

Protocol: adult\_upperExtremities\_FINGER MASS

| PATIENT POSITION      |                             | IMAGING PARAMETERS      |             |
|-----------------------|-----------------------------|-------------------------|-------------|
| Patient Entry         | Head First                  | Imaging Mode            | 2D          |
| Patient Position      | Supine                      | Pulse Sequence          | Fiesta      |
| Coil Configuration    | HD T/R Knee Array by Invivo | Imaging Options         | Seq, Fast   |
| Plane                 | 3-PLANE                     | <b>SCAN RANGE</b>       |             |
| Series Description    | 3-Plane Localizer           | FOV                     | 24.0        |
| <b>SCAN TIMING</b>    |                             | Slice Thickness         | 5.0         |
| Flip Angle            | 50                          | Slice Spacing           | 5.0         |
| TE                    | Minimum                     | <b>ACQ TIMING</b>       |             |
| Number of Echoes      | 1                           | Freq                    | 256         |
| Receiver Bandwidth    | 62.50                       | Phase                   | 128         |
| <b>IMAGE ENHANCE</b>  |                             | Freq DIR                | Unswap      |
| Filter Choice         | None                        | NEX                     | 1.00        |
| <b>GATING/TRIGGER</b> |                             | # of Acq. Before Pause  | 0           |
| Auto Trigger Type     | Off                         | Phase FOV               | 1.00        |
| <b>MULTI-PHASE</b>    |                             | Auto Shim               | Auto        |
| Seperate Series       | 0                           | Phase Correction        | No          |
| Mask Phase            | 0                           | <b>FMRI</b>             |             |
| Mask Pause            | 0                           | PSD Trigger             | Internal    |
| <b>DIFFUSION</b>      |                             | Slice Order             | Interleaved |
| Recon All Images      | On                          | View Order              | Bottom/Up   |
| <b>CONTRAST</b>       |                             | # of Repetitions REST   | 0           |
| Contrast Yes/No       | No                          | # of Repetitions ACTIVE | 0           |
|                       |                             | <b>SAT</b>              |             |
|                       |                             | Tag Type                | None        |
|                       |                             | <b>TRICKS</b>           |             |
|                       |                             | Pause On/Off            | On          |
|                       |                             | Auto Subtract           | 0           |
|                       |                             | Auto SCIC               | Off         |

3-Plane Localizer

3-Plane Localizer

Protocol: adult\_upperExtremities\_FINGER MASS

| PATIENT POSITION        |                             | IMAGING PARAMETERS |           |
|-------------------------|-----------------------------|--------------------|-----------|
| Patient Entry           | Head First                  | Imaging Mode       | 2D        |
| Patient Position        | Supine                      | Pulse Sequence     | Spin Echo |
| Coil Configuration      | HD T/R Knee Array by Invivo | Imaging Options    | None      |
| Plane                   | OBLIQUE                     | <b>SCAN RANGE</b>  |           |
| Series Description      | AX T1 SE                    | FOV                | 12.0      |
| <b>SCAN TIMING</b>      |                             | Slice Thickness    | 2.6       |
| TE                      | Min Full                    | Slice Spacing      | 0.2       |
| Number of Echoes        | 1                           | <b>ACQ TIMING</b>  |           |
| TR                      | 540.0                       | Freq               | 320       |
| Receiver Bandwidth      | 27.78                       | Phase              | 224       |
| <b>IMAGE ENHANCE</b>    |                             | Freq DIR           | Unswap    |
| Filter Choice           | None                        | NEX                | 2.00      |
| <b>GATING/TRIGGER</b>   |                             | Phase FOV          | 1.00      |
| Auto Trigger Type       | Off                         | Auto Shim          | Auto      |
| <b>FMRI</b>             |                             | Phase Correction   | No        |
| PSD Trigger             | Internal                    | <b>USER CVS</b>    |           |
| Slice Order             | Interleaved                 | User CV4           | 1.00      |
| View Order              | Bottom/Up                   | TR Min             | 450.0     |
| # of Repetitions REST   | 0                           | TR Max             | 650.0     |
| # of Repetitions ACTIVE | 0                           | <b>MULTI-PHASE</b> |           |
| <b>SAT</b>              |                             | Seperate Series    | 0         |
| SAT Location            | S                           | Mask Phase         | 0         |
| SAT Location            | I                           | Mask Pause         | 0         |
| Tag Type                | None                        | <b>DIFFUSION</b>   |           |
| <b>TRICKS</b>           |                             | Recon All Images   | On        |
| Pause On/Off            | On                          | <b>CONTRAST</b>    |           |
| Auto Subtract           | 0                           | Contrast Yes/No    | No        |
| Auto SCIC               | Off                         |                    |           |

