

# Analisis Morfometrik Dimensi Lengkung Gigi pada Penderita Celah Bibir dan Langit-langit Unilateral dan Bilateral pasca Labioplasti dan Palatoplasti = Morphometric Analysis of Dental Arch Dimensions in Unilateral and Bilateral Cleft Lip and Palate after Labioplasty and Palatoplasty

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## Abstrak

Latar Belakang: Labioplasti dan palatoplasti merupakan tindakan definitif dalam tatalaksana celah bibir dan langit-langit. Pasca tindakan pembedahan, rata-rata ditemukan konstiksi lengkung gigi dalam arah antero-posterior dan lateral. Tujuan: Mengevaluasi dimensi lengkung gigi pada pasien UCLP dan BCLP pasca labioplasti dan palatoplasti menggunakan model studi pada usia 5 tahun. Metode: Dilakukan pencetakan model studi rahang atas dan bawah pada pasien UCLP dan BCLP pasca labioplasti dan palatoplasti, kemudian dilakukan pengukuran lebar lengkung gigi anterior dan posterior serta panjang lengkung gigi rahang atas dan bawah. Hasil perbandingan antar kelompok dan dengan kelompok kontrol dilakukan menggunakan uji Mann-Whitney dan Kruskal-Wallis. Hasil: Terdapat perbedaan yang signifikan pada dimensi lengkung gigi rahang atas antara kelompok kontrol, UCLP dan BCLP. Kesimpulan: Gangguan tumbuh kembang lengkung gigi pada pasien UCLP dan BCLP pasca labioplasti dan palatoplasti tercermin pada model studi saat pasien berusia 5 tahun

.....Background: Labioplasty and palatoplasty has been becoming the mainstay of treatment in cleft patients. Dental arch constriction in lateral and antero-posterior direction was among the most frequently encountered feature in the operated cases. Purpose: To evaluate the dental arch dimension of operated UCLP and BCLP cases by using dental cast at five years of age Method: dental arch dimensions were measured from the dental cast of the operated UCLP and BCLP cases. The results were compared between both group and a control group consisted of normal subjects. The statistical analysis was performed with Mann-Whitney and Kruskal-Wallis test. Results: There were statistically significant differences on the upper dental arch dimensions between those groups. The differences were also observed at the lower dental arch but not statistically significant. Conclusion: Dental arch constriction of the operated cases of UCLP and BCLP could be observed from the dental cast at five years of age.