

1.5T MSK PELVIS and HIPS - UW MADISON											2/1/13 Desmet/Blankenbaker/Robichaud				MEV Updated 3-8-18					
8ch CARDIAC or 8ch Body LOWER. Gems 30		FOV				pfov	slthk/sp	frqdr	TR	TE	TI	ETL	SCIC	Matrix	Nex	BW	Accel	Advanced	Sat	
PELVIS - BONY or FX											*ZIP 512: If matrix is >256, scan will be auto zipped to 512									
All views should include all of sacrum to below lesser trochanters.																				
1	3 pl loc	2d SE	Seq, EDR, Fast, SS, ARC			48 x 48	pfov1	5/5 9sl each plane	min	80	-	-	-	256 x 128	1 nex	62	2	coll all 1, max # 240 echo sp 1, RG 1		
2	Cor T1	2d FSE	NP, TRF, ZIP 512, fast			body width	pfov1	5 / 2.5	unsp	TR 575	TE 20		ETL 3	PURE	256 x 224	2 nex	BW 15	2		
3	Cor FSTIR	2d FSE	NP, Seq, ZIP 512, IRP fast			body width	pfov1	5 / 2.5	unsp	TR 5000	TE 44	TI 160	ETL 8	PURE	256 x 192	2 nex	BW 25			
4	Ax T1	2d FSE	TRF, ZIP 512, fast			body width	pfov.8	5 / 2.5	unsp	TR 575	TE 20		ETL 4	PURE	256 x 224	2 nex	BW 20			
5	Ax T2 dk fat	2d FSE	TRF, ZIP 512, fast			body width	pfov.8	5 / 2.5	unsp	TR 4225	TE 68		ETL 10	PURE	256 x 224	2 nex	BW 20	blur 1	FAT	
Unilateral: Hip thru greater trochanter																				
6	Sag PD cl fat	2d FSE	NP, TRF, ZIP 512, fast			18 x 18	pfov1	4 / 1	unsp	TR 2200	TE 25		ETL 6	PURE	256 x 224	2 nex	BW 20	fs eff=1	cl fat	
7	Cor T2 cl fat	2d FSE	NP, TRF, ZIP 512, fast			20 x 20	pfov1	4 / 1	unsp	TR 2800	TE 60		ETL 10	PURE	256 x 224	4 nex	BW 20	blur 1, fs eff 1	cl fat	
Synovitis: (lg FOV, thinner slices, include unilateral hip views above)																				
8	+Cor T1 dk fat	2d FSE	NP, TRF, ZIP 512, fast			body width	pfov1	4/1	unsp	TR 650	TE 20		ETL 4	PURE	256 x 224	2 nex	BW 20	fs eff=1	FAT	
10	+Ax T1 dk fat	2d FSE	TRF, ZIP 512, fast			body width	pfov.8	4/1	unsp	TR 600	TE 20		ETL 4	PURE	256 x 224	2 nex	BW 20	fs eff=1	FAT	
Rapid ED Hip FX																				
1	3 pl loc	2d SE	Seq, EDR, Fast, SS, ARC			48 x 48	pfov1	5/5 9sl each plane	min	80	-	-	-	256 x 128	1 nex	62	2	coll all 1, max # 240 echo sp 1, RG 1		
2	Cor T1	2d FSE	NP, TRF, ZIP 512, ARC fast			body width	pfov1	5 / 2.5	unsp	TR 575	TE 20		ETL 3	PURE	256 x 224	2 nex	BW 15	2		
3	Cor FSTIR	2d FSE	NP, Seq, ZIP 512, ARC IRP f			body width	pfov1	5 / 2.5	unsp	TR 5000	TE 44	TI 160	ETL 8	PURE	256 x 192	2 nex	BW 25	2		
for Ax coverage---above sacrum to below lesser trochanter (don't overscan)																				
4	Ax T2 dk fat	2d FSE	TRF, ZIP 512, ARC, fast			body width	pfov.8	5 / 2.5	unsp	TR 4225	TE 68		ETL 10	PURE	256 x 224	2 nex	BW 20	2	blur 1	FAT
HIP - ARTHROGRAM																				
1	3 pl loc	2d SE	Seq, EDR, Fast, SS, ARC			48 x 48	pfov1	5/5 9sl each plane	min	80	-	-	-	256 x 128	1 nex	62	2	coll all 1, max # 240 echo sp 1, RG 1		
2	Cor T1 cl fat	2d FSE	NP, TRF, ZIP 512, fast			20 x 20	pfov1	4 / .4	unsp	TR 625	TE 20		ETL 4	PURE	256 x 224	3 nex	BW 15	fs eff=1	cl fat	
