

		Policy #: Rad Proc 14. 16. 9.2
SUBJECT: FLEX COIL KNEE		Effective: 10/1/2013 Revised: 2/2015: 2/2017
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**Purpose: To provide MRI staff with approved protocol for FLEX COIL KNEE MR**

**EXAM: FLEX COLI KNEE**

**ORIENTATION: HEAD FIRST/SUPIN**

**COIL: HDKNEE /PA**


PLANE	3 PLN LOC	COR PD	COR STIR	SAG PD	SAG PD FS	SAG T2 (ACL)	AX PD FS (FREQ A/P)	OP COR PD FS
SEQ	GRE	FSE XL	FSE IR	FSE XL	FSE XL	FSE XL	FSE XL	FSE XL
MODE	2D	2D	2D	2D	2D	2D	2D	2D
IMAGING OPTIONS	SEQ/FAST	FC/NPW/TRF/FAST	FC/NPW/SEQ/TRF/FAST	FC/NPW/TRF/FAST	FC/NPW/TRF/FAST	NPW/FAST	FC/NPW/TRF/FAST	FC/NPW/TRF/FAST
TE		MIN FULL	102 ms	MIN FULL	MIN FULL	85 ms	MIN FULL	MIN FULL
TR		1800-2600 ms	4750 ms	1800-2600 ms	1800-2600 ms	4000 ms	1800-2600 ms	1800-2600 ms
TI			150 ms					
FLIP ANGLE								
ETL		4	11	4	4	23	4	4
BW		15.63	25.00	15.63	15.63	41.67	15.63	15.63
FOV	28	16	16	16	16	16	16	16
SLICE THICKNESS	5	4	4	4	4	3	4	4
SLICE SPACING	5	1	1	1	1	0.3	1	1
Frequency	256	256	256	256	256	320	256	256
Phase	128	192	192	192	192	224	192	192
NEX	1	3	2	3	3	2	3	3
PHASE FOV	1							
FREQ DIR	UNSWAP	A/P	A/P	A/P	A/P	A/P	A/P	A/P
FLOW COMP DIR		FREQ	FREQ	FREQ	FREQ		FREQ	FREQ
SHIM	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO
PHASE CORRECT	OFF	ON	OFF	ON	ON	ON	ON	ON

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NOTES: AX PD FS: FREQ A/P. When the frequency direction is not A/P, the flow artifact from the popliteal artery obscures the view of the patella. Make sure the frequency is A/P to place the artifact in the opposite direction.

COR PD, COR STIR, OP COR PD FS, SAG PD, & SAG PD FS: Manually place superior and inferior saturation bands to reduce the artifact from the popliteal artery on these sequences. The bandwidth may also be increased as per applications. Use fat classic for the fat sat on knee scans per Dr. Simoncini.

SAG T2 (ACL): Thin slices through the intercondylar notch only. Per Dr. Simoncini's request: If the ACL is not demonstrated in well by angling the slices perpendicular to the femoral condyles, angle the slices to the lateral femoral condyle.

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COR PD, COR PD FS, SAG PD, & SAG PD FS: Manually place superior and inferior saturation bands to reduce the artifact from the popliteal artery on these sequences. The bandwidth may also be increased as per applications. Use fat classic for the fat sat on knee scans per Dr. Simoncini.

If there is metal present in the knee, do not include the fat sat sequences, as per Dr. Simoncini. Include stir sequences instead, as per Dr. Simoncini.

(OP ACL) SAG PD: Please include this sequence when the ACL is not demonstrated in profile, per Dr. Simoncini. Only cover the intercondylar notch, per Dr. Simoncini. Slice thickness 3. Slice spacing: 0.3.