

# SEQUENCES FOR 1.5T

## CERVICAL SPINE

### ROUTINE SEQUENCES

Plane	Weighting	Pulse Seq	Mode	Slices	Anatomy	TR	TE	TI	Flip Angle	Slice/Gap	FOV	Matrix	Freq axis	NEX	Comments	BW (Hz/Px)	ETL
SAG	T1	T1FLAIR	2D	14	CENTERED ON CORD	1200-2600	20-28	[AUTO]	90	3/1	24	288X288	AP	1-3		120	8
SAG	T2	FSE/FRFSE	2D	14	CENTERED ON CORD	3200+,2800	120;100		90	3/1	24	288X288	AP	2-4		195	20
SAG	STIR	FSE-IR	2D	14	CENTERED ON CORD	3000-4000	55	135	90	4/0	28	384X192	AP	1-3		140	15
AX	T2*	COSMIC	3D		C2-T1	MIN	MIN		45-60	2/1	20	320X320	RL	AUTO		250	1
AX	T2	FRFSE	2D		SKULL BASE T1	7000	120		90	4/0	18	192X192 INTERP	AP	1-3		110	29

### ALTERNATE SEQUENCES

Plane	Weighting	Pulse Seq	Mode	Slices	Anatomy	TR	TE	TI	Flip Angle	Slice/Gap	FOV	Matrix	Freq axis	NEX	Comments	BW (Hz/Px)	ETL
SAG	T1+C	SE	2D	14	CENTERED ON CORD	350-550	MIN		90	3/1	24	288X256	AP	1-3		75	1
AX	T1+C	SE	2D		C1-T1	350-550	MIN		90	4/0	19	192X192 INTERP	AP	1-3		120	1
SAG	T1	FSE	2D	14	CENTERED ON CORD	350-550	MIN		90	3/1	24	288X288	AP	1-3	Hardware	200	4
AX	T2*	GRE/V	2D		C2-T1	MIN	10-20		15	3/1	18	192X192 INTERP	AP	2		60	1
AX	T2*	MERGE	2D		C2-T1	MIN	-20		15-20	3/1	18	192X192 INTERP	AP	2		170	3
SAG	T2*	MPGR	2D		CENTERED ON CORD	750	25		20	3/1	22	255X192	SI	2-4		40	1
SAG	T2	FSE/FRFSE	2D	14	CENTERED ON CORD	5200	112		90	3/1	24	288X288	AP	2-4	Hardware	325	35

### EXTENDED SEQUENCES

Plane	Weighting	Pulse Seq	Mode	Slices	Anatomy	TR	TE	TI	Flip Angle	Slice/Gap	FOV	Matrix	Freq axis	NEX	Comments	BW (Hz/Px)	ETL
SAG	DWI	SE	LS		CENTERED ON CORD	MIN	MIN			3/0	26	256X128	SI	1			

# THORACIC SPINE

## ROUTINE SEQUENCES

Plane	Weighting	Pulse Seq	Mode	Slices	Anatomy	TR	TE	TI	Flip Angle	Slice/Gap	FOV	Matrix	Freq axis	NEX	Comments	BW (Hz/Px)	ETL
SAG	T1	FSE	2D	7	CENTERED ON CORD	<800	MIN		150	5/0	48x24	768x512	SI	1-2	Counting Loc	200	4
SAG	T1	T1FLAIR	2D	14	CENTERED ON CORD	1200-2600	10-20	[AUTO]	150	3/1	32	448X288	AP	2-4		190	8
SAG	T2	FSE/FRFSE	2D	14	CENTERED ON CORD	3200+	120		150	3/1	32	448X320	AP	2-4		150	18
SAG	STIR	FSE-IR	2D	14	CENTERED ON CORD	3000+	55	135	150	4/0	38	448X320	AP	2-4		175	17
AX	T2	FRFSE	2D		C7-L1	4000+	120		150	4-5/1	20	224X224 INTERP	AP	1-3	2 SEPARATE GROUPS	180	14

