

# WRIST Pain or Scaphoid FX OP SIGNA Artist

## Technical Instructions

-add NPW if by side---

Midline 3pl Loc

Ax T1 DL

Ax T2 FSE cl fatDL

Cor PD DL

Cor T2 cl fat DL

Sag T2 cl fat DL

---Pain---

Cor T2 Cube FS DL

---Scaphoid Fx OP---

Sag T1 DL

Cor oZTEo MR Bone

# -add NPW if by side---

Detailstab

Protocolnotes

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## -add NPW if by side---

### PATIENTPOSITION

Coil Configuration:	RFT8chFootAnkle
Plane:	3-PLANE

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### IMAGINGPARAMETERS

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

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### ImageRecon

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

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### SCANRANGE

FOV:	28.0
Slice Thickness:	5.00
Slice Spacing:	8.0
Overlap Locations:	0
No Phase Wrap:	1.00

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## **ACQTIMING**

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

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## **SCANTIMING**

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

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## **CONTRAST**

Contrast Yes/No:	No
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## **OTHERS**

Anatomical Region:	Wrist joint
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## **USERCVS**

User CV1:	1.00
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# Midline 3pl Loc

Detailstab

Protocolnotes

## Midline 3pl Loc

### PATIENTPOSITION

Coil Configuration: QED16chHandWrist  
Plane: 3-PLANE

### IMAGINGPARAMETERS

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

### ImageRecon

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

### SCANRANGE

FOV: 28.0  
Slice Thickness: 5.00  
Slice Spacing: 8.0  
Overlap Locations: 0  
No Phase Wrap: 1.00

## **ACQTIMING**

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

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## **SCANTIMING**

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

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## **CONTRAST**

Contrast Yes/No:	No
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## **OTHERS**

Anatomical Region:	Wrist joint
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## **USERCVS**

User CV1:	1.00
User CV39:	1.00

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Detailstab

Protocolnotes

## Ax T1 DL

### PATIENTPOSITION

Coil Configuration:	QED16chHandWrist
Plane:	AXIAL

### IMAGINGPARAMETERS

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

### ImageRecon

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

### SCANRANGE

FOV:	10.0
Slice Thickness:	3.00
Slice Spacing:	0.5
Overlap Locations:	0
No Phase Wrap:	1.00

## **ACQTIMING**

Acq Voxel Size:	0.4 X 0.5 X 3.0
Freq:	256
Phase:	192
Freq DIR:	R/L
NEX:	2.00
Phase FOV:	0.80
Auto Shim:	Auto
Phase Correct:	On
RF Drive Mode:	Quadrature
Excitation Mode:	Selective
Fat Shift DIR:	Normal (L)

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## **SCANTIMING**

Flip Angle:	160
TE:	20.0
Number of Echoes:	1
TR:	600.0
Echo Train Length:	3
Receiver Bandwidth:	14.71

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## **CONTRAST**

Contrast Yes/No:	No
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## **OTHERS**

Anatomical Region:	Wrist joint
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<b>User CV6:</b>	<b>None</b>
User CV7:	None
User CV8:	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 CV39:	1.00

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## Non-Viewable Parameters

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# Ax T2 FSE cl fatDL

Detailstab

Protocolnotes

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## Ax T2 FSE cl fatDL

### PATIENTPOSITION

Coil Configuration:	QED16chHandWrist
Plane:	AXIAL

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### IMAGINGPARAMETERS

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

---

### ImageRecon

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

---

### SCANRANGE

FOV:	10.0
Slice Thickness:	3.00
Slice Spacing:	0.5
Overlap Locations:	0
No Phase Wrap:	1.00

---

## **ACQTIMING**

Acq Voxel Size:	0.4 X 0.4 X 3.0
Freq:	256
Phase:	224
Freq DIR:	R/L
NEX:	2.00
Phase FOV:	0.80
Auto Shim:	Auto
Phase Correct:	On
Flow Comp Direction:	Slice
RF Drive Mode:	Quadrature
Excitation Mode:	Selective
Fat Shift DIR:	Normal (L)

