Abstract Title: Case Report – Capillary Hemangioma

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Abstract (not more than 300 words)

This is a case report on pediatric capillary hemangioma on a 4 year-old Caucasian female. She was born full term without complications and have no developmental concerns. Mom reports history of soft mass lesion on the lateral portion of left upper eyelid. MRI shows extraconal capillary hemangioma of the left anterior orbit along the frontal zygomatic suture area with a mild proptosis. The lesion does not extend posteriorly into foramina. Her uncorrected visual acuity is 20/20 OD and OS. She has equal Brucker and 20 arc seconds stereopsis. Cover test shows ortho position both distance and near and induced tropia test is negative. Ocular health is unremarkable other than asymmetrical optic nerve cupping of 0.2 OD and 0.4 OS. Cycloplegic refraction shows OD +2.00+0.25x090 and OS +2.00 DS. External exam shows elevated mass on left upper lid with slight blue discoloration (external photography taken).

Differential diagnosis includes but is not limited to dermoid cyst, rhabdomyosarcoma, lymphangioma, neuroblastoma, lacrimal gland tumor. Epidemiology studies show capillary hemangioma is the most common benign vascular tumor in children, forming 10% of all pediatric orbital tumors. This condition is 3 times more likely in females. Management depends on how much capillary hemangioma is affecting vision and ocular health. Treatment options includes observation, amblyopia management, intralesional corticosteroid injection, systemic corticosteroids, surgical excision, radiotherapy and systemic propranolol. Potential ocular complications include changes in refractive error with concern of high astigmatism and anisometropia, deprivational amblyopia, strabismus, ocular motility restrictions, exposure keratopathy, and optic nerve compression. This patient does not show signs of amblyopia, strabismus or ocular motility restrictions. MRI shows no concern of optic nerve compression. No intervention is required, she will be monitored yearly with comprehensive exams. More detailed functional vision will be assessed next year before she starts school.

