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Microsurgical outcome of brain arteriovenous malformations: Our experience

Gagan Dhall

Lokmanya Tilak Municipal Medical College, India

Objective: We describe our experience treating brain arteriovenous malformations (BAVMs) with microsurgical treatment.

Methods: During 7-years period, 64 patients with BAVMs were surgically treated. Patients clinical presentation, imaging features, postsurgical complications, arteriovenous malformation obliteration rate, and functional outcome were collected and analyzed. Patient's functional outcome was assessed with modified Rankin Scale score.

Results: Complete obliteration was achieved in 98.3% of cases. Surgical morbidity rate was 3.2%, and mortality rate was 1.1%. Good functional outcome (modified Rankin Scale score 0-2) was achieved in 94%. Poor outcome was significantly associated with arteriovenous malformation size ≥ 6 cm, deep venous drainage, eloquent location

Conclusions: Good functional outcome can be achieved by microsurgical resection in S-M grade I and II and selected grade III BAVMs. Surgical resection for high-grade is challenging.

Biography

Gagan Dhall has completed his Masters in General surgery at the age of 28 years from Maharashtra University of Health Sciences, India and is currently pursuing superspecialisation in Neurosurgery from one of the country's most prestigious and biggest trauma center L.T.M. Medical College and Sion General Hospital, Mumbai. His areas of interest are Neuro-intervention and Role of Stem cell therapy in Neuro - rehabilitation.

drgagandhall@gmail.com

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