

EFFECTS ON NASOMAXILLARY COMPLEX OF CLEFT LIP AND CLEFT PALATAL REPAIR AND UNREPAIR

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ABSTRACT

OBJECTIVE: The cross-sectional analysis was planned to compare complex nasomaxillary growth between operated unilateral cleft lip and palatal repair and unoperated.

MATERIAL AND METHODS

A sample of 36 cleft lip and palate patients (18 unoperated and 18 operated) was selected. Sampling was performed by purposive sampling method. The patients were divided into two groups further divided into three subgroups, and each subgroup consisted of six patients. A statistical test was conducted using the descriptive statistics-independent "t" and ANOVA test

RESULT

CRANIAL BASE RELATIONSHIPS

In this study, no significant difference was found in the mean N-S-Ba ($p=1$ in the birth group to 3 years, $p=0.575$ in the 6-12 age group and 0.786 in the 12-20 age group) and S-N ($p=1$ in the 3-year birth group, $p=1$ in the 6-12 age group and $p=0.106$ in the 12-20 age group) values (Table -1, Figure 1-3) in any of the operated and unoperated cleft group. The results indicated that the cranial base angle and anterior cranial base length did not differ.

MAXILLARY SPATIAL POSITIONING

The study showed that maxilla is usual in the unoperated category of birth to three years (mean 82.330) and six to twelve years (mean 82.50), whereas it is protrusive (84.60) in the age group of twelve to twenty. The mean value of SNA in an operated group is 76.0 at birth to three years, 77.0 at six to twelve years, and 79.0 at twelve to twenty years, showing that maxilla is retrusive in all three subgroups (Table -2)

CONCLUSION

The maxilla is normal in an unoperated group till twelve years, whereas maxilla is prognathic in the age group twelve to twenty years. This shows that within the unoperated group there is natural growth potential of the maxilla. In an operated group the maxilla is retrognathic, suggesting that the maxilla growth is affected by surgical repair of the cleft lip and palate.

KEYWORDS: Cleft Lip & Palate, Nasomaxillary Complex, Operated & Unoperated

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