

# Bony Pelvis Tumor SIGNA Artist

## Technical Instructions

--power inj/subtractions

3 plane loc

Cor FSTIR DL

Sag FSTIR DL

Cor T1 DL

Ax T2 Fat DL

Ax T1 DL

Ax T1 Lava-Flex Pre

Ax T1 Lava-Flex 2min

Cor T1 Lava-Flex

Sag T1 Lava-Flex

+c Ax T1 Fat DL



# --power inj/subtractions

Detailstab

Protocolnotes

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## --power inj/subtractions

### PATIENTPOSITION

Coil Configuration: GE40chGEMPA, GE16chTDIAA  
Plane: 3-PLANE

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### IMAGINGPARAMETERS

Imaging Mode: 2D  
Imaging Options: Seq, EDR, 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: 48.0  
Slice Thickness: 10.00  
Slice Spacing: 0.0  
Overlap Locations: 0  
No Phase Wrap: 1.00

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## **ACQTIMING**

Acq Voxel Size:	1.9 X 3.8 X 10.0
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:	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:	Pelvis
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## **USERCVS**

User CV1:	1.00
User CV2:	240.00

**User CV13:**

**1.00**

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**Non-Viewable Parameters**

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# 3 plane loc

Detailstab

Protocolnotes

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## 3 plane loc

### PATIENTPOSITION

Coil Configuration: GE40chGEMPA, GE16chTDIAA  
Plane: 3-PLANE

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### IMAGINGPARAMETERS

Imaging Mode: 2D  
Imaging Options: Seq, EDR, 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: 48.0  
Slice Thickness: 10.00  
Slice Spacing: 0.0  
Overlap Locations: 0  
No Phase Wrap: 1.00

---

## **ACQTIMING**

Acq Voxel Size:	1.9 X 3.8 X 10.0
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:	Quadrature
Excitation Mode:	Selective

---

## **SCANTIMING**

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

---

## **CONTRAST**

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

Anatomical Region:	Pelvis
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## **USERCVS**

User CV1:	1.00
User CV2:	240.00
User CV13:	1.00

**User CV39:**

**1.00**

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**Non-Viewable Parameters**

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# Cor FSTIR DL

Detailstab

Protocolnotes

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## Cor FSTIR DL

### PATIENTPOSITION

Coil Configuration: GE40chGEMPA, GE16chTDIAA

Plane: OBLIQUE

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### IMAGINGPARAMETERS

Imaging Mode: 2D

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

Pulse Sequence: FSE-XL

ARC Phase: 2.00

---

### ImageRecon

Recon DL Strength: Medium

Intensity Correction: PURE

Intensity Filter: None

Save Original: Off

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### SCANRANGE

FOV: 40.0

Slice Thickness: 4.00

Slice Spacing: 2.0

Overlap Locations: 0

Number of Slices: 26

**No Phase Wrap:** 1.50

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**ACQTIMING**

Acq Voxel Size: 1.4 X 1.8 X 4.0  
Freq: 288  
Phase: 224  
Freq DIR: Unswap  
NEX: 1.00  
# of Acq. Before Pause: 0  
Phase FOV: 1.00  
Auto Shim: Auto  
Phase Correct: Off  
RF Drive Mode: Quadrature  
Excitation Mode: Selective  
Fat Shift DIR: Normal

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**SCANTIMING**

Flip Angle: 160.0  
TE: 44.0  
Number of Echoes: 1  
TR: 3128.0  
TI: 160  
Echo Train Length: 8  
Receiver Bandwidth: 31.25

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**CONTRAST**

Contrast Yes/No: No

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## **OTHERS**

Anatomical Region: Pelvis

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## **USERCVS**

User CV9: None  
User CV15: None  
User CV18: None  
User CV21: None  
User CV26: 1.00  
User CV29: None  
TR Min: 2000.0  
TR Max: 15000.0

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## **Non-Viewable Parameters**

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# Sag FSTIR DL

Detailstab

Protocolnotes

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## Sag FSTIR DL

### PATIENTPOSITION

Coil Configuration:	GE40chGEMPA, GE16chTDIAA
Plane:	OBLIQUE

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### IMAGINGPARAMETERS

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

---

### ImageRecon

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

---

### SCANRANGE

FOV:	40.0
Slice Thickness:	7.00
Slice Spacing:	3.0
Overlap Locations:	0
No Phase Wrap:	1.00

---

## **ACQTIMING**

Acq Voxel Size:	1.6 X 2.1 X 7.0
Freq:	256
Phase:	192
Freq DIR:	Unswap
NEX:	1.00
Phase FOV:	0.80
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Quadrature
Excitation Mode:	Selective
Fat Shift DIR:	Normal

