

EP-059

**양측성 구순열의 단계적 수술법:  
수술 프로토콜 및 초기 임상 결과**

(Staged side by side Bilateral Cleft Lip Repair in complete bilateral cleft lip patients: Surgical Protocol and Early Outcomes)



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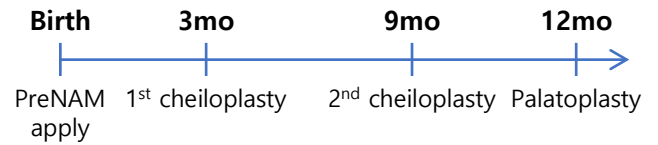
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**Purpose:** The one-stage repair in bilateral complete cleft patients is the standard for bilateral cleft lip repair. However, prolabial tissue sacrifice and lateral muscle recruitment often causes excessive upper lip tightness. This study introduces a novel two-stage side by side repair overcoming these limitations and presents early outcomes

**Methods:** A retrospective review analyzed 17 infants who underwent the two-stage bilateral cleft lip repair between December 2023 and February 2026. Clinical data, including the duration of presurgical nasolabial molding (NAM), timing of staged surgeries were investigated. Postoperative aesthetics at 1 year of age were evaluated using the Asher-McDade system by two blinded raters.

**Results:** The mean presurgical NAM duration was 101.4±9.7 days. The first and second cheiloplasty stages were performed at mean ages of 3.1±0.4 and 8.8±0.5 months, respectively, followed by palatoplasty at 11.7±0.7 months. An postsurgical NAM, lip taping, and a nasal retainer were used between stages. Asher-McDade evaluation yielded mean scores of 1.65 for nasal form, 1.35 for symmetry, 1.95 for vermilion border, and 2.00 for profile, quantitatively demonstrating favorable aesthetics.

**Fig. 1.** Two-staged Surgical Protocol of Bilateral Cleft Lip



**Table 1. Comparison of Asher-McDade Scores**

| Category                            | 1st Evaluation (Mean ± SD) | 2nd Evaluation (Mean ± SD) | p-value |
|-------------------------------------|----------------------------|----------------------------|---------|
| Nasal Form                          | 1.65 ± 0.88                | 1.65 ± 0.67                | 1       |
| Nasal Symmetry                      | 1.40 ± 0.68                | 1.35 ± 0.59                | 0.716   |
| Vermilion Border                    | 2.20 ± 0.89                | 1.95 ± 0.83                | 0.021   |
| Nasal Profile (including upper lip) | 2.55 ± 1.15                | 2.00 ± 0.97                | 0.004   |

**Fig. 2.** Preoperative, Post-first Repair and Post-second Repair Photography



**Conclusion:** This two-stage side by side repair effectively mitigates the upper lip tightness inherent in conventional one-stage repair. Implementing this staged surgical protocol achieves reliable, aesthetically pleasing early outcomes, offering a viable alternative to the traditional paradigm.