

450w 22.0 1.5T FOOT / ANKLE / METATARSALS / TOES MRI - UW MADISON								3/5/13 DeSmet/Robichaud/Vadnais/Trotter					
***phase and frequency might differ from protocol to protocol.													
Straight Axial	Oblique Axial freq A/P -	Straight Coronal	Oblique Coronal freq S/I - NPw	Mortise Coronal freq S/I - NPw	Mortise Sagittal freq S/I - NPw	Short Axis freq S/I - NPw	Long Axis freq A/P -						
TENDON 1. 3 pl loc Sagittal- NPw 3/1.5 fov 18 fq S/I 2. Mortise Sag T1 3. Mortise Sag T2 85% dk fat Straight Axial 3/0.5 fov 14 fq A/P 4. Str Ax PD 5. Str Ax T2 cl fat Obq Cor - 3/0.5 fov 16 fq S/I . 6. Obq CorT2 cl fat	ACHILLES Include all of the ankle, hindfoot and arch insertion 1. 3 pl loc Sagittal- NPw 3/0.2 fov 18 fq S/I 2. Mortise Sag PD 3. Mortise Sag 85% dk fat Straight Axial 4/1 fov 16 fq A/P 4. Str Ax PD 5. Str Ax T2 cl fat Mortise Cor 3/1.5 fov 16 fq S/I 6. Mortise CorT2 cl fat	OCD 1. 3 pl loc Mortise Sag- NPw 3/0.5 fov 14 fq S/I 2. Mortise Sag T1 3. Mortise Sag 85% dk fat Straight Axial 3/ 0.5 fov 14 fq A/P 4. Str Ax PD 5. Str Ax T2 cl fat Mortise Cor - NPw 3/0.5 fov 16 fq S/I 6. Mortise CorT1 7. Mortise CorT2 cl fat	STRESS FX Midfoot Cover anterior aspect of ankle joint thru bases of metatarsals. 1. 3 pl loc Sagittal- NPw 4/1 fov 16 fq S/I 2. Mortise Sag T1 3. Mortise Sag FSTIR Obq Axial - NPw 3/1 fov 14 fq A/P 4. Obq Ax T1 5. Obq Ax T2 cl fat Obq Coronal - NPw 3/0.5 fov 14 fq S/I 6. Obq Cor T1 7. Obq Cor T2 cl fat	STRESS FX Metatarsals Cover: Bases of proximal phalanges up to talonavicular jt. 1. 3 pl loc Sagittal- NPw 4/1 fov 16 fq S/I 2. Sag T1 3. Sag FSTIR Short Axis - NPw 3/1 fov 16 fq A/P 4. Short Axis T1 5. Short Axis T2 cl fat Long Axis - NPw 3/0.2 fov 16 fq A/P 6. Long Axis T1 7. Long Axis T2 cl at Opt: Sagittal- thin	PLANTAR Fasciitis; Fibroma 1. 3 pl loc Sagittal- NPw 3/0.5 fov 16 fq S/I 2. Mortise Sag PD 3. Mortise Sag 85% dk fat Straight Coronal 3/0.5 fov 16 fq S/I 4. Str Cor T1 5. Str Cor T2 cl fat Straight Axial 4/1 fov 16 6. Str Axial T2 cl fat	HEEL ULCER MALLEOLAR ULCER Ankle or Hindfoot 1. 3 pl loc Sagittal- NPw 3/1 .5 fov 16 frq S/I 2. Mortise Sag T1 3. Mortise Sag FSTIR Straight Axial 3/1.5 fov 16 frq A/P 4. Str Ax T1 5. Str Ax T2 IDEAL Straight Coronal 3/1.5 fov 14 frq S/I 6. Str Cor T1 7. Str Cor T2 cl fat IV Contrast 8. Str Sag T1 cl fat 9. Str Cor T1 cl fat	TOE ULCER or Forefoot ULCER 1. 3 pl loc Sagittal- NPw 3/1.5 fov 16 fq S/I 2. Sag T1 3. Sag FSTIR Short Axis - NPw GRx off of Sag 3/1.5 fov 16 fq S/I 4. Short Axis T1 5. Short Axis T2 IDEAL Long Axis - NPw GRx off of SA 3/1.5 fov 16 fq A/P 6. Long Axis T1 7. Long Axis T2 IDEAL IV Contrast	IDEAL notes Do not use NP TOES LA view swap frq to A/P 16 x 16 FOV 3 / 1.5 mm SA view freq default 16 x 16 FOV 3 / 1.5mm Sagittal swap frq to A/P 16 x 16 FOV 4 / 1					