AX T1 SE

AX T1 SE

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| PATIENT POSITION        |                             | IMAGING PARAMETERS |                |
|-------------------------|-----------------------------|--------------------|----------------|
| Patient Entry           | Head First                  | Imaging Mode       | 2D             |
| Patient Position        | Supine                      | Pulse Sequence     | FSE-XL         |
| Coil Configuration      | HD T/R Knee Array by Invivo | Imaging Options    | NPW, TRF, Fast |
| Plane                   | OBLIQUE                     | <b>SCAN RANGE</b>  |                |
| Series Description      | AX PD FSE FS                | FOV                | 12.0           |
| <b>SCAN TIMING</b>      |                             | Slice Thickness    | 2.6            |
| Flip Angle              | 160                         | Slice Spacing      | 0.2            |
| TE                      | Min Full                    | <b>ACQ TIMING</b>  |                |
| Number of Echoes        | 1                           | Freq               | 288            |
| TR                      | 2455.0                      | Phase              | 192            |
| Echo Train Length       | 8                           | Freq DIR           | Unswap         |
| Receiver Bandwidth      | 25.00                       | Fat Shift DIR      | Normal         |
| <b>IMAGE ENHANCE</b>    |                             | NEX                | 4.00           |
| Filter Choice           | None                        | Phase FOV          | 1.00           |
| <b>GATING/TRIGGER</b>   |                             | Auto Shim          | Auto           |
| Auto Trigger Type       | Off                         | Phase Correction   | No             |
| <b>FMRI</b>             |                             | <b>USER CVS</b>    |                |
| PSD Trigger             | Internal                    | User CV19          | 1.00           |
| Slice Order             | Interleaved                 | TR Min             | 2000.0         |
| View Order              | Bottom/Up                   | TR Max             | 4000.0         |
| # of Repetitions REST   | 0                           | <b>MULTI-PHASE</b> |                |
| # of Repetitions ACTIVE | 0                           | Seperate Series    | 0              |
| <b>SAT</b>              |                             | Mask Phase         | 0              |
| SAT Location            | S                           | Mask Pause         | 0              |
| SAT Location            | I                           | <b>DIFFUSION</b>   |                |
| Tag Type                | None                        | Recon All Images   | On             |
| Fat/Water Saturation    | Fat Classic                 | <b>CONTRAST</b>    |                |
| <b>TRICKS</b>           |                             | Contrast Yes/No    | No             |
| Pause On/Off            | On                          |                    |                |
| Auto Subtract           | 0                           |                    |                |
| Auto SCIC               | 2                           |                    |                |

AX PD FSE FS

AX PD FSE FS

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| PATIENT POSITION        |                             | IMAGING PARAMETERS |               |
|-------------------------|-----------------------------|--------------------|---------------|
| Patient Entry           | Head First                  | Imaging Mode       | 2D            |
| Patient Position        | Supine                      | Pulse Sequence     | MERGE         |
| Coil Configuration      | HD T/R Knee Array by Invivo | Imaging Options    | FC, NPW, Fast |
| Plane                   | OBLIQUE                     | <b>SCAN RANGE</b>  |               |
| Series Description      | Ax MERGE                    | FOV                | 12.0          |
| <b>SCAN TIMING</b>      |                             | Slice Thickness    | 2.6           |
| Flip Angle              | 20                          | Slice Spacing      | 0.2           |
| Number of Echoes        | 3                           | <b>ACQ TIMING</b>  |               |
| TR                      | 602.0                       | Freq               | 288           |
| Receiver Bandwidth      | 31.25                       | Phase              | 192           |
| <b>IMAGE ENHANCE</b>    |                             | Freq DIR           | Unswap        |
| Filter Choice           | None                        | NEX                | 2.00          |
| <b>GATING/TRIGGER</b>   |                             | Phase FOV          | 1.00          |
| Auto Trigger Type       | Off                         | Auto Shim          | Auto          |
| <b>FMRI</b>             |                             | Phase Correction   | No            |
| PSD Trigger             | Internal                    | <b>USER CVS</b>    |               |
| Slice Order             | Interleaved                 | TR Min             | 600.0         |
| View Order              | Bottom/Up                   | TR Max             | 15000.0       |
| # of Repetitions REST   | 0                           | <b>MULTI-PHASE</b> |               |
| # of Repetitions ACTIVE | 0                           | Seperate Series    | 0             |
| <b>SAT</b>              |                             | Mask Phase         | 0             |
| Tag Type                | None                        | Mask Pause         | 0             |
| <b>TRICKS</b>           |                             | <b>DIFFUSION</b>   |               |
| Pause On/Off            | On                          | Recon All Images   | On            |
| Auto Subtract           | 0                           | <b>CONTRAST</b>    |               |
| Auto SCIC               | 2                           | Contrast Yes/No    | No            |

