

Pituitary W+WO IV CONTRAST Protocol

Scan notes:

For neonates (<2 years old), please use the 2D T1 sagittal and axial sequences and axial GRE. (The 3D sequences are more susceptible to motion artifact.)

- Dynamic sequence not needed on post-op follow-ups or macroadenomas, only for non-operated microadenomas.
- If dynamic sequence cannot be performed, then replace with coronal and sagittal T1 FS after 15 minute delay.

Revised 08/23/2021

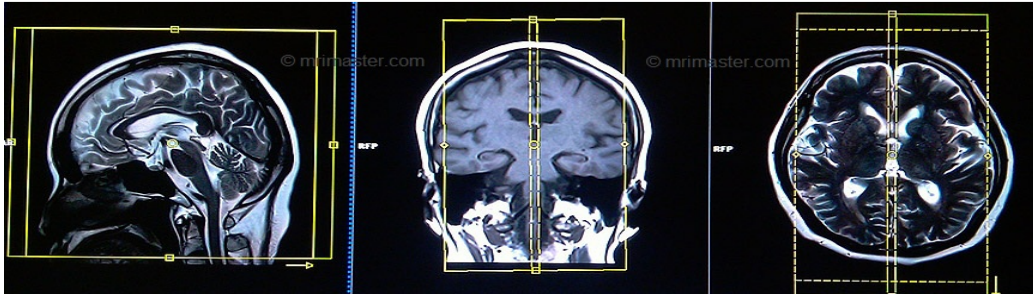
Charge as: Pituitary W+WO IV CONTRAST

Scanner: 1.5T or 3T

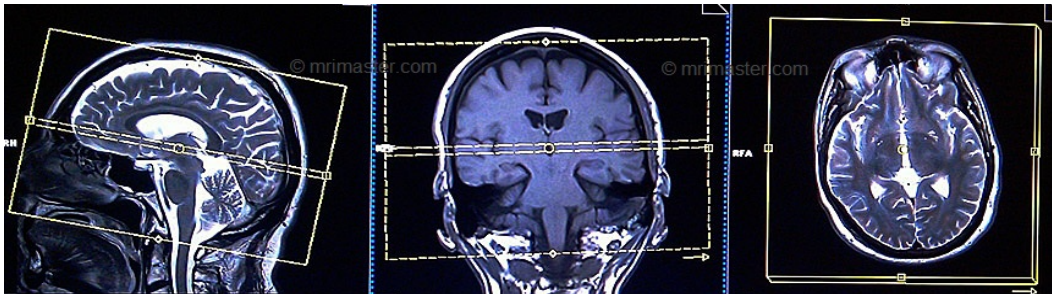
Coil: Head Coil/Flex Coil (flex coil may be needed if anterior head coil cannot clamp)

Plane	Weighting	Slice	Gap	FAT SAT	Scan Range
SAG	T1 MPRAGE 3D	1mm	0.5mm	None	Whole brain/parallel to midline of brain. MUST BE REROMATTED TO AXIAL
AXIAL	Diffusion	4mm	0mm	None	Whole brain/parallel to AC/PC line
AXIAL	T2 Flair	4mm	0mm	Strong	Whole brain/parallel to AC/PC line
AXIAL	T2	4mm	0mm	None	Whole brain/parallel to AC/PC line
AXIAL	T2 SWI	2mm	0.4mm	None	Whole brain/parallel to AC/PC line
COR	T2	3mm	.3mm	None	Whole pituitary gland/perpendicular to sella turcia
COR	T1	3mm	.3mm	None	Whole pituitary gland/perpendicular to sella turcia
SAG	T1	3mm	.3mm	None	Whole pituitary gland/parallel to sella turcia
Inject Contrast					
COR (dynamic)	T2	2mm	.2mm	None	Whole pituitary gland/perpendicular to sella turcia
COR	T1	3mm	.3mm	Strong	Whole pituitary gland/perpendicular to sella turcia
SAG	T1	3mm	.3mm	Strong	Whole pituitary gland/parallel to sella turcia
AXIAL	T1	4mm	0mm	None	Whole brain/parallel to AC/PC line

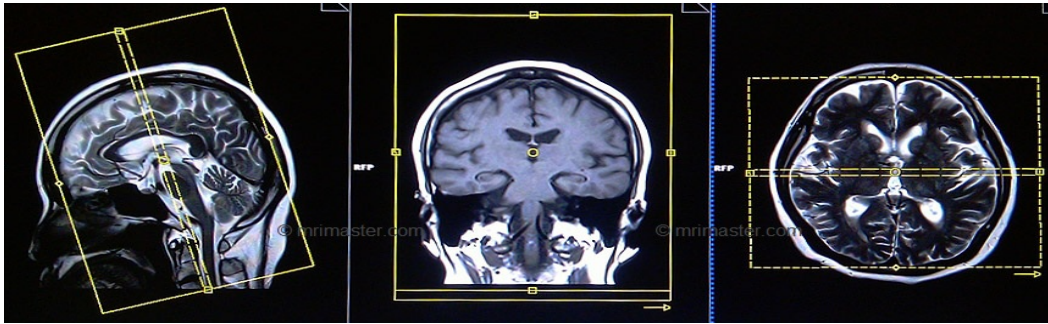
Brain SAG Image Planning:



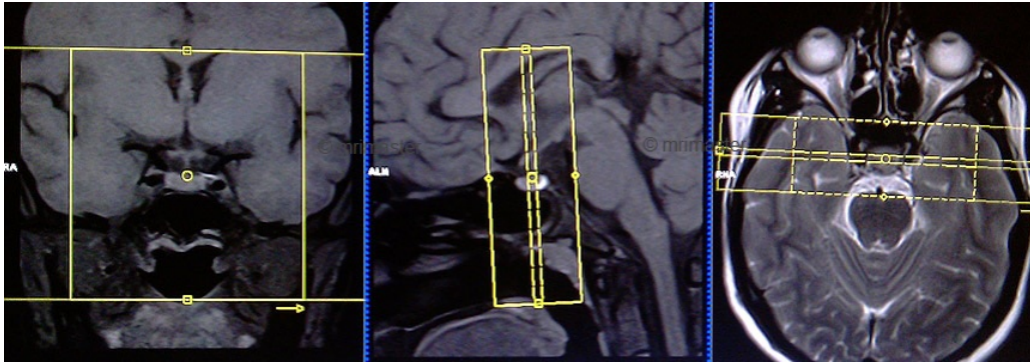
Brain AXIAL Image Planning:



Brain COR Image Planning:



Pituitary COR Image Planning:



Pituitary SAG Image Planning:

