

# Elbow-Osteo, Abscess, Tumor DISCOVERY MR750w

## Technical Instructions

**RT-3-PLANE LOC**

**LT-3-PLANE LOC**

**Ax T1**

**Ax T2 dk fat**

**Sag T1**

**Sag T2 FAT PROPELLER**

**Cor T1**

**Cor T2 dk fat**

**--Tumor ONLY--**

**Pre Ax T1 fat**

**--contrast--**

**+C Cor T1 fat**

**+C Ax T1 fat**

**+C Sag T1 fat**

**--optional--**

**Sag T2 dk fat**

# RT-3-PLANE LOC

## RT-3-PLANE LOC

### PATIENT POSITION

Coil Configuration:	GEM Flex Small
Plane:	3-PLANE

---

### IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	Spin Echo
Imaging Options:	Seq, EDR, Fast, SS, ARC
Phase:	2.00

---

### Image Recon

Intensity Filter:	None
Intensity Correction:	NONE

---

### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

---

### SAT

Tag Spacing:	None
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Tag Type: None

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### **USER CVS**

User CV1: 1.00  
User CV2: 240.00  
User CV13: 1.00  
User CV16: None  
User CV39: 1.00  
User CV Mask2: 256

---

### **DIFFUSION**

# Synthetic b-values: 1  
Synthetic b-value: 1000.0;  
Recon All Images: On

---

### **SCAN TIMING**

TE: 85.0  
Number of Echoes: 1  
TR: Minimum  
Receiver Bandwidth: 62.50

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### **GATING/TRIGGER**

Auto Trigger Type: Off

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### **MULTI-PHASE**

Seperate Series: 0  
Mask Phase: 0  
Mask Pause: 0

Preserve: 0

---

### SCAN RANGE

FOV: 30.0  
Slice Thickness: 5.0  
Slice Spacing: 5.0  
Table Delta: 0.00

---

### ACQ TIMING

Freq: 384  
Phase: 256  
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

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### CONTRAST

Contrast Yes/No: No

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### TRICKS

Pause On/Off: On  
Auto Subtract: 0

---

### OTHERS

3D Geometry Correction: Off

Anatomical Region:

Elbow

# LT-3-PLANE LOC

## LT-3-PLANE LOC

### PATIENT POSITION

Coil Configuration:	GEM Flex Small
Plane:	3-PLANE

---

### IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	Spin Echo
Imaging Options:	Seq, EDR, Fast, SS, ARC
Phase:	2.00

---

### Image Recon

Intensity Filter:	None
Intensity Correction:	NONE

---

### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

---

### SAT

Tag Spacing: None

Tag Type: None

---

### **USER CVS**

User CV1: 1.00

User CV2: 240.00

User CV13: 1.00

User CV15: None

User CV39: 1.00

User CV Mask2: 256

---

### **DIFFUSION**

Multi b-values: 1000.0;

Multi NEX Values: 1;

Recon All Images: On

---

### **SCAN TIMING**

TE: 85.0

TR: Minimum

Receiver Bandwidth: 62.50

---

### **GATING/TRIGGER**

Auto Trigger Type: Off

---

### **MULTI-PHASE**

Seperate Series: 0

Mask Phase: 0

Mask Pause: 0

---

## SCAN RANGE

FOV:	30.0
Slice Thickness:	5.0
Slice Spacing:	5.0
Table Delta:	0.00

---

## ACQ TIMING

Freq:	384
Phase:	256
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

---

## CONTRAST

Contrast Yes/No:	No
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---

## TRICKS

Pause On/Off:	On
Auto Subtract:	0

---

## OTHERS

3D Geometry Correction:	Off
Anatomical Region:	Elbow



# Ax T1

## Ax T1

### PATIENT POSITION

Coil Configuration:	GEM Flex Small
Plane:	AXIAL

---

### IMAGING PARAMETERS

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

---

### Image Recon

Intensity Filter:	None
Intensity Correction:	SCIC

---

### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

---

### SAT

Tag Spacing:	None
Tag Type:	None

---

### **USER CVS**

User CV6:	None
User CV7:	None
User CV8:	None
User CV9:	None
User CV15:	None
User CV16:	None
User CV18:	None
User CV21:	None
User CV22:	1.00
User CV30:	1.00
User CV39:	1.00
User CV Mask2:	256

