

MSK MRI PROTOCOLS

Rev. 07.01.2020

UPPER EXTREMITY			
SHOULDER	SHOULDER POST ARTHROGRAM	BRACHIAL PLEXUS	ELBOW
PD AX FAT SAT 384x384 3.5s0.5 PD COR/OBL FAT SAT 288x244 3s0.5 nex2 STIR COR/OBL 256x192 4s0.5 nex3 T2 COR/OBL 256x256 3s0.5 nex2 T2 SAG/OBL FAT SAT 256x192 3s0.5 nex2 T1 SAG/OBL 256x256 3s0.5 nex1	T1 AX FAT SAT T1 COR/OBL FAT SAT T2 COR/OBL STIR COR/OBL T1 SAG/OBL FAT SAT T1 SAG/OBL ABER AX LOC T1 ABER FAT SAT	T2 FSE COR/OBL FAT SAT* (4skip1) T1 SAG symptomatic side (5skip1) STIR SAG (5skip1) FLOW ACCENTUATION SAG T2 AX (6 skip 1.5) T1 AX (6 skip 1.5) POST CONTRAST (RECOMMENDED) T1 AX Pre with Fat Sat T1 SAG FS T1 AX FS	T1 AX 512x256 4s0.5 STIR AX 256x256 4s0.5 PD COR FAT SAT 256x256 3s0.5 T1 COR 256x192 3s0.5 PD FS SAG 256x256 3s0.5
		*Coronal /Oblique should be aligned parallel to lower c-spine on Sag loc (C4-T2)	If concern for torn distal biceps tendon perform T2 FABs view (flexion/abduction/ supination)
LEGEND:			
Opt = Optional Recomm = Recommended Req'd = Required BH = Breath Hold RT = Respiratory Triggered FS = Fat Sat			

MSK MRI PROTOCOLS

Rev. 07.01.2020

UPPER EXTREMITY - Continued				
WRIST (Routine/AVN)	WRIST POST ARTHROGRAM	HAND	LONG BONE/SOFT TISSUE GENERIC MSK FOREARM / HUMERUS	THUMB (UCL INJURY, FX, TENDON INJURY)
				-
- - PD AX FSE FS (256x256) 3skip1 - T1 COR (256x256) 3skip0.5 PD COR FAT SAT (256 x 192)3skip0.5 T2 GRE COR 30 FLIP 256x192 1skip0 - STIR SAG (256x224) 3skip1 - POST CONTRAST(opt) T1 AX PRE FS (opt COR) T1 AX FAT SAT	T1 AX FAT SAT (256x224)3skip 0.2 T2 AX FAT SAT (256x224)2skip 0.2 T1 COR FAT SAT (256x224)2skip 0.2 T2 COR FAT SAT (256x224)2skip 0.2 3D SPGR T1 COR FAT SAT (256x160)1skip0 T1 SAG (256x224)2skip 0.2	PD AX FAT SAT (256 x 192)3skip1 T1 AX (256 x 192) 3skip1 STIR COR (256x224) 3skip1 T1 SAG (256x192) 3skip1 T2 FS SAG (256x224) 3skip1 POST CONTRAST (OPT) T1 AX PRE FS (opt COR) T1 COR FAT SAT T1 AX FAT SAT	STIR SAG AND COR T1 SAG AND COR T2 AX T2 AX FAT SAT* T1 AX POST CONTRAST (REQ'S IF MASS) T1 AX FAT SAT - Pre T1 AX FAT SAT -Post T1 SAG AND COR FAT SAT -Post *If problematic supression do a STIR	- PD Coronal (256x192 3mm/0.3 fov10cm) T2 FS CORONAL (256x256 3mm/0.3 fov10cm) STIR SAG (256x192 3mm/0.3 fov10cm) T1 Axial (256x192 3mm/0.3 fov10cm) T2 AX FS (256x256 3mm/0.3 fov10cm) ***Please orient images to the thumb, not the hand. Use sesamoids as reference plane.
T1 COR FAT SAT FOV 12-14cm	FOV 12x12cm			

MSK MRI PROTOCOLS

Rev. 07.01.2020

LOWER EXTREMITY				
PELVIS/HIP	HIP ARTHROGRAM	S/I JOINTS	KNEE	KNEE POST ARTHORGRAM
PAIN/AVN/LABRUM	LABRUM, UNSTABLE			
COR STIR WHOLE PELVIS	COR STIR WHOLE PELVIS	T1 COR OBL	PD AX FAT SAT (256x256) 3s0.5	PD AX FAT SAT
COR T1 WHOLE PELVIS	COR T1 WHOLE PELVIS	T2 FS COR OBL	PD SAG FAT SAT (256x224) 4s0.5	T1 AX FAT SAT
	COR T2 WHOLE PELVIS	STIR COR	PD/T2 DUAL ECHO SAG (256x192)4s0.5	STIR COR
AXIAL T1 WHOLE PELVIS	AXIAL T1 WHOLE PELVIS	T1 AX	T1 COR (256x192) 3s0.5	T1 COR FAT SAT
AX T2 FS WHOLE PELVIS FS SAG T2 FS WHOLE PELVIS	AX T2 WHOLE PELVIS FS	T2 FS AX	STIR COR (256x192)3s0.5	T1 SAG FAT SAT PD SAG
*PD AX/OBLFAT SAT (AFFECTED HIP)	*T1 FAT SAT AX/OBL HIP	T2 FS SAG		
*PD COR FAT SAT (AFFECTED HIP)	*T1 FAT SAT COR HIP			
	*T1 FAT SAT SAG HIP			
	* PD FAT SAT HIP			
*T2 FS SAG				
*FOV OF 18 CM				
	* 18cm FOV AFFECTED HIP			
		POST CONTRAST		
		T1 COR		
		T1 AX		

MSK MRI PROTOCOLS

Rev. 07.01.2020

LOWER EXTREMITY - Continued			
ANKLE	FOREFOOT	ACHILLES TENDON	LONG BONE/SOFT TISSUE GENERIC MSK FEMUR / LOWER LEG
PD AX (384x256) 4skip1 T2 AX FAT SAT (256x256) 4s1 STIR COR (256x192) 3s1 T1 SAG (256x256) 3s1 T2 SAG FAT SAT (256x256) 3s1 *T1 AX FS (IF CONTRAST)c4s1 POST CONTRAST T1 AX FAT SAT T1 SAG OR COR FAT SAT FOV AX 14-16 FOV SAG 16-18 FOV COR 16	PD AX 256x256 3s0.5 T2 AX FAT SAT 256x256 3s0.5 T1 SAG 256x256 3s0.5 STIR SAG 256x192 3s0.5 T1 COR 256x256 3s0.5 T2 COR FAT SAT 256x256 3s0.5 *T1 AX FS (IF CONTRAST) POST CONTRAST T1 AX FS T1 COR FS ** CORONAL AND AXIAL IN RELATION TO THE BODY, NOT THE FOOT.	PD AX T2 AX FAT SAT T1 SAG T2 SAG FAT SAT PD COR STIR COR POST CONTRAST T1 SAG FAT SAT T1 AX FAT SAT AXIAL SLICES WILL NEED TO GO HIGHER THAN THE ANKLE PROTOCOL TO VISUALIZE THE ENTIRE ACHILLES	STIR SAG AND COR T1 SAG AND COR T2 AX FAT SAT* T1 AX POST CONTRAST (REQ'S IF MASS) T1 AX FAT SAT - Pre T1 AX FAT SAT -Post T1 SAG AND COR FAT SAT -Post *If problematic supression do a STIR