

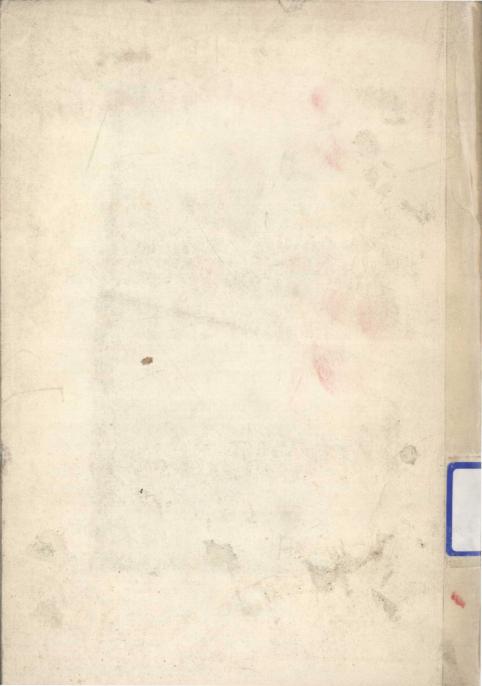
1977 YEAR BOOK OF

PLASTIC AND RECONSTRUCTIVE SURGERY



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The YEAR BOOK

Plastic and Reconstructive Surgery

1977

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Congenital Anomalies

CLEFT LIP AND PALATE

Review of Results of Two Different Surgical Procedures for Repair of Clefts of Soft Palate Only was made by Ross H. Musgrave, Betty Jane McWilliams and Hannah P. Matthews¹ (Univ. of Pittsburgh). The two procedures were simple palatal closure (Langenbeck) and the V-Y retroposition method. The simple palatal closures used lateral relaxing incisions with minimal undermining since

These findings are not assumed to be conclusive; however

all clefts were of the soft palate only.

The population consisted of two groups of children similar in chronological age and intelligence for whom operation was performed at an average age of 1 year 11 months in the simple closure group and 1 year 8 months in the V-Y repair group. In the early pre-school years, the children were evaluated for intelligence, language, hypernasality, hearing, articulation and voice quality. The groups were roughly similar in intelligence, language and articulation. The simple closure group was at first slightly more hoarse than the V-Y repair group and the latter slightly more hypernasal. Hearing acuity was somewhat poorer in the simple closure group.

On reevaluation after 2 years, increments in IQ of between 15 and 20 points in the mean psycholinguistic quotients were found in both groups, an indication that further consideration of the effect of cleft palate on overall early development is needed. The final evaluation was carried out when the mean chronological does were 10 years 1 month for the simple closure group and 10 years 2 months for the V-Y repair group. The groups were roughly comparable in intelligence, language, articulation, hypernasality, nasal emission and velopharyngeal closure. They differed in hearing acuity, in which the simple closure group showed slight-

⁽¹⁾ Cleft Palate J. 12:281-290, July, 1975.

ly more hearing loss. This group was also judged to have more hoarseness.

These findings are not assumed to be conclusive; however, they do add to existing evidence that V-Y repair probably. overall, yields a somewhat better initial speech result than simple closure repair. Although differences between groups proved to be small, speech adequacy was achieved in the V-Y retroposition group with less need for secondary surgery.

a highly important and critical difference.

Speech Results after Millard Island Flap Repair in Cleft Palate and Other Velopharyngeal Insufficiencies. Most surgeons consider permanent lengthening of the palate essential for cleft palate repair. However, the degree of lengthening is usually limited by the conditions on the nasal surface of the palate where the soft tissue is scarce and inaccessible. If the wound on the nasal surface is not covered with epithelial tissue, it will heal by contracture, thus canceling the benefit of the lengthening. Millard's method using an island flap of palatal mucoperiosteum from the oral surface to substitute for the soft tissue deficit seemed to offer a solution. A mucoperiosteal island flap measuring 12-15 mm wide could be expected to heal with minimum con-

Michael L. Lewin, Joyce C. Heller and Dolores J. Kojak² (Montefiore Hosp., Bronx, N.Y.) report their investigation to determine the effect of the Millard island flap repair on velopharyngeal competence and voice quality. Of 24 palatal operations performed using the Millard technique, in 14 patients it was used to correct an overt cleft palate (group A) and in 10 to correct velopharyngeal insufficiency in the absence of an overt cleft palate (group B).

