

Protocol: adult_lowerExtremities_MSK - Foot

3-Plane Loc - 3-Plane Loc

| IMAGING PARAMETERS | |
|----------------------|---------------|
| Imaging Mode | 2D |
| Pulse Sequence | Gradient Echo |
| Imaging Options | Seq, Fast |
| SCAN RANGE | |
| FOV | 50.0 |
| Slice Thickness | 5.00 |
| Slice Spacing | 5.0 |
| Overlap Locations | 0 |
| ACQ TIMING | |
| Freq | 256 |
| Phase | 128 |
| Freq DIR | Unswap |
| NEX | 1.00 |
| Phase FOV | 1.00 |
| Auto Shim | Off |
| Phase Correction | No |
| RF Drive Mode | Optimized |
| Excitation Mode | Selective |
| USER CVS | |
| User CV20 | 1.00 |
| User CV Mask2 | 0 |
| MULTI-PHASE | |
| Seperate Series | 0 |
| Mask Phase | 0 |
| Mask Pause | 0 |
| Preserve | 0 |
| DIFFUSION | |
| Recon All Images | On |
| # Synthetic b-values | 1 |
| Synthetic b-value | 1000.0; |
| CONTRAST | |
| Contrast Yes/No | No |

3-Plane Loc - 3-Plane Loc

| SCAN TIMING | |
|-------------------------------|-----------|
| Number of Echoes | 1 |
| IMAGE ENHANCE | |
| Filter Choice | None |
| GATING/TRIGGER | |
| Pause After Navigator Prescan | 0 |
| FMRI | |
| PSD Trigger | Internal |
| View Order | Bottom/Up |
| # of Repetitions REST | 0 |
| # of Repetitions ACTIVE | 0 |
| SAT | |
| Tag Type | None |
| TRICKS | |
| Pause On/Off | On |
| Auto Subtract | 0 |
| Auto SCIC | Off |

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|---------------------------|---------------------------|---------------|-------------------------------|-------------|
| 3-Plane Loc - 3-Plane Loc | IMAGING PARAMETERS | | SCAN TIMING | |
| | Imaging Mode | 2D | Number of Echoes | 1 |
| | Pulse Sequence | Gradient Echo | IMAGE ENHANCE | |
| | Imaging Options | Seq, Fast | Filter Choice | None |
| | SCAN RANGE | | GATING/TRIGGER | |
| | FOV | 32.0 | Pause After Navigator Prescan | 0 |
| | Slice Thickness | 5.00 | FMRI | |
| | Slice Spacing | 5.0 | PSD Trigger | Internal |
| | Overlap Locations | 0 | Slice Order | Interleaved |
| | Number of Slices | 24 | View Order | Bottom/Up |
| | ACQ TIMING | | # of Repetitions REST | 0 |
| | Freq | 256 | # of Repetitions ACTIVE | 0 |
| | Phase | 128 | SAT | |
| | Freq DIR | Unswap | Tag Type | None |
| | NEX | 1.00 | TRICKS | |
| | Phase FOV | 1.00 | Pause On/Off | On |
| | Auto Shim | Off | Auto Subtract | 0 |
| | Phase Correction | No | Auto SCIC | Off |
| | RF Drive Mode | Optimized | | |
| | Excitation Mode | Selective | | |
| | USER CVS | | | |
| | User CV20 | 1.00 | | |
| | User CV Mask2 | 0 | | |
| | MULTI-PHASE | | | |
| | Seperate Series | 0 | | |
| | Mask Phase | 0 | | |
| | Mask Pause | 0 | | |
| | Preserve | 0 | | |
| | DIFFUSION | | | |
| | Recon All Images | On | | |
| | # Synthetic b-values | 1 | | |
| | Synthetic b-value | 1000.0; | | |
| | CONTRAST | | | |
| | Contrast Yes/No | No | | |