---

### **DIFFUSION**

# Synthetic b-values:	1
Synthetic b-value:	1000.0;
Recon All Images:	On

---

### **SCAN TIMING**

Flip Angle:	111
TE:	16.0
Number of Echoes:	1
TR:	800.0
Echo Train Length:	4

Receiver Bandwidth: 41.67

---

### **GATING/TRIGGER**

Auto Trigger Type: Off

---

### **MULTI-PHASE**

Seperate Series: 0

Mask Phase: 0

Mask Pause: 0

Preserve: 0

---

### **SCAN RANGE**

FOV: 14.0

Slice Thickness: 3.0

Slice Spacing: 1.0

Table Delta: 0.00

---

### **ACQ TIMING**

Freq: 288

Phase: 224

Freq DIR: A/P

NEX: 2.00

Auto Shim: Auto

Phase Correct: On

RF Drive Mode: Quadrature

Excitation Mode: Selective

Fat Shift DIR: Normal (A)

---

### **CONTRAST**

Contrast Yes/No: No

---

**TRICKS**

Pause On/Off: On

Auto Subtract: 0

---

**OTHERS**

Anatomical Region: Elbow

# Ax T2 dk fat

## Ax T2 dk fat

### PATIENT POSITION

Coil Configuration:	GEM Flex Small
Plane:	OBLIQUE

---

### IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	NPW, EDR, TRF, Fast, FR

---

### Image Recon

Intensity Filter:	None
Intensity Correction:	SCIC

---

### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

---

### SAT

Tag Spacing:	None
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Tag Type:	None
Fat/Water Saturation:	Fat

---

### **USER CVS**

User CV6:	None
User CV7:	None
User CV8:	None
User CV9:	None
User CV15:	None
User CV18:	None
User CV19:	1.00
User CV21:	None
User CV22:	1.00
User CV30:	1.00
User CV39:	1.00
User CV Mask2:	256

