

# **MRA Head (Circle of Willis)**

Updated 11/15/22

Reviewed 05/14/25

MRA without IV contrast is the preferred exam for COW evaluation (as opposed to without and with). Check with a Radiologist before performing without and with unless the exam was ordered by a Neurologist.

## **WITHOUT ONLY:**

<b>Pulse Sequence</b>	<b>PACS Name</b>	<b>plane</b>	<b>fat sat</b>	<b>slice (mm)</b>	<b>gap (mm)</b>	<b>first slice</b>
3D TOF	3D TOF AX	ax	yes	0.7	0.1	base

## **RECONS:**

horizontal and vertical MIP spinners

## **WITHOUT & WITH:**

<b>Pulse Sequence</b>	<b>PACS Name</b>	<b>plane</b>	<b>fat sat</b>	<b>slice (mm)</b>	<b>gap (mm)</b>	<b>first slice</b>
3D TOF	3D TOF AX	ax	yes	0.7	0.1	base
3D T1	3D T1 PRE SAG	sag	no	1	0.2	left

**CONTRAST** - 2 mL/sec standard dose gadolinium (0.2 mL/kg Clariscan or 0.1 mL/kg Gadavist) followed by 20 mL saline flush.

3D T1	3D T1 POST SAG	sag	no	1	0.2	left
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## **RECONS:**

sagittal subtractions

horizontal and vertical MIP spinners of both the TOF and post contrast sequences