

Transforming growth factor- α and nonsyndromic cleft lip with or without palate or cleft palate only in Kelantan, Malaysia

Type: Article

Abstract:

Objective: To determine the frequency of the transforming growth factor-alpha (TGF α) Taq1 polymorphism in nonsyndromic cleft lip with or without cleft palate (CL \pm P) and cleft palate only (CP) in Kelantan, Malaysia. **Setting:** The study was conducted at the Combined Cleft Clinic and at the Human Genome Centre in Hospital Universiti Sains Malaysia in Kelantan, Malaysia. **Design:** We examined the C2/Taq1 variant of the TGF α gene in 46 patients with nonsyndromic CL \pm P or CP only and in 33 controls. The TGF α genotype frequencies in patients were compared with those in controls using the chisquare or Fisher exact test. DNA samples were obtained from peripheral blood. **Results:** No association was found between TGF α Taq1 polymorphism and CL \pm P or CP in this case-control study. In addition, no homozygosity for the rare allele C2 was noted in CL \pm P, CP, or the controls. **Conclusion:** No evidence of TGF α Taq1 polymorphism was observed in association with CL \pm P and CP in this study.

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