Ax MERGE

Ax MERGE

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| PATIENT POSITION      |                             | IMAGING PARAMETERS      |                 |
|-----------------------|-----------------------------|-------------------------|-----------------|
| Patient Entry         | Head First                  | Imaging Mode            | 3D              |
| Patient Position      | Supine                      | Pulse Sequence          | MERGE           |
| Coil Configuration    | HD T/R Knee Array by Invivo | Imaging Options         | EDR, Fast, ZIP2 |
| Plane                 | OBLIQUE                     | <b>SCAN RANGE</b>       |                 |
| Series Description    | 3D Cor/SAG MERGE            | FOV                     | 12.0            |
| <b>SCAN TIMING</b>    |                             | Slice Thickness         | 2.4             |
| Flip Angle            | 5                           | Location per Slab       | 26              |
| TE                    | Min Full                    | Overlap Locations       | 0               |
| Number of Echoes      | 3                           | <b>ACQ TIMING</b>       |                 |
| TR                    | Minimum                     | Freq                    | 288             |
| Receiver Bandwidth    | 31.25                       | Phase                   | 192             |
| <b>IMAGE ENHANCE</b>  |                             | Freq DIR                | Unswap          |
| Filter Choice         | None                        | Phase FOV               | 1.00            |
| <b>GATING/TRIGGER</b> |                             | Auto Shim               | Auto            |
| Auto Trigger Type     | Off                         | Phase Correction        | No              |
| <b>MULTI-PHASE</b>    |                             | <b>FMRI</b>             |                 |
| Seperate Series       | 0                           | PSD Trigger             | Internal        |
| Mask Phase            | 0                           | Slice Order             | Interleaved     |
| Mask Pause            | 0                           | View Order              | Bottom/Up       |
| <b>DIFFUSION</b>      |                             | # of Repetitions REST   | 0               |
| Recon All Images      | On                          | # of Repetitions ACTIVE | 0               |
| <b>CONTRAST</b>       |                             | <b>SAT</b>              |                 |
| Contrast Yes/No       | No                          | Tag Type                | None            |
|                       |                             | Fat/Water Saturation    | Fat             |
|                       |                             | <b>TRICKS</b>           |                 |
|                       |                             | Pause On/Off            | On              |
|                       |                             | Auto Subtract           | 0               |
|                       |                             | Auto SCIC               | 2               |

