## SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\Page\Sugar\fructose\ep2d\_tra\_PASL

Prosecon   Very   Prosecon   Very	TA: 8:18 PAT	: 2 Voxel size: 3.0×3.0×5.0	mm Rel. SNR: 1.00 SIE	MENS: ep2d_pasl
Price Recon   Off   Elliptical filter   Off   Hamming   Off   Series   Ascending   Ascending   Series   Ascending   Series   Ascending   Series   Ascending   Series   Ascending   Series   Ascending   Off   Off   Series   Ascending   Off   Of	Properties			
Before measurement   Coad to viewer		Off		
Anter measurement   Load to viewer   On   Inline movie   Off   Multi-slice mode   Interleaved   Ascending   Multi-slice mode   Interleaved   Ascending   Series   Ascending   Ascending   Series   Ascending   Ascending   Series   Ascending   Ascending   Series   Ascending   Ascending   Ascending   Series   Ascending   Ascending   Series   Ascending   Ascending   Series   Ascending   Ascending   Ascending   Series   Ascending   Ascending   Series   Ascending   Ascending   Series   Ascending   Ascending   Series   Ascending   Asc				_
Inline movie			Hamming	Off
Auto store images         On         Series         Ascanding           Load to stamp segments         Off         Special sat.         Parallel F           Segments         Auto open inline display         Off         Thickness         100 mm           Start measurement without further preparation         On         System           Wait for user to start         On         Body         Off           Start measurements         single         HEP         On           Store group 1         Sice group 1         Body         Off           Slice group 1         Sice group 1         Body         Off           Slice group 1         Sice group 1         Table position         HEP           Slice sices         23         Table position         HEP           Dist. factor         0 %         Positioning mode         REF           Table position         N         N         > C - T           Position Repaired         N         > P         Table position         0 mm           Table position         N         N         > C - T         Sagital         R > L         > N         > P         Table position         0 mm         A > P         Table position         N         N         P > H	Load to viewer	On	Geometry	
Load to stamp segments   Off   Special sat.   Parallel F   Gap   25.0 mm   Thickness   100 mm   System   Thickness   100 mm   100 mm	Inline movie	Off	Multi-slice mode	Interleaved
Load images to graphic segments   Auto open inline display   Off	Auto store images	On	Series	Ascending
Cap   Date   D			Special set	Parallal E
segments         Auto open inline display         Off           Start measurement without further preparation         On         System           Wait for user to start         On         Body         Off           Start measurements         single         Body         Off           Round         HEAP         On         Name           Slices group 1         Start factor         O%         MSAM         Single           Position         R2.0 Po.0 F23.7         Sagittal         R Single         Name         L Coronal         A > P         T Transversal         A > P         T Transversal         A > P         T Transversal         A Single         A > P         T Transversal         A Single         A Single <td></td> <td>Off</td> <td></td> <td></td>		Off		
System			1	
further preparation         Body         Off           Wait for user to start         single         HEP         On           Routine         Position         Positioning mode         REF           Slices         23         Table position         H           Dist. factor         0 %         Sociation         H           Position         R2.0 P0.0 F23.7         Sagttal         R >> L           Orientation         0.00 deg         Sagttal         R >> L           Phase enc. dir.         A >> P         Transversal         F >> H           Phase eversampling         0 %         Coronal         A >> P           FoV read         192 mm         Auto Coil Select         Default           FoV phase         100.0 %         Shim mode         Standard           Slice thickness         5.0 mm         Auto Coil Select         Default           TR         4000.0 ms         Corrienter Silcone         Off           Coriestation         1         Assume Silcone         Off           Filter         Prescan Normalize         Adjust with body coil         Off           Coritrast         Torontast         Torontast         Assume Silcone         Off           Coritrast				100 111111
