

# Neurogram Humerus or Forearm SIGNA Architect

## Technical Instructions

**Lt 3PI Loc**

**Rt 3PI Loc**

**Ax T1-Upr DL**

**Ax T2 fat-Upr DL**

**Ax T1-Lwr DL**

**Ax T2 fat-Lwr DL**

**Sag 3D MENSA Nerve**

**Ax 3D MENSA Nerve**

**Cor T2 Fat DL**

**SAG T2 IDEALarc**

**--contrast (inf/ca)--**

**+C Ax T1 fat-Upr DL**

**+C Ax T1 Fat-Lwr DL**

**+C Cor T1 Fat DL**

# Lt 3PI Loc

Details tab

Protocol notes

## Lt 3PI Loc

### PATIENT POSITION

Coil Configuration:

GE40chGEMPA, GE16chTDIAA

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:

44.0

Slice Thickness:

8.00

Slice Spacing:

10.0

Overlap Locations:

0

No Phase Wrap:

1.50

## ACQ TIMING

|                         |                 |
|-------------------------|-----------------|
| Acq Voxel Size:         | 1.1 X 2.8 X 8.0 |
| Freq:                   | 384             |
| Phase:                  | 160             |
| Freq DIR:               | Unswap          |
| # of Acq. Before Pause: | 0               |
| Phase FOV:              | 1.00            |
| Auto Shim:              | Auto            |
| Phase Correct:          | Off             |
| RF Drive Mode:          | Quadrature (CP) |
| Excitation Mode:        | Selective       |

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## SCAN TIMING

|                     |         |
|---------------------|---------|
| TE:                 | 80.0    |
| 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: | Forearm bone |
|--------------------|--------------|

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## USER CVS

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

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# Rt 3PI Loc

Details tab

Protocol notes

## Rt 3PI Loc

### PATIENT POSITION

Coil Configuration:

GE40chGEMPA, GE16chTDIAA

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:

44.0

Slice Thickness:

8.00

Slice Spacing:

10.0

Overlap Locations:

0

No Phase Wrap:

1.50

## ACQ TIMING

|                         |                 |
|-------------------------|-----------------|
| Acq Voxel Size:         | 1.1 X 2.8 X 8.0 |
| Freq:                   | 384             |
| Phase:                  | 160             |
| Freq DIR:               | Unswap          |
| # of Acq. Before Pause: | 0               |
| Phase FOV:              | 1.00            |
| Auto Shim:              | Auto            |
| Phase Correct:          | Off             |
| RF Drive Mode:          | Quadrature (CP) |
| Excitation Mode:        | Selective       |

---

## SCAN TIMING

|                     |         |
|---------------------|---------|
| TE:                 | 80.0    |
| 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: | Forearm bone |
|--------------------|--------------|

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## USER CVS

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

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# Ax T1-Upr DL

[Details tab](#)[Protocol notes](#)

## Ax T1-Upr DL

### PATIENT POSITION

|                     |                          |
|---------------------|--------------------------|
| Coil Configuration: | GE40chGEMPA, GE16chTDIAA |
| Plane:              | OBLIQUE                  |

### IMAGING PARAMETERS

|                  |                     |
|------------------|---------------------|
| Imaging Mode:    | 2D                  |
| Imaging Options: | EDR, TRF, Fast, ARC |
| Pulse Sequence:  | FSE-XL              |
| ARC Phase:       | 2.00                |

### Image Recon

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

### SCAN RANGE

|                    |      |
|--------------------|------|
| FOV:               | 18.0 |
| Slice Thickness:   | 3.00 |
| Slice Spacing:     | 0.5  |
| Overlap Locations: | 0    |
| Number of Slices:  | 53   |

***No Phase Wrap:***

***1.50***

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## **ACQ TIMING**

|                         |                 |
|-------------------------|-----------------|
| Acq Voxel Size:         | 0.5 X 0.8 X 3.0 |
| Freq:                   | 384             |
| Phase:                  | 224             |
| Freq DIR:               | R/L             |
| NEX:                    | 1.00            |
| # of Acq. Before Pause: | 0               |
| Phase FOV:              | 1.00            |
| Auto Shim:              | Auto            |
| Phase Correct:          | On              |
| RF Drive Mode:          | Quadrature (CP) |
| Excitation Mode:        | Selective       |
| Fat Shift DIR:          | Normal (L)      |