Protocol: adult_lowerExtremities_MSK - Foot

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|-------------------------------------------|---------------------------|------------------------|----------------------|---------|
| Long axis PD FS FSE - Long axis PD FS FSE | IMAGING PARAMETERS | | SCAN TIMING | |
| | Imaging Mode | 2D | Flip Angle | 111 |
| | Pulse Sequence | FSE-XL | TE | 34.0 |
| | Imaging Options | EDR, TRF, Fast, ZIP512 | Number of Echoes | 1 |
| | SCAN RANGE | | TR | 2464.0 |
| | FOV | 22.0 | Echo Train Length | 7 |
| | Slice Thickness | 3.00 | Receiver Bandwidth | 41.67 |
| | Slice Spacing | 0.5 | IMAGE ENHANCE | |
| | Overlap Locations | 0 | Filter Choice | None |
| | Number of Slices | 30 | USER CVS | |
| | ACQ TIMING | | User CV19 | 1.00 |
| | Freq | 352 | TR Min | 1500.0 |
| | Phase | 224 | TR Max | 10000.0 |
| | Freq DIR | R/L | User CV30 | 1.00 |
| | Fat Shift DIR | Normal (L) | User CV Mask2 | 0 |
| | NEX | 1.00 | MULTI-PHASE | |
| | Phase FOV | 1.00 | Seperate Series | 0 |
| | Auto Shim | Auto | Mask Phase | 0 |
| | Phase Correction | Yes | Mask Pause | 0 |
| | RF Drive Mode | Optimized | Preserve | 0 |
| | Excitation Mode | Selective | DIFFUSION | |
| | FMRI | | Recon All Images | On |
| | PSD Trigger | Internal | # Synthetic b-values | 1 |
| | View Order | Bottom/Up | Synthetic b-value | 1000.0; |
| | # of Repetitions REST | 0 | CONTRAST | |
| | # of Repetitions ACTIVE | 0 | Contrast Yes/No | No |
| | SAT | | | |
| | Tag Type | None | | |
| | Fat/Water Saturation | Fat Classic | | |
| | TRICKS | | | |
| | Pause On/Off | On | | |
| | Auto Subtract | 0 | | |
| | Auto SCIC | Off | | |

Long axis PD FS FSE - Long axis PD FS FSE

Protocol: adult_lowerExtremities_MSK - Foot

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|---------------------------------------------|---------------------------|------------------------|----------------------|---------|
| Short axis PD FS FSE - Short axis PD FS FSE | IMAGING PARAMETERS | | SCAN TIMING | |
| | Imaging Mode | 2D | Flip Angle | 111 |
| | Pulse Sequence | FSE-XL | TE | 31.0 |
| | Imaging Options | EDR, TRF, Fast, ZIP512 | Number of Echoes | 1 |
| | SCAN RANGE | | TR | 3027.0 |
| | FOV | 20.0 | Echo Train Length | 7 |
| | Slice Thickness | 3.00 | Receiver Bandwidth | 41.67 |
| | Slice Spacing | 0.5 | IMAGE ENHANCE | |
| | Overlap Locations | 0 | Filter Choice | None |
| | Number of Slices | 39 | USER CVS | |
| | ACQ TIMING | | User CV19 | 1.00 |
| | Freq | 320 | TR Min | 2500.0 |
| | Phase | 224 | TR Max | 3500.0 |
| | Freq DIR | S/I | User CV30 | 1.00 |
| | Fat Shift DIR | Normal (I) | User CV Mask2 | 0 |
| | NEX | 1.50 | MULTI-PHASE | |
| | Phase FOV | 1.00 | Seperate Series | 0 |
| | Auto Shim | Auto | Mask Phase | 0 |
| | Phase Correction | Yes | Mask Pause | 0 |
| | RF Drive Mode | Optimized | Preserve | 0 |
| | Excitation Mode | Selective | DIFFUSION | |
| | FMRI | | Recon All Images | On |
| | PSD Trigger | Internal | # Synthetic b-values | 1 |
| | View Order | Bottom/Up | Synthetic b-value | 1000.0; |
| | # of Repetitions REST | 0 | CONTRAST | |
| | # of Repetitions ACTIVE | 0 | Contrast Yes/No | No |
| | SAT | | | |
| | Tag Type | None | | |
| | Fat/Water Saturation | Fat Classic | | |
| | TRICKS | | | |
| | Pause On/Off | On | | |
| | Auto Subtract | 0 | | |
| | Auto SCIC | Off | | |