Wait for user to start         On         HEP         On           Routine         Slard measurements         single         HEA         On           Routine         Slices         23         Table position         H           Slices         23         MSMA         S - C - T           Dost factor         0 %         MSMA         S - C - T           Orientation         Transversal         Coronal         A >> P           Phase enc. dir.         A >> P         Transversal         F >> H           Rotation         0.00 deg         Save uncombined         Off           PoV read         192 mm         Actio Coil Combine Mode         Sum of Squares           FoV phase         100.0 %         Slice thickness         5.0 mm         Auto Coil Select         Default           FoV phase         1 00.0 ms         Shim mode         Standard         Auto Coil Select         Default           FoV phase         1 00.0 ms         Shim mode         Standard         Auto Coil Select         Default           FoV phase         1 00.0 ms         Shim mode         Standard         Auto Coil Select         Default           Coil clements         HEA;HEP         Adjust with body coil         Off         Assume S		On		
Noutine			1	
Routine   Positioning mode   REF   Table position   H   Slices   Case   Table position   H   Table position   O mm   MsMA   S - C - T   Sagitatal   R >> L   Caronal   A >> P   Transversal   Coronal   A >> P   Transversal   Coronal   A >> P   Transversal   Transversa				
Silce group 1   Silce group 1   Silce group 1   Silce s   23   Dist. factor   0 %   MSMA   S - C - T   Sagittal   R > L   Coronal   A > P   Sagittal   R > L   Sagittal   Sagittal   R > L   Sagittal	Start measurements	single	HEA	On
Silce group 1   Silce group 1   Silce s   23   Table position	Routine		Positioning mode	REF
Silices   23	Slice group 1			
Dist. factor         0 %         MSMÁ         S. C. T           Position         R2.0 P0.0 F23.7         Sagittal         R.> L           Orientation         Transversal         Coronal         R.> D           Rotation         0.00 deg         Save uncombined         Off           FoV read         192 mm         Auto Coil Select         Default           FoV phase         100.0 %         Shim mode         Standard           Slice thickness         5.0 mm         Auto Coil Select         Default           FA         4000.0 ms         Confirm freq. adjustment         Off           TR         4000.0 ms         Confirm freq. adjustment         Off           TR         30 ms         Confirm freq. adjustment         Off           Averages         1         Ref. amplitude 11         0.000 V           Averages         1         Ref. amplitude 11         0.000 V           Colitast         HEA;HEP         Position         R2.0 P0.0 F23.7           Contrast         Prescan Normalize         Adjust volume         Reconstruction           Inversion time 2         1800.0 ms         Resolution         R.> L         192 mm           Fat sat. mode         Strong         R.> L         192 m				
Orientation         Transversal         Coronal         A >> P           Phase enc. dir.         A >> P         Transversal         F >> H           Rotation         0.00 deg         Save uncombined         Off           FoV read         192 mm         Auto Coil Select         Default           FoV phase         100.0 %         Shim mode         Sundard           Slice thickness         5.0 mm         Auto Coil Select         Default           TR         4000.0 ms         Confirm freq. adjustment         Off           TE         30 ms         Confirm freq. adjustment         Off           Averages         1         Prescan Normalize         Off           Coil elements         HEA;HEP         Auto Coil Select         Off           Contrast         Prescan Normalize         Adjustment Tolerance         Auto           Coil elements         HEA;HEP         Auto         Auto           Contrast         Toncatanations         1         Prescan Normalize         Auto           Coil elements         HEA;HEP         Auto         Auto         Auto           Inversion time 1         700 ms         Rescubition         Rescubition         Rescubition         Rescubition         Auto      <				S - C - T
