

# HAND THUMB FINGERS SIGNA Artist

## Technical Instructions

Midline 3pl Loc

opt:Fast GRE COR LOC

opt:Fast GRE AX LOC

Ax T2 fat DL

Sag T2 fat DL

Cor STIR DL

Ax T1 DL

Sag T1 DL

Cor T1 DL

--Tumor ONLY--

Pre Ax T1 Fat DL

--thin--

Sag T1 DL

Sag T2 Fat DL

Cor T1 DL

Cor STIR DL

--contrast--

+C Ax T1 DL Fat

+C Cor T1 DL Fat

+C Sag T1 DL Fat

# Midline 3pl Loc

Details tab

Protocol notes

## Midline 3pl Loc

### PATIENT POSITION

Coil Configuration:Neo16chFlexS

Plane:3-PLANE

### IMAGING PARAMETERS

Imaging Mode:2D

Imaging Options:Seq, EDR, TRF, Fast, SS, ARC

Pulse Sequence:Spin Echo

ARC Phase:2.00

### Image Recon

Recon DL Strength:Off

Intensity Correction:NONE

Intensity Filter:None

Save Original:Off

### SCAN RANGE

FOV:28.0

Slice Thickness:5.00

Slice Spacing:8.0

Overlap Locations:0

No Phase Wrap:2.00

## **ACQ TIMING**

|                         |                 |
|-------------------------|-----------------|
| Acq Voxel Size:         | 1.1 X 1.3 X 5.0 |
| Freq:                   | 256             |
| Phase:                  | 224             |
| Freq DIR:               | Unswap          |
| # of Acq. Before Pause: | 0               |
| Phase FOV:              | 1.00            |
| Auto Shim:              | Auto            |
| Phase Correct:          | Off             |
| RF Drive Mode:          | Quadrature      |
| Excitation Mode:        | Selective       |

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## **SCAN TIMING**

|                     |         |
|---------------------|---------|
| TE:                 | Minimum |
| Number of Echoes:   | 1       |
| TR:                 | Minimum |
| Receiver Bandwidth: | 83.33   |

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## **CONTRAST**

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

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## **OTHERS**

|                    |      |
|--------------------|------|
| Anatomical Region: | Hand |
|--------------------|------|

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## **USER CVS**

|           |      |
|-----------|------|
| User CV1: | 1.00 |
|-----------|------|

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# opt:Fast GRE COR LOC

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## opt:Fast GRE COR LOC

### PATIENT POSITION

|                     |              |
|---------------------|--------------|
| Coil Configuration: | Neo16chFlexS |
| Plane:              | OBLIQUE      |

### IMAGING PARAMETERS

|                  |               |
|------------------|---------------|
| Imaging Mode:    | 2D            |
| Imaging Options: | Fast          |
| Pulse Sequence:  | Gradient Echo |

### Image Recon

|                       |      |
|-----------------------|------|
| Intensity Correction: | NONE |
| Intensity Filter:     | None |

### SCAN RANGE

|                   |      |
|-------------------|------|
| FOV:              | 14.0 |
| Slice Thickness:  | 5.0  |
| Slice Spacing:    | 1.0  |
| Number of Slices: | 8    |
| No Phase Wrap:    | 1.00 |

### ACQ TIMING

|                 |                 |
|-----------------|-----------------|
| Acq Voxel Size: | 1.1 X 1.1 X 5.0 |
|-----------------|-----------------|

|                         |            |
|-------------------------|------------|
| <b>Freq:</b>            | <b>128</b> |
| Phase:                  | 128        |
| Freq DIR:               | S/I        |
| NEX:                    | 1.00       |
| # of Acq. Before Pause: | 0          |
| Phase FOV:              | 1.00       |
| Auto Shim:              | Auto       |
| Phase Correct:          | Off        |
| RF Drive Mode:          | Quadrature |
| Excitation Mode:        | Selective  |

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## SCAN TIMING

|                     |         |
|---------------------|---------|
| Flip Angle:         | 20      |
| TE:                 | Minimum |
| Number of Echoes:   | 1       |
| TR:                 | 34.0    |
| Receiver Bandwidth: | 31.25   |

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## CONTRAST

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

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## OTHERS

|                    |      |
|--------------------|------|
| Anatomical Region: | Hand |
|--------------------|------|

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## GATING/TRIGGER

|                                |     |
|--------------------------------|-----|
| Auto Trigger Type:             | Off |
| Pause After Navigator Prescan: | 0   |

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# opt:Fast GRE AX LOC

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## opt:Fast GRE AX LOC

### PATIENT POSITION

|                     |              |
|---------------------|--------------|
| Coil Configuration: | Neo16chFlexS |
| Plane:              | OBLIQUE      |

### IMAGING PARAMETERS

|                  |               |
|------------------|---------------|
| Imaging Mode:    | 2D            |
| Imaging Options: | Fast          |
| Pulse Sequence:  | Gradient Echo |

### Image Recon

|                       |      |
|-----------------------|------|
| Intensity Correction: | NONE |
| Intensity Filter:     | None |

### SCAN RANGE

|                   |      |
|-------------------|------|
| FOV:              | 14.0 |
| Slice Thickness:  | 5.0  |
| Slice Spacing:    | 1.0  |
| Number of Slices: | 20   |
| No Phase Wrap:    | 1.00 |

### ACQ TIMING

|                 |                 |
|-----------------|-----------------|
| Acq Voxel Size: | 1.1 X 1.1 X 5.0 |
|-----------------|-----------------|

|                         |            |
|-------------------------|------------|
| <b>Freq:</b>            | <b>128</b> |
| Phase:                  | 128        |
| Freq DIR:               | A/P        |
| NEX:                    | 1.00       |
| # of Acq. Before Pause: | 0          |
| Phase FOV:              | 1.00       |
| Auto Shim:              | Auto       |
| Phase Correct:          | Off        |
| RF Drive Mode:          | Quadrature |
| Excitation Mode:        | Selective  |