---

## **SCANTIMING**

Flip Angle:	160
TE:	80.0
Number of Echoes:	1
TR:	2752.0
Echo Train Length:	10
Receiver Bandwidth:	22.73

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## **CONTRAST**

Contrast Yes/No:	No
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## **OTHERS**

Anatomical Region:	Wrist joint
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## **SAT**

Fat/Water Saturation: Fat Classic

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## **USERCVS**

User CV6:	None
User CV7:	None
User CV8:	None
User CV12:	1.00
User CV15:	None
User CV16:	None
User CV18:	None
User CV19:	1.00
User CV21:	None
User CV30:	1.00
TR Min:	3000.0
TR Max:	10000.0

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## **Non-Viewable Parameters**

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# Cor PD DL

Detailstab

Protocolnotes

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## Cor PD DL

### PATIENTPOSITION

Coil Configuration:	QED16chHandWrist
Plane:	OBLIQUE

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### IMAGINGPARAMETERS

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

---

### ImageRecon

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

---

### SCANRANGE

FOV:	10.0
Slice Thickness:	2.00
Slice Spacing:	0.2
Overlap Locations:	0
Number of Slices:	22

**No Phase Wrap:** 1.00

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**ACQTIMING**

Acq Voxel Size: 0.3 X 0.3 X 2.0  
Freq: 356  
Phase: 356  
Freq DIR: S/I  
NEX: 1.00  
Phase FOV: 1.00  
Auto Shim: Auto  
Phase Correct: On  
RF Drive Mode: Quadrature  
Excitation Mode: Selective  
Fat Shift DIR: Normal (I)

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**SCANTIMING**

Flip Angle: 160  
TE: 20.0  
Number of Echoes: 1  
TR: 1500.0  
Echo Train Length: 6  
Receiver Bandwidth: 41.67

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**CONTRAST**

Contrast Yes/No: No

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**OTHERS**

Anatomical Region: Wrist joint

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**USERCVS**

User CV6:	None
User CV8:	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 CV39:	1.00
TR Min:	1500.0
TR Max:	2000.0

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**Non-Viewable Parameters**

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# Cor T2 cl fat DL

Detailstab

Protocolnotes

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## Cor T2 cl fat DL

### PATIENTPOSITION

Coil Configuration: QED16chHandWrist

Plane: OBLIQUE

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### IMAGINGPARAMETERS

Imaging Mode: 2D

Imaging Options: FC, TRF, Fast, ZIP512

Pulse Sequence: FSE-XL

---

### ImageRecon

Recon DL Strength: Medium

Intensity Correction: NONE

Intensity Filter: None

Save Original: Off

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### SCANRANGE

FOV: 10.0

Slice Thickness: 2.00

Slice Spacing: 0.2

Overlap Locations: 0

Number of Slices: 19

No Phase Wrap: 1.00

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## **ACQTIMING**

Acq Voxel Size:	0.4 X 0.4 X 2.0
Freq:	256
Phase:	224
Freq DIR:	S/I
NEX:	1.50
# of Acq. Before Pause:	0
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	On
Flow Comp Direction:	Freq
RF Drive Mode:	Quadrature
Excitation Mode:	Selective
Fat Shift DIR:	Normal (I)

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## **SCANTIMING**

Flip Angle:	160
TE:	35.0
Number of Echoes:	1
TR:	3000.0
Echo Train Length:	10
Receiver Bandwidth:	31.25

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## **CONTRAST**

Contrast Yes/No:	No
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## **OTHERS**

Anatomical Region:	Wrist joint
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**SAT**

Fat/Water Saturation: Fat Classic

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**USERCVS**

User CV6:	None
User CV7:	None
User CV8:	None
User CV12:	1.00
User CV15:	None
User CV16:	None
User CV18:	None
User CV19:	1.00
User CV21:	None
User CV30:	1.00