Phase enc. dir.         A >> P         Transversal         F >> H           Rotation         0.00 deg         Save uncombined         Off           Phase oversampling         0 %         Coli Combine Mode         Sum of Squares           FoV phase         100.0 %         Slice thickness         5.0 mm         Adjust with body coil         Off           TR         4000.0 ms         Adjust with body coil         Off         Off           TE         30 ms         Adjust with body coil         Off         Off           Concatenations         1         Confirer         Assume Silicone         Off         Off           Filter         Prescan Normalize         Adjust with body coil         Off         Off         Off         Off         Resume Silicone         Off         Assume Silicone         Off         Prescan Homalize         Assume Silicone         Off         Prescan Homalize         Adjust wolume         Auto Adjust wolume         Auto Adjust wolume         Resun prescription         Result prescription         None         Starting ignore meas         1         Ingrore after transit				
Rotation			Coronal	
Phase oversampling FoV read         192 mm         Coil Combine Mode Auto Coil Select         Sum of Squares           FoV phase Slice thickness         100.0 %         Shim mode         Standard           Slice thickness         5.0 mm         Adjust with body coil Confirm freq, adjustment         Off           TE         30 ms         Confirm freq, adjustment         Off           Averages         1         Assume Silicone         Off           Concatenations         1         Prescan Normalize         Adjustment Tolerance         Auto           Coil elements         HEA;HEP         Adjustment Tolerance         Auto           Coil elements         HEA;HEP         Adjustment Tolerance         Auto           Coil elements         HEA;HEP         Auto         Adjustment Tolerance         Auto           Coil elements         HEA;HEP         Auto         Auto <t< td=""><td></td><td></td><td></td><td></td></t<>				
FoV read				
Fov phase				
Shin mode		_	Auto Coil Select	Default
Adjust with body coil	•		Shim mode	Standard
TE				
Averages				
Ref. amplitude 1H				
Adjustment Tolerance		1		
Adjust volume		Prescan Normalize		Auto
Position   R2.0 PO.0 F23.7				
Inversion time 2	1	HEA,HEH	Position	R2.0 P0.0 F23.7
Inversion time 1			_ Orientation	Transversal
Saturation stop time         1600 ms         A >> P         192 mm           Filip angle         90 deg         F >> H         115 mm           Fat suppr.         Fat sat.         Fat sat.           Fat sat. mode         Strong         Physio           Averaging mode         Long term         Reconstruction         Magnitude           Measurements         121         BOLD           Delay in TR         0 ms         Dynamic t-maps         On           Multiple series         Off         Dynamic t-maps         On           Multiple series         Off         Dynamic t-maps         On           Starting ignore meas         1         Ignore after transition         0           Perfusion mode         PICORE Q2T         Model transition states         Off           Inversion time 1         700 ms         Temp. highpass filter         On           Saturation stop time         1600 ms         Threshold         4.00           Inversion time 2         1800.0 ms         Paradigm size         16           Flow limit         100.0 cm/s         Meas[1]         Baseline           Meas[2]         Baseline         Meas[3]         Baseline           Meas[4]         Baseline         Me			Rotation	•
Flip angle         90 deg         F >> H         115 mm           Fat suppr.         Fat sat.         Physio           Averaging mode         Long term         Physio           Reconstruction         Magnitude         BOLD           Measurements         121         GLM Statistics         Off           Delay in TR         0 ms         Starting ignore meas         1           Multiple series         Off         Starting ignore meas         1           Inversion mode         PICORE Q2T         Model transition states         Off           Inversion time 1         700 ms         Temp. highpass filter         On           Saturation stop time         1600 ms         Threshold         4.00           Inversion time 2         1800.0 ms         Praction makes filter         On           Resolution         Meas[1]         Baseline           Resolution         Meas[2]         Baseline           Meas[3]         Baseline           Meas[4]         Baseline           Meas[5]         Baseline           Meas[6]         Baseline           Meas[7]         Baseline           Meas[6]         Baseline           Meas[7]         Baseline				192 mm
