

# HEAD AND NECK CONFERENCE: THE MULTIDISCIPLINARY APPROACH

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## Multi-modality management of complex brain arteriovenous malformations

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**Aim:** To report our experience in the treatment of complex brain arteriovenous malformations.

**Patients & Methods:** From November 2010 to August 2017, 22 patients with brain arteriovenous malformations were treated endovascularly. They were 9 men and 13 women with a mean age of 32 years. A total of 34 endovascular procedures were performed with Onyx or Squid embolic agent.

**Results:** The course of endovascular treatment was completed in 18 patients. In 8 patients, an angiographic cure was achieved using embolization as the sole therapeutic technique. 6 patients underwent radiosurgical treatment after nidus size reduction <2 cm was accomplished by endovascular treatment. Four cases underwent surgery after embolization. Further endovascular treatment was planned in four patients, procedure-related transient neurologic deficits were observed in one patient, experienced mild transient hemiparesis resolved soon after treatment. There were no procedure related permanent morbidity or deaths.

**Conclusion:** Liquid embolic material allows obtaining higher rates of anatomic cures compared with those obtained previously with other embolic agents in the treatment of brain arteriovenous malformations.

## Biography

Aziz Waseem was a Consultant of Neurosurgery & Neuro-endovascular surgery in Alexandria main university hospital, Mostafa Kamel hospital for Armed Forces, Alexandria police hospital, Shark El Madina public hospital, and Gamal Abdelnaser insurance hospital. At present he works at Department of Neurosurgery & Neuro-endovascular surgery at Tawam hospital, Al Ain, UAE.

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