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## **SCAN TIMING**

|                     |       |
|---------------------|-------|
| Flip Angle:         | 111.0 |
| TE:                 | 20.0  |
| Number of Echoes:   | 1     |
| TR:                 | 600.0 |
| Echo Train Length:  | 4     |
| Receiver Bandwidth: | 62.50 |

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## **CONTRAST**

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

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## **OTHERS**

**Anatomical Region:**

**Forearm bone**

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**SAT**

SAT Location S: Default

SAT Location I: Default

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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

User CV41: None

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**Non-Viewable Parameters**

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# Ax T2 fat-Upr DL

Details tab

Protocol notes

## Ax T2 fat-Upr DL

### PATIENT POSITION

Coil Configuration:

GE40chGEMPA, GE16chTDIAA

Plane:

OBLIQUE

### IMAGING PARAMETERS

Imaging Mode:

2D

Imaging Options:

FC, EDR, TRF, Fast, FR, ARC

Pulse Sequence:

FSE-XL

ARC Phase:

1.50

### Image Recon

Recon DL Strength:

Medium

Intensity Correction:

SCENIC

Intensity Filter:

None

Save Original:

Off

### SCAN RANGE

FOV:

18.0

Slice Thickness:

3.00

Slice Spacing:

0.5

Overlap Locations:

0

Number of Slices:

53

**No Phase Wrap:**

**1.50**

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## ACQ TIMING

|                         |                 |
|-------------------------|-----------------|
| Acq Voxel Size:         | 0.5 X 0.7 X 3.0 |
| Freq:                   | 384             |
| Phase:                  | 256             |
| Freq DIR:               | R/L             |
| NEX:                    | 1.00            |
| # of Acq. Before Pause: | 0               |
| Phase FOV:              | 1.00            |
| Auto Shim:              | Auto            |
| Phase Correct:          | On              |
| Flow Comp Direction:    | Slice           |
| RF Drive Mode:          | Quadrature (CP) |
| Excitation Mode:        | Selective       |
| Fat Shift DIR:          | Normal (L)      |

---

## SCAN TIMING

|                     |        |
|---------------------|--------|
| Flip Angle:         | 111.0  |
| TE:                 | 85.0   |
| Number of Echoes:   | 1      |
| TR:                 | 3000.0 |
| Echo Train Length:  | 19     |
| Receiver Bandwidth: | 62.50  |

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## CONTRAST

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

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**OTHERS**

|                         |              |
|-------------------------|--------------|
| 3D Geometry Correction: | Off          |
| Anatomical Region:      | Forearm bone |

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**SAT**

|                       |             |
|-----------------------|-------------|
| SAT Location S:       | Default     |
| SAT Location I:       | Default     |
| Fat/Water Saturation: | Fat Classic |

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**USER CVS**

|            |      |
|------------|------|
| User CV6:  | None |
| User CV15: | None |
| User CV18: | None |
| User CV19: | 1.00 |
| User CV21: | None |
| User CV26: | 1.00 |
| User CV41: | None |

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**Non-Viewable Parameters**

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# Ax T1-Lwr DL

Details tab

Protocol notes

## Ax T1-Lwr DL

### PATIENT POSITION

Coil Configuration:GE40chGEMPA, GE16chTDIAA

Plane:OBLIQUE

### IMAGING PARAMETERS

Imaging Mode:2D

Imaging Options:EDR, TRF, Fast, ARC

Pulse Sequence:FSE-XL

ARC Phase:1.50

### Image Recon

Recon DL Strength:Medium

Intensity Correction:SCENIC

Intensity Filter:None

Save Original:Off

### SCAN RANGE

FOV:18.0

Slice Thickness:3.00

Slice Spacing:0.5

Overlap Locations:0

Number of Slices:53

***No Phase Wrap:***

***1.50***

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## **ACQ TIMING**

|                         |                 |
|-------------------------|-----------------|
| Acq Voxel Size:         | 0.5 X 0.8 X 3.0 |
| Freq:                   | 384             |
| Phase:                  | 224             |
| Freq DIR:               | R/L             |
| NEX:                    | 1.00            |
| # of Acq. Before Pause: | 0               |
| Phase FOV:              | 1.00            |
| Auto Shim:              | Auto            |
| Phase Correct:          | On              |
| RF Drive Mode:          | Quadrature (CP) |
| Excitation Mode:        | Selective       |
| Fat Shift DIR:          | Normal (L)      |