3	Cor T2 cl fat	2d FSE	NP, TRF, ZIP 512, fast			20 x 20	pfov1	4 / .4	unsp	TR 3150	TE 60		ETL 10	PURE	256 x 224	2 nex	BW 20	fs eff=1	cl fat	
4	SagPD cl fat	2d FSE	NP, TRF, ZIP 512, fast			18 x 18	pfov1	4 / 1	S/I	TR 2000	TE 25		ETL 6	PURE	256 x 224	2 nex	BW 15	fs eff=1	cl fat	
Series 5 is prescribed on the coronal, parallel to the femoral neck																				
5	Obl Ax T1 cl fat	2d FSE	NP, TRF, ZIP 512, fast			18 x 18	pfov1	4 / .4	unsp	TR 600	TE 20		ETL 4	PURE	256 x 224	2 nex	BW 15	fs eff=1	cl fat	
6	Ax T1 No fat	2d FSE	NP, TRF, ZIP 512, fast			18 x 18	pfov1	4 / .4	R/L	TR 600	TE 20		ETL 4	PURE	256 x 224	2 nex	BW 15			
7	Ax T2 cl fat	2d FSE	NP, TRF, ZIP 512, fast			18 x 18	pfov1	4 / .4	R/L	TR 3150	TE 60		ETL 10	PURE	256 x 224	2 nex	BW 20	fs eff=1	cl fat	
8	SAG 3d FSPGR IDEAL	3d SPGR	EDR, Fast, Zip512, Asset			24 x 24	pfov1	.9	90 sls		def	min full	FLIP 14		268 x 268	1 nex	BW 31	Turbo 2 s/s res 78%		
old Radial PD cl fat																				
2d FSE	NP, TRF, ZIP 512, fast	22 x 22	pfov1	2 / 0	swap	TR 2000	TE 42		ETL 6	PURE	256 x 224	3 nex	BW 15	fs eff=1	cl fat					
HIP: Labrum Scope																				
1	3 pl loc	2d SE	Seq, EDR, Fast, SS, ARC			48 x 48	pfov1	5/5 9sl each plane	min	80	-	-	-	256 x 128	1 nex	62	2	coll all 1, max # 240 echo sp 1, RG 1		
Coronals-center at lesser trochanter																				
2	Cor T1	2d FSE	NP, TRF, fast			20 x 20	pfov1	4 / 1	S/I	TR 575	TE 20		ETL 4	PURE	320 x 224	3 nex	BW 20			
3	Cor T2 cl fat	2d FSE	NP, TRF, fast			20 x 20	pfov1	4 / 1	S/I	TR 3150	TE 60		ETL 10	PURE	320 x 192	3 nex	BW 20	fs eff=1	cl fat	
Sagittal-center on joint																				
7	Sag PD cl fat	2d FSE	NP, TRF, fast			18 x 18	pfov1	4/.4	S/I	TR 2800	TE 25		ETL 6	PURE	320 x 224	2 nex	BW 20	fs eff=1	cl fat	
Axials-cover 3 cm above superior hip joint to below lesser trochanter																				
4	Ax T1	2d FSE	NP, TRF, fast			22 x 22	pfov1	4 / 1	R/L	TR 575	TE 20		ETL 4	PURE	320 x 224	2 nex	BW 20			
5	Ax T2 cl fat	2d FSE	NP, TRF, fast			22 x 22	pfov1	4 / 1	R/L	TR 3150	TE 80		ETL 10	PURE	320 x 224	2 nex	BW 20	fs eff=1	cl fat	
Oblique Axials-parallel to femoral neck																				
6	Obl Ax PD cl fat	2d FSE-XL	NP, TRF, fast,			22 x 22	pfov1	3/.3	unsp	TR 2200	TE 42		ETL 6	PURE	320 x 192	3 nex	BW 20	fs eff=1	cl fat	
PELVIS - OSTEOMYELITIS / ABSCESS / TUMOR																				
1	3 pl loc	2d SE	Seq, EDR, Fast, SS, ARC			48 x 48	pfov1	5/5 9sl each plane	min	80	-	-	-	256 x 128	1 nex	62	2	coll all 1, max # 240 echo sp 1, RG 1		
2	Cor T1	2d FSE	NP, TRF, ZIP 512, fast			body width	pfov1	5 / 2.5	unsp	TR 575	TE 20		ETL 4	PURE	256 x 224	2 nex	BW 20		4:10	
3	Cor FSTIR	2d FSE-IR	NP, Seq, ZIP 512, fast			body width	pfov1	5 / 2.5	unsp	TR 3400	TE 44	TI 160	ETL 8	PURE	256 x 192	2 nex	BW 12		4:20	
4	Sag T1	2d FSE	TRF, ZIP 512, fast			body width	pfov.8	7/3	unsp	TR 600	TE 20		ETL 4	PURE	256 x 224	2 nex	BW 20		3:40	