---

## SCAN TIMING

|                     |         |
|---------------------|---------|
| Flip Angle:         | 20      |
| TE:                 | Minimum |
| Number of Echoes:   | 1       |
| TR:                 | 34.0    |
| Receiver Bandwidth: | 31.25   |

---

## CONTRAST

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

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## OTHERS

|                    |      |
|--------------------|------|
| Anatomical Region: | Hand |
|--------------------|------|

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## GATING/TRIGGER

|                                |     |
|--------------------------------|-----|
| Auto Trigger Type:             | Off |
| Pause After Navigator Prescan: | 0   |

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# Ax T2 fat DL

Details tab

Protocol notes

## Ax T2 fat DL

### PATIENT POSITION

Coil Configuration: Neo16chFlexS

Plane: OBLIQUE

### IMAGING PARAMETERS

Imaging Mode: 2D

Imaging Options: FC, EDR, TRF, Fast, ZIP512, ARC

Pulse Sequence: FSE-XL

ARC Phase: 1.25

### Image Recon

Recon DL Strength: Medium

Intensity Correction: PURE

Intensity Filter: None

Save Original: Off

### SCAN RANGE

FOV: 14.0

Slice Thickness: 3.00

Slice Spacing: 1.0

Overlap Locations: 0

Number of Slices: 34



***No Phase Wrap:***

***1.00***

---

**ACQ TIMING**

|                      |                 |
|----------------------|-----------------|
| Acq Voxel Size:      | 0.5 X 0.5 X 3.0 |
| Freq:                | 288             |
| Phase:               | 256             |
| Freq DIR:            | R/L             |
| NEX:                 | 2.00            |
| Phase FOV:           | 0.70            |
| Auto Shim:           | Auto            |
| Phase Correct:       | Off             |
| Flow Comp Direction: | Slice           |
| RF Drive Mode:       | Quadrature      |
| Excitation Mode:     | Selective       |
| Fat Shift DIR:       | Normal (L)      |

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**SCAN TIMING**

|                     |        |
|---------------------|--------|
| Flip Angle:         | 160.0  |
| TE:                 | 68.0   |
| Number of Echoes:   | 1      |
| TR:                 | 3444.0 |
| Echo Train Length:  | 8      |
| Receiver Bandwidth: | 41.67  |

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**CONTRAST**

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

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**OTHERS**

**Anatomical Region:****Hand****SAT**

Fat/Water Saturation:

Fat

**USER CVS**

User CV6:

None

User CV7:

None

User CV13:

None

User CV15:

None

User CV16:

None

User CV18:

None

User CV19:

1.00

User CV21:

None

User CV26:

1.00

TR Min:

3000.0

TR Max:

10000.0

**Non-Viewable Parameters**

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# Sag T2 fat DL

Details tab

Protocol notes

## Sag T2 fat DL

### PATIENT POSITION

|                     |              |
|---------------------|--------------|
| Coil Configuration: | Neo16chFlexS |
| Plane:              | OBLIQUE      |

### IMAGING PARAMETERS

|                  |                                 |
|------------------|---------------------------------|
| Imaging Mode:    | 2D                              |
| Imaging Options: | FC, EDR, TRF, Fast, ZIP512, ARC |
| Pulse Sequence:  | FSE-XL                          |
| ARC Phase:       | 1.25                            |

### Image Recon

|                       |        |
|-----------------------|--------|
| Recon DL Strength:    | Medium |
| Intensity Correction: | PURE   |
| Intensity Filter:     | None   |
| Save Original:        | Off    |

### SCAN RANGE

|                    |      |
|--------------------|------|
| FOV:               | 14.0 |
| Slice Thickness:   | 3.00 |
| Slice Spacing:     | 1.0  |
| Overlap Locations: | 0    |
| Number of Slices:  | 26   |

***No Phase Wrap:***

***1.00***

---

**ACQ TIMING**

|                      |                 |
|----------------------|-----------------|
| Acq Voxel Size:      | 0.5 X 0.5 X 3.0 |
| Freq:                | 288             |
| Phase:               | 256             |
| Freq DIR:            | S/I             |
| NEX:                 | 2.00            |
| Phase FOV:           | 0.70            |
| Auto Shim:           | Auto            |
| Phase Correct:       | On              |
| Flow Comp Direction: | Slice           |
| RF Drive Mode:       | Quadrature      |
| Excitation Mode:     | Selective       |
| Fat Shift DIR:       | Normal (S)      |

---

**SCAN TIMING**

|                     |        |
|---------------------|--------|
| Flip Angle:         | 160.0  |
| TE:                 | 68.0   |
| Number of Echoes:   | 1      |
| TR:                 | 2800.0 |
| Echo Train Length:  | 8      |
| Receiver Bandwidth: | 41.67  |

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**CONTRAST**

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

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**OTHERS**

**Anatomical Region:****Hand****SAT**

Fat/Water Saturation:

Fat

**USER CVS**

User CV6:

None

User CV7:

None

User CV13:

None

User CV15:

None

User CV16:

None

User CV18:

None

User CV19:

1.00

User CV21:

None

User CV26:

1.00

**Non-Viewable Parameters**

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# Cor STIR DL

Details tab

Protocol notes

## Cor STIR DL

### PATIENT POSITION

|                     |              |
|---------------------|--------------|
| Coil Configuration: | Neo16chFlexS |
| Plane:              | OBLIQUE      |

