

MRI Shoulder

Updated 06/15/17

Reviewed 05/14/25

For an order for without and with IV imaging, please confirm that the exam is not for tumor or arthrogram before proceeding with this protocol.

Use field-of-view (FOV) and angulations as in the images below.

Go to MRIMaster.com for a guide of proper positioning.

Routine Shoulder:

Pulse Sequence	PACS Name	plane	fat sat	slice (mm)	gap (mm)	first slice
T1	T1 AX	ax	no	4	0.5	top
PD	PD FS SAG	sag	yes	4	0.5	lateral
DESS/PD	DESS FS AX / PD FS AX	ax	yes	4	0.5	top
PD	PD COR	cor	no	4	0.5	front
T2	T2 FS COR	cor	yes	4	0.5	front

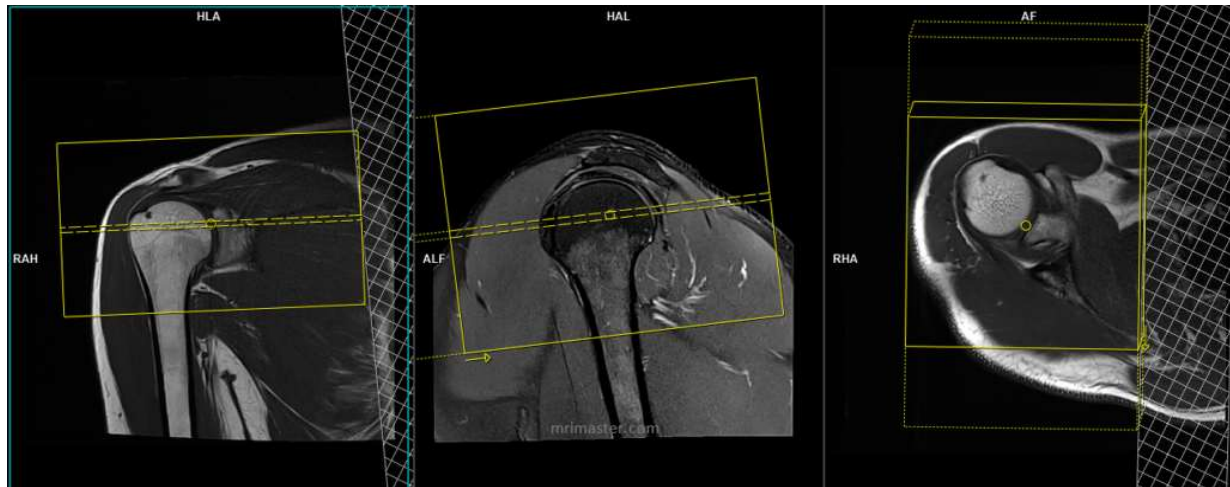
CONTRAST - 2 mL/sec standard dose gadolinium (0.2 mL/kg Clariscan or 0.1 mL/kg Gadavist) followed by 20 mL saline flush.