3D Cor/SAG MERGE

3D Cor/SAG MERGE

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| PATIENT POSITION        |                             | IMAGING PARAMETERS |           |
|-------------------------|-----------------------------|--------------------|-----------|
| Patient Entry           | Head First                  | Imaging Mode       | 2D        |
| Patient Position        | Supine                      | Pulse Sequence     | Spin Echo |
| Coil Configuration      | HD T/R Knee Array by Invivo | Imaging Options    | None      |
| Plane                   | OBLIQUE                     | <b>SCAN RANGE</b>  |           |
| Series Description      | COR T1 SE                   | FOV                | 12.0      |
| <b>SCAN TIMING</b>      |                             | Slice Thickness    | 2.6       |
| TE                      | Min Full                    | Slice Spacing      | 0.2       |
| Number of Echoes        | 1                           | <b>ACQ TIMING</b>  |           |
| TR                      | 540.0                       | Freq               | 320       |
| Receiver Bandwidth      | 27.78                       | Phase              | 224       |
| <b>IMAGE ENHANCE</b>    |                             | Freq DIR           | Unswap    |
| Filter Choice           | None                        | NEX                | 2.00      |
| <b>GATING/TRIGGER</b>   |                             | Phase FOV          | 1.00      |
| Auto Trigger Type       | Off                         | Auto Shim          | Auto      |
| <b>FMRI</b>             |                             | Phase Correction   | No        |
| PSD Trigger             | Internal                    | <b>USER CVS</b>    |           |
| Slice Order             | Interleaved                 | User CV4           | 1.00      |
| View Order              | Bottom/Up                   | TR Min             | 450.0     |
| # of Repetitions REST   | 0                           | TR Max             | 650.0     |
| # of Repetitions ACTIVE | 0                           | <b>MULTI-PHASE</b> |           |
| <b>SAT</b>              |                             | Seperate Series    | 0         |
| SAT Location            | S                           | Mask Phase         | 0         |
| SAT Location            | I                           | Mask Pause         | 0         |
| Tag Type                | None                        | <b>DIFFUSION</b>   |           |
| <b>TRICKS</b>           |                             | Recon All Images   | On        |
| Pause On/Off            | On                          | <b>CONTRAST</b>    |           |
| Auto Subtract           | 0                           | Contrast Yes/No    | No        |
| Auto SCIC               | Off                         |                    |           |

COR T1 SE

COR T1 SE

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| PATIENT POSITION        |                          | IMAGING PARAMETERS          |                         |
|-------------------------|--------------------------|-----------------------------|-------------------------|
| Patient Entry           | Head First               | Imaging Mode                | 2D                      |
| Patient Position        | Supine                   | Pulse Sequence              | FSE-XL                  |
| Coil Configuration      | HD Wrist Array by Invivo | Imaging Options             | FC, Seq, TRF, Fast, IrP |
| Plane                   | OBLIQUE                  | PSD Name                    | fse-xl                  |
| Series Description      | Cor STIR                 | <b>SCAN RANGE</b>           |                         |
| <b>SCAN TIMING</b>      |                          | FOV                         | 12.0                    |
| Flip Angle              | 160                      | Slice Thickness             | 2.6                     |
| TE                      | 42.0                     | Slice Spacing               | 0.2                     |
| Number of Echoes        | 1                        | <b>ACQ TIMING</b>           |                         |
| TR                      | 3800.0                   | Freq                        | 288                     |
| TI                      | 110                      | Phase                       | 160                     |
| Echo Train Length       | 6                        | Freq DIR                    | Unswap                  |
| Receiver Bandwidth      | 20.83                    | Fat Shift DIR               | Normal                  |
| <b>IMAGE ENHANCE</b>    |                          | NEX                         | 2.00                    |
| Filter Choice           | None                     | Phase FOV                   | 1.00                    |
| <b>GATING/TRIGGER</b>   |                          | Auto Shim                   | Auto                    |
| Auto Trigger Type       | Off                      | Phase Correction            | No                      |
| <b>FMRI</b>             |                          | Flow Direction Compensation | Slice                   |
| PSD Trigger             | Internal                 | <b>USER CVS</b>             |                         |
| Slice Order             | Interleaved              | TR Min                      | 3000.0                  |
| View Order              | Bottom/Up                | TR Max                      | 5000.0                  |
| # of Repetitions REST   | 0                        | <b>MULTI-PHASE</b>          |                         |
| # of Repetitions ACTIVE | 0                        | Seperate Series             | 0                       |
| <b>SAT</b>              |                          | Mask Phase                  | 0                       |
| SAT Location            | S                        | Mask Pause                  | 0                       |
| SAT Location            | I                        | <b>DIFFUSION</b>            |                         |
| Tag Type                | None                     | Recon All Images            | On                      |
| <b>TRICKS</b>           |                          | <b>CONTRAST</b>             |                         |
| Pause On/Off            | On                       | Contrast Yes/No             | No                      |
| Auto Subtract           | 0                        |                             |                         |
| Auto SCIC               | Off                      |                             |                         |

