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Objective: To show the characteristics of nasopharyngeal cancer (NPC) patients, analyze the overall survival rate, and determine the factors that influence overall survival.

Methods: We recorded the characteristics of 500 newly diagnosed NPC patients between January 2007 and December 2011 who were treated in the Department of Radiotherapy in Dr. Cipto Mangunkusumo General Hospital. The overall survival (OS) of 398 patients was analyzed by Kaplan-Meier analysis, and multivariate analysis was performed using Cox proportional hazard ratio to identify dependent prognostic factors for survival. Results: Most patients were male (71.6%) with a median age of 45 years (9 to 86 years). The main stage was IVB (28.09%) and the pathological type was WHO III (85.03%). A total of 398 patients were analyzed for the 3- and 5-year OS rates. The 3-year OS rates for stages I, IIA, IIB, III, IVA, and IVB were 100%, 67.5%, 72.7%, 57.5%, 48.9%, and 47.4%, respectively. By contrast, the 5-year OS rates for stages I, IIA, IIB, III, IVA, and IVB were 100%, 67.5%, 72.7%, 43.1%, 34%, and 35.1%, respectively. Univariate analysis showed that stages III and IVB, nodal status (N2 and N3), and overall treatment time of >49 worsened OS, whereas multivariate analysis showed that tumor stage was the only independent prognostic factor for survival (*P*=0.049).

Conclusion: NPC was 2.5 times more frequent in males than that in females, with WHO III being the most histopathological type. Tumor stage is an independent prognostic factor for survival.

Seroepidemiologic study on human papillomavirus as a risk factor for oral and pharyngeal cancer in Sri Lanka

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Objective: Oral and pharyngeal cancer (OPC) of multifactorial etiology is a major health problem in Sri Lanka. High-risk (HR) types of human papillomavirus (HPV) are significant risk

factors for OPC in many countries. Few data are available association between HPV and pharyngeal cancer in Sri Lanus, the relationship of HR-HPV16 and HR-HPV18 types OPC in Sri Lanka was investigated.

Methods: The case-control study involved 78 OPC patients 51 age- and gender-matched non-cancer control subjects demographics and information on cigarette, alcohol, and been consumption were acquired through an interview. The samples of study subjects were assayed for the presence of HPV16 and anti-HPV18 virus-like particle (VLP)-specific like antibodies using an in-house established indirect enzyme-limit immunosorbent assay (ELISA). Optimum assay parameter for the indirect ELISA were established using checkers titrations. The cut-off values were determined using the mean SD of antibody response of the control group against HPV HPV18 VLPs. Chi-square test was performed to determine the significance of the association between OPC and its risk Logistic regression was used to calculate odds ratios (ORs) CIs, which were adjusted for the influence of other risk factors Results: Oncogenic HPV18 showed a higher rate of seropositivity in 32% of OPC patients and 2% of noncontrol subjects. This result indicates an association with with a momentous risk of 20.7-fold after removing variables contributed by other factors (adjusted OR =20.785 CI =2.559 to 168.795). HR-HPV16 was detected in I of OPC patients and 5.88% of controls, which resulted 5.89-fold increase in risk after adjusting for smoking, and betel quid (adjusted OR = 5.89; 95% CI = 1.466 to 23.60%) Notably, this risk was not statistically significant in the of HPV18 as a risk factor (adjusted OR =3.489; 95% CI = 1000) to 14.683). Moreover, seven OPC patients were detected both anti-HPV16 and anti-HPV18 antibodies. A 4.9-fold of developing OPC was also pronounced among smooth after accounting for other factors (adjusted OR =4.916 CI =1.732 to 13.95) whereas alcohol, betel use, and dentition were not significantly associated with OPC.Statistics significant differences with regard to age, gender, smolern alcohol, betel use, poor dentition, and site specificity tumor were not observed between HPV-seropositive HPC-seronegative OPC patients.

Conclusion: This study was the first to investigate established major risk factors with HR-HPV in the etiological both oral and pharyngeal carcinoma in Sri Lanka. The show a plausible association between HR-HPV and OPC 46% of the case group being seropositive for HPV16/18 implementation of suitable control measures is warrank Knowledge on HPV status of an OPC patient at diagnost lead to de-escalation of treatment, which is cost effective are reduce the morbidity of patients, rendering potential social economic benefits to the country.

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