---

## **SCAN TIMING**

|                     |       |
|---------------------|-------|
| Flip Angle:         | 111.0 |
| TE:                 | 20.0  |
| Number of Echoes:   | 1     |
| TR:                 | 600.0 |
| Echo Train Length:  | 3     |
| Receiver Bandwidth: | 62.50 |

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## **CONTRAST**

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

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## **OTHERS**

**Anatomical Region:**

**Forearm bone**

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**SAT**

SAT Location S: Default

SAT Location I: Default

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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

User CV41: None

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**Non-Viewable Parameters**

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# Ax T2 fat-Lwr DL

Details tab

Protocol notes

## Ax T2 fat-Lwr DL

### PATIENT POSITION

|                     |                          |
|---------------------|--------------------------|
| Coil Configuration: | GE40chGEMPA, GE16chTDIAA |
| Plane:              | OBLIQUE                  |

### IMAGING PARAMETERS

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

### Image Recon

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

### SCAN RANGE

|                    |      |
|--------------------|------|
| FOV:               | 18.0 |
| Slice Thickness:   | 3.00 |
| Slice Spacing:     | 0.5  |
| Overlap Locations: | 0    |
| Number of Slices:  | 53   |

**No Phase Wrap:**

**1.50**

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## ACQ TIMING

|                         |                 |
|-------------------------|-----------------|
| Acq Voxel Size:         | 0.5 X 0.7 X 3.0 |
| Freq:                   | 384             |
| Phase:                  | 256             |
| Freq DIR:               | R/L             |
| NEX:                    | 1.00            |
| # of Acq. Before Pause: | 0               |
| Phase FOV:              | 1.00            |
| Auto Shim:              | Auto            |
| Phase Correct:          | On              |
| Flow Comp Direction:    | Slice           |
| RF Drive Mode:          | Quadrature (CP) |
| Excitation Mode:        | Selective       |
| Fat Shift DIR:          | Normal (L)      |

---

## SCAN TIMING

|                     |        |
|---------------------|--------|
| Flip Angle:         | 111.0  |
| TE:                 | 85.0   |
| Number of Echoes:   | 1      |
| TR:                 | 3000.0 |
| Echo Train Length:  | 19     |
| Receiver Bandwidth: | 62.50  |

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## CONTRAST

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

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**OTHERS**

|                         |              |
|-------------------------|--------------|
| 3D Geometry Correction: | Off          |
| Anatomical Region:      | Forearm bone |

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**SAT**

|                       |             |
|-----------------------|-------------|
| SAT Location S:       | Default     |
| SAT Location I:       | Default     |
| Fat/Water Saturation: | Fat Classic |

---

**USER CVS**

|            |      |
|------------|------|
| User CV6:  | None |
| User CV15: | None |
| User CV18: | None |
| User CV19: | 1.00 |
| User CV21: | None |
| User CV26: | 1.00 |
| User CV41: | None |

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**Non-Viewable Parameters**

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# Sag 3D MENSA Nerve

Details tab

Protocol notes

## Sag 3D MENSA Nerve

### PATIENT POSITION

|                     |             |
|---------------------|-------------|
| Coil Configuration: | GE20chFlexM |
| Plane:              | OBLIQUE     |

### IMAGING PARAMETERS

|                  |                                  |
|------------------|----------------------------------|
| Imaging Mode:    | 3D                               |
| Imaging Options: | EDR, Fast, ZIP512, SSRF, ARC, HS |
| Pulse Sequence:  | Gradient Echo                    |
| PSD Name:        | mensa_nerve                      |
| ARC Phase:       | 2.00                             |
| ARC Slice:       | 1.30                             |
| HyperSense:      | 1.50                             |

### Image Recon

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

### SCAN RANGE

|                  |      |
|------------------|------|
| FOV:             | 14.0 |
| Slice Thickness: | 0.80 |
| Slices per Slab: | 170  |

|                           |          |
|---------------------------|----------|
| <b>Overlap Locations:</b> | <b>0</b> |
| Number of Slices:         | 1        |
| No Slab Wrap:             | 1.03     |
| No Phase Wrap:            | 1.50     |
| Slice Resolution(%):      | 80.00    |