Keywords—*case report, paediatrics, capillary hemangioma*

Figure 1. Axial MRI scans

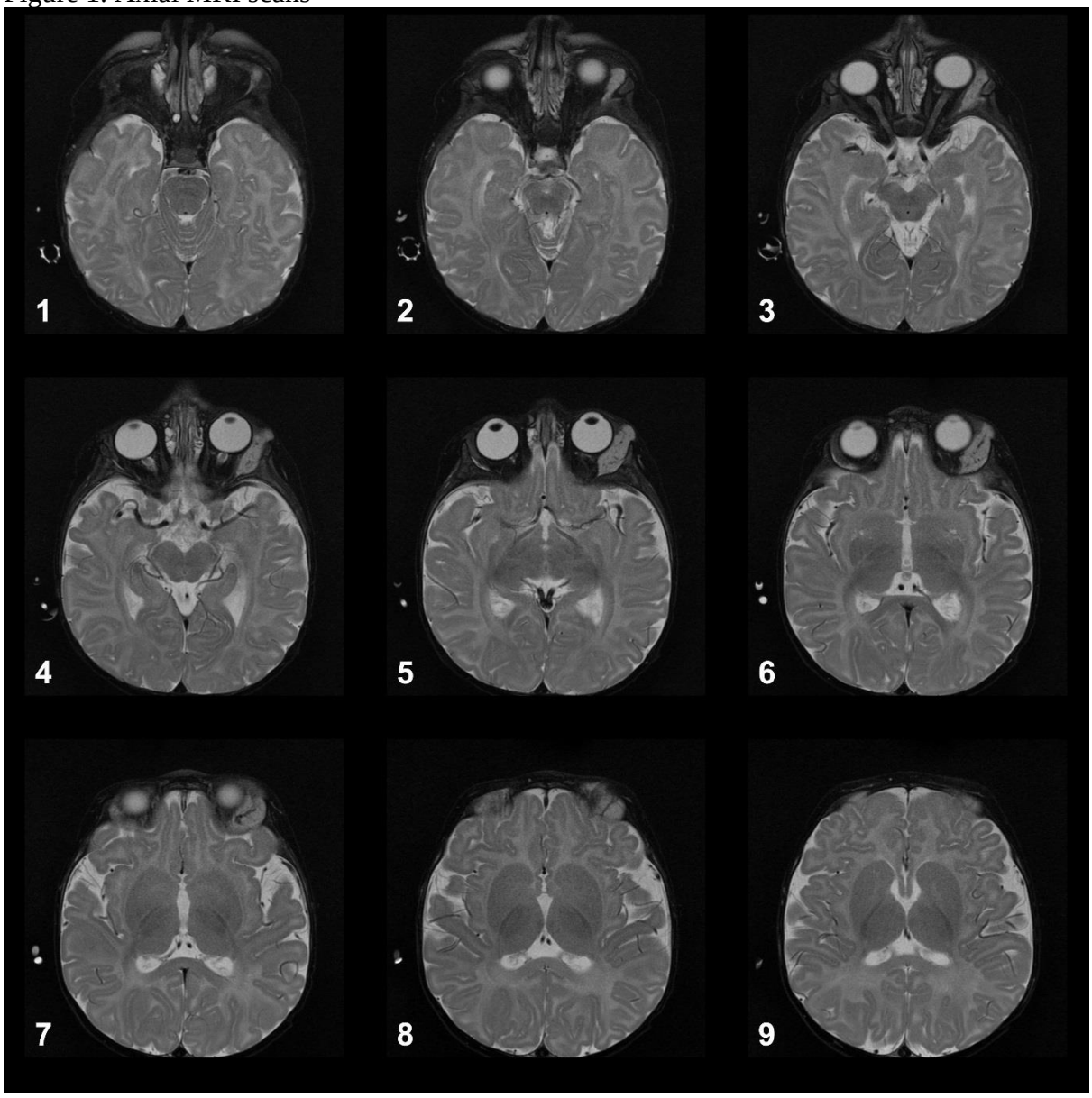
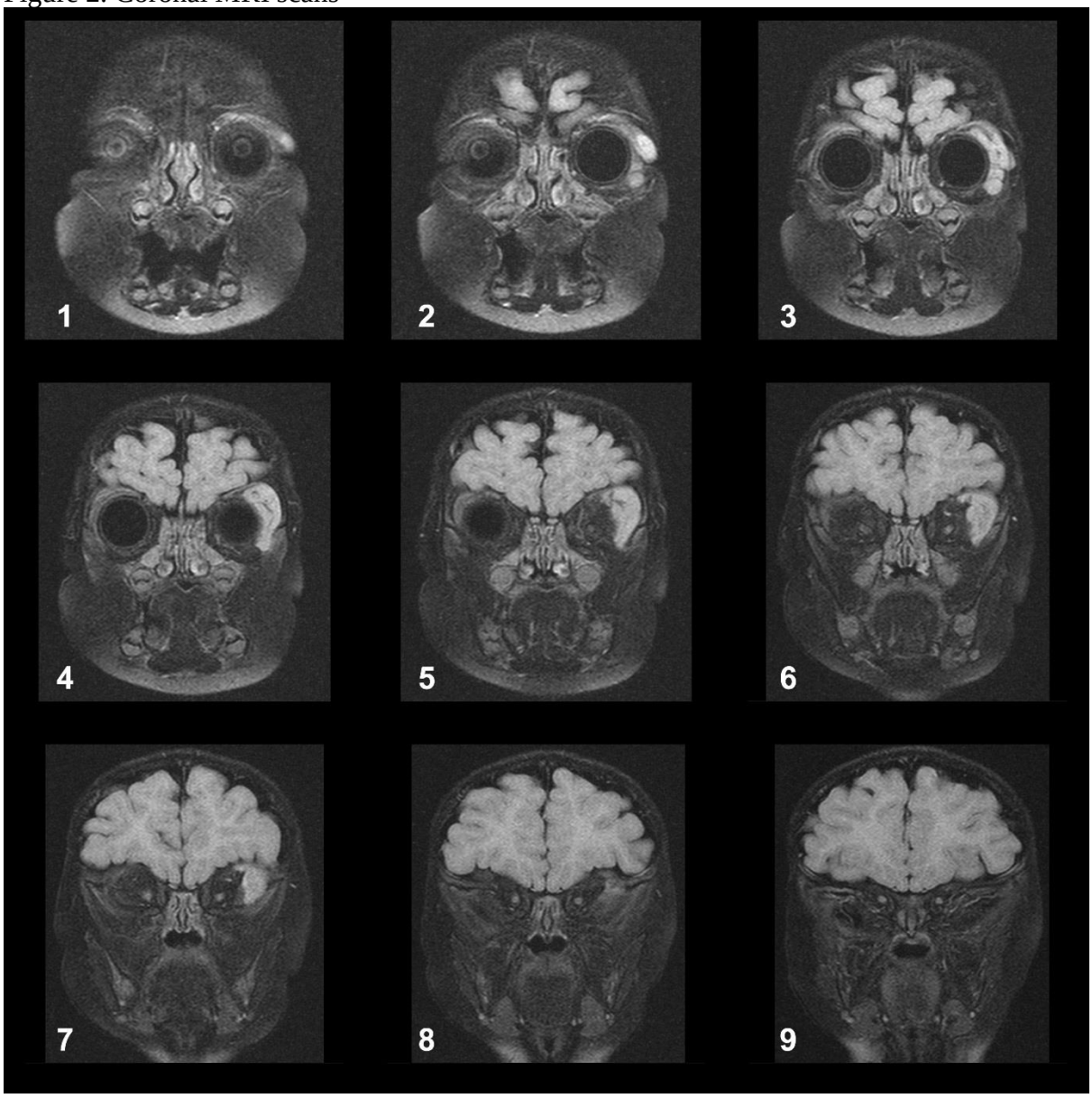
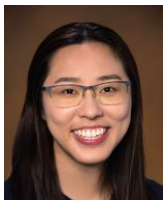


Figure 2. Coronal MRI scans



Professional Biography (100-150 words)

Cathy has completed her Master of Education and Doctor of Optometry at the age of 25 from Pacific University College of Optometry. She is currently completing her residency in ocular disease and neuro-rehabilitation at Gundersen Health System in Wisconsin, USA.



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Any Comments: