|                                       |                      | " addit_apporExtromition |
|---------------------------------------|----------------------|--------------------------|
|                                       | IMAGING PARAMETERS   |                          |
|                                       | Imaging Mode         | 2D                       |
|                                       | Pulse Sequence       | Gradient Echo            |
|                                       | Imaging Options      | Seq, Fast                |
|                                       | SCAN RANGE           |                          |
|                                       | FOV                  | 28.0                     |
|                                       | Slice Thickness      | 5.00                     |
|                                       | Slice Spacing        | 5.0                      |
|                                       | Overlap Locations    | 0                        |
|                                       | ACQ TIMING           |                          |
|                                       | Freq                 | 256                      |
|                                       | Phase                | 128                      |
|                                       | Freq DIR             | Unswap                   |
| jht                                   | NEX                  | 1.00                     |
| Rig                                   | Phase FOV            | 1.00                     |
| 0C                                    | Auto Shim            | Auto                     |
| e L                                   | Phase Correction     | No                       |
| lan                                   | RF Drive Mode        | Optimized                |
| 3-Р                                   | Excitation Mode      | Selective                |
| 3-Plane Loc Right - 3-Plane Loc Right | USER CVS             |                          |
| Rigl                                  | User CV20            | 1.00                     |
| ၁င                                    | User CV Mask2        | 0                        |
| e<br>Ľ                                | MULTI-PHASE          |                          |
| lan                                   | Seperate Series      | 0                        |
| 3-Е                                   | 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                       |
|                                       |                      |                          |

| _MSK - Wrist                     |           |                                       |
|----------------------------------|-----------|---------------------------------------|
| SCAN TIMING                      |           |                                       |
| Number of Echoes                 | 1         |                                       |
| IMAGE ENHANCE                    |           |                                       |
| Filter Choice                    | None      |                                       |
| GATING/TRIGGER                   |           |                                       |
| Pause After Navigator<br>Prescan | 0         |                                       |
| FMRI                             |           |                                       |
| PSD Trigger                      | Internal  |                                       |
| View Order                       | Bottom/Up |                                       |
| # of Repetitions REST            | 0         |                                       |
| # of Repetitions ACTIVE          | 0         |                                       |
| SAT                              |           | t                                     |
| Tag Type                         | None      | 3-Plane Loc Right - 3-Plane Loc Right |
| TRICKS                           |           | SC F                                  |
| Pause On/Off                     | On        | F                                     |
| Auto Subtract                    | 0         | ane                                   |
| Auto SCIC                        | Off       | 굨                                     |
|                                  |           | - 3                                   |
|                                  |           | ght                                   |
|                                  |           | 密                                     |
|                                  |           | 9                                     |
|                                  |           | Je l                                  |
|                                  |           | Jar                                   |
|                                  |           | 3-F                                   |
|                                  |           |                                       |
|                                  |           |                                       |
|                                  |           |                                       |
|                                  |           |                                       |
|                                  |           |                                       |

|                                       | IMAGING PARAMETERS   |               |
|---------------------------------------|----------------------|---------------|
| 3-Plane Loc Right - 3-Plane Loc Right | Imaging Mode         | 2D            |
|                                       | Pulse Sequence       | Gradient Echo |
|                                       | Imaging Options      | Seq, Fast     |
|                                       | SCAN RANGE           |               |
|                                       | FOV                  | 28.0          |
|                                       | Slice Thickness      | 5.00          |
|                                       | Slice Spacing        | 5.0           |
|                                       | Overlap Locations    | 0             |
|                                       | ACQ TIMING           |               |
|                                       | Freq                 | 256           |
|                                       | Phase                | 128           |
|                                       | Freq DIR             | Unswap        |
| ght                                   | NEX                  | 1.00          |
| Riç                                   | Phase FOV            | 1.00          |