3 pl loc	T1	T2	T2	T2	PD	PD	incl. Arthrograms	+C T1	+C T1	Hi Resolution	Screening		
3 pl loc	No fatsat	classic fatsat	dark fatsat	85% dark fatsat	No fatsat	classic fatsat		classic fatsat	dark fatsat	FSTIR	FSTIR	IDEAL T1	IDEAL T2
2d FGRE	2d FSE-XL	2d FSE-XL	2d FSE-XL	2d FSE-XL	2d FSE-XL	2d FSE-XL		2d FSE-XL	2d FSE-XL	2d FSE-IR	2d FSE-IR	2d FSE-XL	2d FSE-XL
NP	*NP	*NP	*NP	*NP	*NP	*NP, EDR		*NP	*NP	*NP	*NP	Type in fseideal	Type in fseideal
SEQ	Trf, ZIP 512 fast	Trf, ZIP 512 fast	Trf, ZIP 512 fast	Trf, ZIP 512 fast	Trf, *ZIP 512 fast	Trf, *ZIP 512 fast		Trf, ZIP 512 fast	Trf, ZIP 512 fast	SEQ, ZIP 512 fast	SEQ, ZIP 512 fast	Trf, ZIP 512 fast	ZIP 512
TE def	TE 20	TE 80	TE 80	TE 80	TE 20	TE 42		TE 20	TE 20	TE 44	TE 44	TE 20	TE 68
TR def	TR 600	TR 4000	TR 4000	TR 4000	TR 2000	TR 2000		TR 575	TR 575	TR 5000	TR 3400	TR 800	TR 2500
	ETL 4	ETL 11	ETL 17	ETL 17	ETL 4	ETL 6		ETL 4	ETL 4	TI 160	TI 160	ETL 4	ETL 7
	BW 25	BW 20.8	BW 20.8	BW 20.8	BW 20.8	BW 20.8		BW 20.8	BW 20.8	ETL 8 BW 19	ETL 8 BW 19	BW 20	BW 20
	Sat scr	Sat scr classic fatsat	Sat scr FAT	Sat scr FAT	Sat scr	Sat scr classic fatsat		Sat scr classic fatsat	Sat scr FAT	Sat scr	Sat scr	Sat scr NO sats	Sat scr NO sats
	User CV	User CV	User CV	User CV	User CV	User CV		User CV	User CV	User CV	User CV	User CV	User CV
	Blur 0	Blur 1 fat sat eff 1	Blur 1 fat sat eff 1	Blur 1 fat sat eff 1	Blur 0	Blur 0 fat sat eff 1		Blur 0 fat sat eff 1	Blur 0 fat sat eff 1	Blur 0	Blur 0	0, 0, 0	0, 0, 0
32 x 32	FOV 14 - 18	FOV 14 - 18	FOV 14 - 18	FOV 14 - 18	FOV 14 - 18	FOV 14 - 18		FOV 14 - 18	FOV 14 - 18	FOV 14 - 18	FOV 20	FOV 14 - 20	FOV 14 - 18
10 / 2.5	3 - 4 mm	3 - 4 mm	3 - 4 mm	3 - 4 mm	3 - 4 mm	3 - 4 mm		3 - 4 mm	3 - 4 mm	3 - 4 mm	4 / 2	3 - 4 mm	3 - 4 mm
20, 11 sl	14 sls / 2 acq	22 sls / 1 acq	22 sls / 1 acq	22 sls / 1 acq	21 sls / 1 acq	22 sls / 1 acq		21 sls / 3 acq	21 sls / 3 acq	20 sls / 2 acq	10 sls	18 sls / 2 acq	18 sls / 2 acq
256 x 128	256 x 224	256 x 224	256 x 224	256 x 224	256 x 224	256 x 224		256 x 224	256 x 224	288 x 192	256 x 192	256 x 224	256 x 224
1 nex	2 nex	2 nex	2 nex	2 nex	2 nex	2 nex		2 nex	2 nex	2 nex	2 nex	1 nex	1 nex
	pfov 1	pfov 1	pfov 1	pfov 1	pfov 1	pfov 1		pfov 1	pfov 1	pfov 1	pfov 1	pfov 1	pfov 1
0:35	2:08	2:21	2:52	2:52	4:23	2:30		4:24	4:24	@ 5 min	@ 5 min	4:31	5:00