### IMAGING PARAMETERS

|                  |                                  |
|------------------|----------------------------------|
| Imaging Mode:    | 2D                               |
| Imaging Options: | Seq, EDR, Fast, ZIP512, ARC, IrP |
| Pulse Sequence:  | FSE-XL                           |
| ARC Phase:       | 1.50                             |

### Image Recon

|                       |        |
|-----------------------|--------|
| Recon DL Strength:    | Medium |
| Intensity Correction: | PURE   |
| Intensity Filter:     | None   |
| Save Original:        | Off    |

### SCAN RANGE

|                    |      |
|--------------------|------|
| FOV:               | 14.0 |
| Slice Thickness:   | 3.00 |
| Slice Spacing:     | 0.2  |
| Overlap Locations: | 0    |
| Number of Slices:  | 15   |

***No Phase Wrap:***

***2.00***

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**ACQ TIMING**

|                         |                 |
|-------------------------|-----------------|
| Acq Voxel Size:         | 0.5 X 0.6 X 3.0 |
| Freq:                   | 288             |
| Phase:                  | 224             |
| Freq DIR:               | S/I             |
| NEX:                    | 1.00            |
| # of Acq. Before Pause: | 0               |
| Phase FOV:              | 1.00            |
| Auto Shim:              | Auto            |
| Phase Correct:          | Off             |
| RF Drive Mode:          | Quadrature      |
| Excitation Mode:        | Selective       |
| Fat Shift DIR:          | Normal (I)      |

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**SCAN TIMING**

|                     |        |
|---------------------|--------|
| Flip Angle:         | 180.0  |
| TE:                 | 44.0   |
| Number of Echoes:   | 1      |
| TR:                 | 3400.0 |
| TI:                 | 160    |
| Echo Train Length:  | 8      |
| Receiver Bandwidth: | 41.67  |

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**CONTRAST**

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

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**OTHERS**

|                    |      |
|--------------------|------|
| Anatomical Region: | Hand |
|--------------------|------|

**USER CVS**

|            |      |
|------------|------|
| User CV9:  | None |
| User CV15: | None |
| User CV18: | None |
| User CV21: | 1.00 |
| User CV26: | 1.00 |

|                         |   |
|-------------------------|---|
| Non-Viewable Parameters | ñ |
|-------------------------|---|



# Ax T1 DL

Details tab

Protocol notes

## Ax T1 DL

### PATIENT POSITION

|                     |              |
|---------------------|--------------|
| Coil Configuration: | Neo16chFlexS |
| Plane:              | OBLIQUE      |

### IMAGING PARAMETERS

|                  |                             |
|------------------|-----------------------------|
| Imaging Mode:    | 2D                          |
| Imaging Options: | EDR, TRF, Fast, ZIP512, ARC |
| Pulse Sequence:  | FSE-XL                      |
| ARC Phase:       | 1.50                        |

### Image Recon

|                       |        |
|-----------------------|--------|
| Recon DL Strength:    | Medium |
| Intensity Correction: | PURE   |
| Intensity Filter:     | None   |
| Save Original:        | Off    |

### SCAN RANGE

|                    |      |
|--------------------|------|
| FOV:               | 14.0 |
| Slice Thickness:   | 3.00 |
| Slice Spacing:     | 1.0  |
| Overlap Locations: | 0    |
| Number of Slices:  | 34   |

***No Phase Wrap:***

***1.00***

---

## **ACQ TIMING**

|                         |                 |
|-------------------------|-----------------|
| Acq Voxel Size:         | 0.5 X 0.5 X 3.0 |
| Freq:                   | 288             |
| Phase:                  | 256             |
| Freq DIR:               | R/L             |
| NEX:                    | 1.00            |
| # of Acq. Before Pause: | 0               |
| Phase FOV:              | 0.70            |
| Auto Shim:              | Auto            |
| Phase Correct:          | Off             |
| RF Drive Mode:          | Quadrature      |
| Excitation Mode:        | Selective       |
| Fat Shift DIR:          | Normal (L)      |

---

## **SCAN TIMING**

|                     |       |
|---------------------|-------|
| Flip Angle:         | 160.0 |
| TE:                 | 20.0  |
| Number of Echoes:   | 1     |
| TR:                 | 600.0 |
| Echo Train Length:  | 4     |
| Receiver Bandwidth: | 41.67 |

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## **CONTRAST**

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

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## **OTHERS**

**Anatomical Region:** **Hand**

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**USER CVS**

|            |      |
|------------|------|
| User CV6:  | None |
| User CV9:  | None |
| User CV15: | None |
| User CV16: | None |
| User CV18: | None |
| User CV21: | None |
| User CV26: | 1.00 |

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**Non-Viewable Parameters** ñ

# Sag T1 DL

Details tab

Protocol notes

## Sag T1 DL

### PATIENT POSITION

|                     |              |
|---------------------|--------------|
| Coil Configuration: | Neo16chFlexS |
| Plane:              | SAGITTAL     |

### IMAGING PARAMETERS

|                  |                                 |
|------------------|---------------------------------|
| Imaging Mode:    | 2D                              |
| Imaging Options: | FC, EDR, TRF, Fast, ZIP512, ARC |
| Pulse Sequence:  | FSE-XL                          |
| ARC Phase:       | 1.50                            |

### Image Recon

|                       |        |
|-----------------------|--------|
| Recon DL Strength:    | Medium |
| Intensity Correction: | PURE   |
| Intensity Filter:     | None   |
| Save Original:        | Off    |

