

HUMERUS Tumor SIGNA Artist

Technical Instructions

3pl loc

Cor STIR

Sag STIR

AX T2 FRFSE fat

COR T1 FSE

SAG T1FSE

AX T1 FSE

Pre AX T1FSE fatsat

+C AX T1FSE fatsat

+C COR T1FSE fat

+C SAG T1 FSE dkfat

---optional---

COR FSTIR

Sag FSTIR

opt:T1 IDEAL ARC

opt:T2 IDEAL ARC

opt:COR T2 IDEAL FRFSE

opt:COR T1 IDEAL

opt:SAG T1 IDEAL

opt:SAG T2 IDEAL FRFSE

opt:AX T1 IDEAL

opt: AX T2 IDEAL

COR T2 dkfat FRFSE

SAG T2 dkfat FRFSE

3pl loc

3pl loc

PATIENT POSITION

Coil Configuration:	GE40chGEMPA, Inv16chCardiacAA
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

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: Minimum
Number of Echoes: 1
TR: Minimum
Receiver Bandwidth: 83.33

MULTI-PHASE

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

SCAN RANGE

FOV: 48.0

Slice Thickness:	8.0
Slice Spacing:	3.0
Table Delta:	0.00

ACQ TIMING

Freq:	256
Phase:	128
Freq DIR:	Unswap
# of Acq. Before Pause:	0
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Single
Excitation Mode:	Selective

CONTRAST

Contrast Yes/No:	No
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TRICKS

Pause On/Off:	On
Auto Subtract:	0

OTHERS

Anatomical Region:	Humerus
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Cor STIR

Cor STIR

PATIENT POSITION

Coil Configuration: GE30chAirAA, GE40chGEMPA
Plane: OBLIQUE

IMAGING PARAMETERS

Imaging Mode: 2D
Pulse Sequence: FSE-XL
Imaging Options: FC, Seq, EDR, TRF, Fast, IrP
PSD Name: fse-xl

Image Recon

Intensity Filter: None
Intensity Correction: SCENIC

FMRI

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

SAT

SAT Location S: 9990

SAT Location I:	9990
Tag Spacing:	None
Tag Type:	None

USER CVS

User CV7:	None
User CV8:	None
User CV12:	1.00
User CV15:	None
User CV18:	1.00
User CV21:	1.00
User CV30:	1.00
User CV39:	1.00
User CV Mask2:	256
TR Min:	2000.0
TR Max:	15000.0

DIFFUSION

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

SCAN TIMING

Flip Angle:	160
TE:	42.0
Number of Echoes:	1
TR:	7379.0
TI:	150
Echo Train Length:	13

Receiver Bandwidth: 41.67

MULTI-PHASE

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

SCAN RANGE

FOV: 20.0
Slice Thickness: 4.0
Slice Spacing: 1.0
Number of Slices: 27
Table Delta: 0.00

ACQ TIMING

Freq: 320
Phase: 224
Freq DIR: S/I
NEX: 1.00
Phase FOV: 1.00
Auto Shim: Auto
Phase Correct: On
Flow Comp Direction: Freq
RF Drive Mode: Single
Excitation Mode: Selective
Fat Shift DIR: Normal (I)

CONTRAST

Contrast Yes/No: No

TRICKS

Pause On/Off: On

Auto Subtract: 0

OTHERS

Anatomical Region: Hip joint

Sag STIR

Sag STIR

PATIENT POSITION

Coil Configuration: GE30chAirAA, GE40chGEMPA
Plane: OBLIQUE

IMAGING PARAMETERS

Imaging Mode: 2D
Pulse Sequence: FSE-XL
Imaging Options: FC, Seq, EDR, TRF, Fast, IrP
PSD Name: fse-xl

Image Recon

Intensity Filter: None
Intensity Correction: SCENIC

FMRI

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

SAT

SAT Location S: 9990

SAT Location I:	9990
Tag Spacing:	None
Tag Type:	None

USER CVS

User CV7:	None
User CV8:	None
User CV12:	1.00
User CV15:	None
User CV18:	1.00
User CV21:	1.00
User CV30:	1.00
User CV39:	1.00
User CV Mask2:	256
TR Min:	2000.0
TR Max:	15000.0

