PROTOCOL: MRI CERVICAL SPINE WWO-ROUTINE

CLINICAL INDICATIONS/ Pain, stenosis, radiculopathy, trauma, disc disease, cord injury, epidural hemtoma, surgery / post-op HISTORY

Hospitals should be using STIR + T2, NOT T2 DIXON fat suppression techniques.

Axial T2 to be angled parallel to discs.

TIPS:

If metal hardware, scan on 1.5T magnet rather than 3T magnet

3D T2 CUBE discouraged since it is not helpful in evaluating cord lesions and causes artifact evaluating neural foramina.

		IMAGE								5115			Max Pixel			Max scan
SCAN ORDER		CONTRAST/	MODE		COVE	PAGE	IR RANGE	IE RANGE	ті		THICKNESS/G	FOV (cm)	(mm) Fr	σμαςε αχίς	SEND TO PACS	time (target)
SCAN ONDER		WEIGHTING	WOBL	TOESE SEQ		NAGL	RANGL	NANGL								
1	SAG	T1	2D	FSE	COVER BONY C	ERVICAL SPINE	<790	MIN	-	>130	3/1	18-20	.9X.9	SI	FULL SERIES	3:00
2	SAG	т2	2D	FSE	COVER BONY CERVICAL SPINE		4000-7000	90-110	-	>130	3/1	18-20	.9X.9	SI	FULL SERIES	3:00
3	SAG	STIR	2D	FSE	COVER BONY CERVICAL SPINE		3000-6000	50-70	150	>130	3/1	18-20	1.0X1.0	SI	FULL SERIES	4:00
4	АХ	T2*	2D	MEDIC/ MERGE	BOTTOM C2	TOP T1	SINGLE ACQ	20-24	-	20-25	3/1	14-16	1.0X1.0	PA	FULL SERIES	5:45
5	АХ	T2	2D	FSE	FORAMEN MAGNUM	TOP T1	4000-7000	90-110	-	>130	3/1	14-16	1.0X1.0	PA	FULL SERIES	4:00
IF CONTRAST ORDER	F CONTRAST ORDERED															
6+C	SAG	T1 DIXON (FS)	2D	FSE	COVER BONY CERVICAL SPINE		<790	MIN		>130	3/1	18-20	.9X1.0	SI	IN-PHASE AND WATER ONLY	4:30
7+C	АХ	T1 DIXON (FS)	3D	VIBE DIXON/ LAVA FLEX	AT LEAST MID C2 THRU MID T1		MIN	IN-PHASE	-	15-25	2/0	14-18	.9X.9	PA	IN-PHASE AND WATER ONLY	4:00
	OPTIONAL SEQUENCES AS NEEDED															
* (IF SCOLIOSIS)	COR	T2	2D	FSE	COVER BONY C	ERVICAL SPINE	4000-7000	90-110	-	>130	4/0	20-22	.8X.8	RL	FULL SERIES	3:00
* (IF TRAUMA)	SAG	T2*	2D	MEDIC/ MERGE		ERVICAL SPINE	SINGLE ACQ	20-24		20-25	3/1	20-22	1.0X1.0	SI	FULL SERIES	4:30
* (IF BONE METS, INFECTION, CORD INFARCT, HEMORRHAGE)	SAG	DWI (6600)	2D	RESOLVE/ FOCUS (EPI IF N/A)		COMPLETELY	>4000	MIN		90	3-4/0	20-26	2.5X2.5	АР	FULL SERIES + ADC MAP	5:00