIGNANT DISORDERS

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ABSTRACT:

Considering the alarming incidence and mortality rates, detection of OPMD is the utmost important for reducing morbidity, mortality from oral cancer and has been the main focus of many screening programs. The early detection of oral potentially malignant disorder often provide the best chances for curing the disease and to increase the patients survival rate. However, majority of the cases are diagnosed at an advanced stage. It is mainly due to lack of public awareness about oral cancer sign and delay in referrals to oral cancer. The implementation of such screening programs based on visual examination has been found to be problematic as they rely on primary healthcare professional, who are often not adequately trained or experience to recognized the lesions. Advances in the fields of computer vision and deep learning offer powerful methods to develop adjunctive technologies that can perform an automated screening and provide feedback to health care professionals during examination.

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