DIFFUSION

Multi b-values:	1000.0;
Multi NEX Values:	1.0;
# Synthetic b-values:	1
Synthetic b-value:	1000.0;
Recon All Images:	On

SCAN TIMING

Flip Angle:	160
TE:	42.0
Number of Echoes:	1
TR:	7379.0

TI:	150
Echo Train Length:	13
Receiver Bandwidth:	41.67

MULTI-PHASE

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

SCAN RANGE

FOV:	20.0
Slice Thickness:	4.0
Slice Spacing:	1.0
Number of Slices:	27
Table Delta:	0.00

ACQ TIMING

Freq:	320
Phase:	224
Freq DIR:	S/I
NEX:	1.00
Phase FOV:	0.70
Auto Shim:	Auto
Phase Correct:	On
Flow Comp Direction:	Freq
RF Drive Mode:	Single
Excitation Mode:	Selective

Fat Shift DIR: Normal (I)

CONTRAST

Contrast Yes/No: No

TRICKS

Pause On/Off: On

Auto Subtract: 0

OTHERS

Anatomical Region: Hip joint

AX T2 FRFSE fat

AX T2 FRFSE fat

PATIENT POSITION

Coil Configuration:	GE40chGEMPA, Inv16chCardiacAA
Plane:	OBLIQUE

IMAGING PARAMETERS

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

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
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Tag Type:	None
Fat/Water Saturation:	Fat

USER CVS

User CV6:	None
User CV7:	None
User CV9:	None
User CV12:	1.00
User CV13:	None
User CV15:	None
User CV18:	None
User CV19:	1.00
User CV21:	None
User CV30:	1.00
User CV Mask2:	0

DIFFUSION

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

SCAN TIMING

Flip Angle:	160
TE:	68.0
Number of Echoes:	1
TR:	2500.0
Echo Train Length:	8
Receiver Bandwidth:	25.00

MULTI-PHASE

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

SCAN RANGE

FOV:	18.0
Slice Thickness:	5.0
Slice Spacing:	1.0
Table Delta:	0.00

ACQ TIMING

Freq:	256
Phase:	224
Freq DIR:	Unswap
NEX:	2.00
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Single
Excitation Mode:	Selective
Fat Shift DIR:	Normal

CONTRAST

Contrast Yes/No:	No
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TRICKS

Pause On/Off: On
Auto Subtract: 0

OTHERS

Anatomical Region: Humerus

COR T1 FSE

COR T1 FSE

PATIENT POSITION

Coil Configuration: GE40chGEMPA, Inv16chCardiacAA
Plane: OBLIQUE

IMAGING PARAMETERS

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

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 CV6: None
User CV7: None
User CV9: None
User CV12: 1.00
User CV15: None
User CV16: None
User CV18: None
User CV21: None
User CV30: 1.00
User CV Mask2: 0

DIFFUSION

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

SCAN TIMING

Flip Angle: 160
TE: 20.0
Number of Echoes: 1
TR: 617.0
Echo Train Length: 4
Receiver Bandwidth: 25.00

MULTI-PHASE

Seperate Series: 0

Mask Phase:	0
Mask Pause:	0
Preserve:	0

SCAN RANGE

FOV:	20.0
Slice Thickness:	4.0
Slice Spacing:	1.0
Table Delta:	0.00

ACQ TIMING

Freq:	256
Phase:	224
Freq DIR:	Unswap
NEX:	1.00
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Single
Excitation Mode:	Selective
Fat Shift DIR:	Normal

CONTRAST

Contrast Yes/No:	No
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TRICKS

Pause On/Off:	On
Auto Subtract:	0

OTHERS

Anatomical Region:

Humerus

SAG T1FSE

SAG T1FSE

PATIENT POSITION

Coil Configuration: GE40chGEMPA, Inv16chCardiacAA
Plane: OBLIQUE

IMAGING PARAMETERS

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

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 CV6: None
User CV7: None
User CV9: None
User CV12: 1.00
User CV15: None
User CV16: None
User CV18: None
User CV21: None
User CV30: 1.00
User CV Mask2: 0

