### MRA HEAD - COW

**Indication** Intracranial arterial stenosis, occlusion, abnormality

**Localizer** scout - 3 plane

<table>
<thead>
<tr>
<th>Plane</th>
<th>Sequence</th>
<th>Fat Sat</th>
<th>SLT / SP</th>
<th>FOV</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Axial</td>
<td>3D TOF</td>
<td></td>
<td>≤1.5 or VOI</td>
<td>20 cm</td>
<td>upper C-1 through upper 3rd ventricle</td>
</tr>
</tbody>
</table>

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.

Sat band superior to volume to avoid venous contamination.

Send source images.

**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. Verteobasilar, PICA, and P1 & P2 posterior cerebral arteries

Any deviation from protocol MUST be radiologist approved. Rad Director will be notified if this occurs without prior approval.

---

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

**Localizer** scout - 3 plane

<table>
<thead>
<tr>
<th>Plane</th>
<th>Sequence</th>
<th>Fat Sat</th>
<th>SLT / SP</th>
<th>FOV</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Axial +C</td>
<td>3D TOF</td>
<td></td>
<td>≤1.5 or VOI</td>
<td>20 cm</td>
<td>upper C-1 through upper 3rd ventricle</td>
</tr>
</tbody>
</table>

Same recon instructions as above.