



Patient with Idiopathic Intracranial Hypertension (IIH)

DIVISION OF INTERVENTIONAL NEURORADIOLOGY
Presents a patient case treated by the team members of the division and physicians and staff of the UCLA Comprehensive Stroke Center

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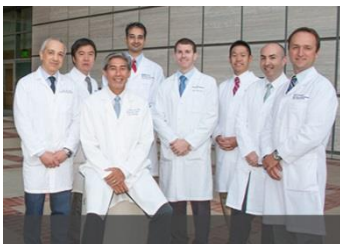
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PATIENT PRESENTATION

- Presentation: headaches, eye pressure, blurred vision and tinnitus, prior LPs had OP of 40 and 25 with some temporary relief of symptoms for two days after large volume CSF removal. On Diamox with only partial relief.

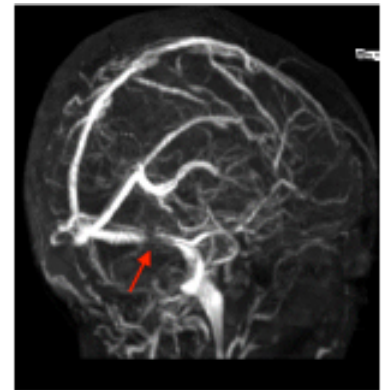


Figure 1: MR Venogram: no left transverse sinus, and stenosis of right transverse sinus (arrow)

EVALUATION AND IMAGING

- Diagnosing and treating IIH is controversial. First line treatment can be Diamox. If this fails, then Optic Nerve sheath fenestration or, if there is an identified stenosis with pressure gradient, then venous stenting can be done.

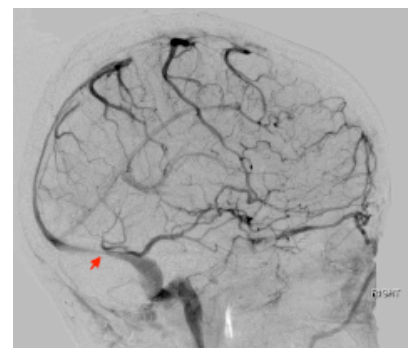


Figure 2: RT transverse sinus with presumed site of stenosis (arrow)

INTERVENTION PERFORMED

- Venous pressure measurements confirmed a 20mm gradient across stenosis site. Therefore a 9mm x 30mm self-expanding stent placed across stenosis. The pressure gradient was eliminated.

(over)



PATIENT OUTCOME

- The patient tolerated the procedure well and was discharged the next day. In order to prevent blood clot forming on the stent, various regimens are used. For this case, the patient was started on pradaxa for 3 months and then converted to aspirin.

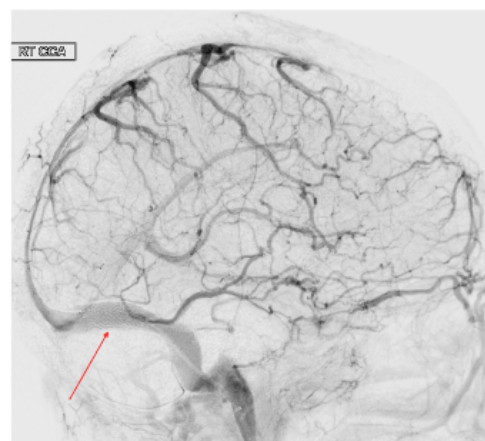


Figure 3: post stent placement (arrow)

Procedures provided by DINR for adult and pediatric patients

Acute Ischemic Stroke
Acute Thrombectomy/Thrombolysis
Extra/Intracranial Angioplasty/Stenting

Brain Hemorrhage, Aneurysm/AVM/fistulae
Aneurysm coiling
Stent/balloon assisted aneurysm coiling
Flow diverter stent device embolization
AVM/Dural fistulae embolization
Venous Sinus Thrombectomy/Thrombolysis
Direct transcatheter embolization

Chronic Occlusive Cerebrovascular Disease
Extra/Intracranial Angioplasty/Stenting
Venous Sinus Angioplasty/Stenting

Head/neck/orbit tumors & vascular malformations, epistaxis
Endovascular embolization
Direct percutaneous embolization

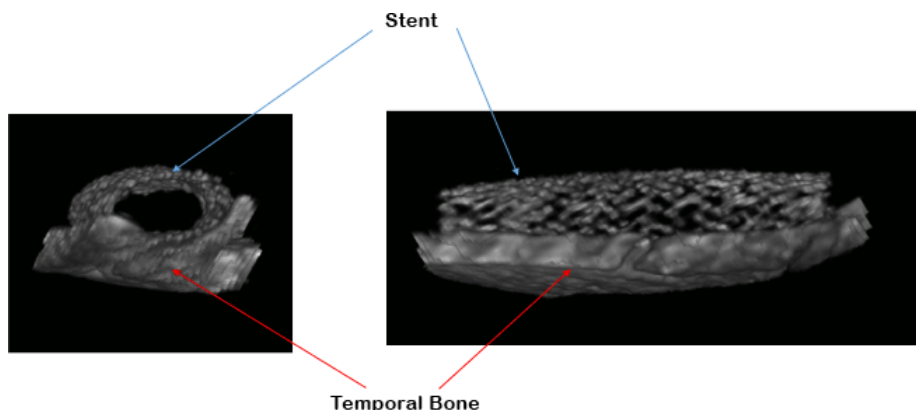


Figure 4: 3D reconstruction of stent in place. A. "down the barrel view. B. transverse view

Division of Interventional Neuroradiology – A Leader in Neurovascular Care and Research

- Invented the Merci retriever – the 1st endovascular device for acute stroke therapy
- Invented GDC and Matrix coils – the leading tool for aneurysm treatment around the world
- Developed Onyx liquid embolic material – the leading therapy for brain vascular malformations

