

Sella

Siemens Flash

Application Examples: pituitary tumor	
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Oral Contrast	No
IV Contrast / Volume	120 mL Omnipaque 300
Injection Rate	3.5 mL / sec

Technical Factors

Care Bolus ROI Location / HU	N/A
Monitoring Delay	N/A
Cycle Time	N/A
Scan Delay	30 seconds
Breath Hold	N/A

Scan Type	Spiral
Detector Collimator	Acq 128 x 0.6 mm
X-Care	On
Care kV	Semi / 120 kV
Care Dose 4D	On / 350 mAs
Rotation Time	1.0
Pitch	0.55
Typical CTDIvol	53.64 mGy \pm 50%

Topogram: Lateral and AP, 256 mm

Unenhanced	Recon Type	W / I	Algorithm	Safire	Window	FoV	Series Description	Network	Post Processing
Recon 1	Axial	1 x 1	J40s	2	Base Orbita	100	AXIAL STND UNENHANCED	PACS	None
Recon 2	Axial	1 x 1	J70h	2	BONE	100	AXIAL BONE UNENHANCED	PACS	None
Recon 3	3D:COR	1 x 1	J40s	2	Base Orbita	100	COR UNENHANCED	PACS	Coronal MPR
Recon 4	3D:SAG	1 x 1	J40s	2	Base Orbita	100	SAG UNENHANCED	PACS	Sagittal MPR

30 seconds	Recon Type	W / I	Algorithm	Safire	Window	FoV	Series Description	Network	Post Processing
Recon 1	Axial	1 x 1	J40s	2	Base Orbita	100	AXIAL STND 30 SEC	PACS	None
Recon 2	3D:COR	1 x 1	J40s	2	Base Orbita	100	COR 30 SEC	PACS	Coronal MPR
Recon 3	3D:SAG	1 x 1	J40s	2	Base Orbita	100	SAG 30 SEC	PACS	Sagittal MPR

60 seconds	Recon Type	W / I	Algorithm	Safire	Window	FoV	Series Description	Network	Post Processing
Recon 1	Axial	1 x 1	J40s	2	Base Orbita	100	AXIAL STND 60 SEC	PACS	None
Recon 2	3D:COR	1 x 1	J40s	2	Base Orbita	100	COR 60 SEC	PACS	Coronal MPR
Recon 3	3D:SAG	1 x 1	J40s	2	Base Orbita	100	SAG 60 SEC	PACS	Sagittal MPR

90 seconds	Recon Type	W / I	Algorithm	Safire	Window	FoV	Series Description	Network	Post Processing
Recon 1	Axial	1 x 1	J40s	2	Base Orbita	100	AXIAL STND 90 SEC	PACS	None
Recon 2	3D:COR	1 x 1	J40s	2	Base Orbita	100	COR 90 SEC	PACS	Coronal MPR
Recon 3	3D:SAG	1 x 1	J40s	2	Base Orbita	100	SAG 90 SEC	PACS	Sagittal MPR

Contrast enhanced CT imaging of the sella turcica is typically performed as an alternative study for evaluation of sellar pathology in patients with contraindications for MR imaging. This is a dynamic exam with four total scans.

Patient Position: IOML perpendicular to table and head in a symmetrical position (no rotation or tilt).

Scan Range: Scan from mid sphenoid sinus to above sella, including entire pituitary gland.

Scan Instructions: First series is unenhanced. Second series scan delay is set at 30 seconds. Third series is set to 25 seconds after the completion of second series. Fourth series is set to 25 seconds after completion of third series.

Recons and Reformations: Coronal and sagittal MPRs done in examination card using raw data and reconstructed perpendicular to the sella. Keep FoV consistent at 100.