

Note: Additional sequences may be requested at the discretion of the Radiologist monitoring the exam.

EXAM: QUAD KNEE COIL/TORSO PA COIL KNEE

ORIENTATION: FEET FIRST/SUPINE

COIL: QUADKNEE/TORSO PA

| PLANE | 3 PLN LOC | COR PD | COR PD FS | SAG PD | SAG PD FS | AX PD FS (FREQ A/P) | (OP ACL) SAG PD |
|--------------------|--------------|-----------------|-----------------|-----------------|-----------------|---------------------|-----------------|
| SEQ | GRE | FSE XL | FSE XL | FSE XL | FSE XL | FSE XL | FSE XL |
| MODE | 2D | 2D | 2D | 2D | 2D | 2D | 2D |
| IMAGING OPTIONS | SEQ/FAST | FC/NPW/TRF/FAST | FC/NPW/TRF/FAST | FC/NPW/TRF/FAST | FC/NPW/TRF/FAST | FC/NPW/TRF/FAST | FC/NPW/TRF/FAST |
| TE | | MIN FULL | MIN FULL | MIN FULL | MIN FULL | MIN FULL | 42 ms |
| TR | | 1800-2600 ms | 1800-2600 ms | 1800-2600 ms | 1800-2600 ms | 1800-2600 ms | 2500 ms + |
| TI | | | | | | | |
| FLIP ANGLE | | | | | | | |
| ETL | | 4 | 4 | 4 | 4 | 4 | 8 |
| BW | | 15.63 | 15.63 | 15.63 | 15.63 | 15.63 | 50.00 |
| FOV | 28 | 16 | 16 | 16 | 16 | 16 | 16 |
| SLICE THICKNESS | 5 | 4 | 4 | 4 | 4 | 4 | 3 |
| SLICE SPACING | 5 | 1 | 1 | 1 | 1 | 1 | 0.3 |
| Frequency | 256 | 320 | 320 | 320 | 320 | 320 | 320 |
| Phase | 128 | 224 | 224 | 224 | 224 | 224 | 224 |
| NEX | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| PHASE FOV | 1 | | | | | | |
| FREQ DIR | UNSWAP | 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 |
| PHASE CORRECT | OFF | ON | 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 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.

Written: 10/2013 Revised: 02/2015; 05/2015; 08/2015; 10/2015; 01/2016 Reviewed: 11/2012; 05/2014; 04/2016