

## Session 6: Tough or Interesting Case Discussion

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**Background:** We report a case of a rare CSF rhinorrhea after endovascular treatment of an intracranial aneurysm.

**Case presentation:** A 66-year-old female patient presented to our facility with a right paraclinoid segment ICA aneurysm. The patient did not have any other medical history. Initial angiography showed an aneurysm on the medial wall of the right paraclinoid segment ICA with a daughter sac directed inferiorly. The daughter sac was not suspected to be inside the sphenoid sinus at that time. The patient underwent balloon-assisted coil embolization. Coils were tightly packed inside the larger part of the aneurysm but not inside the daughter sac. Post-coiling angiography showed no filling in the aneurysm or daughter sac. The patient was followed up with MRA at outpatient visits and showed no recurrence or recanalization. However, 6 years after treatment, the patient came to our emergency department with CSF leakage from the nose. Further evaluation showed CSF leakage from the sphenoid sinus. Repair of the sphenoid sinus wall was performed. During the repair, there was a corridor on the wall of the sphenoid sinus with a view of the coils.

**Conclusion:** This case illustrates the potential for rare and unexpected complications following endovascular treatment of intracranial aneurysms. Further research is needed to understand the underlying mechanisms and to develop strategies for preventing such complications.