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Coorelation between serum squamous cell carcinoma antigen level and tumor volume in head and neck cancer

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Background: Tumor marker in head and neck cancer is one of the most investigated areas. Squamous cell produces squamous cell antigen(SCC-Ag) which is expected to be higher in cancer. Level of SCC-Ag associated to cancer prognosis has been shown in literatures. e investigators conducted the rst study determining correlation between SCC-Ag level and tumor volume in head and neck cancer.

Materials and Methods: SCC-Ag level of the patients was measured from venous clotted blood. Tumor volume was calculated by the typical ellipsoid formula. e tumor width, length, and height were measured from CT scan. Correlation between SCC-Ag level and tumor volume was analyzed.

Results : Fi y-two patients, 50 male and 2 female, were studied. Mean age of patients was 62.4 year. Tumor subsites were oral cavity cancer 11 cases (21.6%), oropharyngeal cancer 21 cases (40.38%), hypopharyngeal cancer 8 cases (15.7%), and laryngeal cancer 12 cases (23.5%). Di erentiation of tumors were well di erentiated 20 cases (38.4%), moderate di erentiated 27 cases (52.9%), and poorly di erentiated 5 cases (9.8%). Mean of tumor volume was 20.013 mL3 with 0.02-91.46 mL3 in range. Critical point of tumor volume was 30.8 mL3. Mean of SCC-Ag was 2.69 ng/mL with 0.5-14.6 ng/mL in range. Critical point of SCC-Ag was 5.8 ng/mL. Tumor volume in head and neck cancer signi cantly related to SCC-Ag by Pearson's product-moment correlation with P value = 0.0002213 and 52.4% correlation (moderate level).

Conclusions: Study of head and neck tumor volume and SCC-Ag level demonstrated moderate correlation.

Biography

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