

## **Surgical Treatment Of AVM´s Without Endovascular Treatment**

**Edgardo Spagnuolo**

*Prof and Chairman of Neurosurgical Department, Maciel Hospital, School of  
Medicine,  
Montevideo, Uruguay*

The author present the personal experience in the surgery of AVM´s without previous endovascular treatment. Those AVM´s, grade I to III were treated in the last 20 year. The number of AVM´s was 375. AVM´s without endovascular treatment are soft and better to manipulate.

During the surgery, the surgeon is able to move the nidus and can show how the AVM is changing its color, the veins change from the red to dark blue. This is a good signal of the arterial supplies are disappearing.

In all the cases an angiography was made immediately after the surgery. If the nidus was totally eliminated, the patient is cured, and we don´t need another vascular control.

During the presentation, the author show videos and photos of different AVM´s with different complexity.

The mortality and the morbidity was very low.

Key Words: Arteriovenous malformations . Surgery