---

### **DIFFUSION**

# Synthetic b-values:	1
Synthetic b-value:	1000.0;
Recon All Images:	On

---

### **SCAN TIMING**

Flip Angle:	111
TE:	80.0
Number of Echoes:	1
TR:	3500.0
Echo Train Length:	19

Receiver Bandwidth: 41.67

---

### **GATING/TRIGGER**

Auto Trigger Type: Off

---

### **MULTI-PHASE**

Seperate Series: 0

Mask Phase: 0

Mask Pause: 0

Preserve: 0

---

### **SCAN RANGE**

FOV: 14.0

Slice Thickness: 3.0

Slice Spacing: 1.0

Number of Slices: 15

Table Delta: 0.00

---

### **ACQ TIMING**

Freq: 288

Phase: 256

Freq DIR: Unswap

NEX: 2.00

Auto Shim: Auto

Phase Correct: On

RF Drive Mode: Quadrature

Excitation Mode: Selective

Fat Shift DIR: Normal

---

**CONTRAST**

Contrast Yes/No: No

---

**TRICKS**

Pause On/Off: On

Auto Subtract: 0

---

**OTHERS**

Anatomical Region: Elbow



# Sag T1

## Sag T1

### PATIENT POSITION

Coil Configuration:	GEM Flex Small
Plane:	OBLIQUE

---

### IMAGING PARAMETERS

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

---

### Image Recon

Intensity Filter:	None
Intensity Correction:	SCIC

---

### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

---

### SAT

Tag Spacing: None

Tag Type: None

---

### **USER CVS**

User CV6: None

User CV7: None

User CV8: None

User CV9: None

User CV15: None

User CV21: None

User CV22: 1.00

User CV39: 1.00

User CV Mask2: 256

---

### **DIFFUSION**

Recon All Images: On

---

### **SCAN TIMING**

Flip Angle: 111

TE: 16.0

Number of Echoes: 1

TR: 800.0

Echo Train Length: 4

Receiver Bandwidth: 41.67

---

### **GATING/TRIGGER**

Auto Trigger Type: Off

---

## MULTI-PHASE

Seperate Series:	0
Mask Phase:	0
Mask Pause:	0

---

## SCAN RANGE

FOV:	14.0
Slice Thickness:	3.0
Slice Spacing:	1.0
Table Delta:	0.00

---

## ACQ TIMING

Freq:	288
Phase:	224
Freq DIR:	Unswap
NEX:	2.00
Auto Shim:	Auto
Phase Correct:	On
RF Drive Mode:	Quadrature
Excitation Mode:	Selective

---

## CONTRAST

Contrast Yes/No:	No
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---

## TRICKS

Pause On/Off:	On
Auto Subtract:	0

---

## **OTHERS**

Anatomical Region:

Elbow

# Sag T2 FAT PROPELLER

## Sag T2 FAT PROPELLER

### PATIENT POSITION

Coil Configuration:	GEM Flex Small
Plane:	OBLIQUE

---

### IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	PROPELLER
Imaging Options:	EDR, TRF, Fast, FR, ARC
Phase:	2.00

---

### Image Recon

Intensity Filter:	None
Intensity Correction:	NONE

---

### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

---

### SAT

Tag Spacing:	None
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Tag Type: None

Fat/Water Saturation: Fat

---

### **USER CVS**

User CV5: None

User CV6: None

User CV15: None

User CV19: 1.00

User CV22: None

User CV39: 1.00

User CV Mask2: 256

TR Min: 400.0

TR Max: 11000.0

---

### **DIFFUSION**

# Synthetic b-values: 1

Synthetic b-value: 1000.0;

Recon All Images: On

---

### **SCAN TIMING**

Flip Angle: 80

TE: 80.0

Number of Echoes: 1

TR: 1906.0

Echo Train Length: 19

Receiver Bandwidth: 41.67

---

### **GATING/TRIGGER**

Auto Trigger Type: Off

---

### **MULTI-PHASE**

Seperate Series: 0

Mask Phase: 0

Mask Pause: 0

Preserve: 0

---

### **SCAN RANGE**

FOV: 14.0

Slice Thickness: 3.0

Slice Spacing: 0.5

Number of Slices: 12

Table Delta: 0.00

---

### **ACQ TIMING**

Freq: 288

Freq DIR: A/P

NEX: 2.00

Auto Shim: On

Phase Correct: Off

RF Drive Mode: Preset

Excitation Mode: Selective

Fat Shift DIR: Normal (A)

---

### **CONTRAST**

Contrast Yes/No: No

---

### **TRICKS**

Pause On/Off: On

Auto Subtract: 0

---

**OTHERS**

Anatomical Region: Elbow



# Cor T1

## Cor T1

### PATIENT POSITION

Coil Configuration:	GEM Flex Small
Plane:	CORONAL

---

### IMAGING PARAMETERS

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

---

### Image Recon

Intensity Filter:	None
Intensity Correction:	SCIC

---

### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

---

### SAT

Tag Spacing: None

Tag Type: None

---

### **USER CVS**

User CV7: None

User CV8: None

User CV9: None

User CV15: None

User CV21: None

User CV22: 1.00

User CV39: 1.00

User CV Mask2: 256

---

### **DIFFUSION**

Recon All Images: On

---

### **SCAN TIMING**

Flip Angle: 111

TE: 16.0

Number of Echoes: 1

TR: 800.0

Echo Train Length: 4

Receiver Bandwidth: 41.67

---

### **GATING/TRIGGER**

Auto Trigger Type: Off

---

### **MULTI-PHASE**

Seperate Series:	0
Mask Phase:	0
Mask Pause:	0

---

### **SCAN RANGE**

FOV:	14.0
Slice Thickness:	3.0
Slice Spacing:	1.0
Table Delta:	0.00

---

### **ACQ TIMING**

Freq:	288
Phase:	224
Freq DIR:	S/I
NEX:	2.00
Auto Shim:	Auto
Phase Correct:	On
RF Drive Mode:	Quadrature
Excitation Mode:	Selective

