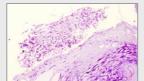
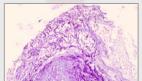
Pathogenic Implications of Candidal Species in Both Oral Cancer and Oral Potentially Malignant Disorders - A Review

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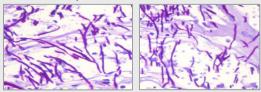
Background: Oral squamous carcinoma (OSCC) is the 6th most common cancer in worldwide. Cigarette smoking, alcohol consumption, and betel guid chewing are its major risk factors other factors that can lead to OSCC include excessive sun exposure, viral or fungal infection, poor nutrition, and poor oral hygiene. Most OSCC cases are preceded by clinically evident oral potentially malignant disorders (OPMDs). The aim of this review is to correlate the association between Candida species and oral potentially malignant disorders and its possible mechanisms in oral cancer progression.



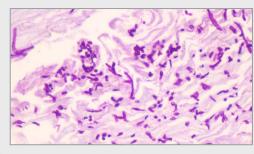


10x H & E view of Candidial Hyphae from Oral Epithelial Dysplasia Image Courtesy: Dept of Oral Pathology, FDS, Ramaiah University

Search Results: The mouth is an important source of infections that may even be with mortality. associated Candida albicans, a most common opportunistic pathogen which is the predominant genus among the yeasts of the oral cavity. Candida though a commensal, can also oral mucosal infections cause immunocompromised situations which are frequently seen in older individuals, infants, people infected with HIV, and individuals with cancer. Certain strains of Candida albicans and other yeasts play a causal role in the development of oral by means of endogenous cancer nitrosamine production.



40x H & E view of Candidial Hyphae from Oral Epithelial Dysplasia Image Courtesy: Dept of Oral Pathology, FDS, Ramaiah University



40x H & E view of Candidial Hyphae from Oral Cancer Tissue Image Courtesy: Dept of Oral Pathology, FDS, Ramaiah University

Conclusion: The association of Candida with premalignant states has been studied extensively and many authors have shown an increase in Candida colonization in these lesions as compared to controls. Candida infections have been associated with oral epithelial dysplasia and neoplasia.