Speech examination consisted of evaluation of voice quality by 3 trained speech therapists. Acceptable voice quality was observed in 70% of group A and 60% of group B patients. It is not surprising that the postoperative results in group B were poorer than in group A. Group B included patients with a diversity of conditions, including submucous cleft and incompetence secondary to a tonsillectomy and adenoidectomy. To be students of misself doldwing which paid

⁽²⁾ Cleft Palate J. 12:263-269, July, 1975.

The Millard operation results in better lengthening of the repaired palate and less chance of secondary contracture than other pushback operations. However, it is the muscular hypoplasia, the underdevelopment of the existing muscular element, which accounts for most of the failures in achieving velopharyngeal competence after repair. Tight closure of the muscular palate is probably responsible for poor mobility and residual velopharyngeal insufficiency. Although the Millard island flap method of repair is reliable and useful for cleft palate and other velopharyngeal insufficiencies, it does not offer substantial advantages over other established procedures.

► [It would be interesting to have another comparative series presented because the Millard island flap repair is more complicated than other established operative procedures. – K.L.S.]

Simultaneous Surgical Repair of the Lip and Nose in Unilateral Cleft Lip is reported by K. Honigmann³ (Thallwitz). This malformation generally is managed by several primary operations. For lip correction, an incision according to Millard's method is often the most appropriate. The most striking nasal deformity is the malposition of the columella, with a shift of the soft tissue of the tip of the nose toward the healthy side and flattening of the wing-shaped cartilage on the cleft side.

The author's technique includes incision around the columellar skin and its folding over onto the nasal tip as a flap. An extension of the incisions into the nasal vestibule exposes the crus mediale and part of the crus laterale, generally on both sides. The crures mediales are then sutured at the nasal tip and perhaps folded over laterally; the malposition of the columella is corrected by medial suturing in of the tip of the flap. Lengthening of the columella might be achieved by a V-Y plasty; the width of the nasal orifices is corrected by vestibular Z-plasty. Excision from the nostrils or shifting flaps from the nasal environment are avoided as much as possible. Deformities in the area of the septum are corrected as well. Figure 1 shows the method.

Surgery is carried out under local anesthesia and its duration is 85-120 minutes. Results are satisfactory cosmetically and functionally. Hospitalization time for the com-

⁽³⁾ Zahn. Mund. Kieferheilkd. 63:246-249, 1975.

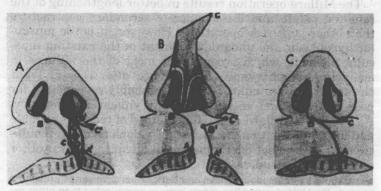


Fig 1.—Course of incision (A), developing flaps (B) and status after suture closure (C) in simultaneous correction of the lip, according to Millard, and of the nose. (Courtesy of Honigmann, K.: Zahn. Mund. Kieferheilkd. 63:246-249, 1975.)

bined procedure is no longer than required for either one alone.

► [The author is confused about the concept of the Millard repair and defers it until "after growth is complete." – K.L.S.] ◀

Treatment of Bilateral Cleft Lip is discussed by Ivo Pitanguy, Carlos Alberto Jaimovich and Sérgio Rubens Matta⁴ (Rio de Janeiro, Brazil). Bilateral cleft lip is an embryogenic abnormality resulting from lack of union of the inner nasal with the maxillary processes, whether by failure of mesodermal development to consolidate the fusion or by any type of blockade. When the disturbance occurs at 4–7 weeks of fetal life, the cleft reaches the bony structures of the primary palate because of a lack of fusion of the premaxilla with the alveolar arches of both sides. Many psychologic problems occur, some related to speech restrictions and social impairment. Significant anatomical deformities are part of the problem.

Bilateral cleft lip occurred in 24% of 699 cleft lip patients treated in a 12-year period; over half of the patients were about age 11 months. Relatives bore the deformity in 35 cases. Bilaterally complete clefts were present in 104 cases, bilaterally incomplete clefts in 20 and both complete and

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⁽⁴⁾ Rev. Bras. Cir. 65:187-196, July-Aug., 1975.