---

## ACQ TIMING

|                  |                 |
|------------------|-----------------|
| Acq Voxel Size:  | 0.5 X 0.5 X 1.0 |
| Freq:            | 256             |
| Phase:           | 256             |
| Freq DIR:        | R/L             |
| Phase FOV:       | 1.00            |
| Auto Shim:       | Auto            |
| Phase Correct:   | Off             |
| RF Drive Mode:   | Preset          |
| Excitation Mode: | Selective       |

---

## SCAN TIMING

|                     |       |
|---------------------|-------|
| Flip Angle:         | 35.0  |
| Number of Echoes:   | 2     |
| Receiver Bandwidth: | 50.00 |

---

## CONTRAST

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

---

## OTHERS

|                    |     |
|--------------------|-----|
| Anatomical Region: | Arm |
|--------------------|-----|

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***USER CVS***

|            |        |
|------------|--------|
| User CV4:  | None   |
| User CV6:  | 1.00   |
| User CV34: | 100.00 |
| User CV41: | None   |

**Non-Viewable Parameters**

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# Ax 3D MENSA Nerve

Details tab

Protocol notes

## Ax 3D MENSA Nerve

### PATIENT POSITION

|                     |             |
|---------------------|-------------|
| Coil Configuration: | GE20chFlexM |
| Plane:              | OBLIQUE     |

### IMAGING PARAMETERS

|                  |                                  |
|------------------|----------------------------------|
| Imaging Mode:    | 3D                               |
| Imaging Options: | EDR, Fast, ZIP512, SSRF, ARC, HS |
| Pulse Sequence:  | Gradient Echo                    |
| PSD Name:        | mensa_nerve                      |
| ARC Phase:       | 2.00                             |
| ARC Slice:       | 1.30                             |
| HyperSense:      | 1.50                             |

### Image Recon

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

### SCAN RANGE

|                  |      |
|------------------|------|
| FOV:             | 14.0 |
| Slice Thickness: | 1.20 |
| Slices per Slab: | 170  |

|                           |          |
|---------------------------|----------|
| <b>Overlap Locations:</b> | <b>0</b> |
| Number of Slices:         | 1        |
| No Slab Wrap:             | 1.03     |
| No Phase Wrap:            | 1.50     |
| Slice Resolution(%):      | 100.00   |

---

## ACQ TIMING

|                  |                 |
|------------------|-----------------|
| Acq Voxel Size:  | 0.5 X 0.5 X 1.2 |
| Freq:            | 256             |
| Phase:           | 256             |
| Freq DIR:        | R/L             |
| Phase FOV:       | 1.00            |
| Auto Shim:       | Auto            |
| Phase Correct:   | Off             |
| RF Drive Mode:   | Preset          |
| Excitation Mode: | Selective       |

---

## SCAN TIMING

|                     |       |
|---------------------|-------|
| Flip Angle:         | 35.0  |
| Number of Echoes:   | 2     |
| Receiver Bandwidth: | 50.00 |

---

## CONTRAST

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

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## OTHERS

|                    |     |
|--------------------|-----|
| Anatomical Region: | Arm |
|--------------------|-----|

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***USER CVS***

|            |        |
|------------|--------|
| User CV4:  | None   |
| User CV6:  | 1.00   |
| User CV34: | 100.00 |
| User CV41: | None   |

**Non-Viewable Parameters**

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# Cor T2 Fat DL

Details tab

Protocol notes

## Cor T2 Fat DL

### PATIENT POSITION

Coil Configuration:GE40chGEMPA, GE16chTDIAA

Plane:OBLIQUE

### IMAGING PARAMETERS

Imaging Mode:2D

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

Pulse Sequence:FSE-XL

ARC Phase:1.50

### Image Recon

Recon DL Strength:Medium

Intensity Correction:SCENIC

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:24

***No Phase Wrap:***

***1.50***

---

## **ACQ TIMING**

|                         |                 |
|-------------------------|-----------------|
| Acq Voxel Size:         | 0.4 X 0.5 X 3.0 |
| Freq:                   | 384             |
| Phase:                  | 256             |
| Freq DIR:               | R/L             |
| NEX:                    | 1.00            |
| # of Acq. Before Pause: | 0               |
| Phase FOV:              | 1.00            |
| Auto Shim:              | Auto            |
| Phase Correct:          | On              |
| RF Drive Mode:          | Quadrature (CP) |
| Excitation Mode:        | Selective       |
| Fat Shift DIR:          | Normal (R)      |

