

Efficacy of Computerized Tomography (CT) in identification of clinically not detectable lymph nodes in patients with oral squamous cell carcinoma

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Oral squamous cell carcinoma and is the third most common malignancy in India. The most common mode of metastasis is through the cervical lymph nodes. The complexity in predicting the presence of metastatic disease in clinically negative necks has led to wide spread use of elective neck dissection. This present study is intended to evaluate the status of clinically not detectable lymph nodes using Computerized Tomography (CT) and also to compare accuracy between clinical examination and CT. 40 patients who have been histopathologically diagnosed with Oral squamous cell carcinoma were included in the study. The findings of both clinical as well as CT examinations were correlated with pathological findings from the neck dissection. Number of True positives detected by clinical examination (CE) versus CT is 7 and 13 respectively ($p=0.17$). Number of True negatives detected by CE versus CT is 18 and 18 respectively ($p=1$). Number of False positives detected by CE versus CT is 5 and 5 respectively ($p=1$). Number of False negatives detected by CE versus CT is 10 and 4 respectively ($p=0.1$). Sensitivity for CE versus CT is 41.1% and 68.4% respectively ($p=0$). Specificity for CE versus CT is 78.2% and 78.2% respectively ($p=1$). Positive Predictive Value for CE versus CT is 58.3% and 72.2% respectively ($p=0.001$). Negative Predictive Value for CE versus CT is 64.2% and 75% respectively ($p=0.001$). Accuracy of CE versus CT is 62.5% and 77.5% respectively ($p=0.001$). The present indicates that CT is an important image tool for detection and statistically significant over the clinical examination.

Biography

Dr. Priyanka Ammika has completed her Bachelor of Dental Surgery (BDS) from Rajiv Gandhi University of Health Sciences, India. She has been working in the field of public health on various health programs in coordination with Health Ministry of Andhra Pradesh related to Oral carcinomas, HIV/AIDS and Reproductive Child Health since last 4 years. She has published four papers in reputed journals and currently working of 4 different research projects related Drug abuse among medical students, Oral STIs, Dengue and Obesity related disorders.

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