Cor STIR

Cor STIR

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| PATIENT POSITION        |                          | IMAGING PARAMETERS |           |
|-------------------------|--------------------------|--------------------|-----------|
| Patient Entry           | Head First               | Imaging Mode       | 2D        |
| Patient Position        | Supine                   | Pulse Sequence     | Spin Echo |
| Coil Configuration      | HD Wrist Array by Invivo | Imaging Options    | None      |
| Plane                   | OBLIQUE                  | <b>SCAN RANGE</b>  |           |
| Series Description      | SAG T1 SE                | FOV                | 12.0      |
| <b>SCAN TIMING</b>      |                          | Slice Thickness    | 2.6       |
| TE                      | Min Full                 | Slice Spacing      | 0.2       |
| Number of Echoes        | 1                        | <b>ACQ TIMING</b>  |           |
| TR                      | 540.0                    | Freq               | 320       |
| Receiver Bandwidth      | 27.78                    | Phase              | 224       |
| <b>IMAGE ENHANCE</b>    |                          | Freq DIR           | Unswap    |
| Filter Choice           | None                     | NEX                | 2.00      |
| <b>GATING/TRIGGER</b>   |                          | Phase FOV          | 1.00      |
| Auto Trigger Type       | Off                      | Auto Shim          | Auto      |
| <b>FMRI</b>             |                          | Phase Correction   | No        |
| PSD Trigger             | Internal                 | <b>USER CVS</b>    |           |
| Slice Order             | Interleaved              | User CV4           | 1.00      |
| View Order              | Bottom/Up                | TR Min             | 450.0     |
| # of Repetitions REST   | 0                        | TR Max             | 650.0     |
| # of Repetitions ACTIVE | 0                        | <b>MULTI-PHASE</b> |           |
| <b>SAT</b>              |                          | Seperate Series    | 0         |
| SAT Location            | S                        | Mask Phase         | 0         |
| SAT Location            | I                        | Mask Pause         | 0         |
| Tag Type                | None                     | <b>DIFFUSION</b>   |           |
| <b>TRICKS</b>           |                          | Recon All Images   | On        |
| Pause On/Off            | On                       | <b>CONTRAST</b>    |           |
| Auto Subtract           | 0                        | Contrast Yes/No    | No        |
| Auto SCIC               | Off                      |                    |           |

SAG T1 SE

SAG T1 SE

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| PATIENT POSITION        |                          | IMAGING PARAMETERS          |                         |
|-------------------------|--------------------------|-----------------------------|-------------------------|
| Patient Entry           | Head First               | Imaging Mode                | 2D                      |
| Patient Position        | Supine                   | Pulse Sequence              | FSE-XL                  |
| Coil Configuration      | HD Wrist Array by Invivo | Imaging Options             | FC, Seq, TRF, Fast, IrP |
| Plane                   | OBLIQUE                  | PSD Name                    | fse-xl                  |
| Series Description      | SAG STIR                 | <b>SCAN RANGE</b>           |                         |
| <b>SCAN TIMING</b>      |                          | FOV                         | 12.0                    |
| Flip Angle              | 160                      | Slice Thickness             | 2.6                     |
| TE                      | 42.0                     | Slice Spacing               | 0.2                     |
| Number of Echoes        | 1                        | <b>ACQ TIMING</b>           |                         |
| TR                      | 3800.0                   | Freq                        | 288                     |
| TI                      | 110                      | Phase                       | 160                     |
| Echo Train Length       | 6                        | Freq DIR                    | Unswap                  |
| Receiver Bandwidth      | 20.83                    | Fat Shift DIR               | Normal                  |
| <b>IMAGE ENHANCE</b>    |                          | NEX                         | 2.00                    |
| Filter Choice           | None                     | Phase FOV                   | 1.00                    |
| <b>GATING/TRIGGER</b>   |                          | Auto Shim                   | Auto                    |
| Auto Trigger Type       | Off                      | Phase Correction            | No                      |
| <b>FMRI</b>             |                          | Flow Direction Compensation | Slice                   |
| PSD Trigger             | Internal                 | <b>USER CVS</b>             |                         |
| Slice Order             | Interleaved              | TR Min                      | 3000.0                  |
| View Order              | Bottom/Up                | TR Max                      | 5000.0                  |
| # of Repetitions REST   | 0                        | <b>MULTI-PHASE</b>          |                         |
| # of Repetitions ACTIVE | 0                        | Seperate Series             | 0                       |
| <b>SAT</b>              |                          | Mask Phase                  | 0                       |
| SAT Location            | S                        | Mask Pause                  | 0                       |
| SAT Location            | I                        | <b>DIFFUSION</b>            |                         |
| Tag Type                | None                     | Recon All Images            | On                      |
| <b>TRICKS</b>           |                          | <b>CONTRAST</b>             |                         |
| Pause On/Off            | On                       | Contrast Yes/No             | No                      |
| Auto Subtract           | 0                        |                             |                         |
| Auto SCIC               | Off                      |                             |                         |