DIFFUSION

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

SCAN TIMING

Flip Angle: 160
TE: 20.0
Number of Echoes: 1
TR: 617.0
Echo Train Length: 4
Receiver Bandwidth: 25.00

MULTI-PHASE

Seperate Series: 0

Mask Phase:	0
Mask Pause:	0
Preserve:	0

SCAN RANGE

FOV:	20.0
Slice Thickness:	4.0
Slice Spacing:	1.0
Table Delta:	0.00

ACQ TIMING

Freq:	256
Phase:	224
Freq DIR:	Unswap
NEX:	2.00
Phase FOV:	0.80
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Single
Excitation Mode:	Selective
Fat Shift DIR:	Normal

CONTRAST

Contrast Yes/No:	No
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TRICKS

Pause On/Off:	On
Auto Subtract:	0

OTHERS

Anatomical Region:

Humerus

AX T1 FSE

AX T1 FSE

PATIENT POSITION

Coil Configuration: GE40chGEMPA, Inv16chCardiacAA
Plane: OBLIQUE

IMAGING PARAMETERS

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

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 CV6: None
User CV7: None
User CV9: None
User CV12: 1.00
User CV15: None
User CV16: None
User CV18: None
User CV21: None
User CV30: 1.00
User CV Mask2: 0

DIFFUSION

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

SCAN TIMING

Flip Angle: 160
TE: 20.0
Number of Echoes: 1
TR: 500.0
Echo Train Length: 4
Receiver Bandwidth: 25.00

MULTI-PHASE

Seperate Series: 0

Mask Phase:	0
Mask Pause:	0
Preserve:	0

SCAN RANGE

FOV:	18.0
Slice Thickness:	5.0
Slice Spacing:	1.0
Table Delta:	0.00

ACQ TIMING

Freq:	256
Phase:	224
Freq DIR:	Unswap
NEX:	2.00
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Single
Excitation Mode:	Selective
Fat Shift DIR:	Normal

CONTRAST

Contrast Yes/No:	No
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TRICKS

Pause On/Off:	On
Auto Subtract:	0

OTHERS

Anatomical Region:

Humerus

Pre AX T1FSE fatsat

Pre AX T1FSE fatsat

PATIENT POSITION

Coil Configuration:	GE40chGEMPA, Inv16chCardiacAA
Plane:	OBLIQUE

IMAGING PARAMETERS

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

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
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Tag Type:	None
Fat/Water Saturation:	Fat

USER CVS

User CV6:	None
User CV7:	None
User CV9:	None
User CV12:	1.00
User CV13:	None
User CV15:	None
User CV16:	None
User CV18:	None
User CV19:	1.00
User CV21:	None
User CV30:	1.00
User CV Mask2:	0

DIFFUSION

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

SCAN TIMING

Flip Angle:	160
TE:	20.0
Number of Echoes:	1
TR:	500.0
Echo Train Length:	4

Receiver Bandwidth: 19.23

MULTI-PHASE

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

SCAN RANGE

FOV: 18.0
Slice Thickness: 5.0
Slice Spacing: 1.0
Table Delta: 0.00

ACQ TIMING

Freq: 256
Phase: 224
Freq DIR: Unswap
NEX: 1.00
Phase FOV: 0.80
Auto Shim: Auto
Phase Correct: Off
RF Drive Mode: Single
Excitation Mode: Selective
Fat Shift DIR: Normal

CONTRAST

Contrast Yes/No: No

TRICKS

Pause On/Off:	On
Auto Subtract:	0

OTHERS

Anatomical Region:	Humerus
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+C AX T1FSE fatsat

+C AX T1FSE fatsat

PATIENT POSITION

Coil Configuration:	GE40chGEMPA, Inv16chCardiacAA
Plane:	OBLIQUE

IMAGING PARAMETERS

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

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
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Tag Type:	None
Fat/Water Saturation:	Fat

