

Encephaloduroarteriosynangiosis for Pediatric Moyamoya disease

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EDAS/[encephalomyoarteriosynangiosis](#) (EMAS) provides a [stroke](#)-prevention benefit with an acceptably low morbidity rate. Given the combined experience with EDAS and EMAS for this indication at this and other institutions, a prospective clinical trial to assess their efficacy compared with that of chronic transfusion therapy alone is warranted ¹⁾.

Case series

Six children underwent 8 EDAS procedures and were followed from 6 months to 9 years after surgery. No patient experienced further deterioration in neurologic status. Postoperative angiography demonstrated cerebral revascularization from the donor scalp artery on 3 of the 6 EDASs that were studied. The 2 patients who did not revascularize after EDAS demonstrated angiographic regression of their disease. The data suggest that EDAS is a safe procedure for the treatment of childhood moyamoya disease. Given the potential severity of the sequelae, early operative intervention is recommended in all children with this disease ²⁾.

¹⁾

Griessenauer CJ, Lebensburger JD, Chua MH, Fisher WS 3rd, Hilliard L, Bemrich-Stolz CJ, Howard TH, Johnston JM. Encephaloduroarteriosynangiosis and encephalomyoarteriosynangiosis for treatment of [moyamoya syndrome](#) in pediatric patients with sickle cell disease. J Neurosurg Pediatr. 2015 Jul;16(1):64-73. doi: 10.3171/2014.12.PEDS14522. Epub 2015 Apr 3. PubMed PMID: 25837886.

²⁾

Ross IB, Shevell MI, Montes JL, Rosenblatt B, Watters GV, Farmer JP, O'Gorman AM. Encephaloduroarteriosynangiosis (EDAS) for the treatment of childhood moyamoya disease. Pediatr Neurol. 1994 May;10(3):199-204. PubMed PMID: 8060421.

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