Photoclinic: Congenital Aplasia of the Depressor Anguli Oris Muscle

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The mother of this 2-month-old boy was concerned about her son's facial asymmetry that was apparent only when he was crying. The right angle of the infant's mouth dropped substantially below the left angle of the mouth when he cried; it also deviated to the right (A). The moment the child stopped crying, his mouth became symmetric again (B).

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Linda S. Nield, MD, of West Virginia University, and Deepak M. Kamat, MD, PhD, of Wayne State University, diagnosed left-sided congenital aplasia of the depressor anguli oris muscle (CADAOM). CADAOM occurs in approximately 0.3% to 0.7% of newborns.1,2 Complete absence of the muscle is rare, as revealed by sonographic studies,3 but absent or reduced numbers of motor unit potentials are not rare in patients who undergo electromyography.4 The condition is diagnosed clinically by observing the obvious physical finding. The child displays symmetric facial movements except in the oral region where the lower lip on one side does not depress while crying.

CADAOM can occur as an isolated anomaly, but patients with CADAOM have a higher risk of other malformations than the general population.2 Systems that may have associated abnormalities include cardiac, musculoskeletal (hemihypertrophy),3 genitourinary,2 otolaryngologic,5 and endocrine (hypothyroidism).6 Congenital heart disease with CADAOM (Cayler syndrome) seems to be transmitted in an autosomal dominant fashion,7 and CADAOM in association with 22q11 microdeletion has been reported.8 No treatment is required for this defect, but a thorough physical examination is warranted for all neonates with CADAOM to look for other malformations. (None were present in this baby.) Further testing, such as echocardiography or renal ultrasonography, should be pursued if warranted by abnormal physical examination findings.

References: REFERENCES:
1. Lahat E, Heyman E, Barkay A, Goldberg M. Asymmetric crying facies and associated congenital


Links:
[1] [http://www.physicianspractice.com/authors/linda-s-nield-md-0](http://www.physicianspractice.com/authors/linda-s-nield-md-0)
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