

MRA HEAD - COW

Indication Intracranial arterial stenosis, occlusion, abnormality

Localizer scout - 3 plane

Plane	Sequence	Fat Sat	SLT / SP	FOV	Notes
Axial	3D TOF		≤1.5 or VOI	20 cm	upper C-1 through upper 3rd ventricle

Plan your volume on sagittal scout and check for tilt in coronal plane, adjust as needed
Sat band superior to volume to avoid venous contamination

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Send source images

Make sure MIP 'slices' are thin minimum 18 projections, 10 degree angle
Name each MIP

Post processing Head

MIP in R to L rotation and cranio-caudal "tumble" rotation

1. Right ICA, A1-2, M1-2
2. Left ICA A1-2, M1-2
3. Vertebrobasilar, PICA, and P1 & P2 posterior cerebral arteries

S/P Coiling - follow up for clipped or coiled aneurysm

Localizer scout - 3 plane

Plane	Sequence	Fat Sat	SLT / SP	FOV	Notes
Axial +C	3D TOF		≤1.5 or VOI	20 cm	upper C-1 through upper 3rd ventricle

Same recon instructions as above