USER CVS

User CV6:	None
User CV7:	None
User CV9:	None
User CV12:	1.00
User CV13:	None
User CV15:	None
User CV16:	None
User CV18:	None
User CV19:	1.00
User CV21:	None
User CV30:	1.00
User CV Mask2:	0

DIFFUSION

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

SCAN TIMING

Flip Angle:	160
TE:	20.0
Number of Echoes:	1
TR:	500.0
Echo Train Length:	4

Receiver Bandwidth: 19.23

MULTI-PHASE

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

SCAN RANGE

FOV: 18.0
Slice Thickness: 5.0
Slice Spacing: 1.0
Table Delta: 0.00

ACQ TIMING

Freq: 256
Phase: 224
Freq DIR: Unswap
NEX: 2.00
Phase FOV: 0.80
Auto Shim: Auto
Phase Correct: Off
RF Drive Mode: Single
Excitation Mode: Selective
Fat Shift DIR: Normal

CONTRAST

Contrast Yes/No: Yes

TRICKS

Pause On/Off:	On
Auto Subtract:	0

OTHERS

Anatomical Region:	Humerus
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+C COR T1FSE fat

+C COR T1FSE fat

PATIENT POSITION

Coil Configuration:	GE40chGEMPA, Inv16chCardiacAA
Plane:	OBLIQUE

IMAGING PARAMETERS

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

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
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Tag Type:	None
Fat/Water Saturation:	Fat

USER CVS

User CV6:	None
User CV7:	None
User CV9:	None
User CV12:	1.00
User CV13:	None
User CV15:	None
User CV16:	None
User CV18:	None
User CV19:	1.00
User CV21:	None
User CV30:	1.00
User CV Mask2:	0

DIFFUSION

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

SCAN TIMING

Flip Angle:	160
TE:	20.0
Number of Echoes:	1
TR:	775.0
Echo Train Length:	4

Receiver Bandwidth: 19.23

MULTI-PHASE

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

SCAN RANGE

FOV: 20.0
Slice Thickness: 4.0
Slice Spacing: 1.0
Table Delta: 0.00

ACQ TIMING

Freq: 256
Phase: 224
Freq DIR: Unswap
NEX: 1.00
Phase FOV: 1.00
Auto Shim: Auto
Phase Correct: Off
RF Drive Mode: Single
Excitation Mode: Selective
Fat Shift DIR: Normal

CONTRAST

Contrast Yes/No: Yes

TRICKS

Pause On/Off:	On
Auto Subtract:	0

OTHERS

Anatomical Region:	Humerus
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+C SAG T1 FSE dkfat

+C SAG T1 FSE dkfat

PATIENT POSITION

Coil Configuration:	GE40chGEMPA, Inv16chCardiacAA
Plane:	OBLIQUE

IMAGING PARAMETERS

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

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
Fat/Water Saturation:	Fat

USER CVS

User CV6:	None
User CV7:	None
User CV9:	None
User CV12:	1.00
User CV13:	None
User CV15:	None
User CV16:	None
User CV18:	None
User CV19:	1.00
User CV21:	None
User CV30:	1.00
User CV Mask2:	0

DIFFUSION

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

SCAN TIMING

Flip Angle:	160
TE:	20.0
Number of Echoes:	1
TR:	500.0
Echo Train Length:	4

Receiver Bandwidth: 19.23

MULTI-PHASE

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

SCAN RANGE

FOV: 20.0
Slice Thickness: 4.0
Slice Spacing: 1.0
Table Delta: 0.00

ACQ TIMING

Freq: 256
Phase: 224
Freq DIR: Unswap
NEX: 2.00
Phase FOV: 0.80
Auto Shim: Auto
Phase Correct: Off
RF Drive Mode: Single
Excitation Mode: Selective
Fat Shift DIR: Normal

CONTRAST

Contrast Yes/No: Yes

TRICKS

Pause On/Off:	On
Auto Subtract:	0

OTHERS

Anatomical Region:	Humerus
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---optional---

---optional---

PATIENT POSITION

Plane:	3-PLANE
Coil Configuration:	GE40chGEMPA, Inv16chCardiacAA

IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	Spin Echo
Imaging Options:	Seq, 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
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Tag Type: None

USER CVS

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

DIFFUSION

Recon All Images: On

SCAN TIMING

TE: Minimum
TR: Minimum
Receiver Bandwidth: 83.33

GATING/TRIGGER

Auto Trigger Type: Off

MULTI-PHASE

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

SCAN RANGE

FOV: 48.0
Slice Thickness: 8.0
Slice Spacing: 3.0

Table Delta: 0.00

ACQ TIMING

Freq: 256
Phase: 128
Freq DIR: Unswap
of Acq. Before Pause: 0
Phase FOV: 1.00
Auto Shim: Auto
Phase Correct: Off

CONTRAST

Contrast Yes/No: No

TRICKS

Pause On/Off: On
Auto Subtract: 0

OTHERS

Anatomical Region: Humerus

COR FSTIR

COR FSTIR

PATIENT POSITION

Coil Configuration: GE40chGEMPA, Inv16chCardiacAA
Plane: OBLIQUE

IMAGING PARAMETERS

Imaging Mode: 2D
Pulse Sequence: FSE-XL
Imaging Options: Seq, Fast, ZIP512, IrP

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 CV7: None
User CV9: None
User CV12: 1.00
User CV15: None
User CV18: None
User CV21: 1.00
User CV30: 1.00
User CV Mask2: 0

DIFFUSION

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

SCAN TIMING

Flip Angle: 180
TE: 44.0
Number of Echoes: 1
TR: 3350.0
TI: 160
Echo Train Length: 8
Receiver Bandwidth: 19.23

MULTI-PHASE

Seperate Series: 0
Mask Phase: 0

Mask Pause:	0
Preserve:	0

SCAN RANGE

FOV:	20.0
Slice Thickness:	4.0
Slice Spacing:	1.0
Table Delta:	0.00

ACQ TIMING

Freq:	256
Phase:	192
Freq DIR:	Unswap
NEX:	1.00
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Single
Excitation Mode:	Selective
Fat Shift DIR:	Normal

CONTRAST

Contrast Yes/No:	No
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TRICKS

Pause On/Off:	On
Auto Subtract:	0

OTHERS

Anatomical Region:

Humerus

Sag FSTIR

Sag FSTIR

PATIENT POSITION

Coil Configuration:	GE40chGEMPA, Inv16chCardiacAA
Plane:	OBLIQUE

IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	Seq, Fast, ZIP512, IrP

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
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Tag Type: None

USER CVS

User CV7: None
User CV9: None
User CV12: 1.00
User CV15: None
User CV18: None
User CV21: 1.00
User CV30: 1.00
User CV Mask2: 0

DIFFUSION

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

SCAN TIMING

Flip Angle: 180
TE: 44.0
Number of Echoes: 1
TR: 3350.0
TI: 160
Echo Train Length: 8
Receiver Bandwidth: 19.23

MULTI-PHASE

Seperate Series: 0
Mask Phase: 0

Mask Pause:	0
Preserve:	0

SCAN RANGE

FOV:	20.0
Slice Thickness:	4.0
Slice Spacing:	1.0
Table Delta:	0.00

ACQ TIMING

Freq:	256
Phase:	192
Freq DIR:	Unswap
NEX:	2.00
Phase FOV:	0.80
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Single
Excitation Mode:	Selective
Fat Shift DIR:	Normal

CONTRAST

Contrast Yes/No:	No
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TRICKS

Pause On/Off:	On
Auto Subtract:	0

OTHERS

Anatomical Region:

Humerus

opt:T1 IDEAL ARC

opt:T1 IDEAL ARC

PATIENT POSITION

Plane:	OBLIQUE
Coil Configuration:	GE40chGEMPA, Inv16chCardiacAA

IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	EDR, TRF, Fast, ZIP512, IDEAL, ARC
PSD Name:	fseidealarc
IDEAL:	3
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 CV2: None

