

MRA neck w/o and w

- Cover from aortic arch to petrous ridges
 - 2D TOF axial WITH sat band
 - Axial T1FS 5 mm whole neck
 - Flash 3D pre-contrast
 - Bolus timing axial
 - Flash 3D+C 1-3 measurements
 - Inject 1.2-2.0 mL per second
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- Ask patient not to swallow to reduce motion
 - Subtract the phase that has the least venous contamination and best contrast
 - MIP right and left sides separately (post-contrast only)