---

### **CONTRAST**

Contrast Yes/No:	No
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---

### **TRICKS**

Pause On/Off:	On
Auto Subtract:	0

---

### **OTHERS**

Anatomical Region:

Elbow

# Cor T2 dk fat

## Cor T2 dk fat

### PATIENT POSITION

Coil Configuration:	GEM Flex Small
Plane:	OBLIQUE

---

### IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	NPW, EDR, TRF, Fast, FR

---

### Image Recon

Intensity Filter:	None
Intensity Correction:	SCIC

---

### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

---

### SAT

Tag Spacing:	None
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Tag Type: None  
Fat/Water Saturation: Fat

---

### **USER CVS**

User CV6: None  
User CV7: None  
User CV8: None  
User CV9: None  
User CV15: None  
User CV19: 1.00  
User CV21: None  
User CV22: 1.00  
User CV39: 1.00  
User CV Mask2: 256

---

### **DIFFUSION**

Recon All Images: On

---

### **SCAN TIMING**

Flip Angle: 111  
TE: 80.0  
Number of Echoes: 1  
TR: 3500.0  
Echo Train Length: 19  
Receiver Bandwidth: 41.67

---

### **GATING/TRIGGER**

Auto Trigger Type: Off

---

## MULTI-PHASE

Seperate Series:	0
Mask Phase:	0
Mask Pause:	0

---

## SCAN RANGE

FOV:	14.0
Slice Thickness:	3.0
Slice Spacing:	1.0
Number of Slices:	15
Table Delta:	0.00

---

## ACQ TIMING

Freq:	288
Phase:	256
Freq DIR:	Unswap
NEX:	2.00
Auto Shim:	Auto
Phase Correct:	On
RF Drive Mode:	Quadrature
Excitation Mode:	Selective

---

## CONTRAST

Contrast Yes/No:	No
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---

## TRICKS

Pause On/Off:	On
Auto Subtract:	0

**OTHERS**

Anatomical Region:

Elbow



# --Tumor ONLY--

## --Tumor ONLY--

### PATIENT POSITION

Coil Configuration:	GEM Flex Small
Plane:	3-PLANE

---

### IMAGING PARAMETERS

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

---

### Image Recon

Intensity Filter:	None
Intensity Correction:	NONE

---

### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

---

### SAT

Tag Spacing:	None
--------------	------

Tag Type: None

---

### **USER CVS**

User CV1: 1.0  
User CV2: 240.00  
User CV13: 1.00  
TR Min: -  
TR Max: -

---

### **DIFFUSION**

Multi b-values: 1000.0;  
Multi NEX Values: 1;  
Recon All Images: On

---

### **SCAN TIMING**

TE: 85.0  
TR: Minimum  
Receiver Bandwidth: 62.50

---

### **GATING/TRIGGER**

Auto Trigger Type: Off

---

### **MULTI-PHASE**

Seperate Series: 0  
Mask Phase: 0  
Mask Pause: 0

---

### **SCAN RANGE**

FOV: 30.0

Slice Thickness:	5.0
Slice Spacing:	5.0
Table Delta:	0.00

---

### **ACQ TIMING**

Freq:	384
Phase:	256
Freq DIR:	Unswap
# of Acq. Before Pause:	0
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Preset