SAG STIR

SAG STIR

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| PATIENT POSITION        |                             | IMAGING PARAMETERS |           |
|-------------------------|-----------------------------|--------------------|-----------|
| Patient Entry           | Head First                  | Imaging Mode       | 2D        |
| Patient Position        | Supine                      | Pulse Sequence     | Spin Echo |
| Coil Configuration      | HD T/R Knee Array by Invivo | Imaging Options    | None      |
| Plane                   | OBLIQUE                     | <b>SCAN RANGE</b>  |           |
| Series Description      | AX T1 SE FS                 | FOV                | 12.0      |
| <b>SCAN TIMING</b>      |                             | Slice Thickness    | 2.6       |
| TE                      | Min Full                    | Slice Spacing      | 0.2       |
| Number of Echoes        | 1                           | <b>ACQ TIMING</b>  |           |
| TR                      | 450.0                       | Freq               | 320       |
| Receiver Bandwidth      | 27.78                       | Phase              | 224       |
| <b>IMAGE ENHANCE</b>    |                             | Freq DIR           | Unswap    |
| Filter Choice           | None                        | NEX                | 2.00      |
| <b>GATING/TRIGGER</b>   |                             | Phase FOV          | 1.00      |
| Auto Trigger Type       | Off                         | Auto Shim          | Auto      |
| <b>FMRI</b>             |                             | Phase Correction   | No        |
| PSD Trigger             | Internal                    | <b>USER CVS</b>    |           |
| Slice Order             | Interleaved                 | User CV4           | 1.00      |
| View Order              | Bottom/Up                   | TR Min             | 450.0     |
| # of Repetitions REST   | 0                           | TR Max             | 650.0     |
| # of Repetitions ACTIVE | 0                           | <b>MULTI-PHASE</b> |           |
| <b>SAT</b>              |                             | Seperate Series    | 0         |
| SAT Location            | S                           | Mask Phase         | 0         |
| SAT Location            | I                           | Mask Pause         | 0         |
| Tag Type                | None                        | <b>DIFFUSION</b>   |           |
| Fat/Water Saturation    | Fat                         | Recon All Images   | On        |
| <b>TRICKS</b>           |                             | <b>CONTRAST</b>    |           |
| Pause On/Off            | On                          | Contrast Yes/No    | No        |
| Auto Subtract           | 0                           |                    |           |
| Auto SCIC               | Off                         |                    |           |

AX T1 SE FS

AX T1 SE FS

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| PATIENT POSITION        |                                       | IMAGING PARAMETERS     |           |
|-------------------------|---------------------------------------|------------------------|-----------|
| Patient Entry           | Head First                            | Imaging Mode           | 2D        |
| Patient Position        | Supine                                | Pulse Sequence         | Spin Echo |
| Coil Configuration      | HD 8Ch High Res Brain Array by Invivo | Imaging Options        | Fast, SS  |
| Plane                   | OBLIQUE                               | <b>SCAN RANGE</b>      |           |
| Series Description      | ---CONTRAST---                        | FOV                    | 22.0      |
| <b>SCAN TIMING</b>      |                                       | Slice Thickness        | 5.0       |
| TE                      | Minimum                               | Slice Spacing          | 1.0       |
| TR                      | Minimum                               | <b>ACQ TIMING</b>      |           |
| Receiver Bandwidth      | 83.33                                 | Freq                   | 128       |
| <b>IMAGE ENHANCE</b>    |                                       | Phase                  | 128       |
| Filter Choice           | None                                  | Freq DIR               | A/P       |
| <b>GATING/TRIGGER</b>   |                                       | NEX                    | 1.0       |
| Auto Trigger Type       | Off                                   | # of Acq. Before Pause | 0         |
| <b>FMRI</b>             |                                       | Phase FOV              | 1.00      |
| PSD Trigger             | Internal                              | Auto Shim              | Auto      |
| Slice Order             | Interleaved                           | Phase Correction       | No        |
| View Order              | Bottom/Up                             | <b>USER CVS</b>        |           |
| # of Repetitions REST   | 0                                     | User CV2               | 240.00    |
| # of Repetitions ACTIVE | 0                                     | User CV13              | 1.00      |
| <b>SAT</b>              |                                       | TR Min                 | 0.0       |
| Tag Type                | None                                  | TR Max                 | 0.0       |
| <b>TRICKS</b>           |                                       | <b>MULTI-PHASE</b>     |           |
| Pause On/Off            | On                                    | Seperate Series        | 0         |
| Auto Subtract           | 0                                     | Mask Phase             | 0         |
| Auto SCIC               | Off                                   | Mask Pause             | 0         |
|                         |                                       | <b>DIFFUSION</b>       |           |
|                         |                                       | Recon All Images       | On        |
|                         |                                       | <b>CONTRAST</b>        |           |
|                         |                                       | Contrast Yes/No        | No        |