User CV6: None

User CV8: None

User CV16: None

User CV21: None

TR Min: -

TR Max: -

DIFFUSION

Recon All Images: On

SCAN TIMING

TE: 20.0

TR: 600.0

Echo Train Length: 4

Receiver Bandwidth: 19.23

Flip Angle: 160

GATING/TRIGGER

Auto Trigger Type: Off

MULTI-PHASE

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

SCAN RANGE

FOV:	36.0
Slice Thickness:	4.0
Slice Spacing:	2.0
Table Delta:	0.00

ACQ TIMING

Freq:	256
Phase:	192
Freq DIR:	Unswap
NEX:	1.00
Auto Shim:	Auto
Phase Correct:	On

CONTRAST

Contrast Yes/No:	Yes
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TRICKS

Pause On/Off:	On
Auto Subtract:	0

OTHERS

Anatomical Region:	Humerus
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opt:T2 IDEAL ARC

opt:T2 IDEAL ARC

PATIENT POSITION

Plane:	OBLIQUE
Coil Configuration:	GE40chGEMPA, Inv16chCardiacAA

IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	EDR, TRF, Fast, ZIP512, FR, IDEAL, ARC
PSD Name:	fseidealarc
IDEAL:	3
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 CV2: None

User CV6: None

User CV8: None

User CV16: None

User CV21: None

TR Min: -

TR Max: -

DIFFUSION

Recon All Images: On

SCAN TIMING

TE: 68.0

TR: 3000.0

Echo Train Length: 13

Receiver Bandwidth: 19.23

Flip Angle: 160

GATING/TRIGGER

Auto Trigger Type: Off

MULTI-PHASE

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

SCAN RANGE

FOV:	18.0
Slice Thickness:	4.0
Slice Spacing:	2.0
Table Delta:	0.00

ACQ TIMING

Freq:	256
Phase:	224
Freq DIR:	Unswap
NEX:	1.00
Auto Shim:	Auto
Phase Correct:	On

CONTRAST

Contrast Yes/No:	No
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TRICKS

Pause On/Off:	On
Auto Subtract:	0

OTHERS

Anatomical Region:	Humerus
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opt:COR T2 IDEAL FRFSE

opt:COR T2 IDEAL FRFSE

PATIENT POSITION

Plane:	OBLIQUE
Coil Configuration:	GE40chGEMPA, Inv16chCardiacAA

IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	TRF, Fast, ZIP512, FR, IDEAL
IDEAL:	3

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 CV6: None

User CV8: None

User CV9: None

User CV15: None

User CV17: None

User CV21: None

TR Min: -

TR Max: -

DIFFUSION

Recon All Images: On

SCAN TIMING

TE: 68.0

TR: 3000.0

Echo Train Length: 13

Receiver Bandwidth: 19.23

Flip Angle: 160

GATING/TRIGGER

Auto Trigger Type: Off

MULTI-PHASE

Seperate Series: 0

Mask Phase:	0
Mask Pause:	0

SCAN RANGE

FOV:	40.0
Slice Thickness:	4.0
Slice Spacing:	2.0
Table Delta:	0.00

ACQ TIMING

Freq:	256
Phase:	224
Freq DIR:	Unswap
NEX:	0.50
# of Acq. Before Pause:	0
Auto Shim:	Auto
Phase Correct:	Off

CONTRAST

Contrast Yes/No:	No
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TRICKS

Pause On/Off:	On
Auto Subtract:	0

OTHERS

Anatomical Region:	Humerus
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opt:COR T1 IDEAL

opt:COR T1 IDEAL

PATIENT POSITION

Plane:	OBLIQUE
Coil Configuration:	GE40chGEMPA, Inv16chCardiacAA

IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	TRF, Fast, ZIP512, IDEAL
IDEAL:	3