| ၁၀                                    | Auto Shim            | Auto          |
| Je L                                  | Phase Correction     | No            |
| lar                                   | RF Drive Mode        | Optimized     |
| 3-Е                                   | Excitation Mode      | Selective     |
| ht -                                  | USER CVS             |               |
| ٦igا                                  | User CV20            | 1.00          |
| 00                                    | User CV Mask2        | 0             |
| e L                                   | MULTI-PHASE          |               |
| lan                                   | Seperate Series      | 0             |
| 3-Е                                   | 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            |
|                                       |                      |               |

| _N | 1SK - Wrist                      |           |                                       |
|----|----------------------------------|-----------|---------------------------------------|
| ,  | SCAN TIMING                      |           |                                       |
| ī  | Number of Echoes                 | 1         |                                       |
| ı  | MAGE ENHANCE                     |           |                                       |
| ı  | Filter Choice                    | None      |                                       |
| (  | GATING/TRIGGER                   |           |                                       |
|    | Pause After Navigator<br>Prescan | 0         |                                       |
| ı  | FMRI                             |           |                                       |
|    | PSD Trigger                      | Internal  |                                       |
|    | View Order                       | Bottom/Up |                                       |
|    | # of Repetitions REST            | 0         |                                       |
| 1  | # of Repetitions ACTIVE          | 0         |                                       |
| •  | SAT                              |           | <b>.</b>                              |
| -  | Гад Туре                         | None      | 3-Plane Loc Right - 3-Plane Loc Right |
| -  | TRICKS                           |           | SC R                                  |
| ı  | Pause On/Off                     | On        | F                                     |
|    | Auto Subtract                    | 0         | ane                                   |
| -  | Auto SCIC                        | Off       | <u>-</u>                              |
|    |                                  |           |                                       |
|    |                                  |           | ght                                   |
|    |                                  |           | <u>a</u>                              |
|    |                                  |           | Γρ                                    |
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|    |                                  |           | ج.                                    |
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|    |                                  |           |                                       |

|                                       | IMAGING PARAMETERS   |               |
|---------------------------------------|----------------------|---------------|
|                                       | Imaging Mode         | 2D            |
|                                       | Pulse Sequence       | Gradient Echo |
|                                       | Imaging Options      | Seq, Fast     |
|                                       | SCAN RANGE           |               |
|                                       | FOV                  | 27.0          |
|                                       | Slice Thickness      | 5.00          |
|                                       | Slice Spacing        | 5.0           |
|                                       | Overlap Locations    | 0             |
|                                       | ACQ TIMING           |               |
|                                       | Freq                 | 256           |
|                                       | Phase                | 128           |
| >                                     | Freq DIR             | Unswap        |
| oj -                                  | NEX                  | 1.00          |
| ALI                                   | Phase FOV            | 1.00          |
| SM                                    | Auto Shim            | Auto          |
| Ö                                     | Phase Correction     | No            |
| 77                                    | RF Drive Mode        | Optimized     |
| 3PL                                   | Excitation Mode      | Selective     |
| 9                                     | USER CVS             |               |
| fov                                   | User CV20            | 1.00          |
| 7                                     | User CV Mask2        | 0             |
| 3PL LOC SMALL fov - 3PL LOC SMALL fov | MULTI-PHASE          |               |
| SO                                    | Seperate Series      | 0             |
| ĺΩ                                    | Mask Phase           | 0             |
| Ы                                     | Mask Pause           | 0             |
| 3                                     | 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            |
|                                       |                      |               |

| <u>_</u> | MSK - Wrist                      |           |                                       |
|----------|----------------------------------|-----------|---------------------------------------|
|          | SCAN TIMING                      |           |                                       |
|          | Number of Echoes                 | 1         |                                       |
|          | IMAGE ENHANCE                    |           |                                       |
|          | Filter Choice                    | None      |                                       |
|          | GATING/TRIGGER                   |           |                                       |
|          | Pause After Navigator<br>Prescan | 0         |                                       |