### SCAN RANGE

|                    |      |
|--------------------|------|
| FOV:               | 14.0 |
| Slice Thickness:   | 3.00 |
| Slice Spacing:     | 1.0  |
| Overlap Locations: | 0    |
| No Phase Wrap:     | 1.00 |

## **ACQ TIMING**

|                      |                 |
|----------------------|-----------------|
| Acq Voxel Size:      | 0.5 X 0.5 X 3.0 |
| Freq:                | 288             |
| Phase:               | 256             |
| Freq DIR:            | S/I             |
| NEX:                 | 1.00            |
| Phase FOV:           | 0.70            |
| Auto Shim:           | Auto            |
| Phase Correct:       | Off             |
| Flow Comp Direction: | Freq            |
| RF Drive Mode:       | Quadrature      |
| Excitation Mode:     | Selective       |
| Fat Shift DIR:       | Normal (S)      |

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## **SCAN TIMING**

|                     |       |
|---------------------|-------|
| Flip Angle:         | 160.0 |
| TE:                 | 20.0  |
| Number of Echoes:   | 1     |
| TR:                 | 701.0 |
| Echo Train Length:  | 4     |
| Receiver Bandwidth: | 41.67 |

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## **CONTRAST**

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

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## **OTHERS**

|                    |      |
|--------------------|------|
| Anatomical Region: | Hand |
|--------------------|------|

***USER CVS***

|            |      |
|------------|------|
| User CV6:  | None |
| User CV15: | None |
| User CV16: | None |
| User CV18: | None |
| User CV21: | None |
| User CV26: | 1.00 |

**Non-Viewable Parameters**

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# Cor T1 DL

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Protocol notes

## Cor T1 DL

### PATIENT POSITION

|                     |              |
|---------------------|--------------|
| Coil Configuration: | Neo16chFlexS |
| Plane:              | OBLIQUE      |

### IMAGING PARAMETERS

|                  |                             |
|------------------|-----------------------------|
| Imaging Mode:    | 2D                          |
| Imaging Options: | EDR, TRF, Fast, ZIP512, ARC |
| Pulse Sequence:  | FSE-XL                      |
| ARC Phase:       | 1.50                        |

### Image Recon

|                       |        |
|-----------------------|--------|
| Recon DL Strength:    | Medium |
| Intensity Correction: | PURE   |
| Intensity Filter:     | None   |
| Save Original:        | Off    |

### SCAN RANGE

|                    |      |
|--------------------|------|
| FOV:               | 14.0 |
| Slice Thickness:   | 3.00 |
| Slice Spacing:     | 0.2  |
| Overlap Locations: | 0    |
| Number of Slices:  | 15   |

***No Phase Wrap:***

***2.00***

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**ACQ TIMING**

|                         |                 |
|-------------------------|-----------------|
| Acq Voxel Size:         | 0.5 X 0.5 X 3.0 |
| Freq:                   | 288             |
| Phase:                  | 256             |
| Freq DIR:               | S/I             |
| NEX:                    | 1.00            |
| # of Acq. Before Pause: | 0               |
| Phase FOV:              | 1.00            |
| Auto Shim:              | Auto            |
| Phase Correct:          | Off             |
| RF Drive Mode:          | Quadrature      |
| Excitation Mode:        | Selective       |
| Fat Shift DIR:          | Normal (I)      |

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**SCAN TIMING**

|                     |       |
|---------------------|-------|
| Flip Angle:         | 160.0 |
| TE:                 | 20.0  |
| Number of Echoes:   | 1     |
| TR:                 | 555.0 |
| Echo Train Length:  | 4     |
| Receiver Bandwidth: | 41.67 |

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**CONTRAST**

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

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**OTHERS**



**Anatomical Region:** **Hand**

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**USER CVS**

|            |      |
|------------|------|
| User CV6:  | None |
| User CV9:  | None |
| User CV15: | None |
| User CV16: | None |
| User CV18: | None |
| User CV21: | None |
| User CV26: | 1.00 |

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**Non-Viewable Parameters** ñ

--Tumor ONLY--

Details tab

Protocol notes

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--Tumor ONLY--

PATIENT POSITION

|                     |              |
|---------------------|--------------|
| Coil Configuration: | Neo16chFlexS |
| Plane:              | 3-PLANE      |

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IMAGING PARAMETERS

|                  |               |
|------------------|---------------|
| Imaging Mode:    | 2D            |
| Imaging Options: | Seq, Fast     |
| Pulse Sequence:  | Gradient Echo |

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Image Recon

|                       |      |
|-----------------------|------|
| Intensity Correction: | NONE |
| Intensity Filter:     | None |

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SCAN RANGE

|                  |      |
|------------------|------|
| FOV:             | 20.0 |
| Slice Thickness: | 4.0  |
| Slice Spacing:   | 5.0  |
| No Phase Wrap:   | 1.00 |

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ACQ TIMING

|                 |                 |
|-----------------|-----------------|
| Acq Voxel Size: | 0.8 X 1.6 X 4.0 |
| Freq:           | 256             |

|                |            |
|----------------|------------|
| <b>Phase:</b>  | <b>128</b> |
| Freq DIR:      | Unswap     |
| NEX:           | 1.00       |
| Phase FOV:     | 1.00       |
| Auto Shim:     | Auto       |
| Phase Correct: | Off        |

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## CONTRAST

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

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## OTHERS

|                    |      |
|--------------------|------|
| Anatomical Region: | Hand |
|--------------------|------|

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## GATING/TRIGGER

|                    |     |
|--------------------|-----|
| Auto Trigger Type: | Off |
|--------------------|-----|