## ALTERNATE SEQUENCES

Plane	Weighting	Pulse Seq	Mode	Slices	Anatomy	TR	TE	TI	Flip Angle	Slice/Gap	FOV	Matrix	Freq axis	NEX	Comments	BW (Hz/Px)	ETL
SAG	T1	FSE	2D	14	CENTERED ON CORD	2000	MIN		90	3/1	32	448X288	AP	2-4		160	8
COR	T2	FSE/FRFSE	2D		THROUGH VERTEBRAE	4000+	120			5/1	42	512X384	SI	2-3			
SAG	T1+C	FSE-FS	2D	14	CENTERED ON CORD	350-550	MIN		90	3/1	32	448X288	AP	2-4		100	8
AX	T1 +C	FSE	2D		AS NEEDED	350-550	MIN		90	5/0	20	224X192 INTERP	AP	2-3		60	3
SAG	T2*	MPGR	2D		CENTERED ON CORD	750	25		20	3/1	32	256X192	AP	2-4			

## EXTENDED SEQUENCES

Plane	Weighting	Pulse Seq	Mode	Slices	Anatomy	TR	TE	TI	Flip Angle	Slice/Gap	FOV	Matrix	Freq axis	NEX	Comments	BW (Hz/Px)	ETL
SAG	DWI	SE	LS		CENTERED ON CORD	MIN	MIN			3/0	32	256X128	SI	1			

# LUMBAR SPINE

## ROUTINE SEQUENCES

Plane	Weighting	Pulse Seq	Mode	Slices	Anatomy	TR	TE	TI	Flip Angle	Slice/Gap	FOV	Matrix	Freq axis	NEX	Comments	BW (Hz/Px)	ETL
SAG	T1	T1FLAIR	2D	14	CENTERED ON CORD	1200-2600	20-28	[AUTO]	90	4/1	28	320X288	AP	1-3		200	8
SAG	T2	FSE/FRFSE	2D	14	CENTERED ON CORD	3200+	120		90	4/1	28	288X288	AP	2-4		150	24
SAG	STIR	FSE-IR	2D	14	CENTERED ON CORD	4000+	55	135	90	5/0	34	352X224	AP	1-3		110	16
AX	T2	FRFSE	2D		L1-S1	2400+	120		150	4/0-1	15-16	256X224	AP	1-3		90	29

## ALTERNATE SEQUENCES

Plane	Weighting	Pulse Seq	Mode	Slices	Anatomy	TR	TE	TI	Flip Angle	Slice/Gap	FOV	Matrix	Freq axis	NEX	Comments	BW (Hz/Px)	ETL
SAG	T1	FSE		14	CENTERED ON CORD	400-600	MIN			4/1	28	256X320	AP	2-4		100	3
COR	T2	FSE/FRFSE	2D		THROUGH VERTEBRAE	4000+	120			5/1	42	512X384	SI	1-3		160	21
SAG	T1+C	FSE-FS	2D	14	CENTERED ON CORD	350-550	MIN			4/1	28	320X256	AP	1-3		80	3
AX	T1+C	FSE	2D		L1-S1	350-550	MIN			5/0	16	192X160 INTERP	AP	2-4		60	3
SAG	T2	FRFSE	2D	14	CENTERED ON CORD	2500	93			4/1	28	320X256	AP	1-3	Hardware	450	17
AX	T2	FRFSE	2D		THROUGH HARDWARE	2500	95			4/1	20	269x384	AP	1	Hardware	450	21

## EXTENDED SEQUENCES

Plane	Weighting	Pulse Seq	Mode	Slices	Anatomy	TR	TE	TI	Flip Angle	Slice/Gap	FOV	Matrix	Freq axis	NEX	Comments	BW (Hz/Px)	ETL
SAG	DWI	SE	LS		CENTERED ON CORD	MIN	MIN			3/0	32	256X128	SI	1			