

SEQUENCES FOR 3T

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	2000	10	800	150	3/3	22	240x320	AP	1-3		220	8
SAG	T2	FSE/FRFSE	2D	14	CENTERED ON CORD	3500	100		160	3/3	22	288x384	AP	2-4		260	34
SAG	STIR	FSE-IR	2D	14	CENTERED ON CORD	3000-4000	55	180	150	3/3	22	240x320	AP	1-3		252	16
AX	T2*	GRE	3D		C2-T1	570	6		20	3/0.5	18	186X256	RL	2		300	
AX	T2	FSE	2D		SKULL BASE - T1	7000	100		150	3/0.3	16	230X320	AP	1-3		300	32

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-FC	2D	14	CENTERED ON CORD	350-550	MIN			3/1	24	288X256	AP	2-3			
AX	T1 +C	SE-FC	2D		C1-T1	350-550	MIN			4/0	19	192X192 INTERP	AP	2-3			
SAG	T1	FSE	2D	14	CENTERED ON CORD	350-550	MIN		150	3/1	24	288X288	AP	2-4		200	3
AX	T2*	MERGE	2D		C2-T1	MIN	~20		15-20	3/1	18	192X192 INTERP	AP	2			
SAG	T2*	MPGR	2D		CENTERED ON CORD	750	25		20	3/1	22	255X192	SI	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	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]	120	3/1	32	288X384	AP	1-3		250	10
SAG	T2	FSE/FRFSE	2D	14	CENTERED ON CORD	3200+	100		160	3/1	32	307X384	AP	2-4		260	22
SAG	STIR	FSE-IR	2D	14	CENTERED ON CORD	3000+	55	200	135	4/0	38	448X320	AP	2-4		250	18
AX	T2	FRFSE	2D		C7-L1	4000+	100		160	4-5/1	20	224X320	AP	1-3	2 SEPARATE GROUPS	250	20

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	SE/FSE	2D	14	CENTERED ON CORD	350-550	MIN			3/1	32	448X288	AP	2-4			
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			3/1	32	448X288	AP	2-4			
AX	T1 +C	FSE	2D		AS NEEDED	350-550	MIN			5/0	20	224X192 INTERP	AP	2-3			
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	12-20	[AUTO]	130	4/1	28	320X288	AP	1-3		150	8
SAG	T2	FSE/FRFSE	2D	14	CENTERED ON CORD	3200+	100		160	4/1	28	288X288	AP	2-4		260	22
SAG	STIR	FSE-IR	2D	14	CENTERED ON CORD	4000+	55	220	150	5/0	34	352X224	AP	1-3		260	16
AX	T2	FRFSE	2D		L1-S1	2400+	100		150	4/0-1	15-16	256X224	AP	1-3		250	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	MIN	350-550			4/1	28	192X192 INTERP	AP	2			
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			4/1	28	320X256	AP	2-3			
AX	T1+C	FSE	2D		L1-S1	350-550	MIN			5/0	16	192X160 INTERP	AP	2-4			
SAG	T2	FRFSE	2D	14	CENTERED ON CORD	3000	102			4/1	24	320X256	AP	2-4			
AX	T2	FRFSE	2D		THROUGH HARDWARE	4000	102			4/1	18	256X192	AP	2-3			

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			