Benefits of early aneurysm surgery: Southern Iran experience.


Shiraz Neuroscience Research Center, Department of Neurosurgery, Shiraz University of Medical Sciences, Nemazee Hospital, Shiraz, Iran.

Abstract

BACKGROUND: Neurovascular surgery has been practiced in Shiraz, the main referral center of the Southern Iran, for over 30 years; however, the trend has accelerated tremendously in recent years following subspecialization of neurovascular surgery in Shiraz, Department of Neurosurgery. Over 100 patients are operated each year, and nearly all are addressed during the first 72 hours after presentation.

METHODS: In this paper, we focus on the description of techniques we apply for early clipping of ruptured intracranial aneurysms in the anterior circulation. Improvements in outcome, mortality, and rebleeding rates are also discussed.

RESULTS: Mortality and rebleeding rates have declined significantly since the institution of new techniques.

CONCLUSION: The establishment of early surgery for ruptured anterior circulation aneurysms through the lateral supraorbital approach along with specific anesthetic protocol has resulted in significant improvement of morbidity, mortality, and rebleeding rates at our department.

KEYWORDS: Anterior circulation, early surgery, ruptured aneurysm, techniques