5	Sag FSTIR	2d FSE-IR	Seq, ZIP 512, fast			body width	pfov.8	7/3	unsp	TR 4000	TE 44	TI 160	ETL 8	PURE	256 x 192	2 nex	BW 12		4:00	
6	Ax T1	2d FSE	TRF, ZIP 512, fast			body width	pfov.8	5 / 2.5	unsp	TR 600	TE 20		ETL 4	PURE	256 x 224	2 nex	BW 20		4:00	
7	Ax T2 dk fat	2d FSE	TRF, ZIP 512, fast			body width	pfov.8	5 / 2.5	unsp	TR 3200	TE 68		ETL 8	PURE	256 x 224	2 nex	BW 20	fs eff=1	FAT 4:30	
Tumor:		Ax T1 dk fat	TRF, ZIP 512, fast			body width	pfov.8	5 / 2.5	unsp	TR 600	TE 20		ETL 4	PURE	256 x 224	1 nex	BW 20	fs eff=1	FAT 2:20	
Give IV contrast:																				
8	Cor T1 dk fat	2d FSE	NP, TRF, ZIP 512, fast			body width	pfov1	5 / 2.5	unsp	TR 650	TE 20		ETL 4	PURE	256 x 224	2 nex	BW 20	fs eff=1	FAT 6:30	
9	Sag T1 dk fat	2d FSE	TRF, ZIP 512, fast			body width	pfov.8	7/3	unsp	TR 600	TE 20		ETL 4	PURE	256 x 224	2 nex	BW 20	fs eff=1	FAT 5:00	
10	Ax T1 dk fat	2d FSE	TRF, ZIP 512, fast			body width	pfov.8	5 / 2.5	unsp	TR 600	TE 20		ETL 4	PURE	256 x 224	2 nex	BW 20	fs eff=1	FAT 5:30	
OPTIONAL SEQUENCES																				
	FSTIR	2d FSE-IR	Seq, ZIP 512, fast				pfov1		unsp	TR 4000	TE 40	TI 160	ETL 8	PURE	256 x 192	2 nex	BW 20			
	PD no fat	2d FSE	TRF, *zip 512, fast				pfov1		unsp	TR 1800	TE 12.4		ETL 4	PURE	320 x 288	2 nex	BW 20			
	PD cl fat	2d FSE	TRF, *zip 512, fast, EDR				pfov1		unsp	TR 2200	TE 42		ETL 6	PURE	320 x 224	2 nex	BW 20	fs eff=1	cl fat	
	T2 cl fat	2d FSE	TRF, ZIP 512, fast				pfov1		unsp	TR 3150	TE 80		ETL 10	PURE	256 x 192	2 nex	BW 19	fs eff=1	cl fat	
	T2 dk fat	2d FSE	TRF, ZIP 512, fast			body width	pfov1	5 / 2.5	unsp	TR 2800	TE 60		ETL 6	PURE	256 x 224	2 nex	BW 20	fs eff=1	FAT	

	Cor 3d	3D tof SPGR	ZIP 2		pfov1	2.4/0	S/I	TR 18	TE 2 fr			PURE	512 x 384	1 nex	BW 31			
SPORTS HERNIA / OSTEITIS PUBIS / PUBALGIA																		
1	3 pl loc	2d SE	Seq, EDR, Fast, SS, ARC	48 x 48	pfov1	5/5 9sl each plane	min		80	-	-	-	256 x 128	1 nex	62	2	coll all 1, max # 240	-
																	echo sp 1, RG 1	
2	Cor FSTIR	2d FSE-IR	NP, Seq, ZIP 512, fast	body width	pfov1	5 / 2.5	unsp	TR 5000	TE 44	TI 160	ETL 8	PURE	256 x 192	2 nex	BW 25			
3	Cor T1	2d FSE	NP, TRF, ZIP 512, fast	24 X 24	pfov1	4 / 1	unsp	TR 600	TE 20		ETL 4	PURE	256 x 192	2 nex	BW 15			
4	Cor FSTIR	2d FSE-IR	NP, Seq, ZIP 512, fast	24 X 24	pfov1	4 / 1	unsp	TR 4850	TE 40	TI 160	ETL 8	PURE	256 x 192	2 nex	BW 8			
5	Sag T2 cl fat	2d FSE	NP, TRF, ZIP 512, fast	24 X 24	pfov1	4 / 1	unsp	TR 4000	TE 68		ETL 8	PURE	256 x 192	2 nex	BW 15		fs eff=1	cl fat
6	Ax T2 dk fat	2d FSE	NP, TRF, ZIP 512, fast	20 X 20	pfov1	4 / 1	unsp	TR 3000	TE 60		ETL 8	PURE	256 x 192	2 nex	BW 15		fs eff=1	FAT
7	<Ax T2 dk fat	2d FSE	NP, TRF, ZIP 512, fast	20 X 20	pfov1	4 / 1	unsp	TR 3000	TE 60		ETL 8	PURE	256 x 192	2 nex	BW 15		fs eff=1	FAT
8	<Ax PD	2d FSE	NP, TRF, ZIP 512, fast	20 X 20	pfov1	4 / 1	unsp	TR 3000	TE 25		ETL 8	PURE	256 x 256	2 nex	BW 15			