

Laju Pertumbuhan Maksila Pra Operasi Pada Celah Bibir dan Langit-langit Bilateral (BCLP) di Cleft Center RSAB Harapan Kita = Maxillary Growth Rate on Bilateral Cleft Lip and Palate Patients in Cleft Center Harapan Kita Hospital, Jakarta, Indonesia

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Abstrak

Studi mengenai pengukuran dental cast telah beberapa kali dilakukan namun sedikit sekali yang terkait dengan Celah Bibir dan Langit-langit Bilateral karena jumlah kasus yang sangat jarang. Tujuan dari studi ini untuk mengevaluasi pertumbuhan maksila pasien Celah Bibir dan Langit-langit Bilateral menggunakan beberapa perlengkapan alat dan software menggunakan landmark yang sama dengan studi pengukuran lengkung maksila dan sudut palatal shelves. Penelitian Retrospektif ini diselenggarakan di RS Harapan Kita Cleft Center Jakarta, Indonesia. 35 dental cast sebelum labioplasti dan 35 dental cast setelah labioplasti dari pasien yang sama didigitisasi menggunakan scanner desktop 3D E4 dari 3shape. Lebar lengkung maksila dengan pengukuran linear dan palatal shelve dilakukan pada penelitian ini. Pengukuran dilakukan sebanyak dua kali oleh orang yang sama (intra observer) dan measurement error dihitung menggunakan dahlberg test. Laju pertumbuhan linear pada pasien ini baik, 45,1% pasien mengalami laju pertumbuhan positif setelah pembedahan, 34,3% laju pertumbuhan positif antar kaninus, dan 14,3% pasien mengalami laju pertumbuhan negatif pada interkaninus maksila dan intertuberositas. Laju pertumbuhan angular 22,9% mengalami hasil negatif dan 5,7% mengalami laju pertumbuhan positif. Laju pertumbuhan relatif normal pada penelitian ini. Palatal shelve mengalami pendangkalan pada penelitian ini namun pada tuber maksila kiri ada peninggian.There were several studies regarding to measure the growth from dental cast, but it is severely limited study which is related to Bilateral Cleft Lip and Palate (BCLP) since the case is quite rare. The aim of this study is to evaluate the maxillary growth of BCLP patients using different tools and software with the same landmark to the previous methods for dental arch width and palatal shelves angle. This retrospective study was held in Children and Maternal Cleft Center Harapan Kita Hospital, Jakarta, Indonesia. 35 dental casts before labioplasty and 35 dental casts before palatoplasty from the same patients were digitized using 3D desktop scanner E4 from 3shape. Dental arch width of BCLP maxillary growth rate with linear measurement and palatal shelf angle were conducted in this study. The measurements were performing twice by same person (intra observer) and the measurement error was calculated by Dahlberg test. The growth rate linear in this patients results are good, 45.1% of patients experiencing positive growth rate post surgery, 34.3% positive growth surgery intercanine, but negative growth rate on intertuberosity, 14.3% patients have negative maxillary intercanine results and positive intertuberosity growth rate, and finally 14.3% patients experiencing negative growth rate in both maxillary intercanine and intertuberosity . Angular growth rate 22.9% have negative results and 5.7% have positive growth rate results. The dental arch linear growth rate relatively normal in this research. The palatal shelves were elevated in this research but in left tuber maxillary the degree is increasing.