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**Non-Viewable Parameters**

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# Sag T2 cl fat DL

Detailstab

Protocolnotes

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## Sag T2 cl fat DL

### PATIENTPOSITION

Coil Configuration:	QED16chHandWrist
Plane:	OBLIQUE

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### IMAGINGPARAMETERS

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

---

### ImageRecon

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

---

### SCANRANGE

FOV:	10.0
Slice Thickness:	3.00
Slice Spacing:	0.5
Overlap Locations:	0
Number of Slices:	13
No Phase Wrap:	1.00

---

## **ACQTIMING**

Acq Voxel Size:	0.4 X 0.4 X 3.0
Freq:	256
Phase:	224
Freq DIR:	S/I
NEX:	1.50
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	On
Flow Comp Direction:	Freq
RF Drive Mode:	Quadrature
Excitation Mode:	Selective
Fat Shift DIR:	Normal (I)

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## **SCANTIMING**

Flip Angle:	160.0
TE:	35.0
Number of Echoes:	1
TR:	3200.0
Echo Train Length:	10
Receiver Bandwidth:	19.23

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## **CONTRAST**

Contrast Yes/No:	No
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## **OTHERS**

Anatomical Region:	Wrist joint
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## **SAT**

Fat/Water Saturation: Fat Classic

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## **USERCVS**

User CV6:	None
User CV7:	None
User CV15:	None
User CV16:	None
User CV18:	None
User CV19:	1.00
User CV21:	None

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## **Non-Viewable Parameters**

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# ---Pain---

Detailstab

Protocolnotes

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## ---Pain---

### PATIENTPOSITION

Coil Configuration: QED16chHandWrist

Plane: 3-PLANE

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### IMAGINGPARAMETERS

Imaging Mode: 2D

Imaging Options: Seq, Fast

Pulse Sequence: Gradient Echo

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### ImageRecon

Intensity Correction: NONE

Intensity Filter: None

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### SCANRANGE

FOV: 24.0

Slice Thickness: 4.0

Slice Spacing: 5.0

No Phase Wrap: 1.00

---

### ACQTIMING

Acq Voxel Size: 0.9 X 1.9 X 4.0

Freq: 256

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

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### **CONTRAST**

Contrast Yes/No:	No
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### **OTHERS**

Anatomical Region:	Wrist joint
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### **GATING/TRIGGER**

Auto Trigger Type:	Off
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### **USERCVS**

TR Min:	-
TR Max:	-

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**Non-Viewable Parameters**

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# Cor T2 Cube FS DL

Detailstab

Protocolnotes

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## Cor T2 Cube FS DL

### PATIENTPOSITION

Coil Configuration: QED16chHandWrist

Plane: OBLIQUE

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### IMAGINGPARAMETERS

Imaging Mode: 3D

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

Pulse Sequence: Cube

ARC Phase: 2.00

ARC Slice: 2.00

---

### ImageRecon

Recon DL Strength: Medium

Intensity Correction: SCENIC

Intensity Filter: None

Save Original: Off

---

### SCANRANGE

FOV: 10.0

Slice Thickness: 0.30

Slices per Slab: 152

Overlap Locations: 0

Number of Slices: 1

<b>No Slab Wrap:</b>	<b>1.05</b>
No Phase Wrap:	1.00
Slice Resolution(%):	50.00

---

### **ACQTIMING**

Acq Voxel Size:	0.4 X 0.5 X 0.3
Freq:	256
Phase:	192
Freq DIR:	S/I
NEX:	1.00
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Quadrature
Excitation Mode:	Selective
Fat Shift DIR:	Normal (S)

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### **SCANTIMING**

TE:	35.0
Number of Echoes:	1
TR:	2000.0
Echo Train Length:	30
Receiver Bandwidth:	62.50

