Routine Headache Leads to Diagnosis & Treatment of Unruptured Aneurysm

**Patient Presentation**

- 68 year old woman with no vascular risk factors and history of headaches which had changed in nature was referred by her primary doctor for parenchymal and vascular imaging of the brain. Imaging revealed an unruptured aneurysm of the right MCA.

**Evaluation and Imaging**

- CTA of the brain demonstrated an MCA bifurcation aneurysm in the right hemisphere, which had previously ruptured measuring approximately 7.50 mm x 5.37 mm in size.
- This represented an incidental finding unrelated to her headache presentation.

**Intervention Performed**

- The decision for treatment was based on her relatively young age, size of the aneurysm as well as specifically—shape of the aneurysm containing multiple blebs which were seen and forebode a likely increased risk of rupture.
INTERVENTIONAL NEURORADIOLOGY

TREATMENT

- Given the location of the aneurysm at the MCA bifurcation, attention was focused on embolization without posing a risk for thromboembolic complications to the nearing MCA branches. The coil embolization was performed with stent assistance using LVIS-Jr stent. The patient had been placed on aspirin 325 mg and Plavix 75 mg for the duration of 5 days prior to the procedure.

- Embolization was successful and the final angiogram showed only a small degree of contrast opacification at the aneurysm base.

PATIENT OUTCOME

- The patient tolerated the procedure well and was discharged home the following day.

- Dual antiplatelet therapy will be continued for 3 months, with discontinuation of Plavix to follow and a 6 months follow-up angiogram is planned to assess for aneurysm filling.

Figure 3: LVIS Jr stent delivered and aneurysm coiling initiated through second microcatheter

Figure 4. Stent-assisted coiling

Figure 5. Final embolization result with stent-assisted coiling. A. Before and B. After

Division of Interventional Neuroradiology
David Geffen School of Medicine at UCLA
Ronald Reagan UCLA Medical Center
757 Westwood Plaza, Suite 2129
Los Angeles, CA 90095-7437
www.aneurysm-stroke.com