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## USER CVS

|         |   |
|---------|---|
| TR Min: | - |
| TR Max: | - |

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## Non-Viewable Parameters

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# Pre Ax T1 Fat DL

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Protocol notes

## Pre Ax T1 Fat DL

### PATIENT POSITION

Coil Configuration:Neo16chFlexS

Plane:OBLIQUE

### IMAGING PARAMETERS

Imaging Mode:2D

Imaging Options:EDR, TRF, Fast, ZIP512, ARC

Pulse Sequence:FSE-XL

ARC Phase:1.50

### Image Recon

Recon DL Strength:Medium

Intensity Correction:PURE

Intensity Filter:None

Save Original:Off

### SCAN RANGE

FOV:14.0

Slice Thickness:3.00

Slice Spacing:1.0

Overlap Locations:0

Number of Slices:34

***No Phase Wrap:***

***1.00***

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## **ACQ TIMING**

|                         |                 |
|-------------------------|-----------------|
| Acq Voxel Size:         | 0.5 X 0.5 X 3.0 |
| Freq:                   | 288             |
| Phase:                  | 256             |
| Freq DIR:               | R/L             |
| NEX:                    | 1.00            |
| # of Acq. Before Pause: | 0               |
| Phase FOV:              | 0.70            |
| Auto Shim:              | Auto            |
| Phase Correct:          | Off             |
| RF Drive Mode:          | Quadrature      |
| Excitation Mode:        | Selective       |
| Fat Shift DIR:          | Normal (L)      |

---

## **SCAN TIMING**

|                     |       |
|---------------------|-------|
| Flip Angle:         | 160.0 |
| TE:                 | 20.0  |
| Number of Echoes:   | 1     |
| TR:                 | 600.0 |
| Echo Train Length:  | 4     |
| Receiver Bandwidth: | 41.67 |

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## **CONTRAST**

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

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## **OTHERS**

**Anatomical Region:****Hand**

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**SAT**

Fat/Water Saturation:

Fat

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**USER CVS**

User CV6:

None

User CV9:

None

User CV13:

None

User CV15:

None

User CV16:

None

User CV18:

None

User CV19:

1.00

User CV21:

None

User CV26:

1.00

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**Non-Viewable Parameters**

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PATIENT POSITION

|                     |              |
|---------------------|--------------|
| Coil Configuration: | Neo16chFlexS |
| Plane:              | 3-PLANE      |

IMAGING PARAMETERS

|                  |               |
|------------------|---------------|
| Imaging Mode:    | 2D            |
| Imaging Options: | Seq, Fast     |
| Pulse Sequence:  | Gradient Echo |

Image Recon

|                       |      |
|-----------------------|------|
| Intensity Correction: | NONE |
| Intensity Filter:     | None |

SCAN RANGE

|                  |      |
|------------------|------|
| FOV:             | 20.0 |
| Slice Thickness: | 4.0  |
| Slice Spacing:   | 5.0  |
| No Phase Wrap:   | 1.00 |

ACQ TIMING

|                 |                 |
|-----------------|-----------------|
| Acq Voxel Size: | 0.8 X 1.6 X 4.0 |
| Freq:           | 256             |

|                |            |
|----------------|------------|
| <b>Phase:</b>  | <b>128</b> |
| Freq DIR:      | Unswap     |
| NEX:           | 1.00       |
| Phase FOV:     | 1.00       |
| Auto Shim:     | Auto       |
| Phase Correct: | Off        |

---

## CONTRAST

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

---

## OTHERS

|                    |      |
|--------------------|------|
| Anatomical Region: | Hand |
|--------------------|------|

---

## GATING/TRIGGER

|                    |     |
|--------------------|-----|
| Auto Trigger Type: | Off |
|--------------------|-----|

---

## USER CVS

|         |   |
|---------|---|
| TR Min: | - |
| TR Max: | - |

---

## Non-Viewable Parameters

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# Sag T1 DL

Details tab

Protocol notes

## Sag T1 DL

### PATIENT POSITION

|                     |              |
|---------------------|--------------|
| Coil Configuration: | Neo16chFlexS |
| Plane:              | SAGITTAL     |

### IMAGING PARAMETERS

|                  |                       |
|------------------|-----------------------|
| Imaging Mode:    | 2D                    |
| Imaging Options: | FC, TRF, Fast, ZIP512 |
| Pulse Sequence:  | FSE-XL                |

### Image Recon

|                       |        |
|-----------------------|--------|
| Recon DL Strength:    | Medium |
| Intensity Correction: | NONE   |
| Intensity Filter:     | None   |
| Save Original:        | Off    |

### SCAN RANGE

|                    |      |
|--------------------|------|
| FOV:               | 14.0 |
| Slice Thickness:   | 2.00 |
| Slice Spacing:     | 0.2  |
| Overlap Locations: | 0    |
| No Phase Wrap:     | 1.00 |

## **ACQ TIMING**

|                      |                 |
|----------------------|-----------------|
| Acq Voxel Size:      | 0.5 X 0.5 X 2.0 |
| Freq:                | 288             |
| Phase:               | 256             |
| Freq DIR:            | S/I             |
| NEX:                 | 1.00            |
| Phase FOV:           | 0.70            |
| Auto Shim:           | Auto            |
| Phase Correct:       | Off             |
| Flow Comp Direction: | Freq            |
| RF Drive Mode:       | Quadrature      |
| Excitation Mode:     | Selective       |
| Fat Shift DIR:       | Normal (S)      |

---

## **SCAN TIMING**

|                     |       |
|---------------------|-------|
| Flip Angle:         | 160.0 |
| TE:                 | 20.0  |
| Number of Echoes:   | 1     |
| TR:                 | 701.0 |
| Echo Train Length:  | 4     |
| Receiver Bandwidth: | 41.67 |

