

## **Factors which cause cleft lip and palate**

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**Objective** To study the factors involving in the etiology of cleft lip and palate.

**Materials and Methods** Data was collected by using the questionnaire interview of 111 cleft lip and palate patients who received the treatment at Chulalongkorn Dental Hospital. Personal data and type of cleft lip and palate of patients were collected from the record. Medical history, familial history and other related information of their parents were recorded.

**Result** The most common type of cleft lip and palate are unilateral complete cleft of the primary and secondary palate (45%) with left : right ratio as 3 : 2. Interestingly, the remarkable factors related to cleft lip and palate is familial history (31%). During pregnancy period, maternal stress, maternal illness such as cold, hepatitis and drug usage such as birth-control pill are related 66%, 32% and 28%, respectively. Careers involving chemical poison, such as agriculture, in father (27%) is more effect than in mother (21%). Age of father and mother less than 20 and more than 40 was 10% and 13%, respectively. Data analysis using Chi-square test indicated that there was no significant difference ( $p < 0.05$ ) between the remarkable factors and the type of cleft lip and palate.

**Conclusion** The major factor involving in the etiology of cleft lip and palate is familial history which involved in any age group. Genetic factors related to familial history should be further study.

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