Short axis PD FS FSE - Short axis PD FS FSE

Protocol: adult_lowerExtremities_MSK - Foot

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|-----------------------------------|---------------------------|------------------------------|----------------------|----------|
| Short Ax T1 FSE - Short Ax T1 FSE | IMAGING PARAMETERS | | SCAN TIMING | |
| | Imaging Mode | 2D | Flip Angle | 111 |
| | Pulse Sequence | FSE-XL | TE | Min Full |
| | Imaging Options | EDR, TRF, Fast, ZIP1024, ARC | Number of Echoes | 1 |
| | Phase | 2.00 | TR | 570.0 |
| | SCAN RANGE | | Echo Train Length | 3 |
| | FOV | 13.0 | Receiver Bandwidth | 83.33 |
| | Slice Thickness | 2.50 | IMAGE ENHANCE | |
| | Slice Spacing | 0.5 | Filter Choice | None |
| | Overlap Locations | 0 | USER CVS | |
| | Number of Slices | 33 | TR Min | 400.0 |
| | ACQ TIMING | | TR Max | 850.0 |
| | Freq | 512 | User CV Mask2 | 1024 |
| | Phase | 416 | MULTI-PHASE | |
| | Freq DIR | A/P | Seperate Series | 0 |
| | Fat Shift DIR | Normal (A) | Mask Phase | 0 |
| | NEX | 1.00 | Mask Pause | 0 |
| | Phase FOV | 0.75 | Preserve | 0 |
| | Auto Shim | Auto | DIFFUSION | |
| | Phase Correction | Yes | Recon All Images | On |
| | RF Drive Mode | Quadrature (CP) | Multi b-values | 1000.0; |
| | Excitation Mode | Selective | Multi NEX Values | 1.0; |
| | FMRI | | # Synthetic b-values | 1 |
| | PSD Trigger | Internal | Synthetic b-value | 1000.0; |
| | View Order | Bottom/Up | CONTRAST | |
| | # of Repetitions REST | 0 | Contrast Yes/No | No |
| | # of Repetitions ACTIVE | 0 | | |
| | SAT | | | |
| | Tag Type | None | | |
| | TRICKS | | | |
| | Pause On/Off | On | | |
| | Auto Subtract | 0 | | |
| | Auto SCIC | 3 | | |

