

ENDOVASCULAR COILING EMBOLIZATION OF CEREBRAL ANEURYSMS: A CASE SERIES STUDY

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Introduction

Cerebral aneurysm rupture accounts for 80% of nontraumatic SAH and has a high rate of complications and death. Endovascular coiling embolization of the aneurysm is a basic method for aneurysm exclusion from circulation to prevent a repeated rupture.

Purpose

The main purpose of this presentation is to share the results of a series of cases that underwent aneurysm coiling for aneurysmal SAH.

Material and methods

The study represents a series of patients who underwent aneurysm coiling for the treatment of SAH. Before intervention the patients were assessed based on different scales. Outcome criteria were assessed at 3 and 6 months.



Fig.1 Preoperative and postoperative images showing complete occlusion of the aneurysm

Results

All the patients were initially evaluated with an angiographic study (CT angio or angiography) for planning the intervention. Coiling and balloon-assisted coiling were procedures used in the majority of cases. The majority of cases were successfully and the patients were discharged in a mRS score below 3.

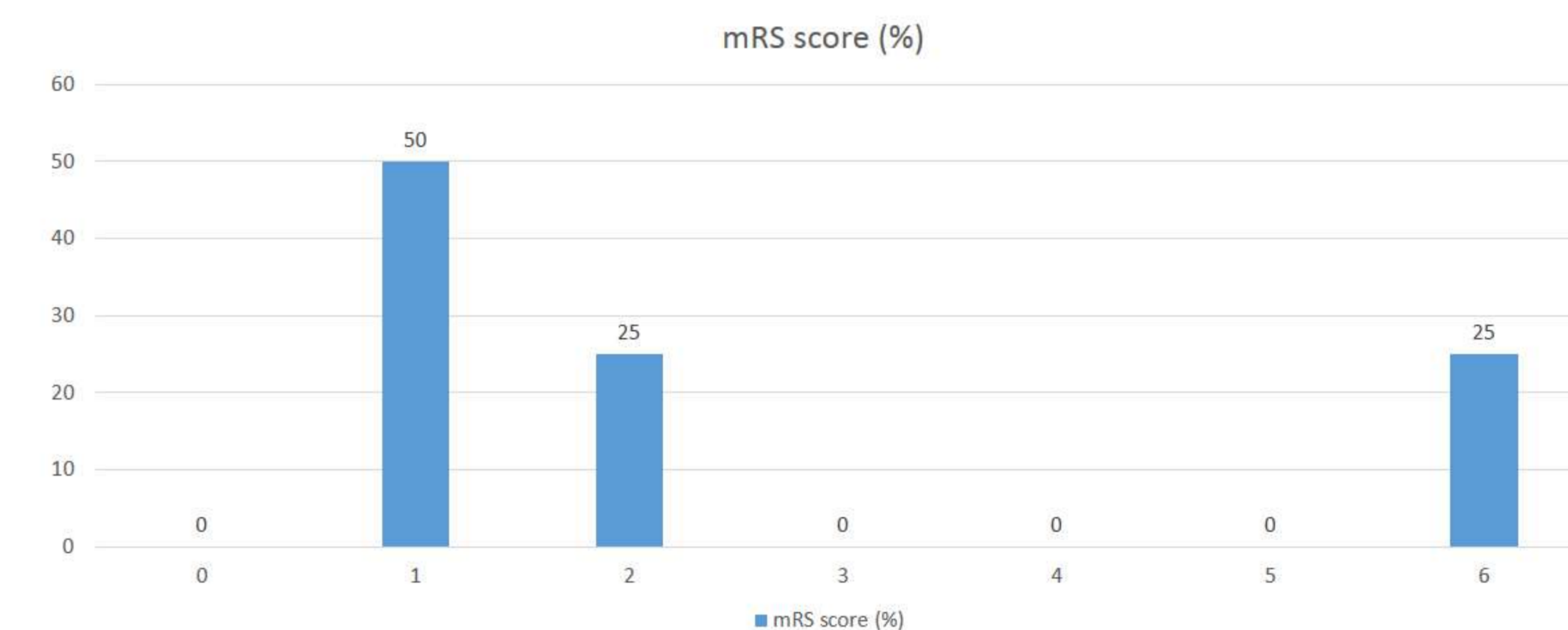


Fig.2 3-month follow up chart showing overall good results.

Conclusions

Considering minimal invasiveness of endovascular coiling of an brain aneurysm for a patient, than neurosurgical clipping, we conclude that implementation of this technique will improve the quality of patient care and improve clinical results.

Keywords

SAH, aneurysm, coiling