



Farouk Mohammed

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Biography

Farouk Mohammed, obtained his national specialty diploma in oral surgery in 2017; he then became a professor of preventive dentistry in 2024. His areas of expertise include oral surgery; pediatric oral surgery and oral cancer prevention

Early Detection Of Oral Epithelial Dysplasias Using A Combination Of Two Techniques Liquid-based Cytology And Velscope

Abstract:

The global annual incidence of cancer is 275,000 cases per year. In Morocco, the figures are very alarming, with 3,500 cases per year, 8% of which are located in the oral cavity. The major problem posed by these conditions is related to late detection, which subjects the patient to extensive, lengthy treatment and a survival rate generally less than 5 years. The aim of our study is to evaluate the effectiveness and reliability of a combination of two techniques for the early detection of epithelial dysplasias: liquid-based cytology and the Velscope.

Materials and Methods: This was a diagnostic study. The study sample consisted of 100 patients. Each patient underwent a clinical examination and a Velscope examination. A brush for automated cytological study was performed on areas that were Velscope-positive, and a biopsy was taken from the same site. This allowed for a comparison of the reliability of this technique with that of biopsy by evaluating its sensitivity and specificity.

Results: Statistical tests showed a sensitivity of 100% and a specificity of 53%.

Conclusion: Biopsy remains the gold standard for histopathological examination. The study of the reliability of this technique showed promising results, warranting further studies with larger sample sizes.