---

## **CONTRAST**

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

---

## **OTHERS**

|                    |      |
|--------------------|------|
| Anatomical Region: | Hand |
|--------------------|------|

---

***USER CVS***

|            |      |
|------------|------|
| User CV6:  | None |
| User CV15: | None |
| User CV16: | None |
| User CV18: | None |
| User CV21: | None |
| User CV26: | 1.00 |

**Non-Viewable Parameters**

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# Sag T2 Fat DL

Details tab

Protocol notes

## Sag T2 Fat DL

### PATIENT POSITION

|                     |              |
|---------------------|--------------|
| Coil Configuration: | Neo16chFlexS |
| Plane:              | OBLIQUE      |

### IMAGING PARAMETERS

|                  |                       |
|------------------|-----------------------|
| Imaging Mode:    | 2D                    |
| Imaging Options: | FC, TRF, Fast, ZIP512 |
| Pulse Sequence:  | FSE-XL                |

### Image Recon

|                       |        |
|-----------------------|--------|
| Recon DL Strength:    | Medium |
| Intensity Correction: | PURE   |
| Intensity Filter:     | None   |
| Save Original:        | Off    |

### SCAN RANGE

|                    |      |
|--------------------|------|
| FOV:               | 14.0 |
| Slice Thickness:   | 2.00 |
| Slice Spacing:     | 0.2  |
| Overlap Locations: | 0    |
| Number of Slices:  | 46   |
| No Phase Wrap:     | 1.00 |

## **ACQ TIMING**

|                         |                 |
|-------------------------|-----------------|
| Acq Voxel Size:         | 0.5 X 0.5 X 2.0 |
| Freq:                   | 288             |
| Phase:                  | 256             |
| Freq DIR:               | S/I             |
| NEX:                    | 1.00            |
| # of Acq. Before Pause: | 0               |
| Phase FOV:              | 0.70            |
| Auto Shim:              | Auto            |
| Phase Correct:          | Off             |
| Flow Comp Direction:    | Freq            |
| RF Drive Mode:          | Quadrature      |
| Excitation Mode:        | Selective       |
| Fat Shift DIR:          | Normal (S)      |

---

## **SCAN TIMING**

|                     |        |
|---------------------|--------|
| Flip Angle:         | 160.0  |
| TE:                 | 68.0   |
| Number of Echoes:   | 1      |
| TR:                 | 2800.0 |
| Echo Train Length:  | 6      |
| Receiver Bandwidth: | 41.67  |

---

## **CONTRAST**

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

---

## **OTHERS**

|                    |      |
|--------------------|------|
| Anatomical Region: | Hand |
|--------------------|------|

**SAT**

|                       |     |
|-----------------------|-----|
| Fat/Water Saturation: | Fat |
|-----------------------|-----|

**USER CVS**

|            |      |
|------------|------|
| User CV6:  | None |
| User CV13: | None |
| User CV15: | None |
| User CV16: | None |
| User CV18: | None |
| User CV19: | 1.00 |
| User CV21: | None |
| User CV26: | 1.00 |

|                         |   |
|-------------------------|---|
| Non-Viewable Parameters | ñ |
|-------------------------|---|

# Cor T1 DL

Details tab

Protocol notes

## Cor T1 DL

### PATIENT POSITION

Coil Configuration:

Neo16chFlexS

Plane:

OBLIQUE

### IMAGING PARAMETERS

Imaging Mode:

2D

Imaging Options:

TRF, Fast, ZIP512

Pulse Sequence:

FSE-XL

### Image Recon

Recon DL Strength:

Medium

Intensity Correction:

PURE

Intensity Filter:

None

Save Original:

Off

### SCAN RANGE

FOV:

14.0

Slice Thickness:

2.00

Slice Spacing:

0.2

Overlap Locations:

0

Number of Slices:

22

No Phase Wrap:

2.00

## **ACQ TIMING**

|                         |                 |
|-------------------------|-----------------|
| Acq Voxel Size:         | 0.5 X 0.5 X 2.0 |
| Freq:                   | 288             |
| Phase:                  | 256             |
| Freq DIR:               | S/I             |
| NEX:                    | 1.00            |
| # of Acq. Before Pause: | 0               |
| Phase FOV:              | 1.00            |
| Auto Shim:              | Auto            |
| Phase Correct:          | Off             |
| RF Drive Mode:          | Quadrature      |
| Excitation Mode:        | Selective       |
| Fat Shift DIR:          | Normal (I)      |

---

## **SCAN TIMING**

|                     |       |
|---------------------|-------|
| Flip Angle:         | 160.0 |
| TE:                 | 20.0  |
| Number of Echoes:   | 1     |
| TR:                 | 555.0 |
| Echo Train Length:  | 4     |
| Receiver Bandwidth: | 41.67 |

---

## **CONTRAST**

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

---

## **OTHERS**

|                    |      |
|--------------------|------|
| Anatomical Region: | Hand |
|--------------------|------|

---



***USER CVS***

|            |      |
|------------|------|
| User CV6:  | None |
| User CV9:  | None |
| User CV15: | None |
| User CV16: | None |
| User CV18: | None |
| User CV21: | None |
| User CV26: | 1.00 |

---

|                                |             |
|--------------------------------|-------------|
| <b>Non-Viewable Parameters</b> | $\tilde{n}$ |
|--------------------------------|-------------|

# Cor STIR DL

Details tab

Protocol notes

## Cor STIR DL

### PATIENT POSITION

|                     |              |
|---------------------|--------------|
| Coil Configuration: | Neo16chFlexS |
| Plane:              | OBLIQUE      |