Short Ax T1 FSE - Short Ax T1 FSE

Protocol: adult_lowerExtremities_MSK - Foot

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|-------------------------|-------------------------|-------------------------|----------------------|----------|
| Sag T1 FSE - Sag T1 FSE | IMAGING PARAMETERS | | SCAN TIMING | |
| | Imaging Mode | 2D | Flip Angle | 111 |
| | Pulse Sequence | FSE-XL | TE | Min Full |
| | Imaging Options | EDR, TRF, Fast, ZIP1024 | Number of Echoes | 1 |
| | SCAN RANGE | | TR | 334.0 |
| | FOV | 20.0 | Echo Train Length | 4 |
| | Slice Thickness | 3.00 | Receiver Bandwidth | 31.25 |
| | Slice Spacing | 0.5 | IMAGE ENHANCE | |
| | Overlap Locations | 0 | Filter Choice | None |
| | Number of Slices | 28 | USER CVS | |
| | ACQ TIMING | | TR Min | 300.0 |
| | Freq | 384 | TR Max | 600.0 |
| | Phase | 288 | User CV30 | 1.00 |
| | Freq DIR | S/I | User CV Mask2 | 0 |
| | Fat Shift DIR | Normal (S) | MULTI-PHASE | |
| | NEX | 3.00 | Seperate Series | 0 |
| | # of Acq. Before Pause | 0 | Mask Phase | 0 |
| | Phase FOV | 1.00 | Mask Pause | 0 |
| | Auto Shim | Auto | Preserve | 0 |
| | Phase Correction | Yes | DIFFUSION | |
| | RF Drive Mode | Optimized | Recon All Images | On |
| | Excitation Mode | Selective | Multi b-values | 1000.0; |
| | FMRI | | Multi NEX Values | 1.0; |
| | PSD Trigger | Internal | # Synthetic b-values | 1 |
| | View Order | Bottom/Up | Synthetic b-value | 1000.0; |
| | # of Repetitions REST | 0 | CONTRAST | |
| | # of Repetitions ACTIVE | 0 | Contrast Yes/No | No |
| | SAT | | | |
| | Tag Type | None | | |
| | TRICKS | | | |
| | Pause On/Off | On | | |
| | Auto Subtract | 0 | | |
| | Auto SCIC | Off | | |
| | | | | |

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| Sag T1 FSE - Sag T1 FSE | |
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IMAGING PARAMETERS

| | |
|-----------------|-------------------------|
| Imaging Mode | 2D |
| Pulse Sequence | FSE-XL |
| Imaging Options | FC, EDR, TRF, Fast, ARC |
| Phase | 1.50 |

SCAN RANGE

| | |
|-------------------|------|
| FOV | 18.0 |
| Slice Thickness | 3.00 |
| Slice Spacing | 0.2 |
| Overlap Locations | 0 |
| Number of Slices | 30 |

ACQ TIMING

| | |
|-----------------------------|------------|
| Freq | 320 |
| Phase | 320 |
| Freq DIR | S/I |
| Fat Shift DIR | Normal (S) |
| NEX | 1.00 |
| Phase FOV | 1.00 |
| Auto Shim | Auto |
| Phase Correction | Yes |
| Flow Direction Compensation | Freq |
| RF Drive Mode | Optimized |
| Excitation Mode | Selective |

FMRI

| | |
|-------------------------|-----------|
| PSD Trigger | Internal |
| View Order | Bottom/Up |
| # of Repetitions REST | 0 |
| # of Repetitions ACTIVE | 0 |

SAT

| | |
|----------------------|-------------|
| Tag Type | None |
| Fat/Water Saturation | Fat Classic |

TRICKS

| | |
|---------------|----|
| Pause On/Off | On |
| Auto Subtract | 0 |
| Auto SCIC | 2 |

SCAN TIMING

| | |
|--------------------|--------|
| Flip Angle | 150 |
| TE | 33.0 |
| Number of Echoes | 1 |
| TR | 1861.0 |
| Echo Train Length | 9 |
| Receiver Bandwidth | 31.25 |

IMAGE ENHANCE

| | |
|---------------|------|
| Filter Choice | None |
|---------------|------|

USER CVS

| | |
|---------------|--------|
| User CV12 | 1.00 |
| User CV19 | 1.00 |
| TR Min | 1500.0 |
| TR Max | 3000.0 |
| User CV30 | 1.00 |
| User CV39 | 1.00 |
| User CV Mask2 | 256 |

MULTI-PHASE

| | |
|-----------------|---|
| Seperate Series | 0 |
| Mask Phase | 0 |
| Mask Pause | 0 |
| Preserve | 0 |

DIFFUSION

| | |
|----------------------|---------|
| Recon All Images | On |
| Multi b-values | 1000.0; |
| Multi NEX Values | 1.0; |
| # Synthetic b-values | 1 |
| Synthetic b-value | 1000.0; |

CONTRAST

| | |
|-----------------|----|
| Contrast Yes/No | No |
|-----------------|----|

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