---

### **CONTRAST**

Contrast Yes/No:	No
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---

### **TRICKS**

Pause On/Off:	On
Auto Subtract:	0

---

### **OTHERS**

3D Geometry Correction:	Off
Anatomical Region:	Elbow

# Pre Ax T1 fat

## Pre Ax T1 fat

### PATIENT POSITION

Coil Configuration:	GEM Flex Small
Plane:	AXIAL

---

### IMAGING PARAMETERS

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

---

### Image Recon

Intensity Filter:	None
Intensity Correction:	SCIC

---

### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

---

### SAT

Tag Spacing:	None
Tag Type:	None
Fat/Water Saturation:	Fat

---

### **USER CVS**

User CV7:	None
User CV8:	None
User CV9:	None
User CV15:	None
User CV17:	1.00
User CV19:	1.00
User CV21:	None
User CV22:	1.00
User CV39:	1.00
User CV Mask2:	256

---

### **DIFFUSION**

Recon All Images:	On
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---

### **SCAN TIMING**

Flip Angle:	111
TE:	16.0
Number of Echoes:	1
TR:	800.0
Echo Train Length:	4
Receiver Bandwidth:	41.67

---

### **GATING/TRIGGER**

Auto Trigger Type: Off

---

### **MULTI-PHASE**

Seperate Series: 0

Mask Phase: 0

Mask Pause: 0

---

### **SCAN RANGE**

FOV: 14.0

Slice Thickness: 3.0

Slice Spacing: 1.0

Table Delta: 0.00

---

### **ACQ TIMING**

Freq: 288

Phase: 224

Freq DIR: A/P

NEX: 1.00

Auto Shim: Auto

Phase Correct: On

RF Drive Mode: Quadrature

Excitation Mode: Selective

---

### **CONTRAST**

Contrast Yes/No: No

---

### **TRICKS**

Pause On/Off: On

Auto Subtract:

0

---

**OTHERS**

Anatomical Region:

Elbow

# --contrast--

## --contrast--

### PATIENT POSITION

Coil Configuration:	GEM Flex Small
Plane:	3-PLANE

---

### IMAGING PARAMETERS

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

---

### Image Recon

Intensity Filter:	None
Intensity Correction:	NONE

---

### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

---

### SAT

Tag Spacing:	None
--------------	------



Tag Type: None

---

### **USER CVS**

User CV1: 1.0  
User CV2: 240.00  
User CV13: 1.00  
TR Min: -  
TR Max: -

---

### **DIFFUSION**

Multi b-values: 1000.0;  
Multi NEX Values: 1;  
Recon All Images: On

---

### **SCAN TIMING**

TE: 85.0  
TR: Minimum  
Receiver Bandwidth: 62.50

---

### **GATING/TRIGGER**

Auto Trigger Type: Off

---

### **MULTI-PHASE**

Seperate Series: 0  
Mask Phase: 0  
Mask Pause: 0

---

### **SCAN RANGE**

FOV: 30.0

---

Slice Thickness:	5.0
Slice Spacing:	5.0
Table Delta:	0.00

---

### **ACQ TIMING**

Freq:	384
Phase:	256
Freq DIR:	Unswap
# of Acq. Before Pause:	0
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Preset

---

### **CONTRAST**

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

---

### **TRICKS**

Pause On/Off:	On
Auto Subtract:	0

---

### **OTHERS**

3D Geometry Correction:	Off
Anatomical Region:	Elbow

# +C Cor T1 fat

## +C Cor T1 fat

### PATIENT POSITION

Coil Configuration:	GEM Flex Small
Plane:	CORONAL

---

### IMAGING PARAMETERS

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

---

### Image Recon

Intensity Filter:	None
Intensity Correction:	SCIC

---

### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

---

### SAT

Tag Spacing:	None
Tag Type:	None
Fat/Water Saturation:	Fat

---

### **USER CVS**

User CV7:	None
User CV8:	None
User CV9:	None
User CV15:	None
User CV19:	1.00
User CV21:	None
User CV22:	1.00
User CV39:	1.00
User CV Mask2:	256

