

Lumbar Spine Adult SIGNA Architect

Technical Instructions

3Plane Loc

L-Sag T1 FLAIR DL

L-Sag T2 DL

L-Sag STIR DL

L-Ax T2 DL

L-Ax T1 DL

L+C Sag T1 FAT DL

L+C Ax T1 DL

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L+C Ax T1 Fat DL

Details tab

Protocol notes

3Plane Loc

PATIENT POSITION

Coil Configuration:	GE40chGEMPA
Plane:	3-PLANE

IMAGING PARAMETERS

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

Image Recon

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

SCAN RANGE

FOV:	42.0
Slice Thickness:	6.00
Slice Spacing:	3.0
Overlap Locations:	0
No Phase Wrap:	1.00

ACQ TIMING

Acq Voxel Size:	1.1 X 2.6 X 6.0
Freq:	384
Phase:	160
Freq DIR:	Unswap
# of Acq. Before Pause:	0
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Quadrature (CP)
Excitation Mode:	Selective

SCAN TIMING

TE:	80.0
Number of Echoes:	1
TR:	1000.0
Receiver Bandwidth:	83.33

CONTRAST

Contrast Yes/No:	No
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OTHERS

3D Geometry Correction:	Off
Anatomical Region:	Lumbar spine

USER CVS

User CV1:	1.00
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Details tab

Protocol notes

L-Sag T1 FLAIR DL

PATIENT POSITION

Coil Configuration:	GE19chGEMHNUABB, GE40chGEMPA
Plane:	OBLIQUE

IMAGING PARAMETERS

Imaging Mode:	2D
Imaging Options:	FC, Seq, EDR, TRF, Fast, T1flair
Pulse Sequence:	FSE-XL

Image Recon

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

SCAN RANGE

FOV:	28.0
Slice Thickness:	4.00
Slice Spacing:	0.4
Overlap Locations:	0
Number of Slices:	1

No Phase Wrap:

1.50

ACQ TIMING

Acq Voxel Size:	0.9 X 1.1 X 4.0
Freq:	320
Phase:	256
Freq DIR:	A/P
NEX:	1.00
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
Flow Comp Direction:	Freq
RF Drive Mode:	Quadrature (CP)
Excitation Mode:	Selective
Fat Shift DIR:	Normal (P)

SCAN TIMING

Flip Angle:	142.0
TE:	24.0
Number of Echoes:	1
TR:	2600.0
TI:	810
Echo Train Length:	8
Receiver Bandwidth:	62.50

CONTRAST

Contrast Yes/No:	No
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OTHERS

Anatomical Region:	Lumbar spine
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SAT

SAT Location A:	Default
SAT Location S:	Default
SAT Location I:	Default

USER CVS

User CV11:	None
User CV15:	None
User CV18:	None
User CV21:	1.00
User CV26:	1.00
User CV29:	1.00
User CV41:	None

Non-Viewable Parameters

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L-Sag T2 DL

Details tab

Protocol notes

L-Sag T2 DL

PATIENT POSITION

Coil Configuration:	GE19chGEMHNUABB, GE40chGEMPA
Plane:	OBLIQUE

IMAGING PARAMETERS

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

Image Recon

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

SCAN RANGE

FOV:	28.0
Slice Thickness:	4.00
Slice Spacing:	0.4
Overlap Locations:	0
Number of Slices:	1

No Phase Wrap:

1.50

ACQ TIMING

Acq Voxel Size:	0.9 X 1.1 X 4.0
Freq:	320
Phase:	256
Freq DIR:	A/P
NEX:	1.50
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
Flow Comp Direction:	Freq
RF Drive Mode:	Preset
Excitation Mode:	Selective
Fat Shift DIR:	Normal (P)

SCAN TIMING

Flip Angle:	142.0
TE:	102.0
Number of Echoes:	1
TR:	2500.0
Echo Train Length:	18
Receiver Bandwidth:	62.50

CONTRAST

Contrast Yes/No:	No
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OTHERS

Anatomical Region:**Lumbar spine****SAT**

SAT Location A:	Default
SAT Location S:	Default
SAT Location I:	Default

USER CVS

User CV6:	None
User CV7:	None
User CV15:	None
User CV18:	None
User CV21:	1.00
User CV26:	1.00
User CV29:	1.00
User CV40:	None
TR Min:	2500.0
TR Max:	11000.0

Non-Viewable Parameters

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L-Sag STIR DL

Details tab

Protocol notes

L-Sag STIR DL

PATIENT POSITION

Coil Configuration:	GE19chGEMHNUABB, GE40chGEMPA
Plane:	OBLIQUE

IMAGING PARAMETERS

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

Image Recon

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

SCAN RANGE

FOV:	28.0
Slice Thickness:	4.00
Slice Spacing:	0.4
Overlap Locations:	0
Number of Slices:	1

No Phase Wrap: **1.50**

ACQ TIMING

Acq Voxel Size:	1.0 X 1.1 X 4.0
Freq:	288
Phase:	256
Freq DIR:	A/P
NEX:	1.50
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Preset
Excitation Mode:	Selective
Fat Shift DIR:	Normal (P)

SCAN TIMING

Flip Angle:	142.0
TE:	42.0
Number of Echoes:	1
TR:	2800.0
TI:	200
Echo Train Length:	14
Receiver Bandwidth:	62.50

CONTRAST

Contrast Yes/No:	No
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OTHERS

Anatomical Region:***Lumbar spine*****SAT**

SAT Location A: Default

SAT Location S: Default

SAT Location I: Default

USER CVS

User CV7: None

User CV9: None

User CV15: None

User CV18: None

User CV21: 1.00

User CV26: 1.00

User CV28: None

User CV29: 1.00

User CV41: None

TR Min: 2800.0

TR Max: 15000.0

Non-Viewable Parameters

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L-Ax T2 DL

Details tab

Protocol notes

L-Ax T2 DL

PATIENT POSITION

Coil Configuration:GE40chGEMPA

Plane:OBLIQUE

IMAGING PARAMETERS

Imaging Mode:2D

Imaging Options:FC, EDR, TRF, Fast, ZIP512

Pulse Sequence:FSE-XL

Image Recon

Recon DL Strength:Medium

Intensity Correction:SCENIC

Intensity Filter:None

Save Original:Off

SCAN RANGE

FOV:18.0

Slice Thickness:4.00

Slice Spacing:0.4

Overlap Locations:0

Number of Slices:1

No Phase Wrap:2.00

ACQ TIMING

Acq Voxel Size:	0.6 X 0.8 X 4.0
Freq:	320
Phase:	224
Freq DIR:	R/L
NEX:	1.00
Phase FOV:	0.70
Auto Shim:	Auto
Phase Correct:	Off
Flow Comp Direction:	Slice
RF Drive Mode:	Preset
Excitation Mode:	Selective
Fat Shift DIR:	Normal (L)

SCAN TIMING

Flip Angle:	150.0
TE:	140.0
Number of Echoes:	1
TR:	3000.0
Echo Train Length:	17
Receiver Bandwidth:	41.67

CONTRAST

Contrast Yes/No:	No
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OTHERS

Anatomical Region:	Lumbar spine
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SAT

SAT Location A:	A5.0
SAT Location S:	Default
SAT Location I:	Default

USER CVS

User CV6:	None
User CV15:	1.00
User CV16:	None
User CV18:	1.00
User CV21:	None
User CV26:	1.00
User CV29:	1.00
User CV41:	None
TR Min:	3000.0
TR Max:	6000.0

Non-Viewable Parameters

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L-Ax T1 DL

Details tab

Protocol notes

L-Ax T1 DL

PATIENT POSITION

Coil Configuration:	GE40chGEMPA
Plane:	OBLIQUE

IMAGING PARAMETERS

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

Image Recon

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

SCAN RANGE

FOV:	18.0
Slice Thickness:	4.00
Slice Spacing:	0.4
Overlap Locations:	0
Number of Slices:	1

No Phase Wrap:

1.90

ACQ TIMING

Acq Voxel Size:	0.9 X 1.1 X 4.0
Freq:	200
Phase:	160
Freq DIR:	R/L
NEX:	1.00
Phase FOV:	0.70
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Preset
Excitation Mode:	Selective
Fat Shift DIR:	Normal (L)

SCAN TIMING

Flip Angle:	111.0
TE:	18.0
Number of Echoes:	1
TR:	500.0
Echo Train Length:	3
Receiver Bandwidth:	31.25

CONTRAST

Contrast Yes/No:	No
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OTHERS

Anatomical Region:	Lumbar spine
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SAT

SAT Location A:	A5.0
SAT Location S:	Default
SAT Location I:	Default

USER CVS

User CV6:	None
User CV9:	None
User CV15:	2.00
User CV16:	1.00
User CV18:	None
User CV21:	None
User CV26:	1.00
User CV29:	1.00
User CV41:	None
TR Min:	500.0
TR Max:	850.0

