

## Barrow Neurological Institute Hypothalamic Hamartoma Center MRI Protocol

### Pre-operative studies

- 1) 3D T1 SPGR, axial 1mm isotropic voxels
- 2) Sag T1 – min TE; 3mm slice, 0.5mm gap; FOV 20cm
- 3) Sag T2(FSE) – 2mm slice no gap; FOV 20cm
- 4) Cor T2(FSE) – 2mm slice no gap; FOV 16cm
- 5) Cor T1 – 3D SPGR; 2mm slice; FOV 24cm – recon for axial
- 6) Axial T2(FSE) – routine brain

Contrast may be necessary for first evaluation to exclude other lesions  
Sagittal and Coronal T2 are critical sequences. Need whole brain cortical evaluation  
to exclude other cause for seizure activity for initial diagnosis.

### Follow-Up MRI Protocol

Routine brain MRI using high resolution sagittal & coronal T2 thin slices without  
contrast

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USN&WR Ranks Barrow in the TOP 10 for Neuroscience