

# Brain MRI--Pituitary

- Whole brain:
  - Sagittal and axial T1 (or T1 MPRAGE)
  - Axial DWI/ADC
  - Axial FLAIR
  - Axial T2
  - Axial SWI or GRE
  - Pituitary cuts (3 mm):
    - T2 coronal
    - T1 coronal
    - T1 sagittal
- Post-contrast:
  - Pituitary
    - Dynamic coronal (not needed on postoperative follow-ups or on macroadenomas, only for non-operated microadenomas)
    - Coronal T1 FS
    - Sagittal T1 FS
  - Whole-brain
    - Axial T1
  - If dynamics cannot be performed, then replace with coronal and sagittal T1 FS after 15 minute delay
- On stable follow-up studies that have not had significant brain abnormalities in the past, can eliminate the precontrast whole-brain T1, axial T2, and SWI/GRE (check with radiologist first)