

# Pengaruh Labioplasti dan Palatoplasti terhadap Tinggi Maksilla, Volume Sinus Maksilaris dan Ukuran Sella Turcica pada pasien Celah Bibir dan Langit Langit Unilateral di RSAB Harapan Kita = The Effect of Labioplasty and Palatoplasty on Maxillary Height, Sinus Maxillary Volume, and Sella Turcica Size in Unilaterall Celft Lip and Palate Patient in RSAB Harapan Kita

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## Abstrak

Latar Belakang: Celah bibir dan langit-langit merupakan kelainan bawaan yang umum ditemukan yang terjadi saat perkembangan janin karena kegagalan proses pertumbuhan organ wajah. Defisiensi pertumbuhan maksila secara tiga dimensi (3D) sering ditemukan pada penderita celah bibir dan langit-langit terutama pada kasus unilateral. Pasien yang telah menjalani prosedur operasi menunjukkan adanya penurunan tinggi basis kranial, maksila yang lebih pendek, retrograntik maksila berlebihan dan inklinasi gigi insisif atas dan bawah yang lebih ke lingual. Perawatan bertahap dibutuhkan untuk penanganan pasien dengan celah bibir dan langit-langit seperti bedah perbaikan tulang alveolar, restorasi prostodontik, dan koreksi dental definitif. Tujuan: Menganalisis pengaruh labioplasti dan palatoplasti terhadap tinggi maksila, volume sinus maksilaris dan ukuran sella turcica pada pasien celah bibir dan langit-langit unilateral. Material dan Metode: Penelitian analitik observasional dengan desain potong lintang. Subjek penelitian ini adalah anak berusia <sup>3</sup>13 tahun dengan celah bibir dan langit-langit unilateral, telah dilakukan labioplasti dan palatoplasti, serta tidak mengikuti prosedur perawatan ortodontik cekat di RSAB Harapan Kita, Jakarta dalam kurun waktu 2011-2013. Berdasarkan kriteria inklusi dan eksklusi diperoleh jumlah samepl sebanyak 12 subjek. Setiap subjek dilakukan pengambilan gambaran radiografi CBCT untuk penilaian tinggi maksila, volume sinus maksilaris dan ukuran sella turcica. Perbandingan tinggi maksila dan volume sinus maksilaris dilakukan pada sisi celah dan sisi normal, sedangkan perbandingan ukuran sella turcica dilakukan secara deskriptif menggunakan data sekunder. Hasil penelitian: Terdapat perbedaan tinggi maksila dan volume sinus maksilaris yang signifikan antara sisi celah dan sisi normal ( $p=0,00$  dan  $p=0,01$ ). Terdapat perbedaan ukuran lebar dan kedalaman sella turcica antara subjek dengan kelompok kontrol. Kesimpulan: Labioplasti dan palatoplasti mempengaruhi tinggi maksila, volume sinus maksilaris dan ukuran sella turcica pada pasien dengan celah bibir dan langit-langit unilateral

.....Background: Cleft lip and palate is a common congenital disorder that formed during fetal development due to failure of the developmental processes of the face. Three-dimensional (3D) maxillary growth deficiency is often found in patients with cleft lip and palate, particularly in unilateral cases. Patients who had undergone surgical procedures show a decrease on cranial base height, shorter maxilla, severe maxillary retrograntic and more lingual inclination of upper and lower incisor teeth. Multistage treatment is necessary for patients with the lips and palate such as alveolar bone repair, prosthodontic restoration, and definitive dental correction. Objective: To analyze the effect of labioplasty and palatoplasty to maxillary height, maxillary sinus volume and sella turcica size in patients with unilateral cleft lip and palate. Materials and Methods: Observational analytic study with cross-sectional design. The subjects of this study were children <sup>3</sup>13-years-old with unilateral cleft lip and palate, had undergone labioplasty and palatoplasty, and did not

undergo fixed orthodontic treatment procedures at RSAB Harapan Kita, Jakarta in the period of 2011-2013. Based on the inclusion and exclusion criteria, a total of 12 subjects were obtained. Each subject took a CBCT radiographic to assess the maxillary height, maxillary sinus volume and sella turcica size. Comparison of maxillary height and maxillary sinus volume was performed on the cleft and normal sides, while the comparison of the size of the sella turcica was performed descriptively using secondary data. Results: There are significant differences in the maxilla height and maxillary sinus volume between the cleft side and the normal side ( $p = 0.00$  and  $p = 0.01$ ). There is a difference in width and height of the sella turcica between the subject and the control group. Conclusion: Labioplasty and palatoplasty affect maxillary height, maxillary sinus volume and sella turcica size in patients with unilateral cleft lip and palate.