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### **TRACKER**

Tracker Length:	200.0
Tracker Thickness:	20.0

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## **CONTRAST**

Contrast Yes/No: No

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## **OTHERS**

3D Geometry Correction: Off

Anatomical Region: Wrist joint

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## **SAT**

Fat/Water Saturation: Fat

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## **USERCVS**

User CV5: 0.80

User CV12: 70.00

User CV22: 1.00

User CV32: 1.00

User CV34: 100.00

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**Non-Viewable Parameters**

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# ---Scaphoid Fx OP---

Detailstab

Protocolnotes

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## ---Scaphoid Fx OP---

### PATIENTPOSITION

Coil Configuration:	QED16chHandWrist
Plane:	3-PLANE

---

### IMAGINGPARAMETERS

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

---

### ImageRecon

Intensity Correction:	NONE
Intensity Filter:	None

---

### SCANRANGE

FOV:	24.0
Slice Thickness:	4.0
Slice Spacing:	5.0
No Phase Wrap:	1.00

---

### ACQTIMING

Acq Voxel Size:	0.9 X 1.9 X 4.0
Freq:	256

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

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## CONTRAST

Contrast Yes/No:	No
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## OTHERS

Anatomical Region:	Wrist joint
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## GATING/TRIGGER

Auto Trigger Type:	Off
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## USERCVS

TR Min:	-
TR Max:	-

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**Non-Viewable Parameters**

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# Sag T1 DL

Detailstab

Protocolnotes

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## Sag T1 DL

### PATIENTPOSITION

Coil Configuration:	QED16chHandWrist
Plane:	OBLIQUE

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### IMAGINGPARAMETERS

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

---

### ImageRecon

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

---

### SCANRANGE

FOV:	10.0
Slice Thickness:	2.00
Slice Spacing:	0.2
Overlap Locations:	0
Number of Slices:	20

**No Phase Wrap:** 1.00

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**ACQTIMING**

Acq Voxel Size: 0.4 X 0.4 X 2.0  
Freq: 256  
Phase: 224  
Freq DIR: S/I  
NEX: 1.00  
Phase FOV: 1.00  
Auto Shim: Auto  
Phase Correct: On  
RF Drive Mode: Quadrature  
Excitation Mode: Selective  
Fat Shift DIR: Normal (I)

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**SCANTIMING**

Flip Angle: 160  
TE: 20.0  
Number of Echoes: 1  
TR: 525.0  
Echo Train Length: 3  
Receiver Bandwidth: 15.63

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**CONTRAST**

Contrast Yes/No: No

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**OTHERS**

Anatomical Region: Wrist joint

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**USERCVS**

User CV6:	None
User CV8:	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 CV39:	1.00

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**Non-Viewable Parameters**

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# Cor oZTEo MR Bone

Detailstab

Protocolnotes

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## Cor oZTEo MR Bone

### PATIENTPOSITION

Coil Configuration: QED16chHandWrist  
Plane: OBLIQUE

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### IMAGINGPARAMETERS

Imaging Mode: 3D  
Imaging Options: Fast, SqP  
Pulse Sequence: SPGR  
PSD Name: ozteo

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### ImageRecon

Recon DL Strength: Off  
Intensity Correction: SCENIC  
Intensity Filter: G - Noise reduction  
Save Original: On

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### SCANRANGE

FOV: 14.0  
Slice Thickness: 1.00  
Overlap Locations: 0  
No Slab Wrap: 1.00  
Slice Resolution(%): 100.00

---

## **ACQTIMING**

Freq:	180
Freq DIR:	Unswap
NEX:	8.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Quadrature
Excitation Mode:	Selective
Spokes Per Segment:	384

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## **SCANTIMING**

Flip Angle:	2
Number of Echoes:	1
Receiver Bandwidth:	50.00

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## **CONTRAST**

Contrast Yes/No:	No
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## **OTHERS**

Anatomical Region:	Foot
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## **GATING/TRIGGER**

Pause After Navigator Prescan:	0
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## **USERCVS**

User CV4:	None
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