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 CV6: None

User CV8: None

User CV9: None

User CV15: None

User CV21: None

TR Min: -

TR Max: -

DIFFUSION

Recon All Images: On

SCAN TIMING

TE: 20.0

TR: 500.0

Echo Train Length: 4

Receiver Bandwidth: 19.23

Flip Angle: 160

GATING/TRIGGER

Auto Trigger Type: Off

MULTI-PHASE

Seperate Series: 0

Mask Phase: 0

Mask Pause: 0

SCAN RANGE

FOV: 40.0

Slice Thickness: 4.0

Slice Spacing: 2.0

Table Delta: 0.00

ACQ TIMING

Freq: 256

Phase: 192

Freq DIR: Unswap

NEX: 1.00

of Acq. Before Pause: 0

Auto Shim: Auto

Phase Correct: Off

CONTRAST

Contrast Yes/No: Yes

TRICKS

Pause On/Off: On

Auto Subtract: 0

OTHERS

Anatomical Region: Humerus

opt:SAG T1 IDEAL

opt:SAG T1 IDEAL

PATIENT POSITION

Plane:	OBLIQUE
Coil Configuration:	GE40chGEMPA, Inv16chCardiacAA

IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	TRF, Fast, ZIP512, IDEAL
IDEAL:	3

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 CV6: None

User CV8: None

User CV9: None

User CV15: None

User CV17: None

User CV21: None

TR Min: -

TR Max: -

DIFFUSION

Recon All Images: On

SCAN TIMING

TE: 20.0

TR: 500.0

Echo Train Length: 4

Receiver Bandwidth: 19.23

Flip Angle: 160

GATING/TRIGGER

Auto Trigger Type: Off

MULTI-PHASE

Seperate Series: 0

Mask Phase: 0
Mask Pause: 0

SCAN RANGE

FOV: 40.0
Slice Thickness: 4.0
Slice Spacing: 2.0
Table Delta: 0.00

ACQ TIMING

Freq: 256
Phase: 192
Freq DIR: Unswap
NEX: 0.50
of Acq. Before Pause: 0
Phase FOV: 0.80
Auto Shim: Auto
Phase Correct: Off

CONTRAST

Contrast Yes/No: Yes

TRICKS

Pause On/Off: On
Auto Subtract: 0

OTHERS

Anatomical Region: Humerus

opt:SAG T2 IDEAL FRFSE

opt:SAG T2 IDEAL FRFSE

PATIENT POSITION

Plane:	OBLIQUE
Coil Configuration:	GE40chGEMPA, Inv16chCardiacAA

IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	TRF, Fast, ZIP512, FR, IDEAL
IDEAL:	3

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 CV6: None

User CV8: None

User CV9: None

User CV15: None

User CV21: None

TR Min: -

TR Max: -

DIFFUSION

Recon All Images: On

SCAN TIMING

TE: 68.0

TR: 3000.0

Echo Train Length: 13

Receiver Bandwidth: 19.23

Flip Angle: 160

GATING/TRIGGER

Auto Trigger Type: Off

MULTI-PHASE

Seperate Series: 0

Mask Phase: 0

Mask Pause: 0

SCAN RANGE

FOV: 40.0

Slice Thickness: 4.0

Slice Spacing: 2.0

Table Delta: 0.00

ACQ TIMING

Freq: 256

Phase: 224

Freq DIR: Unswap

NEX: 1.00

of Acq. Before Pause: 0

Phase FOV: 0.80

Auto Shim: Auto

Phase Correct: Off

CONTRAST

Contrast Yes/No: No

TRICKS

Pause On/Off: On

Auto Subtract: 0

OTHERS

Anatomical Region: Humerus

opt:AX T1 IDEAL

opt:AX T1 IDEAL

PATIENT POSITION

Plane:	OBLIQUE
Coil Configuration:	GE40chGEMPA, Inv16chCardiacAA

IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	TRF, Fast, ZIP512, IDEAL
IDEAL:	3

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 CV6: None

User CV8: None

User CV9: None

User CV15: None

User CV17: None

User CV21: None

TR Min: -

TR Max: -

DIFFUSION

Recon All Images: On

SCAN TIMING

TE: 20.0

TR: 750.0

Echo Train Length: 4

Receiver Bandwidth: 19.23

Flip Angle: 160

GATING/TRIGGER

Auto Trigger Type: Off

MULTI-PHASE

Seperate Series: 0

Mask Phase: 0
Mask Pause: 0

SCAN RANGE

FOV: 18.0
Slice Thickness: 5.0
Slice Spacing: 2.5
Table Delta: 0.00

ACQ TIMING

Freq: 256
Phase: 192
Freq DIR: Unswap
NEX: 0.50
of Acq. Before Pause: 0
Phase FOV: 0.80
Auto Shim: Auto
Phase Correct: Off