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## **SCANTIMING**

Flip Angle:	160.0
TE:	44.0
Number of Echoes:	1
TR:	3200.0
TI:	160
Echo Train Length:	8
Receiver Bandwidth:	35.71

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## **CONTRAST**

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

Anatomical Region:	Pelvis
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**USERCVS**

User CV9:	None
User CV15:	None
User CV18:	None
User CV21:	None
User CV26:	1.00
User CV29:	None

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**Non-Viewable Parameters**

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# Cor T1 DL

Detailstab

Protocolnotes

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## Cor T1 DL

### PATIENTPOSITION

Coil Configuration: GE40chGEMPA, GE16chTDIAA

Plane: OBLIQUE

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### IMAGINGPARAMETERS

Imaging Mode: 2D

Imaging Options: EDR, TRF, Fast, ARC

Pulse Sequence: FSE-XL

ARC Phase: 1.50

---

### ImageRecon

Recon DL Strength: Medium

Intensity Correction: SCENIC

Intensity Filter: None

Save Original: On

---

### SCANRANGE

FOV: 38.0

Slice Thickness: 4.00

Slice Spacing: 2.0

Overlap Locations: 0

Number of Slices: 18

**No Phase Wrap:** 1.50

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### **ACQTIMING**

Acq Voxel Size: 1.2 X 1.5 X 4.0  
Freq: 320  
Phase: 256  
Freq DIR: S/I  
NEX: 1.00  
# of Acq. Before Pause: 0  
Phase FOV: 1.00  
Auto Shim: Auto  
Phase Correct: Off  
RF Drive Mode: Quadrature  
Excitation Mode: Selective  
Fat Shift DIR: Normal (I)

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### **SCANTIMING**

Flip Angle: 160.0  
TE: 20.0  
Number of Echoes: 1  
TR: 504.0  
Echo Train Length: 3  
Receiver Bandwidth: 41.67

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### **CONTRAST**

Contrast Yes/No: No

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### **OTHERS**



**Anatomical Region:**

**Pelvis**

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**SAT**

SAT Location S: Default  
SAT Location I: Default

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**USERCVS**

User CV6: None  
User CV9: 1.00  
User CV15: None  
User CV16: 1.00  
User CV18: None  
User CV21: None  
User CV26: 1.00  
User CV29: None  
TR Min: 500.0  
TR Max: 850.0

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**Non-Viewable Parameters**

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# Ax T2 Fat DL

Detailstab

Protocolnotes

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## Ax T2 Fat DL

### PATIENTPOSITION

Coil Configuration: GE40chGEMPA, GE16chTDIAA  
Plane: OBLIQUE

---

### IMAGINGPARAMETERS

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

---

### ImageRecon

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

---

### SCANRANGE

FOV: 40.0  
Slice Thickness: 5.00  
Slice Spacing: 2.0  
Overlap Locations: 0  
No Phase Wrap: 1.00

---

## **ACQTIMING**

Acq Voxel Size:	1.4 X 1.6 X 5.0
Freq:	288
Phase:	256
Freq DIR:	Unswap
NEX:	1.00
# of Acq. Before Pause:	0
Phase FOV:	0.80
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Quadrature
Excitation Mode:	Selective
Fat Shift DIR:	Normal

---

## **SCANTIMING**

Flip Angle:	160
TE:	68.0
Number of Echoes:	1
TR:	3000.0
Echo Train Length:	10
Receiver Bandwidth:	41.67

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## **CONTRAST**

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

Anatomical Region:	Pelvis
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## **SAT**

Fat/Water Saturation: Fat

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## **USERCVS**

User CV6:	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

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## **Non-Viewable Parameters**

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# Ax T1 DL

Detailstab

Protocolnotes

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## Ax T1 DL

### PATIENTPOSITION

Coil Configuration:	GE40chGEMPA, GE16chTDIAA
Plane:	OBLIQUE

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### IMAGINGPARAMETERS

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

---

### ImageRecon

Recon DL Strength:	Medium
Intensity Correction:	SCENIC
Intensity Filter:	None
Save Original:	On

---

### SCANRANGE

FOV:	38.0
Slice Thickness:	5.00
Slice Spacing:	2.0
Overlap Locations:	0
Number of Slices:	16

