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Nonsyndromic Cleft Lip With or Without Cleft Palate: Erratum

To the Editor:

We are writing to revise results from our previous study reporting linkage disequilibrium between markers on chromosome 19 and cleft lip with or without cleft palate (CL/P) (Stein et al. 1995). We detected an error in the program used for the transmission disequilibrium test (TDT). The original version of our program assumed independent nuclear families and therefore inappropriately assigned parentage in some of the extended families that were studied. Here we present the TDT reanalysis of all the affected individuals from the entire collection of families in our previous report (Stein et al. 1995).

We applied two test procedures at each locus. First, we used an omnibus marginal homogeneity test in which we tested jointly, for all alleles at a locus, that the marginal probability of transmission for each allele was equal to the marginal probability that the allele was not transmitted. For this analysis, we obtained a significance level by permuting the parental alleles and resampling the data 10,000 times. Next considering specific alleles ar a locus, we tested, using McNemar's test, whether the probability of transmission versus nontransmission was equal. The significance level was assessed using using Fisher's exact test.

For the data from Stein et al. (1995), the overall analysis of BCL3 provides a nonsignificant association between BCL3 and CL/P ($\chi^2_4 = 5.796$; $P = .181$). The 3 allele was preferentially, albeit nonsignificantly, transmitted to affected individuals (29 alleles transmitted vs. 20 nontransmitted; $P = .25$), and the 4 allele was underrepresented (16 transmitted vs. 29 nontransmitted; $P = .07$). We are sorry if this mistake caused investigators any problems.

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