

PROTOCOL: MRI ORBITS+BRAIN COMBO WWO

CLINICAL

INDICATIONS/ HISTORY: Multiple sclerosis with optic neuritis. Screening exam for combination orbits and brain order

TIPS:

Generate and send fractional anisotropy (FA) map if possible
Always generate and send trace and ADC maps for DTI (which replaces DWI).

SCAN ORDER	PLANE	IMAGE CONTRAST/WEIGHTING	MODE	PULSE SEQ	COVERAGE		TR RANGE	TE RANGE	TI	FLIP ANGLE	THICKNES S/GAP (mm)	FOV (cm)	Max Pixel (mm) Fr x Ph	PHASE AXIS	SEND TO PACS	Max scan time (target)
1	COR	T2 STIR	2D	FSE	PONS	LENS	4000-7000	85-105	-	>130	3/0	14-16	1.0X1.0	RL	IF 3D: AX & SAG, 1 MM	5:00
2	AX	T2 DIXON	2D	FSE	PONS	LENS	4000-7000	85-105	-	>130	3/0	14-16	1.0X1.0	RL	IN + WATER	4:30
3	COR	T1	2D	FSE	ENTIRE	ORBITS	<790	MIN	-	>130	3/0	14-16	1.0X1.0	RL	FULL SERIES	4:00
4	AX	T1	2D	FSE	ENTIRE	ORBITS	<790	MIN	-	>130	3/0	14-16	1.0X1.0	RL	FULL SERIES	4:00
5	SAG	T2FLAIR	3D	CUBE/SPACE/VISTA	ENTIRE HEAD	AND EARS	>5000	~140	VARIES	>130	1/OVLP	24-25	1.0X1.0	PA	FULL SERIES+ AX/COR 1X1 MPR	5:00
6	AX	DWI (b1200) w calculated b2000 if avail	2D	EPI/RESOLVE	FORAMEN MAGNUM	VERTEX	>4000	MIN	-	90	5/.5	24	2.5X2.5	AP	FULL SERIES + ADC MAP	3:00
7	AX	SWI/GRE	3D/2D	GRE/EPI	FORAMEN MAGNUM	VERTEX	VARIES	VARIES	-	10-15	1-2/OVLP or 5/.5	24	1.0X1.0	RL	FULL SERIES	3:50
CONTRAST																
8+C	AX	T1 FS	2D	FSE	COVER ENTIRE ORBITS		<790	MIN	-	>130	3/0	14-16	1.0X1.0	RL	FULL SERIES	5:00
9+C	COR	T1 FS	2D	FSE	COVER FROM PONS TO LENS		<790	MIN	-	>130	3/0	14-16	1.0X1.0	RL	FULL SERIES	4:45
10+C	AX	T1	2D	SE w/ Flow Comp	FORAMEN MAGNUM	VERTEX	<790	MIN FULL	-	90	5/.5	24-25	.9X.9	RL	FULL SERIES	4:00
11+C	SAG	T1	3D	MPRAGE/BRAVO	COVER ENTIRE HEAD INCLUDING EARS		VARIES BY SCANNER				1-1.2/0	24-25	1.0X1.0	PA	FULL SERIES+ AX/COR 1X1 MPR	4:55