---

## **SCAN TIMING**

|                     |        |
|---------------------|--------|
| Flip Angle:         | 111.0  |
| TE:                 | 80.0   |
| Number of Echoes:   | 1      |
| TR:                 | 3000.0 |
| Echo Train Length:  | 19     |
| Receiver Bandwidth: | 62.50  |

---

## **CONTRAST**

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

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## **OTHERS**

|                                |              |
|--------------------------------|--------------|
| <b>3D Geometry Correction:</b> | <b>Off</b>   |
| Anatomical Region:             | Forearm bone |

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## SAT

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

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## USER CVS

|            |      |
|------------|------|
| User CV6:  | None |
| User CV9:  | None |
| User CV15: | None |
| User CV18: | None |
| User CV19: | 1.00 |
| User CV21: | 1.00 |
| User CV26: | 1.00 |
| User CV41: | None |

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## Non-Viewable Parameters

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# SAG T2 IDEALarc

Details tab

Protocol notes

## SAG T2 IDEALarc

### PATIENT POSITION

|                     |                          |
|---------------------|--------------------------|
| Coil Configuration: | GE40chGEMPA, GE16chTDIAA |
| Plane:              | OBLIQUE                  |

### IMAGING PARAMETERS

|                  |                       |
|------------------|-----------------------|
| Imaging Mode:    | 2D                    |
| Imaging Options: | EDR, Fast, IDEAL, ARC |
| Pulse Sequence:  | FSE-XL                |
| IDEAL:           | 3                     |
| ARC Phase:       | 2.00                  |

### Image Recon

|                       |      |
|-----------------------|------|
| Recon DL Strength:    | Off  |
| Intensity Correction: | NONE |
| 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:  | 11   |

**No Phase Wrap:** **1.00**

---

## ACQ TIMING

|                  |                 |
|------------------|-----------------|
| Acq Voxel Size:  | 0.4 X 0.6 X 3.0 |
| Freq:            | 384             |
| Phase:           | 224             |
| Freq DIR:        | R/L             |
| NEX:             | 1.00            |
| Phase FOV:       | 0.60            |
| Auto Shim:       | Auto            |
| Phase Correct:   | On              |
| RF Drive Mode:   | Quadrature (CP) |
| Excitation Mode: | Selective       |
| Fat Shift DIR:   | Normal (L)      |

---

## SCAN TIMING

|                     |        |
|---------------------|--------|
| Flip Angle:         | 125    |
| TE:                 | 85.0   |
| Number of Echoes:   | 1      |
| TR:                 | 3000.0 |
| Echo Train Length:  | 7      |
| Receiver Bandwidth: | 62.50  |

---

## CONTRAST

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

---

## OTHERS

|                    |              |
|--------------------|--------------|
| Anatomical Region: | Forearm bone |
|--------------------|--------------|

***USER CVS***

|            |      |
|------------|------|
| User CV6:  | None |
| User CV9:  | None |
| User CV15: | None |
| User CV16: | None |
| User CV18: | None |
| User CV21: | None |
| User CV30: | 1.00 |

**Non-Viewable Parameters**

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# --contrast (inf/ca)--

Details tab

Protocol notes

## --contrast (inf/ca)--

### PATIENT POSITION

|                     |              |
|---------------------|--------------|
| Coil Configuration: | Neo16chFlexL |
| Plane:              | 3-PLANE      |

### IMAGING PARAMETERS

|                  |                    |
|------------------|--------------------|
| Imaging Mode:    | 2D                 |
| Imaging Options: | Seq, EDR, Fast, SS |
| Pulse Sequence:  | Spin Echo          |

### Image Recon

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

### SCAN RANGE

|                  |      |
|------------------|------|
| FOV:             | 40.0 |
| Slice Thickness: | 5.0  |
| Slice Spacing:   | 5.0  |
| No Phase Wrap:   | 1.00 |