|          | FMRI                             |           |                                       |
|          | PSD Trigger                      | Internal  |                                       |
|          | View Order                       | Bottom/Up |                                       |
|          | # of Repetitions REST            | 0         |                                       |
|          | # of Repetitions ACTIVE          | 0         |                                       |
|          | SAT                              |           | 8                                     |
|          | Tag Type                         | None      | 3PL LOC SMALL fov - 3PL LOC SMALL fov |
|          | TRICKS                           |           | MA                                    |
|          | Pause On/Off                     | On        | S                                     |
|          | Auto Subtract                    | 0         | ŏ                                     |
|          | Auto SCIC                        | Off       | 7                                     |
|          |                                  |           | . 3                                   |
|          |                                  |           | ·<br>                                 |
|          |                                  |           |                                       |
|          |                                  |           | AL                                    |
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|          |                                  |           | ĭ                                     |
|          |                                  |           | 3FL                                   |
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|-------------------------------------|-------------------------|-------------------------|----------------------|---------------|------------------|
|                                     | IMAGING PARAMETERS      |                         | SCAN TIMING          |               |                  |
|                                     | Imaging Mode            | 2D                      | Flip Angle           | 142           |                  |
|                                     | Pulse Sequence          | FSE-XL                  | TE                   | Min Full      |                  |
|                                     | Imaging Options         | EDR, TRF, Fast, ZIP1024 | Number of Echoes     | 1             |                  |
|                                     | SCAN RANGE              |                         | TR                   | <i>4</i> 26.0 |                  |
|                                     | FOV                     | 10.0                    | Echo Train Length    | 4             |                  |
|                                     | Slice Thickness         | 2.00                    | Receiver Bandwidth   | 62.50         |                  |
|                                     | Slice Spacing           | 0.2                     | IMAGE ENHANCE        |               |                  |
|                                     | Overlap Locations       | 0                       | Filter Choice        | None          |                  |
|                                     | Number of Slices        | 25                      | USER CVS             |               |                  |
|                                     | ACQ TIMING              |                         | TR Min               | 300.0         |                  |
| E                                   | Freq                    | 512                     | TR Max               | 600.0         | T1               |
| OR                                  | Phase                   | 448                     | User CV30            | 1.00          | OR               |
| $\circ$                             | Freq DIR                | S/I                     | User CV Mask2        | 0             | 1 C              |
| ARDL HIGH COR T1 - ARDL HIGH COR T1 | Fat Shift DIR           | Normal (I)              | MULTI-PHASE          |               | G                |
| 苦                                   | NEX                     | 1.00                    | Seperate Series      | 0             | - ARDL HIGH COR  |
| RD.                                 | Phase FOV               | 1.00                    | Mask Phase           | 0             | RD               |
| - A                                 | Auto Shim               | Auto                    | Mask Pause           | 0             | - A              |
| 드                                   | Phase Correction        | Yes                     | Preserve             | 0             | T1               |
| K.                                  | RF Drive Mode           | Optimized               | DIFFUSION            |               | JR.              |
| 8                                   | Excitation Mode         | Selective               | Recon All Images     | On            | ARDL HIGH COR T1 |
| 표                                   | FMRI                    |                         | # Synthetic b-values | 1             | GH               |
| 主                                   | PSD Trigger             | Internal                | Synthetic b-value    | 1000.0;       | 主                |
| 占                                   | View Order              | Bottom/Up               | CONTRAST             |               |                  |
| AR                                  | # of Repetitions REST   | 0                       | Contrast Yes/No      | No            | AR               |
|                                     | # of Repetitions ACTIVE | 0                       | oonaast 100/110      | 710           |                  |
|                                     | SAT                     |                         |                      |               |                  |
|                                     | Тад Туре                | None                    |                      |               |                  |
|                                     | TRICKS                  |                         |                      |               |                  |
|                                     | Pause On/Off            | On                      |                      |               |                  |
|                                     | Auto Subtract           | 0                       |                      |               |                  |