T1	T1 FS POST AX	ax	yes	4	0.5	top
T1	T1 FS POST COR	cor	yes	4	0.5	front

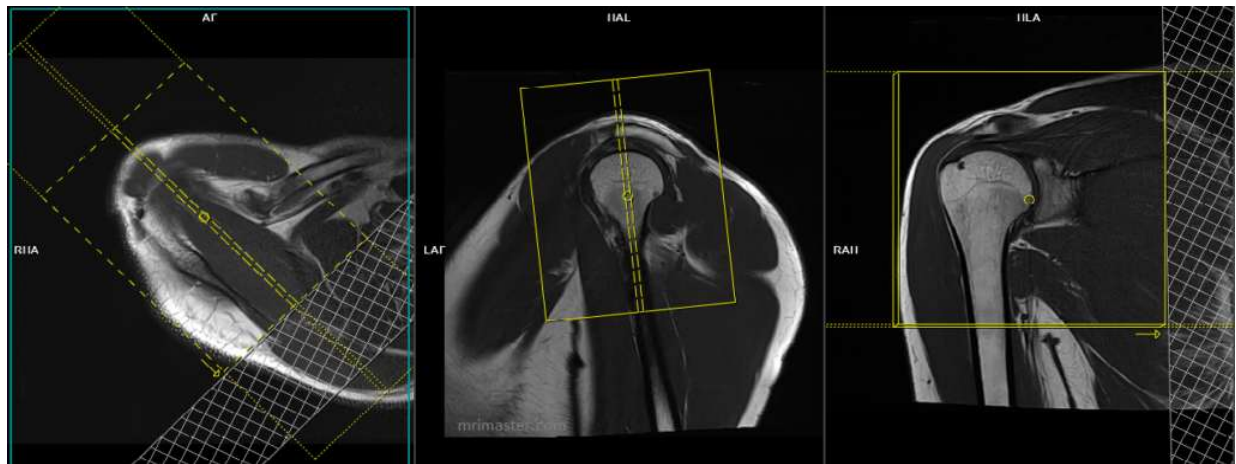
Shoulder Arthrogram:

Pulse Sequence	PACS Name	plane	fat sat	slice (mm)	gap (mm)	first slice
T1	T1 FS AX	ax	yes	4	0.5	top
T1	T1 FS SAG	sag	yes	3	0.3	lateral
T1	T1 FS COR	cor	yes	3	0.3	front
T2	T2 FS COR	cor	yes	3	0.3	front
T1	T1 FS ABER	ax	yes	4	0.5	top

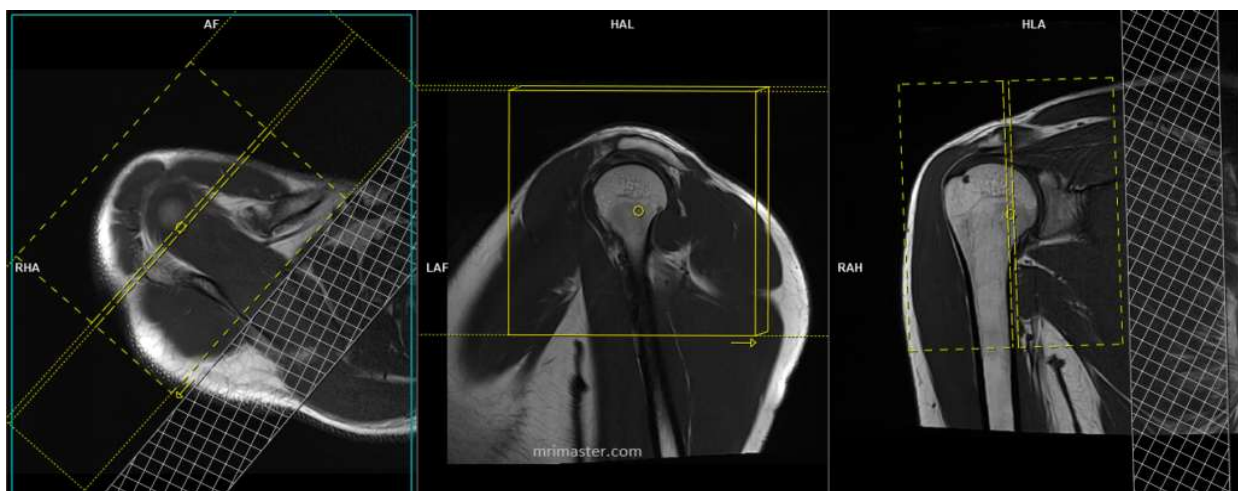
MRI Shoulder



axial FOV and angulation (perpendicular to the glenohumeral joint in the coronal plane)



coronal FOV and angulation (parallel to the supraspinatus tendon in the axial plane)



sagittal FOV and angulation (perpendicular to the supraspinatus tendon in the axial plane)