### ACQ TIMING

|                 |                 |
|-----------------|-----------------|
| Acq Voxel Size: | 1.0 X 1.6 X 5.0 |
| Freq:           | 384             |

|                         |            |
|-------------------------|------------|
| <b>Phase:</b>           | <b>256</b> |
| Freq DIR:               | Unswap     |
| # of Acq. Before Pause: | 0          |
| Phase FOV:              | 1.00       |
| Auto Shim:              | Auto       |
| Phase Correct:          | Off        |
| RF Drive Mode:          | Preset     |
| Excitation Mode:        | Selective  |

---

## SCAN TIMING

|                     |         |
|---------------------|---------|
| TE:                 | 80.0    |
| TR:                 | Minimum |
| Receiver Bandwidth: | 62.50   |

---

## CONTRAST

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

---

## OTHERS

|                    |      |
|--------------------|------|
| Anatomical Region: | Knee |
|--------------------|------|

---

## GATING/TRIGGER

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

---

## USER CVS

|            |        |
|------------|--------|
| User CV1:  | 1.0    |
| User CV2:  | 240.00 |
| User CV13: | 1.00   |

|                   |             |
|-------------------|-------------|
| <b>User CV15:</b> | <b>None</b> |
| User CV39:        | 1.00        |

---

**Non-Viewable Parameters**

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# +C Ax T1 fat-Upr DL

Details tab

Protocol notes

## +C Ax T1 fat-Upr DL

### PATIENT POSITION

|                     |                          |
|---------------------|--------------------------|
| Coil Configuration: | GE40chGEMPA, GE16chTDIAA |
| Plane:              | OBLIQUE                  |

### IMAGING PARAMETERS

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

### Image Recon

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

### SCAN RANGE

|                    |      |
|--------------------|------|
| FOV:               | 18.0 |
| Slice Thickness:   | 3.00 |
| Slice Spacing:     | 0.5  |
| Overlap Locations: | 0    |
| Number of Slices:  | 40   |

***No Phase Wrap:***

***1.50***

---

## **ACQ TIMING**

|                         |                 |
|-------------------------|-----------------|
| Acq Voxel Size:         | 0.5 X 0.9 X 3.0 |
| Freq:                   | 384             |
| Phase:                  | 192             |
| Freq DIR:               | R/L             |
| NEX:                    | 1.00            |
| # of Acq. Before Pause: | 0               |
| Phase FOV:              | 1.00            |
| Auto Shim:              | Auto            |
| Phase Correct:          | On              |
| RF Drive Mode:          | Quadrature (CP) |
| Excitation Mode:        | Selective       |
| Fat Shift DIR:          | Normal (L)      |

---

## **SCAN TIMING**

|                     |       |
|---------------------|-------|
| Flip Angle:         | 111.0 |
| TE:                 | 20.0  |
| Number of Echoes:   | 1     |
| TR:                 | 600.0 |
| Echo Train Length:  | 4     |
| Receiver Bandwidth: | 62.50 |

---

## **CONTRAST**

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

---

## **OTHERS**

**Anatomical Region:**

**Forearm bone**

---

**SAT**

|                       |         |
|-----------------------|---------|
| SAT Location S:       | Default |
| SAT Location I:       | Default |
| Fat/Water Saturation: | Fat     |

---

**USER CVS**

|            |      |
|------------|------|
| User CV6:  | None |
| User CV9:  | None |
| User CV15: | None |
| User CV16: | None |
| User CV18: | None |
| User CV19: | 1.00 |
| User CV21: | None |
| User CV26: | 1.00 |
| User CV41: | None |

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**Non-Viewable Parameters**

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# +C Ax T1 Fat-Lwr DL

Details tab

Protocol notes

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## +C Ax T1 Fat-Lwr DL

### PATIENT POSITION

|                     |                          |
|---------------------|--------------------------|
| Coil Configuration: | GE40chGEMPA, GE16chTDIAA |
| Plane:              | OBLIQUE                  |

---

### IMAGING PARAMETERS

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

---

### Image Recon

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

---

### SCAN RANGE

|                    |      |
|--------------------|------|
| FOV:               | 18.0 |
| Slice Thickness:   | 3.00 |
| Slice Spacing:     | 0.5  |
| Overlap Locations: | 0    |
| Number of Slices:  | 53   |