Non-Viewable Parameters

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L+C Sag T1 FAT DL

Details tab

Protocol notes

L+C Sag T1 FAT DL

PATIENT POSITION

Coil Configuration:	GE40chGEMPA
Plane:	OBLIQUE

IMAGING PARAMETERS

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

Image Recon

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

SCAN RANGE

FOV:	28.0
Slice Thickness:	4.00
Slice Spacing:	0.4
Overlap Locations:	0
No Phase Wrap:	1.50

ACQ TIMING

Acq Voxel Size:	0.9 X 1.1 X 4.0
Freq:	320
Phase:	256
Freq DIR:	Swap
NEX:	1.00
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Preset
Excitation Mode:	Selective
Fat Shift DIR:	Normal

SCAN TIMING

Flip Angle:	120.0
TE:	18.0
Number of Echoes:	1
TR:	850.0
Echo Train Length:	4
Receiver Bandwidth:	62.50

CONTRAST

Contrast Yes/No:	Yes
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OTHERS

Anatomical Region:	Lumbar spine
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SAT

<i>SAT Location A:</i>	<i>Default</i>
SAT Location S:	Default
SAT Location I:	Default
Fat/Water Saturation:	Fat

USER CVS

User CV6:	None
User CV9:	None
User CV15:	None
User CV16:	None
User CV18:	None
User CV19:	1.00
User CV21:	1.00
User CV26:	1.00
User CV29:	1.00
User CV41:	None

L+C Ax T1 DL

Details tab

Protocol notes

L+C Ax T1 DL

PATIENT POSITION

Coil Configuration:	GE40chGEMPA
Plane:	OBLIQUE

IMAGING PARAMETERS

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

Image Recon

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

SCAN RANGE

FOV:	18.0
Slice Thickness:	4.00
Slice Spacing:	0.4
Overlap Locations:	0
Number of Slices:	1

No Phase Wrap:

1.90

ACQ TIMING

Acq Voxel Size:	0.9 X 1.1 X 4.0
Freq:	200
Phase:	160
Freq DIR:	R/L
NEX:	1.00
Phase FOV:	0.70
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Preset
Excitation Mode:	Selective
Fat Shift DIR:	Normal (L)

SCAN TIMING

Flip Angle:	111.0
TE:	18.0
Number of Echoes:	1
TR:	500.0
Echo Train Length:	3
Receiver Bandwidth:	31.25

CONTRAST

Contrast Yes/No:	Yes
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OTHERS

Anatomical Region:	Lumbar spine
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SAT

SAT Location A:	A5.0
SAT Location S:	Default
SAT Location I:	Default

USER CVS

User CV6:	None
User CV9:	None
User CV15:	2.00
User CV16:	1.00
User CV18:	None
User CV21:	None
User CV26:	1.00
User CV29:	1.00
User CV41:	None
TR Min:	500.0
TR Max:	850.0

Non-Viewable Parameters

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Details tab

Protocol notes

L+C Ax T1 Fat DL

PATIENT POSITION

Coil Configuration: GE40chGEMPA

Plane: OBLIQUE

IMAGING PARAMETERS

Imaging Mode: 2D

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

Pulse Sequence: FSE-XL

ARC Phase: 1.50

Image Recon

Recon DL Strength: Medium

Intensity Correction: SCENIC

Intensity Filter: None

Save Original: Off

SCAN RANGE

FOV: 18.0

Slice Thickness: 4.00

Slice Spacing: 0.4

Overlap Locations: 0

Number of Slices: 1

No Phase Wrap:

1.90

ACQ TIMING

Acq Voxel Size:	0.9 X 1.1 X 4.0
Freq:	200
Phase:	160
Freq DIR:	R/L
NEX:	1.00
Phase FOV:	0.70
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Preset
Excitation Mode:	Selective
Fat Shift DIR:	Normal (L)

SCAN TIMING

Flip Angle:	111.0
TE:	18.0
Number of Echoes:	1
TR:	500.0
Echo Train Length:	3
Receiver Bandwidth:	31.25

CONTRAST

Contrast Yes/No:	Yes
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OTHERS

Anatomical Region:	Lumbar spine
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SAT

SAT Location A:	A5.0
SAT Location S:	Default
SAT Location I:	Default
Fat/Water Saturation:	Fat

USER CVS

User CV6:	None
User CV9:	None
User CV15:	2.00
User CV16:	1.00
User CV18:	None
User CV19:	1.00
User CV21:	None
User CV26:	1.00
User CV29:	1.00
User CV41:	None
TR Min:	500.0
TR Max:	850.0

Non-Viewable Parameters

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