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| PATIENT POSITION        |                             | IMAGING PARAMETERS |           |
|-------------------------|-----------------------------|--------------------|-----------|
| Patient Entry           | Head First                  | Imaging Mode       | 2D        |
| Patient Position        | Supine                      | Pulse Sequence     | Spin Echo |
| Coil Configuration      | HD T/R Knee Array by Invivo | Imaging Options    | None      |
| Plane                   | OBLIQUE                     | <b>SCAN RANGE</b>  |           |
| Series Description      | +C AX T1 FS                 | FOV                | 12.0      |
| <b>SCAN TIMING</b>      |                             | Slice Thickness    | 2.6       |
| TE                      | Min Full                    | Slice Spacing      | 0.2       |
| Number of Echoes        | 1                           | <b>ACQ TIMING</b>  |           |
| TR                      | 450.0                       | Freq               | 320       |
| Receiver Bandwidth      | 27.78                       | Phase              | 224       |
| <b>IMAGE ENHANCE</b>    |                             | Freq DIR           | Unswap    |
| Filter Choice           | None                        | NEX                | 2.00      |
| <b>GATING/TRIGGER</b>   |                             | Phase FOV          | 1.00      |
| Auto Trigger Type       | Off                         | Auto Shim          | Auto      |
| <b>FMRI</b>             |                             | Phase Correction   | No        |
| PSD Trigger             | Internal                    | <b>USER CVS</b>    |           |
| Slice Order             | Interleaved                 | User CV4           | 1.00      |
| View Order              | Bottom/Up                   | TR Min             | 450.0     |
| # of Repetitions REST   | 0                           | TR Max             | 650.0     |
| # of Repetitions ACTIVE | 0                           | <b>MULTI-PHASE</b> |           |
| <b>SAT</b>              |                             | Seperate Series    | 0         |
| SAT Location            | S                           | Mask Phase         | 0         |
| SAT Location            | I                           | Mask Pause         | 0         |
| Tag Type                | None                        | <b>DIFFUSION</b>   |           |
| Fat/Water Saturation    | Fat                         | Recon All Images   | On        |
| <b>TRICKS</b>           |                             | <b>CONTRAST</b>    |           |
| Pause On/Off            | On                          | Contrast Yes/No    | Yes       |
| Auto Subtract           | 0                           |                    |           |
| Auto SCIC               | Off                         |                    |           |

