

学 位 論 文 要 旨

博士課程 ①・乙	第	号	氏 名	PUTRI DAMAYANTI
[論文題名]				
<p>The Relationship Between CTLA-4 (-318 C/T) Polymorphism and Urothelial Cancer Carcinogenesis in Japanese Patients 日本人における CTLA-4 (-318 C/T) 多型と尿路上皮がんとの関係 Journal of Cureus, 15(10): e48068, 2023, DOI: 10.7759/cureus.48068</p>				
[要 旨]				
<p>Background. Urothelial cancer is one of the most common types of urinary system cancer and there are several factors that can influence its growth. One of the most prominent factors among these is genetics. The Cytotoxic T-Lymphocyte Antigen-4 (CTLA-4) gene is suspected to be a susceptibility gene in urothelial carcinoma. The aim of this study is to investigate polymorphism in the CTLA-4 gene (CTLA-4 -318 C/T) and whether it is associated with urothelial cancer.</p> <p>Methods. The study population consisted of 253 cases and 272 controls. In this case-control study, DNA was extracted from peripheral blood cells, and the CTLA-4 -318C/T genotypes were detected using polymerase chain reaction-restriction fragment length polymorphism.</p> <p>Results. C/T (adjusted OR (aOR) 3.37; 95%CI: 1.98-5.74) genotype, C/T + T/T (aOR 3.25; 95%CI: 1.96-5.39) genotype, and T allele (aOR 2.94 95%CI: 1.87-4.62) all indicated they are significant risk factors for urothelial cancer, with the effects of polymorphism being higher in the nonsmoker group than in the smoker group. Furthermore, the association between polymorphism and urothelial cancer carcinogenesis was similar among men and women.</p> <p>Conclusions. This is the first study examining the association between CTLA-4 -318C/T polymorphism and urothelial carcinoma in Japanese patients. A significant association between CTLA-4 -318C/T polymorphism and urothelial cancer among Japanese patients was detected in this study. This supports the development of research on polymorphisms in urothelial cancer and is an important root of immunoreactions in cancer. We believe this study will be beneficial to clarify the relationship between CTLA-4 polymorphism and urothelial cancer.</p>				