|                                     | Auto SCIC               | 3                       |                      |               |                  |

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|-------------------|-------------------------|---------------------|---------------------------|---------|-----------------|
|                   | IMAGING PARAMETERS      |                     | SCAN TIMING               |         |                 |
|                   | Imaging Mode            | 2D                  | Flip Angle                | 142     |                 |
|                   | Pulse Sequence          | FSE-XL              | TE                        | 35.0    |                 |
|                   | Imaging Options         | EDR, TRF, Fast, FR  | Number of Echoes          | 1       |                 |
|                   | SCAN RANGE              |                     | TR                        | 2500.0  |                 |
|                   | FOV                     | 10.0                | Echo Train Length         | 8       |                 |
|                   | Slice Thickness         | 2.00                | Receiver Bandwidth        | 41.67   |                 |
|                   | Slice Spacing           | 0.2                 | IMAGE ENHANCE             |         |                 |
|                   | Overlap Locations       | 0                   | Filter Choice             | None    |                 |
|                   | Number of Slices        | 25                  | USER CVS                  |         |                 |
|                   | ACQ TIMING              |                     | User CV19                 | 1.00    | (0              |
| FS                | Freq                    | 288                 | User CV21                 | 1.00    | FS              |
| PD                | Phase                   | 288                 | TR Min                    | 2500.0  | PD              |
| SR                | Freq DIR                | S/I                 | TR Max                    | 4000.0  | COR             |
| ö                 | Fat Shift DIR           | Normal (I)          | User CV30                 | 1.00    | 8               |
| 品                 | NEX                     | 1.50                | User CV Mask2             | 256     | ED              |
| FS - ARDL MED COR | Phase FOV               | 1.00                | MULTI-PHASE               |         | FS - ARDL MED   |
| 3D                | Auto Shim               | Auto                | Seperate Series           | 0       | 3DI             |
| - A               | Phase Correction        | Yes                 | Mask Phase                | 0       | - Al            |
| လ                 | RF Drive Mode           | Optimized           | Mask Pause                | 0       | S               |
| D                 | Excitation Mode         | Selective           | Preserve                  | 0       | J Q             |
| ARDL MED COR PD   | FMRI                    |                     | DIFFUSION                 |         | ARDL MED COR PD |
| Ö                 | PSD Trigger             | Internal            | Recon All Images          | On      | 20              |
| 0                 | View Order              | Bottom/Up           | # Synthetic b-values      | 1       | ) (             |
| ME                | # of Repetitions REST   | 0                   | Synthetic b-value         | 1000.0; | ME              |
| Ы                 | # of Repetitions ACTIVE | 0                   | CONTRAST                  | ,       | DF              |
| AR                | SAT                     |                     | CONTRAST  Contrast Yes/No | No      | AR              |
|                   | Tag Type                | None                | Contrast res/No           | 140     |                 |
|                   | Fat/Water Saturation    | Fat Classic         |                           |         |                 |
|                   | TRICKS                  |                     |                           |         |                 |
|                   | Pause On/Off            | On                  |                           |         |                 |
|                   | Auto Subtract           | 0                   |                           |         |                 |
|                   | Auto SCIC               | 3                   |                           |         |                 |
|                   |                         |                     |                           |         |                 |

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|------------------|-------------------------|-----------------|----------------------|---------|------------------|
|                  | IMAGING PARAMETERS      |                 | SCAN TIMING          |         |                  |
|                  | Imaging Mode            | 2D              | Flip Angle           | 142     |                  |
|                  | Pulse Sequence          | FSE-XL          | TE                   | 35.0    |                  |
|                  | Imaging Options         | TRF, Fast, FR   | Number of Echoes     | 1       |                  |
|                  | SCAN RANGE              |                 | TR                   | 3187.0  |                  |
|                  | FOV                     | 10.0            | Echo Train Length    | 9       |                  |
|                  | Slice Thickness         | 2.00            | Receiver Bandwidth   | 41.67   |                  |
|                  | Slice Spacing           | 0.2             | IMAGE ENHANCE        |         |                  |
|                  | Overlap Locations       | 0               | Filter Choice        | None    |                  |
|                  | Number of Slices        | 30              | USER CVS             |         |                  |
|                  | ACQ TIMING              |                 | User CV19            | 1.00    |                  |
| FS               | Freq                    | 320             | TR Min               | 2000.0  | FS               |
| PD F             | Phase                   | 288             | TR Max               | 3500.0  | PD F             |
| ж<br>С           | Freq DIR                | R/L             | User CV30            | 1.00    | хР               |
| A                | Fat Shift DIR           | Normal (L)      | User CV Mask2        | 1024    | FS - ARDL MED Ax |
| FS - ARDL MED Ax | NEX                     | 1.50            | MULTI-PHASE          |         |                  |