### IMAGING PARAMETERS

|                  |                                  |
|------------------|----------------------------------|
| Imaging Mode:    | 2D                               |
| Imaging Options: | Seq, EDR, Fast, ZIP512, ARC, IrP |
| Pulse Sequence:  | FSE-XL                           |
| ARC Phase:       | 1.50                             |

### Image Recon

|                       |        |
|-----------------------|--------|
| Recon DL Strength:    | Medium |
| Intensity Correction: | NONE   |
| Intensity Filter:     | None   |
| Save Original:        | Off    |

### SCAN RANGE

|                    |      |
|--------------------|------|
| FOV:               | 14.0 |
| Slice Thickness:   | 2.00 |
| Slice Spacing:     | 0.2  |
| Overlap Locations: | 0    |
| Number of Slices:  | 22   |

***No Phase Wrap:***

***2.00***

---

**ACQ TIMING**

|                         |                 |
|-------------------------|-----------------|
| Acq Voxel Size:         | 0.5 X 0.6 X 2.0 |
| Freq:                   | 288             |
| Phase:                  | 224             |
| Freq DIR:               | S/I             |
| NEX:                    | 1.00            |
| # of Acq. Before Pause: | 0               |
| Phase FOV:              | 1.00            |
| Auto Shim:              | Auto            |
| Phase Correct:          | Off             |
| RF Drive Mode:          | Quadrature      |
| Excitation Mode:        | Selective       |
| Fat Shift DIR:          | Normal (I)      |

---

**SCAN TIMING**

|                     |        |
|---------------------|--------|
| Flip Angle:         | 180.0  |
| TE:                 | 44.0   |
| Number of Echoes:   | 1      |
| TR:                 | 3400.0 |
| TI:                 | 160    |
| Echo Train Length:  | 8      |
| Receiver Bandwidth: | 41.67  |

---

**CONTRAST**

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

---

**OTHERS**

|                    |      |
|--------------------|------|
| Anatomical Region: | Hand |
|--------------------|------|

**USER CVS**

|            |      |
|------------|------|
| User CV9:  | None |
| User CV15: | None |
| User CV18: | None |
| User CV21: | 1.00 |
| User CV26: | 1.00 |

|                         |   |
|-------------------------|---|
| Non-Viewable Parameters | ñ |
|-------------------------|---|

--contrast--

Details tab

Protocol notes

--contrast--

PATIENT POSITION

Coil Configuration:

Neo16chFlexS

Plane:

3-PLANE

IMAGING PARAMETERS

Imaging Mode:

2D

Imaging Options:

Seq, Fast

Pulse Sequence:

Gradient Echo

Image Recon

Intensity Correction:

NONE

Intensity Filter:

None

SCAN RANGE

FOV:

20.0

Slice Thickness:

4.0

Slice Spacing:

5.0

No Phase Wrap:

1.00

ACQ TIMING

Acq Voxel Size:

0.8 X 1.6 X 4.0

Freq:

256

|                |            |
|----------------|------------|
| <b>Phase:</b>  | <b>128</b> |
| Freq DIR:      | Unswap     |
| NEX:           | 1.00       |
| Phase FOV:     | 1.00       |
| Auto Shim:     | Auto       |
| Phase Correct: | Off        |

---

## CONTRAST

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

---

## OTHERS

|                    |      |
|--------------------|------|
| Anatomical Region: | Hand |
|--------------------|------|

---

## GATING/TRIGGER

|                    |     |
|--------------------|-----|
| Auto Trigger Type: | Off |
|--------------------|-----|

---

## USER CVS

|         |   |
|---------|---|
| TR Min: | - |
| TR Max: | - |

---

## Non-Viewable Parameters

ñ

# +C Ax T1 DL Fat

Details tab

Protocol notes

## +C Ax T1 DL Fat

### PATIENT POSITION

|                     |              |
|---------------------|--------------|
| Coil Configuration: | Neo16chFlexS |
| Plane:              | OBLIQUE      |

### IMAGING PARAMETERS

|                  |                             |
|------------------|-----------------------------|
| Imaging Mode:    | 2D                          |
| Imaging Options: | EDR, TRF, Fast, ZIP512, ARC |
| Pulse Sequence:  | FSE-XL                      |
| ARC Phase:       | 1.50                        |

### Image Recon

|                       |        |
|-----------------------|--------|
| Recon DL Strength:    | Medium |
| Intensity Correction: | PURE   |
| Intensity Filter:     | None   |
| Save Original:        | Off    |

### SCAN RANGE

|                    |      |
|--------------------|------|
| FOV:               | 14.0 |
| Slice Thickness:   | 3.00 |
| Slice Spacing:     | 1.0  |
| Overlap Locations: | 0    |
| Number of Slices:  | 34   |

***No Phase Wrap:***

***1.00***

---

**ACQ TIMING**

|                         |                 |
|-------------------------|-----------------|
| Acq Voxel Size:         | 0.5 X 0.5 X 3.0 |
| Freq:                   | 288             |
| Phase:                  | 256             |
| Freq DIR:               | R/L             |
| NEX:                    | 1.00            |
| # of Acq. Before Pause: | 0               |
| Phase FOV:              | 0.70            |
| Auto Shim:              | Auto            |
| Phase Correct:          | Off             |
| RF Drive Mode:          | Quadrature      |
| Excitation Mode:        | Selective       |
| Fat Shift DIR:          | Normal (L)      |

---

**SCAN TIMING**

|                     |       |
|---------------------|-------|
| Flip Angle:         | 160.0 |
| TE:                 | 20.0  |
| Number of Echoes:   | 1     |
| TR:                 | 600.0 |
| Echo Train Length:  | 4     |
| Receiver Bandwidth: | 41.67 |

