

KNEE ACI/POST SURGERY WITH GAD TO ARRIVE 40 MIN PRIOR TO EXAM FOR IV MAGNEVIST & 20min EXERCISE											
Patient Supine FF						Perform 2 T1 fatsat scans perpendicular to graft site**					
	1	2	3	4	5	6	7	8			
Sat Pulses		Fat Sat				Fat Sat	Fat Sat	Fat Sat			
Coil Type	QEXT	QEXT	QEXT	QEXT	QEXT	QEXT	QEXT	QEXT			
Pt Position	Supine	Supine	Supine	Supine	Supine	Supine	Supine	Supine			
Plane	Cor	Sag	Sag	Axial	Cor	Cor	SAG	Oblique*			
Pulse Sequence	T1SE	PD-FSE-XL	PD-FSE-XL	FSE-XL DE	IR FSE-XL	T1SE	T1SE	T1SE			
Options		NPW,VB,EDR	ZIP512	ZIP512, SPF	VB,TRF						
Options	NP,VB,ED	TRF,ZIP512	NPW,VB,EDR	NPW,VB,EDR	EDR,SEQ,	NP,VB,ED	NP,VB,ED	NP,VB,ED			
Options			TRF	TRF	ZIP512						
No Echoes	1	1	1			1	1	1			
Echo Train		8	8	12	8						
Center Frequency	Water	Water	Water	Water	Water	Water	Water	Water			
Flip Angle											
Inversion Time					160						
TE1/TE2	20	20	37	20/130	Min Full	Min Full	Min Full	Min Full			
TR	550	2950	2400	3625	3000	650	650	650			
Bandwidth	20.83	32	32	17.86	31.25	32.5	32.5	32.5			
FOV (cm)	14	14	14	14	14	14	14	14			
Slice Thickness (mm)	3.5	3.5	3.5	3.5	4	4	4	4			
Gap (mm)	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5			
Matrix 256 X ...	512X256	512X256	512X256	256X224	256X192	512X256	512X256	512X256			
NEX (averages)	2	2	2	1	2	2	2	2			
Frequency Direction	S/I	A/P	A/P	A/P	S/I	S/I	S/I	S/I			
Offset											
Gating, breathing											
Gd-DTPA											
Dynamic											
No of Slices	17	21	21	24	12	15	15	15			
Image Time	4:49	3:21	2:45	4:50	2:36	4:49	4:49	4:49			
									SAG THRU CONDYLE WITH GRAFT ONLY		
									*Oblique perpendicular to graft -prescribe off of Sagittal		
									**for weightbearing fem condyle, Sag and Cor		
									for patella, Sag and Axial		
									for trochlea or posterior condyle, Sag and Oblique (perpendicular to graft-prescribe off Sag)		

KNEE--PRE SURG (No ACI)							
w/IV Magnevist							
Inject Gd 1/2 hour before exam; then have the patient exercise for 20 minutes.							
	1	2	3	4	5	6	7
Sat Pulses		Fat Sat			Fat Sat		
Coil Type	QEXT	QEXT	QEXT	QEXT	QEXT	QEXT	QEXT
Acquisition Order		L-R	L-R	P-A		I-S	P-A
Plane	3plane	Sag	Sag	Cor	Oblique Cor	Axial	Cor
Pulse Sequence	LOC	FSE-PD	FSE-PD	SE-T1	FSE-PD	FSE-DE	FSE-IR
Options		ZIP512	ZIP512	VB,EDR	ZIP512	VB,EDR	VB,EDR
Options		NPW,VB	NPW,VB		NPW,VB	ZIP512	ZIP512
Options		EDR,TRF	EDR,TRF		EDR,TRF	TRF	TRF
No Echoes							
Echo Train		8	8		8	12	8
Center Frequency	Water						
Flip Angle							
TI							160
TE1/TE2		20	37	20	20	20/130	Min Full
TR		3075	3075	550	3075	3500	3025
Bandwidth		31.25	31.25		31.25	17.86	31.25
FOV (cm)	24	14	14	14	14	14	15
Slice Thickness (mm)	5	3.5	3.5	3.5	3.5	3.5	4
Gap (mm)	1	0.5	0.5	0.5	0.5	0.5	1
Matrix 256 X ...	128	512X256	512X256	512X256	512X256	256x192	256X192
NEX (averages)	1	2	2	2	2	2	2
Frequency Direction		A/P	A/P	S/I	A/P	A/P	S/I
Offset							
Gating, breathing							
Gd-DTPA							
Dynamic							
No of Slices	3	22	22	17	up to 22	24	12
Image Time	:10	3:20	3:20	4:49	3:20	3:58	2:37
Special Instructions		AutoShim			Perpendicular	FSE-XL	FSE-XL
					to trochlea		
					prescribe		
					off Sag		