**No Phase Wrap:** 1.00

---

## ACQTIMING

Acq Voxel Size: 1.2 X 1.5 X 5.0  
Freq: 320  
Phase: 256  
Freq DIR: S/I  
NEX: 1.00  
# of Acq. Before Pause: 0  
Phase FOV: 0.80  
Auto Shim: Auto  
Phase Correct: Off  
RF Drive Mode: Quadrature  
Excitation Mode: Selective  
Fat Shift DIR: Normal (I)

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## SCANTIMING

Flip Angle: 160.0  
TE: 20.0  
Number of Echoes: 1  
TR: 500.0  
Echo Train Length: 3  
Receiver Bandwidth: 41.67

---

## CONTRAST

Contrast Yes/No: No

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## OTHERS

**Anatomical Region:**

**Pelvis**

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**SAT**

SAT Location S: Default  
SAT Location I: Default

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**USERCVS**

User CV6: None  
User CV9: 1.00  
User CV15: None  
User CV16: 1.00  
User CV18: None  
User CV21: None  
User CV26: 1.00  
User CV29: None  
TR Min: 500.0  
TR Max: 850.0

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**Non-Viewable Parameters**

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# Ax T1 Lava-Flex Pre

Detailstab

Protocolnotes

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## Ax T1 Lava-Flex Pre

### PATIENTPOSITION

Coil Configuration: GE30chAirAA, GE40chGEMPA  
Plane: AXIAL

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### IMAGINGPARAMETERS

Imaging Mode: 3D  
Imaging Options: EDR, Fast, ARC, Flex  
Pulse Sequence: LAVA  
IDEAL: 15  
ARC Phase: 2.00  
ARC Slice: 1.00

---

### ImageRecon

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

---

### SCANRANGE

FOV: 34.0  
Slice Thickness: 1.50  
Slices per Slab: 172  
Overlap Locations: 0



<b>No Slab Wrap:</b>	<b>1.04</b>
No Phase Wrap:	1.00
Slice Resolution(%):	50.00

---

### **ACQTIMING**

Acq Voxel Size:	1.3 X 1.5 X 1.5
Freq:	260
Phase:	220
Freq DIR:	R/L
NEX:	1.00
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Quadrature
Excitation Mode:	Selective

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### **SCANTIMING**

Flip Angle:	15.0
TE:	Min Full
Number of Echoes:	2
Receiver Bandwidth:	90.91

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### **CONTRAST**

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

3D Geometry Correction:	On
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**Anatomical Region:**

**Rectum**

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**USERCVS**

User CV4:	None
User CV6:	1.00
User CV13:	None
User CV16:	None
User CV30:	1.00
User CV34:	70.00

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**Non-Viewable Parameters**

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# Ax T1 Lava-Flex 2min

Detailstab

Protocolnotes

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## Ax T1 Lava-Flex 2min

### PATIENTPOSITION

Coil Configuration: GE30chAirAA, GE40chGEMPA  
Plane: AXIAL

---

### IMAGINGPARAMETERS

Imaging Mode: 3D  
Imaging Options: EDR, Fast, ARC, Flex  
Pulse Sequence: LAVA  
IDEAL: 3  
ARC Phase: 2.00  
ARC Slice: 1.00

---

### ImageRecon

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

---

### SCANRANGE

FOV: 34.0  
Slice Thickness: 1.50  
Slices per Slab: 172  
Overlap Locations: 0

<b>No Slab Wrap:</b>	<b>1.04</b>
No Phase Wrap:	1.00
Slice Resolution(%):	50.00

---

### **ACQTIMING**

Acq Voxel Size:	1.3 X 1.5 X 1.5
Freq:	260
Phase:	220
Freq DIR:	R/L
NEX:	1.00
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Quadrature
Excitation Mode:	Selective

---

### **SCANTIMING**

Flip Angle:	15.0
TE:	Min Full
Number of Echoes:	2
Receiver Bandwidth:	90.91

---

### **CONTRAST**

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

3D Geometry Correction:	On
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***Anatomical Region:***

***Rectum***

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**USERCVS**

User CV4:	None
User CV6:	1.00
User CV13:	None
User CV16:	None
User CV30:	1.00
User CV34:	70.00