+C AX T1 FS

+C AX T1 FS

Protocol: adult\_upperExtremities\_FINGER MASS

| PATIENT POSITION        |                             | IMAGING PARAMETERS |           |
|-------------------------|-----------------------------|--------------------|-----------|
| Patient Entry           | Head First                  | Imaging Mode       | 2D        |
| Patient Position        | Supine                      | Pulse Sequence     | Spin Echo |
| Coil Configuration      | HD T/R Knee Array by Invivo | Imaging Options    | None      |
| Plane                   | OBLIQUE                     | <b>SCAN RANGE</b>  |           |
| Series Description      | +C COR T1 FS                | FOV                | 12.0      |
| <b>SCAN TIMING</b>      |                             | Slice Thickness    | 2.6       |
| TE                      | Min Full                    | Slice Spacing      | 0.2       |
| Number of Echoes        | 1                           | <b>ACQ TIMING</b>  |           |
| TR                      | 450.0                       | Freq               | 320       |
| Receiver Bandwidth      | 27.78                       | Phase              | 224       |
| <b>IMAGE ENHANCE</b>    |                             | Freq DIR           | Unswap    |
| Filter Choice           | None                        | NEX                | 2.00      |
| <b>GATING/TRIGGER</b>   |                             | Phase FOV          | 1.00      |
| Auto Trigger Type       | Off                         | Auto Shim          | Auto      |
| <b>FMRI</b>             |                             | Phase Correction   | No        |
| PSD Trigger             | Internal                    | <b>USER CVS</b>    |           |
| Slice Order             | Interleaved                 | User CV4           | 1.00      |
| View Order              | Bottom/Up                   | TR Min             | 450.0     |
| # of Repetitions REST   | 0                           | TR Max             | 650.0     |
| # of Repetitions ACTIVE | 0                           | <b>MULTI-PHASE</b> |           |
| <b>SAT</b>              |                             | Seperate Series    | 0         |
| SAT Location            | S                           | Mask Phase         | 0         |
| SAT Location            | I                           | Mask Pause         | 0         |
| Tag Type                | None                        | <b>DIFFUSION</b>   |           |
| Fat/Water Saturation    | Fat                         | Recon All Images   | On        |
| <b>TRICKS</b>           |                             | <b>CONTRAST</b>    |           |
| Pause On/Off            | On                          | Contrast Yes/No    | Yes       |
| Auto Subtract           | 0                           |                    |           |
| Auto SCIC               | Off                         |                    |           |

+C COR T1 FS

+C COR T1 FS

Protocol: adult\_upperExtremities\_FINGER MASS

| PATIENT POSITION        |                          | IMAGING PARAMETERS |           |
|-------------------------|--------------------------|--------------------|-----------|
| Patient Entry           | Head First               | Imaging Mode       | 2D        |
| Patient Position        | Supine                   | Pulse Sequence     | Spin Echo |
| Coil Configuration      | HD Wrist Array by Invivo | Imaging Options    | None      |
| Plane                   | OBLIQUE                  | <b>SCAN RANGE</b>  |           |
| Series Description      | +C SAG T1 FS             | FOV                | 12.0      |
| <b>SCAN TIMING</b>      |                          | Slice Thickness    | 2.6       |
| TE                      | Min Full                 | Slice Spacing      | 0.2       |
| Number of Echoes        | 1                        | <b>ACQ TIMING</b>  |           |
| TR                      | 450.0                    | Freq               | 320       |
| Receiver Bandwidth      | 27.78                    | Phase              | 224       |
| <b>IMAGE ENHANCE</b>    |                          | Freq DIR           | Unswap    |
| Filter Choice           | None                     | NEX                | 2.00      |
| <b>GATING/TRIGGER</b>   |                          | Phase FOV          | 1.00      |
| Auto Trigger Type       | Off                      | Auto Shim          | Auto      |
| <b>FMRI</b>             |                          | Phase Correction   | No        |
| PSD Trigger             | Internal                 | <b>USER CVS</b>    |           |
| Slice Order             | Interleaved              | User CV4           | 1.00      |
| View Order              | Bottom/Up                | TR Min             | 450.0     |
| # of Repetitions REST   | 0                        | TR Max             | 650.0     |
| # of Repetitions ACTIVE | 0                        | <b>MULTI-PHASE</b> |           |
| <b>SAT</b>              |                          | Seperate Series    | 0         |
| SAT Location            | S                        | Mask Phase         | 0         |
| SAT Location            | I                        | Mask Pause         | 0         |
| Tag Type                | None                     | <b>DIFFUSION</b>   |           |
| Fat/Water Saturation    | Fat                      | Recon All Images   | On        |
| <b>TRICKS</b>           |                          | <b>CONTRAST</b>    |           |
| Pause On/Off            | On                       | Contrast Yes/No    | Yes       |
| Auto Subtract           | 0                        |                    |           |
| Auto SCIC               | Off                      |                    |           |

+C SAG T1 FS

+C SAG T1 FS