---

### **DIFFUSION**

Recon All Images:	On
-------------------	----

---

### **SCAN TIMING**

Flip Angle:	111
TE:	16.0
Number of Echoes:	1
TR:	800.0
Echo Train Length:	4
Receiver Bandwidth:	41.67

---

### **GATING/TRIGGER**

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

---

---

**MULTI-PHASE**

Seperate Series:	0
Mask Phase:	0
Mask Pause:	0

---

**SCAN RANGE**

FOV:	14.0
Slice Thickness:	3.0
Slice Spacing:	1.0
Table Delta:	0.00

---

**ACQ TIMING**

Freq:	288
Phase:	224
Freq DIR:	S/I
NEX:	2.00
Auto Shim:	Auto
Phase Correct:	On
RF Drive Mode:	Quadrature
Excitation Mode:	Selective

---

**CONTRAST**

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

---

**TRICKS**

Pause On/Off:	On
Auto Subtract:	0

---

**OTHERS**

Anatomical Region:

Elbow

# +C Ax T1 fat

## +C Ax T1 fat

### PATIENT POSITION

Coil Configuration:	GEM Flex Small
Plane:	AXIAL

---

### IMAGING PARAMETERS

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

---

### Image Recon

Intensity Filter:	None
Intensity Correction:	SCIC

---

### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

---

### SAT

Tag Spacing:	None
Tag Type:	None
Fat/Water Saturation:	Fat

---

### **USER CVS**

User CV7:	None
User CV8:	None
User CV9:	None
User CV15:	None
User CV19:	1.00
User CV21:	None
User CV22:	1.00
User CV39:	1.00
User CV Mask2:	256

---

### **DIFFUSION**

Recon All Images:	On
-------------------	----

---

### **SCAN TIMING**

Flip Angle:	111
TE:	16.0
Number of Echoes:	1
TR:	800.0
Echo Train Length:	4
Receiver Bandwidth:	41.67

---

### **GATING/TRIGGER**

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

---



---

**MULTI-PHASE**

Seperate Series:	0
Mask Phase:	0
Mask Pause:	0

---

**SCAN RANGE**

FOV:	14.0
Slice Thickness:	3.0
Slice Spacing:	1.0
Table Delta:	0.00

---

**ACQ TIMING**

Freq:	288
Phase:	224
Freq DIR:	A/P
NEX:	2.00
Auto Shim:	Auto
Phase Correct:	On
RF Drive Mode:	Quadrature
Excitation Mode:	Selective

---

**CONTRAST**

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

---

**TRICKS**

Pause On/Off:	On
Auto Subtract:	0

---

**OTHERS**

Anatomical Region:

Elbow

# +C Sag T1 fat

## +C Sag T1 fat

### PATIENT POSITION

Coil Configuration:	GEM Flex Small
Plane:	SAGITTAL

---

### IMAGING PARAMETERS

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

---

### Image Recon

Intensity Filter:	None
Intensity Correction:	SCIC

---

### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

---

### SAT

Tag Spacing:	None
Tag Type:	None
Fat/Water Saturation:	Fat

---

### **USER CVS**

User CV7:	None
User CV8:	None
User CV9:	None
User CV15:	None
User CV19:	1.00
User CV21:	None
User CV22:	1.00
User CV39:	1.00
User CV Mask2:	256

---

### **DIFFUSION**

Recon All Images:	On
-------------------	----

---

### **SCAN TIMING**

Flip Angle:	111
TE:	16.0
Number of Echoes:	1
TR:	800.0
Echo Train Length:	4
Receiver Bandwidth:	41.67