---

**CONTRAST**

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

---

**OTHERS**



**Anatomical Region:****Hand****SAT**

Fat/Water Saturation:

Fat

**USER CVS**

User CV6:

None

User CV9:

None

User CV13:

None

User CV15:

None

User CV16:

None

User CV18:

None

User CV19:

1.00

User CV21:

None

User CV26:

1.00

**Non-Viewable Parameters**

ñ

# +C Cor T1 DL Fat

Details tab

Protocol notes

## +C Cor T1 DL Fat

### PATIENT POSITION

|                     |              |
|---------------------|--------------|
| Coil Configuration: | Neo16chFlexS |
| Plane:              | OBLIQUE      |

### IMAGING PARAMETERS

|                  |                             |
|------------------|-----------------------------|
| Imaging Mode:    | 2D                          |
| Imaging Options: | EDR, TRF, Fast, ZIP512, ARC |
| Pulse Sequence:  | FSE-XL                      |
| ARC Phase:       | 1.50                        |

### Image Recon

|                       |        |
|-----------------------|--------|
| Recon DL Strength:    | Medium |
| Intensity Correction: | PURE   |
| Intensity Filter:     | None   |
| Save Original:        | Off    |

### SCAN RANGE

|                    |      |
|--------------------|------|
| FOV:               | 14.0 |
| Slice Thickness:   | 3.00 |
| Slice Spacing:     | 0.2  |
| Overlap Locations: | 0    |
| Number of Slices:  | 15   |

***No Phase Wrap:***

***2.00***

---

**ACQ TIMING**

|                         |                 |
|-------------------------|-----------------|
| Acq Voxel Size:         | 0.5 X 0.5 X 3.0 |
| Freq:                   | 288             |
| Phase:                  | 256             |
| Freq DIR:               | S/I             |
| NEX:                    | 1.00            |
| # of Acq. Before Pause: | 0               |
| Phase FOV:              | 1.00            |
| Auto Shim:              | Auto            |
| Phase Correct:          | Off             |
| RF Drive Mode:          | Quadrature      |
| Excitation Mode:        | Selective       |
| Fat Shift DIR:          | Normal (I)      |

---

**SCAN TIMING**

|                     |       |
|---------------------|-------|
| Flip Angle:         | 160.0 |
| TE:                 | 20.0  |
| Number of Echoes:   | 1     |
| TR:                 | 584.0 |
| Echo Train Length:  | 4     |
| Receiver Bandwidth: | 41.67 |

---

**CONTRAST**

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

---

**OTHERS**

**Anatomical Region:****Hand****SAT**

Fat/Water Saturation:

Fat

**USER CVS**

User CV6:

None

User CV9:

None

User CV13:

None

User CV15:

None

User CV16:

None

User CV18:

None

User CV19:

1.00

User CV21:

None

User CV26:

1.00

**Non-Viewable Parameters**

ñ

# +C Sag T1 DL Fat

Details tab

Protocol notes

## +C Sag T1 DL Fat

### PATIENT POSITION

|                     |              |
|---------------------|--------------|
| Coil Configuration: | Neo16chFlexS |
| Plane:              | OBLIQUE      |

### IMAGING PARAMETERS

|                  |                                 |
|------------------|---------------------------------|
| Imaging Mode:    | 2D                              |
| Imaging Options: | FC, EDR, TRF, Fast, ZIP512, ARC |
| Pulse Sequence:  | FSE-XL                          |
| ARC Phase:       | 1.50                            |

### Image Recon

|                       |        |
|-----------------------|--------|
| Recon DL Strength:    | Medium |
| Intensity Correction: | PURE   |
| Intensity Filter:     | None   |
| Save Original:        | Off    |

### SCAN RANGE

|                    |      |
|--------------------|------|
| FOV:               | 14.0 |
| Slice Thickness:   | 3.00 |
| Slice Spacing:     | 1.0  |
| Overlap Locations: | 0    |
| Number of Slices:  | 26   |

***No Phase Wrap:***

***1.00***

---

**ACQ TIMING**

|                         |                 |
|-------------------------|-----------------|
| Acq Voxel Size:         | 0.5 X 0.5 X 3.0 |
| Freq:                   | 288             |
| Phase:                  | 256             |
| Freq DIR:               | S/I             |
| NEX:                    | 1.00            |
| # of Acq. Before Pause: | 0               |
| Phase FOV:              | 0.70            |
| Auto Shim:              | Auto            |
| Phase Correct:          | Off             |
| Flow Comp Direction:    | Freq            |
| RF Drive Mode:          | Quadrature      |
| Excitation Mode:        | Selective       |
| Fat Shift DIR:          | Normal (S)      |

---

**SCAN TIMING**

|                     |       |
|---------------------|-------|
| Flip Angle:         | 160.0 |
| TE:                 | 20.0  |
| Number of Echoes:   | 1     |
| TR:                 | 701.0 |
| Echo Train Length:  | 4     |
| Receiver Bandwidth: | 41.67 |

---

**CONTRAST**

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

---

**OTHERS**

|                    |      |
|--------------------|------|
| Anatomical Region: | Hand |
|--------------------|------|

---

**SAT**

|                       |     |
|-----------------------|-----|
| Fat/Water Saturation: | Fat |
|-----------------------|-----|

---

**USER CVS**

|            |      |
|------------|------|
| User CV6:  | None |
| User CV13: | None |
| User CV15: | None |
| User CV16: | None |
| User CV18: | None |
| User CV19: | 1.00 |
| User CV21: | None |
| User CV26: | 1.00 |

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**Non-Viewable Parameters**

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