***No Phase Wrap:***

***1.50***

---

## **ACQ TIMING**

|                         |                 |
|-------------------------|-----------------|
| Acq Voxel Size:         | 0.5 X 0.9 X 3.0 |
| Freq:                   | 384             |
| Phase:                  | 192             |
| Freq DIR:               | R/L             |
| NEX:                    | 1.00            |
| # of Acq. Before Pause: | 0               |
| Phase FOV:              | 1.00            |
| Auto Shim:              | Auto            |
| Phase Correct:          | On              |
| RF Drive Mode:          | Quadrature (CP) |
| Excitation Mode:        | Selective       |
| Fat Shift DIR:          | Normal (L)      |

---

## **SCAN TIMING**

|                     |       |
|---------------------|-------|
| Flip Angle:         | 111.0 |
| TE:                 | 20.0  |
| Number of Echoes:   | 1     |
| TR:                 | 600.0 |
| Echo Train Length:  | 4     |
| Receiver Bandwidth: | 62.50 |

---

## **CONTRAST**

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

---

## **OTHERS**

**Anatomical Region:**

**Forearm bone**

---

**SAT**

|                       |         |
|-----------------------|---------|
| SAT Location S:       | Default |
| SAT Location I:       | Default |
| Fat/Water Saturation: | Fat     |

---

**USER CVS**

|            |      |
|------------|------|
| User CV6:  | None |
| User CV9:  | None |
| User CV15: | None |
| User CV16: | None |
| User CV18: | None |
| User CV19: | 1.00 |
| User CV21: | None |
| User CV26: | 1.00 |
| User CV41: | None |

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**Non-Viewable Parameters**

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# +C Cor T1 Fat DL

Details tab

Protocol notes

## +C Cor T1 Fat DL

### PATIENT POSITION

Coil Configuration:

GE40chGEMPA, GE16chTDIAA

Plane:

OBLIQUE

### IMAGING PARAMETERS

Imaging Mode:

2D

Imaging Options:

FC, EDR, TRF, Fast, ARC

Pulse Sequence:

FSE-XL

ARC Phase:

1.50

### Image Recon

Recon DL Strength:

Medium

Intensity Correction:

SCENIC

Intensity Filter:

None

Save Original:

Off

### SCAN RANGE

FOV:

16.0

Slice Thickness:

3.00

Slice Spacing:

1.0

Overlap Locations:

0

Number of Slices:

24

**No Phase Wrap:**

**1.50**

---

## ACQ TIMING

|                         |                 |
|-------------------------|-----------------|
| Acq Voxel Size:         | 0.4 X 0.6 X 3.0 |
| Freq:                   | 384             |
| Phase:                  | 256             |
| Freq DIR:               | S/I             |
| NEX:                    | 1.00            |
| # of Acq. Before Pause: | 0               |
| Phase FOV:              | 1.00            |
| Auto Shim:              | Auto            |
| Phase Correct:          | On              |
| Flow Comp Direction:    | Freq            |
| RF Drive Mode:          | Preset          |
| Excitation Mode:        | Selective       |
| Fat Shift DIR:          | Normal (I)      |

---

## SCAN TIMING

|                     |       |
|---------------------|-------|
| Flip Angle:         | 111.0 |
| TE:                 | 20.0  |
| Number of Echoes:   | 1     |
| TR:                 | 600.0 |
| Echo Train Length:  | 4     |
| Receiver Bandwidth: | 62.50 |

---

## CONTRAST

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

---

**OTHERS**

|                    |              |
|--------------------|--------------|
| Anatomical Region: | Forearm bone |
|--------------------|--------------|

**SAT**

|                       |         |
|-----------------------|---------|
| SAT Location S:       | Default |
| SAT Location I:       | Default |
| Fat/Water Saturation: | Fat     |

**USER CVS**

|            |      |
|------------|------|
| User CV6:  | None |
| User CV15: | None |
| User CV16: | None |
| User CV18: | None |
| User CV19: | 1.00 |
| User CV21: | None |
| User CV26: | 1.00 |
| User CV41: | None |

Non-Viewable Parameters

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