

Cerebral arteriovenous malformation complications

Rupture

[Cerebral arteriovenous malformation rupture](#)

Recurrence

see [Cerebral arteriovenous malformation recurrence](#).

[Hydrocephalus](#)

Complication-Effectiveness Analysis

Seven hundred seventy-nine patients underwent 641 microsurgical resections. Complications of surgery leading to a modified Rankin Scale >1 at 12 months occurred in 1.4% (95% confidence interval [CI]: 0.5-3.3), 20% (95% CI: 15-26), and 41% (95% CI: 30-52) of Spetzler-Ponce class A, SPC B, and SPC C, respectively. The cumulative 9-year freedom from recurrence was 97% for SPC A and 92% for other cAVMs. The 9-year CEA risk was 1.4% (credible range: 0.5%-3.4%) for SPC A, 22% to 24% (credible range: 16%-31%) for SPC B, and 45% to 63% (credible range: 33%-73%) for SPC C bAVM.

CEA presents the treatment outcome in the context of efficacy and provides a basis for comparing outcomes from techniques with different times to elimination of the bAVM ¹⁾.

¹⁾

Morgan MK, Wiedmann M, Assaad NN, Heller GZ. Complication-Effectiveness Analysis for Brain Arteriovenous Malformation Surgery: A Prospective Cohort Study. Neurosurgery. 2015 Nov 24. [Epub ahead of print] PubMed PMID: 26606671.

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