---

### **GATING/TRIGGER**

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

---

---

**MULTI-PHASE**

Seperate Series:	0
Mask Phase:	0
Mask Pause:	0

---

**SCAN RANGE**

FOV:	14.0
Slice Thickness:	3.0
Slice Spacing:	1.0
Table Delta:	0.00

---

**ACQ TIMING**

Freq:	288
Phase:	224
Freq DIR:	S/I
NEX:	2.00
Auto Shim:	Auto
Phase Correct:	On
RF Drive Mode:	Quadrature
Excitation Mode:	Selective

---

**CONTRAST**

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

---

**TRICKS**

Pause On/Off:	On
Auto Subtract:	0

---

## **OTHERS**

Anatomical Region:

Elbow

# --optional--

## --optional--

### **PATIENT POSITION**

Coil Configuration:	GEM Flex Small
Plane:	3-PLANE

---

### **IMAGING PARAMETERS**

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

---

### **Image Recon**

Intensity Filter:	None
Intensity Correction:	NONE

---

### **FMRI**

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

---

### **SAT**

Tag Spacing:	None
--------------	------

Tag Type: None

---

### **USER CVS**

User CV1: 1.0  
User CV2: 240.00  
User CV13: 1.00  
TR Min: -  
TR Max: -

---

### **DIFFUSION**

Multi b-values: 1000.0;  
Multi NEX Values: 1;  
Recon All Images: On

---

### **SCAN TIMING**

TE: 85.0  
TR: Minimum  
Receiver Bandwidth: 62.50

---

### **GATING/TRIGGER**

Auto Trigger Type: Off

---

### **MULTI-PHASE**

Seperate Series: 0  
Mask Phase: 0  
Mask Pause: 0

---

### **SCAN RANGE**

FOV: 30.0

---



Slice Thickness:	5.0
Slice Spacing:	5.0
Table Delta:	0.00

---

### **ACQ TIMING**

Freq:	384
Phase:	256
Freq DIR:	Unswap
# of Acq. Before Pause:	0
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Preset

---

### **CONTRAST**

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

---

### **TRICKS**

Pause On/Off:	On
Auto Subtract:	0

---

### **OTHERS**

3D Geometry Correction:	Off
Anatomical Region:	Elbow

# Sag T2 dk fat

## Sag T2 dk fat

### PATIENT POSITION

Coil Configuration:	GEM Flex Small
Plane:	OBLIQUE

---

### IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	NPW, EDR, TRF, Fast, FR

---

### Image Recon

Intensity Filter:	None
Intensity Correction:	SCIC

---

### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

---

### SAT

Tag Spacing:	None
--------------	------

Tag Type:	None
Fat/Water Saturation:	Fat

---

### **USER CVS**

User CV6:	None
User CV7:	None
User CV8:	None
User CV9:	None
User CV15:	None
User CV18:	None
User CV19:	1.00
User CV21:	None
User CV22:	1.00
User CV30:	1.00
User CV39:	1.00
User CV Mask2:	256

---

### **DIFFUSION**

# Synthetic b-values:	1
Synthetic b-value:	1000.0;
Recon All Images:	On

---

### **SCAN TIMING**

Flip Angle:	111
TE:	80.0
Number of Echoes:	1
TR:	3500.0
Echo Train Length:	19

Receiver Bandwidth: 41.67

---

### **GATING/TRIGGER**

Auto Trigger Type: Off

---

### **MULTI-PHASE**

Seperate Series: 0

Mask Phase: 0

Mask Pause: 0

Preserve: 0

---

### **SCAN RANGE**

FOV: 14.0

Slice Thickness: 3.0

Slice Spacing: 1.0

Number of Slices: 15

Table Delta: 0.00

---

### **ACQ TIMING**

Freq: 288

Phase: 256

Freq DIR: Unswap

NEX: 2.00

Auto Shim: Auto

Phase Correct: On

RF Drive Mode: Quadrature

Excitation Mode: Selective

Fat Shift DIR: Normal

---

**CONTRAST**

Contrast Yes/No: No

---

**TRICKS**

Pause On/Off: On

Auto Subtract: 0

---

**OTHERS**

Anatomical Region: Elbow