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Electromyographic activity of the masseter and temporal muscles in nonsyndromic complete unilateral cleft lip and palate patients: Two-stage versus one-stage palate repair

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Objective: To assess the electromyographic activity of the masseter and temporal muscles in cleft patients who underwent one-stage palate repair versus two-stage palate repair.

Methods: Thirty-two (32) patients with nonsyndromic complete unilateral cleft lip and palate operated by two different protocols for palate repair, one-stage (group-1, n=16) versus two-stage with delayed hard palate closure (group-2, n=16) were available in the retrospective longitudinal study. Standardized electromyographic records of the masseter and anterior portion of temporal muscles were obtained with two repetitions during mastication and rest.

Results: No statistically significant (all $p > 0.05$) differences were observed in the electromyographic data between the groups-1 and 2.

Conclusion: There were similar electromyographic activity of masseter and temporal muscles during mastication and at rest after one-stage and two-stage palate closure.

Biography

Anelise Sabbag has been a Speech-Language Pathologist for 25 years. She has received her BA from Franca University, Brazil in 1991 and her Specialization in Orofacial Motricity in Franca University, Brazil in 1999 and Master's degree in Health, Interdisciplinary linked to the Human Development and Rehabilitation Department (DDHR) of the Faculty of Medical Sciences, UNICAMP. She has extensive experience working with multiply handicapped, neuromotor impairments, craniofacial deformities, orofacial physiology, language and voice. In addition, she has a strong background with children that have clefts and craniofacial diagnoses. In 2003 she was invited to coordinate the Cleft Lip and Palate Team of Speech Pathologist in the SOBRAPAR; Brazilian Society of Research and Assistance for Craniofacial Rehabilitation, Campinas, São Paulo, Brazil. She has lectured at universities, state association meetings and national and international conventions.

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