

LETTER TO EDITOR

TC2 C776G POLYMORPHISM AND ORAL CANCER

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Dear Editor

We read the publication on “TC2 C776G polymorphism studies in patients with oral cancer in the Polish population” with a great interest [1]. Malinowska *et al.* studied on polymorphism of transcobalamine 2 gene and concluded that “our population G/G homozygosity of C776G TC2 gene polymorphism increases the risk of oral cancer [1]” and “Regarding C/G genotype of the C776G TC2 gene, polymorphism also increases the risk of developing this cancer [1].” The results in this report are concordant with the previous report on this polymorphism and head and neck squamous cell carcinoma risk [2]. A possible explanation for the observation might be due to the molecular change due to the G to C mutations. If we considered the molecular weight change based on molecular calculation at the mutation site, G776C, the change G to C is equal to +36.03 g/Mol (75.07 to 111.1). The increased molecular weight due to genetic change can imply a requirement of more molecules for completeness of final expression. This means an increased risk for carcinogenesis. It is the same biological process as described in in other malignancies [3, 4].

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The authors declare no conflict of interest.

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