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# Evaluation of residual nasal deformity after primary cheilorhinoplasty in unilateral cleft lip and palate. Case-control study using J.C Talmant and J. Delaire techniques

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**Abstract :**

**Introduction :** Durable correction of nasal deformity in patients with unilateral cleft lip and palate remains a great challenge. Many treatment protocols and different primary surgical techniques have been developed to restore labionasal symmetry and functionality. These include isolated cheiloplasty and cheilorhinoplasty, which can sometimes be combined with preoperative nasolabial molding or nasal conformation postoperatively. The technique described by Ralph Millard is among the most popular. It was modified in Nantes by Jean Delaire to limit the visibility of the scar and then by Jean Claude Talmant, the latter including an extensive endonasal dissection and a postoperative nasal retainer for 4 months. In this study, we sought to compare the efficacy of these two surgical techniques in terms of correction of nasal deformity in patients with unilateral cleft lip and palate.

**Materials and methods:** We compared basal-view photographs of the nose before and after surgery, as well as at follow-up visits, before any secondary correction. These images were retrieved from a database of patients operated on by four different surgeons, two of whom used the Jean Delaire technique and the other two the Jean Claude Talmant technique. Morphometric landmarks on the nose were marked on each photo and then artificial intelligence was used to identify them. In addition, Procrustean analysis was also used as a geometric analysis method to superimpose and align the shapes for comparison. We are interested in evaluating symmetry, central septum position, and floor width of the nasal cavity to determine if there are variations in aesthetic and functional outcomes between these two techniques and if nasal conformer wear plays a key role.

**Results/Discussion:** The results of this study are being analyzed and will be presented for the first time at the congress.