

Cisternostomy for malignant middle cerebral artery territory infarction

Cardali et al. propose a novel treatment for these patients characterised by surgical fenestration of the cisterns of the skull base.

Methods: We have treated 16 patients affected by malignant middle cerebral artery ischaemia and treated with cisternostomy between August 2018 and December 2019. The clinical history, neurological examination findings and neuroradiological studies (brain CT, CT angiography, MRI) were performed to diagnose stroke. Clinical examination was recorded on admission and preoperatively using the Glasgow Coma Scale and the National Institutes of Health Stroke Scale.

Results: The study included 16 patients, 10 males and 6 females. The mean age at surgery was 60.1 years (range 19-73). Surgical procedure was performed in all patients. The patients underwent immediate postoperative CT scan and were in the early hours evaluated in sedation window. In total, we recorded two deaths (12.5%). A functional outcome between mRS 0-3, defined as favourable, was observed in 9 (64.2%) patients 9 months after discharge. A functional outcome between mRS 4-6, defined as poor, was observed in 5 (35.7%) patients 9 months after discharge.

Conclusions: The obtained clinical results appear, however, substantially overlapping to decompressive craniectomy. Cisternostomy results in a favourable functional outcome after 9 months. This proposed technique permits that the patient no longer should be undergone cranioplasty thus avoiding the possible complications related to this procedure. The results are certainly interesting but higher case numbers are needed to reach definitive conclusions ¹⁾

¹⁾

Cardali SM, Caffo M, Caruso G, Scalia G, Gorgoglione N, Conti A, Vinci SL, Barresi V, Granata F, Ricciardo G, Garufi G, Raffa G, Germanò A. Cisternostomy for malignant middle cerebral artery infarction: proposed pathophysiological mechanisms and preliminary results. *Stroke Vasc Neurol*. 2022 Dec;7(6):476-481. doi: 10.1136/svn-2021-000918. Epub 2022 Jun 7. PMID: 35672081; PMCID: PMC9811554.

From:

<https://neurosurgerywiki.com/wiki/> - Neurosurgery Wiki

Permanent link:

https://neurosurgerywiki.com/wiki/doku.php?id=cisternostomy_for_malignant_middle_cerebral_artery_territory_infarction

Last update: 2024/06/07 02:56

