

MRI Cervical Spine

Updated 03/17/20

Reviewed 05/14/25

Increase bandwidth and use IDEAL sequences if available for MARS protocol.

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

Routine Cervical Spine:

Pulse Sequence	PACS Name	plane	fat sat	slice (mm)	gap (mm)	first slice
T1	T1 SAG	sag	no	3	0.3	left
T2	T2 SAG	sag	no	3	0.3	left
T2	T2 FS SAG	sag	yes	3	0.3	left
T2 GRE	GRE AX	ax	no	4	0.5	top
T2	T2 FS AX	ax	yes	4	0.5	top

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 SAG	sag	yes	3	0.3	left
T1	T1 FS POST AX	ax	yes	4	0.5	top

MARS (Metal Artifact Reduction):

Pulse Sequence	PACS Name	plane	fat sat	slice (mm)	gap (mm)	first slice
T1	T1 SAG	sag	no	3	0.3	left
T2	T2 SAG	sag	no	3	0.3	left
STIR	STIR SAG	sag	no	3	0.3	left
T1	T1 AX	ax	no	4	0.5	top
T2	T2 AX	ax	no	4	0.5	top

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 SAG	sag	yes	3	0.3	left
T1	T1 FS POST AX	ax	yes	4	0.5	top