| ٦                | Phase FOV               | 1.00            | Seperate Series      | 0       |                  |
| RD               | Auto Shim               | Auto            | Mask Phase           | 0       |                  |
| ٠.               | Phase Correction        | Yes             | Mask Pause           | 0       |                  |
| FS               | RF Drive Mode           | Optimized       | Preserve             | 0       | FS               |
| PD               | Excitation Mode         | Selective       | DIFFUSION            |         | PD               |
| Ax               | FMRI                    |                 | Recon All Images     | On      | ٩x١              |
| D/               | PSD Trigger             | Internal        | # Synthetic b-values | 1       | / Q              |
| M                | View Order              | Bottom/Up       | Synthetic b-value    | 1000.0; | ME               |
| Ы                | # of Repetitions REST   | 0               |                      | 7000.0, | DL               |
| ARDL MED         | # of Repetitions ACTIVE | 0               | CONTRAST             | A.I     | ARDL MED Ax PD   |
|                  | SAT                     |                 | Contrast Yes/No      | No      | ,                |
|                  | Tag Type                | None            |                      |         |                  |
|                  | Fat/Water Saturation    | Fat Classic     |                      |         |                  |
|                  | TRICKS                  |                 |                      |         |                  |
|                  | Pause On/Off            | On              |                      |         |                  |
|                  | Auto Subtract           | 0               |                      |         |                  |
|                  | Auto SCIC               | 3               |                      |         |                  |
|                  |                         |                 |                      |         |                  |

| SCAN TIMING                   |
|-------------------------------|
| Flip Angle                    |
| TE                            |
| Number of Echoes              |
| TR                            |
| Echo Train Length             |
| Receiver Bandwidth            |
| IMAGE ENHANCE                 |
| Filter Choice                 |
| USER CVS                      |
| User CV19                     |
| User CV21                     |
| TR Min                        |
| TR Max                        |
| User CV30                     |
| User CV Mask2                 |
| MULTI-PHASE                   |
|                               |
| Seperate Series<br>Mask Phase |
| Mask Pause                    |
|                               |
| Preserve                      |
| DIFFUSION                     |
| Recon All Images              |
| # Synthetic b-values          |
| Synthetic b-value             |
| TRACKER                       |
| Tracker Length                |
| Tracker Thickness             |
|                               |
|                               |
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| I                             |
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|                         | IMAGING PARAMETERS   |           | SCAN TIMING             |   |
|-------------------------|----------------------|-----------|-------------------------|---|
|                         | Imaging Mode         | 3D        | Flip Angle              | 2   |
|                         | Pulse Sequence       | SPGR      | Number of Echoes        | 1   |
|                         | Imaging Options      | Fast, SqP | Receiver Bandwidth      | 50.00   |
|                         | PSD Name             | ozteo     | IMAGE ENHANCE           |   |
|                         | SCAN RANGE           |           | Filter Choice           | None  |
|                         | FOV                  | 15.0      | GATING/TRIGGER          |   |
|                         | Slice Thickness      | 1.50      | Pause After Navigator   | 0   |
|                         | Overlap Locations    | 0         | Prescan                 |   |
| 4)                      | Number of Slices     | 1         | FMRI                    |   |
| Small FOV MR Bone       | ACQ TIMING           |           | PSD Trigger             | Internal  |
| S B                     | Freq                 | 200       | View Order              | Bottom/Up   |
| Σ                       | Freq DIR             | S/I       | # of Repetitions REST   | 0   |
| 0                       | NEX                  | 8.00      | # of Repetitions ACTIVE | 0   |
| <u> </u>                | Auto Shim            | Auto      | SAT                     | L<br>=  |
| ma                      | Phase Correction     | No        | Тад Туре                | None  |
| S                       | RF Drive Mode        | Optimized | TRICKS                  | S   |
| COR                     | Excitation Mode      | Selective | Pause On/Off            | On  |
| ) - 6                   | Spokes Per Segment   | 384       | Auto Subtract           | 0   |
| one                     | USER CVS             |           | Auto SCIC               | 3   |
| COR Small FOV MR Bone - | User CV Mask2        | 0         |                         | Internal Bottom/Up 0 0 None On 0 3  |
| ₹                       | MULTI-PHASE          |           |                         | <b>E</b>  |
| Ó                       | Seperate Series      | 0         |                         | Õ   |
| ᇤ                       | Mask Phase           | 0         |                         | <u> </u>  |
| me                      | Mask Pause           | 0         |                         | e La Caracia de |
| 8                       | Preserve             | 0         |                         | <i>S</i>  |
| 8                       | DIFFUSION            |           |                         | 8   |
|                         | Recon All Images     | On        |                         |   |
|                         | # Synthetic b-values | 1         |                         |   |
|                         | Synthetic b-value    | 1000.0;   |                         |   |
|                         | CONTRAST             |           |                         |   |
|                         | Contrast Yes/No      | No        |                         |   |
|                         |                      |           |                         |   |