CONTRAST

Contrast Yes/No: Yes

TRICKS

Pause On/Off: On
Auto Subtract: 0

OTHERS

Anatomical Region: Humerus

opt: AX T2 IDEAL

opt: AX T2 IDEAL

PATIENT POSITION

Plane:	OBLIQUE
Coil Configuration:	GE40chGEMPA, Inv16chCardiacAA

IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	TRF, Fast, ZIP512, FR, IDEAL
IDEAL:	3

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 CV6: None

User CV8: None

User CV9: None

User CV15: None

User CV17: None

User CV21: None

TR Min: -

TR Max: -

DIFFUSION

Recon All Images: On

SCAN TIMING

TE: 68.0

TR: 2500.0

Echo Train Length: 13

Receiver Bandwidth: 19.23

Flip Angle: 160

GATING/TRIGGER

Auto Trigger Type: Off

MULTI-PHASE

Seperate Series: 0

Mask Phase: 0
Mask Pause: 0

SCAN RANGE

FOV: 18.0
Slice Thickness: 5.0
Slice Spacing: 2.5
Table Delta: 0.00

ACQ TIMING

Freq: 256
Phase: 224
Freq DIR: Unswap
NEX: 0.50
of Acq. Before Pause: 0
Phase FOV: 1.00
Auto Shim: Auto
Phase Correct: Off

CONTRAST

Contrast Yes/No: No

TRICKS

Pause On/Off: On
Auto Subtract: 0

OTHERS

Anatomical Region: Humerus

COR T2 dkfat FRFSE

COR T2 dkfat FRFSE

PATIENT POSITION

Plane:	OBLIQUE
Coil Configuration:	GE40chGEMPA, Inv16chCardiacAA

IMAGING PARAMETERS

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

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
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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
TR Min:	-
TR Max:	-

DIFFUSION

Recon All Images:	On
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SCAN TIMING

TE:	68.0
Number of Echoes:	1
TR:	3000.0
Echo Train Length:	6
Receiver Bandwidth:	25.00
Flip Angle:	160

GATING/TRIGGER

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

MULTI-PHASE

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

SCAN RANGE

FOV:	40.0
Slice Thickness:	4.0
Slice Spacing:	2.0
Table Delta:	0.00

ACQ TIMING

Freq:	256
Phase:	224
Freq DIR:	Unswap
NEX:	1.00
Auto Shim:	Auto
Phase Correct:	Off

CONTRAST

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

TRICKS

Pause On/Off:	On
Auto Subtract:	0

OTHERS

Anatomical Region:	Humerus
--------------------	---------

SAG T2 dkfat FRFSE

SAG T2 dkfat FRFSE

PATIENT POSITION

Plane:	OBLIQUE
Coil Configuration:	GE40chGEMPA, Inv16chCardiacAA

IMAGING PARAMETERS

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

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
Fat/Water Saturation:	Fat

USER CVS

User CV6:	None
User CV7:	None
User CV8:	None
User CV15:	None
User CV19:	1.00
User CV21:	None
TR Min:	-
TR Max:	-

DIFFUSION

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

SCAN TIMING

TE:	68.0
Number of Echoes:	1
TR:	5000.0
Echo Train Length:	8
Receiver Bandwidth:	25.00
Flip Angle:	160

GATING/TRIGGER

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

MULTI-PHASE

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

SCAN RANGE

FOV:	40.0
Slice Thickness:	4.0
Slice Spacing:	2.0
Table Delta:	0.00

ACQ TIMING

Freq:	256
Phase:	224
Freq DIR:	Unswap
NEX:	2.00
Phase FOV:	0.80
Auto Shim:	Auto
Phase Correct:	Off

CONTRAST

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

TRICKS

Pause On/Off:	On
Auto Subtract:	0

OTHERS

Anatomical Region:

Humerus