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**Non-Viewable Parameters**

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# Cor T1 Lava-Flex

Detailstab

Protocolnotes

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## Cor T1 Lava-Flex

### PATIENTPOSITION

Coil Configuration: GE30chAirAA, GE40chGEMPA

Plane: CORONAL

---

### IMAGINGPARAMETERS

Imaging Mode: 3D

Imaging Options: EDR, Fast, ARC, Flex

Pulse Sequence: LAVA

IDEAL: 3

ARC Phase: 2.00

ARC Slice: 1.00

---

### ImageRecon

Recon DL Strength: Off

Intensity Correction: PURE

Intensity Filter: None

Save Original: Off

---

### SCANRANGE

FOV: 34.0

Slice Thickness: 1.50

Slices per Slab: 172

Overlap Locations: 0

<b>No Slab Wrap:</b>	<b>1.04</b>
No Phase Wrap:	1.00
Slice Resolution(%):	50.00

---

### **ACQTIMING**

Acq Voxel Size:	1.3 X 1.5 X 1.5
Freq:	260
Phase:	220
Freq DIR:	S/I
NEX:	1.00
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Quadrature
Excitation Mode:	Selective

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### **SCANTIMING**

Flip Angle:	15.0
TE:	Min Full
Number of Echoes:	2
Receiver Bandwidth:	90.91

---

### **CONTRAST**

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

3D Geometry Correction:	On
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***Anatomical Region:***

***Rectum***

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**USERCVS**

User CV4:	None
User CV6:	1.00
User CV13:	None
User CV16:	None
User CV30:	1.00
User CV34:	70.00

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**Non-Viewable Parameters**

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# Sag T1 Lava-Flex

Detailstab

Protocolnotes

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## Sag T1 Lava-Flex

### PATIENTPOSITION

Coil Configuration:	GE30chAirAA, GE40chGEMPA
Plane:	SAGITTAL

---

### IMAGINGPARAMETERS

Imaging Mode:	3D
Imaging Options:	EDR, Fast, ARC, Flex
Pulse Sequence:	LAVA
IDEAL:	3
ARC Phase:	2.00
ARC Slice:	1.00

---

### ImageRecon

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

---

### SCANRANGE

FOV:	34.0
Slice Thickness:	1.50
Slices per Slab:	172
Overlap Locations:	0

<b>No Slab Wrap:</b>	<b>1.04</b>
No Phase Wrap:	1.00
Slice Resolution(%):	50.00

---

### **ACQTIMING**

Acq Voxel Size:	1.3 X 1.5 X 1.5
Freq:	260
Phase:	220
Freq DIR:	S/I
NEX:	1.00
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Quadrature
Excitation Mode:	Selective

---

### **SCANTIMING**

Flip Angle:	15.0
TE:	Min Full
Number of Echoes:	2
Receiver Bandwidth:	90.91

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### **CONTRAST**

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

3D Geometry Correction:	On
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***Anatomical Region:***

***Rectum***

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**USERCVS**

User CV4:	None
User CV6:	1.00
User CV13:	None
User CV16:	None
User CV30:	1.00
User CV34:	70.00

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**Non-Viewable Parameters**

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# +c Ax T1 Fat DL

Detailstab

Protocolnotes

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## +c Ax T1 Fat DL

### PATIENTPOSITION

Coil Configuration: GE40chGEMPA, GE16chTDIAA

Plane: OBLIQUE

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### IMAGINGPARAMETERS

Imaging Mode: 2D

Imaging Options: EDR, TRF, Fast, ARC

Pulse Sequence: FSE-XL

ARC Phase: 1.50

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### ImageRecon

Recon DL Strength: Medium

Intensity Correction: SCENIC

Intensity Filter: None

Save Original: On

---

### SCANRANGE

FOV: 38.0

Slice Thickness: 5.00

Slice Spacing: 2.0

Overlap Locations: 0

Number of Slices: 16

**No Phase Wrap:** 1.00

---

### **ACQTIMING**

Acq Voxel Size: 1.2 X 1.5 X 5.0  
Freq: 320  
Phase: 256  
Freq DIR: S/I  
NEX: 1.00  
# of Acq. Before Pause: 0  
Phase FOV: 0.80  
Auto Shim: Auto  
Phase Correct: Off  
RF Drive Mode: Quadrature  
Excitation Mode: Selective  
Fat Shift DIR: Normal (I)

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### **SCANTIMING**

Flip Angle: 160.0  
TE: 20.0  
Number of Echoes: 1  
TR: 583.0  
Echo Train Length: 3  
Receiver Bandwidth: 41.67

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### **CONTRAST**

Contrast Yes/No: Yes

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### **OTHERS**

**Anatomical Region:**

**Pelvis**

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**SAT**

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

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**USERCVS**

User CV6:	None
User CV9:	1.00
User CV13:	None
User CV15:	None
User CV16:	1.00
User CV18:	None
User CV19:	1.00
User CV21:	None
User CV26:	1.00
User CV29:	None
TR Min:	500.0
TR Max:	850.0

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**Non-Viewable Parameters**

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