Intracranial aneurysm morphology

Saccular intracranial aneurysm

Complex intracranial aneurysm

Wide-neck intracranial aneurysm

Size

see Intracranial aneurysm size.

Shape

Certain shape parameters show stronger correlation with rupture than IA size. Aspect ratio (AR), defined as IA height divided by neck diameter, is the most commonly studied shape parameter. Although most findings affirm its importance, they do not converge on a common threshold value [1) 2) 3) 4) 5)].

Calcification

Multilobulation

Presence of a daughter sac

Presence of a small basal outpouching (SBO).

It is important to realize that IA hemodynamics are strongly dependent on the geometry of the aneurysmal sac and its feeding vessel [6) 7) 8)].

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