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The role of HLA-A2 expression, *CYP2E1* gene polymorphism and nitrosamine on the degree of nasopharyngeal carcinoma

Nani Iriani Djufri, Irawan Yusuf, Sutji Pratiwi Raharjo and Abd Qadar Punagi
Hasanuddin University, Indonesia

The objective of the study is to analyze the role of HLA-A2 expression gene polymorphism of *CYP2E1* and nitrosamine in nasopharyngeal carcinoma patient. The data were taken from 70 nasopharyngeal carcinoma patients who came for treatment at two tertiary referral hospitals Dr. Wahidin Sudirohusodo and Pelamonia Hospitals in cross-sectional way during one year. The expression of HLA-A2 was examined with immunohistochemical method, CYP2E1 gene genotype with Polymerase Chain Reaction (PCR) and Restriction Fragment Length Polymorphism (RFLP) and nitrosamine with Liquid Chromatography Mass Spectrometry (LCMS/MS). The data were analyzed with SPSS 20 statistical tests and chi-square. The study indicates no significant relationship between the expressions of HLA-A2 positive and the degree of NPC (OR 1.2; CI: 0.25-5.5; p=0.554). It is also found that no significant association between the genotype CT CYP2E1 gene and the degree of NPC (OR 3.8; CI: 0.76-18.85; p=0.079), also no correlation between nitrosamine detected and the degree of NPC (OR 2.6; CI: 0.82-8.03; p=0.088). However, a significant correlation exists between the genotype CT *CYP2E1* gene nitrosamines and the degree of NPC (OR 7.2; CI: 1.08-47.96).

Biography

Nani Iriani Djufri is a Senior Consultant of Oncology, Head and Neck in Department of Otorhinolaryngology, Hasanuddin University. She works both in the hospital and teaching in the Medical Faculty of Hasanuddin University, Indonesia.

irianidjufri@gmail.com

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