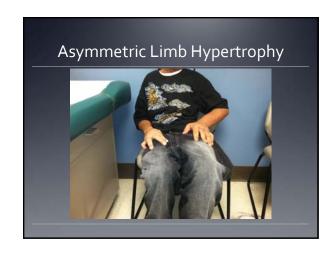
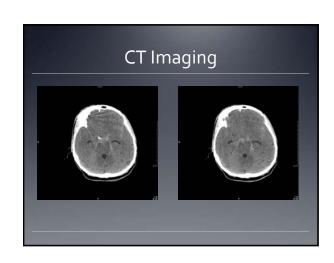
Open Surgical Management of a Ruptured Intracranial Aneurysm in an Adult Patient with Klippel-Trenaunay-Weber Syndrome NailWoodall, M.D., Scott Rathmi, M.D. Georgia Health Sciences University

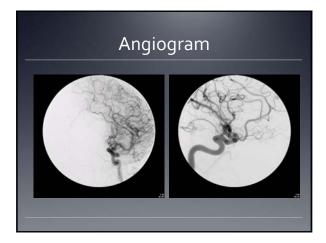
Introduction Klippel-Trenaunay-Weber (KTW) Syndrome first described in 1900 Cutaneous capillary malformations, venous malformations, asymmetric limb hypertrophy, arteriovenous fistula Etiology unknown, but mesodermal disturbance suspected Few cases of intracranial aneurysms previously reported in the literature

Case Presentation • 24 y/o male s/p fall • Hunt-Hess 2 – Severe HA and Nuchal Rigidity • Fisher 3 – Stellate SAH in basal cisterns w/o IVH • PMHx – KTW; patient with asymmetric limb hypertrophy, cutaneous telangectasia, and visceral AVM • History otherwise non-contributory • Work-up revealed left opthalmic and anterior choroidal artery aneurysms









Clinical Course

- PBD 1: Taken to angio, then OR for clipping
- Post –op R hemiparesis(3/5); MRI evidence of L AChorA ischemia attributed to intraoperative vasospasm
- PBD 6: R hemiplegia, taken to angio for IA verapamil for severe L MCA vasospasm
- PBD 16: Vasospasm resolved
- PBD 19: Patient develops GI bleed, GI consult obtained
- PBD 24: Patient discharged to inpatient rehab in good condition (4/5 right hemiparesis)

Associated Complications

- Chronic Coagulopathy, particularly after trauma
- Increased DVT/PE risk
- Risk of GI bleeding from associated vascular malformations
- Distal thromboembolic events from intracranial aneurysm

Prior Cases

- 7 prior reports of intracranial aneurysms in KTW
- 1/7 treated with clipping (8 y/o M)
- One prior case report of AVF clip ligation in a 12 week old with KTW

Conclusions

- Open surgical management is a viable option for cerebral vascular lesions in KTW patients – our patient has made a full recovery
- KTW patients are at high risk for DVT/PE and should be treated as such
- Understanding of disorders such as KTW may shed light on pathogenesis of cerebrovascular lesions

References

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 Neurosurgery 2010;66:E1027-1028; discussion E1028.

Thank You