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Results of Proactive Surgical Clipping in Poor Grade Aneurysmal Subarachnoid Hemorrhage: Pattern of Recovery and Predictors of Outcome

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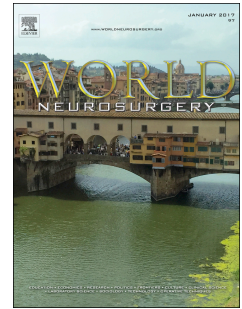
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1 **Original article**

2

3 **Title:** Results of proactive surgical clipping in poor grade aneurysmal subarachnoid hemorrhage:  
4 Pattern of recovery and predictors of outcome

5

6 **Abstract:**

7 **Background:** The outcome associated with the treatment of poor grade aneurysmal  
8 subarachnoid hemorrhage (p SAH) is rather discouraging. Even then, some patients may survive,  
9 the long term outcomes and the patterns of recovery of these survivors, however, has not  
10 received much attention in the literature.

11

12 **Methods:** 85 patients (mean age 53.3 years, M: F= 34:51, 98 aneurysms) with post resuscitation  
13 Hunt and Hess grades 4 and 5 subarachnoid hemorrhage were studied. Modified Rankin Scale  
14 score was used to determine the functional outcome. Different factors were analyzed using uni  
15 and multivariate models for their effect on the functional outcomes after surgery.

16

17 **Results:** 23 patients died in the 30-day perioperative period while eight patients died at follow-  
18 up (n=31, 36.5%). Nearly 35% and 51% of the survivors obtained favorable short and long term  
19 functional outcomes respectively. The presence of a space occupying hematoma (p=.014) and the  
20 functional status at discharge significantly affected the long-term functionality (p=.004) in our  
21 patients. The functional improvement was steady with time (the probability of good outcome at  
22 about 2 months of discharge was around 65%, about 55% at 1 year and 40% at 2 years and then  
23 achieved a plateau). Marked improvement occurred in 11% survivors even after 18 months.

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