Fat suppr.         Fat sat.         Physio           Averaging mode         Long term         BOLD           Reconstruction         Magnitude         BOLD           Measurements         121         GLM Statistics         Off           Delay in TR         0 ms         On         Starting ignore meas         1           Multiple series         Off         Ignore after transition         0           Perfusion mode         PICORE Q2T         Model transition states         Off           Inversion time 1         700 ms         Temp. highpass filter         On           Saturation stop time         1600 ms         Threshold         4.00           Inversion time 2         1800.0 ms         Paradigm size         16           Flow limit         100.0 cm/s         Meas[1]         Baseline           Resolution         Meas[2]         Baseline           Base resolution         64         Meas[3]         Baseline           Phase partial Fourier         7/8         Meas[4]         Baseline           Interpolation         Off         Meas[6]         Baseline           PAT mode         GRAPPA         Meas[8]         Baseline           Active         Meas[9]         Active				_
Fat sat. mode			F >> H	115 mm
Test Sit Note			Physio	
Reconstruction         Magnitude         BOLD           Measurements         121         GLM Statistics         Off           Delay in TR         0 ms         Dynamic t-maps         On           Multiple series         Off         Starting ignore meas         1           Ignore after transition         0         Model transition states         Off           Inversion time 1         700 ms         Temp. highpass filter         On           Saturation stop time         1600 ms         Threshold         4.00           Inversion time 2         1800.0 ms         Paradigm size         16           Flow limit         100.0 cm/s         Meas[1]         Baseline           Meas[2]         Baseline         Meas[2]         Baseline           Meas[3]         Baseline         Meas[4]         Baseline           Meas[4]         Baseline         Meas[5]         Baseline           Meas[6]         Baseline         Meas[6]         Baseline           Meas[7]         Baseline         Meas[9]         Active           Metric polation         GRAPPA         Meas[9]         Active           Metric polation         GRAPPA         Meas[9]         Active           Metric polation         <	rai sai. mode	Strong		None
Reconstruction         Magnitude           Measurements         121           Delay in TR         0 ms           Multiple series         Off           Perfusion mode         PICORE Q2T           Inversion time 1         700 ms           Saturation stop time         1600 ms           Inversion time 2         1800.0 ms           Flow limit         100.0 cm/s           Resolution         Meas[1]           Base resolution         64           Phase partial Fourier         7/8           Interpolation         0ff           PAT mode         GRAPPA           Accel. factor PE         2           Ref. lines PE         24           Matrix Coil Mode         Auto (Triple)    GLM Statistics Off Dynamic t-maps On Starting ignore meas 1 Ignore after transition 0 Nodel transition states Off Thems, highpass filter On Threshold 4.00           Heas(a)         4.00           Paradigm size         16           Meas[1]         Baseline           Meas[2]         Baseline           Meas[3]         Baseline           Meas[4]         Baseline           Meas[6]         Baseline           Meas[7]         Baseline           Meas[8]			1	
Delay in TR		•		Off
Belay in TN Multiple series         Off         Starting ignore meas Ignore after transition         1           Perfusion mode Inversion time 1         PICORE Q2T         Model transition states         Off           Inversion time 1         700 ms         Temp. highpass filter         On           Saturation stop time Inversion time 2         1800.0 ms         Paradigm size         16           Flow limit         100.0 cm/s         Meas[1]         Baseline           Resolution         Meas[2]         Baseline           Phase resolution Phase partial Fourier Interpolation         7/8         Meas[4]         Baseline           Interpolation         Off         Meas[6]         Baseline           PAT mode Accel. factor PE Active Acti				_
Ignore after transition   O				
Perfusion mode	Multiple series	Off		-
Inversion time 1	Perfusion mode	PICORE Q2T		
Saturation stop time         1600 ms         Threshold         4.00           Inversion time 2         1800.0 ms         Paradigm size         16           Flow limit         100.0 cm/s         Meas[1]         Baseline           Meas[2]         Baseline           Meas[3]         Baseline           Meas[4]         Baseline           Meas[5]         Baseline           Meas[6]         Baseline           Meas[7]         Baseline           Meas[7]         Baseline           Meas[7]         Baseline           Meas[8]         Baseline           Meas[9]         Active           Meas[1]         Meas[1]           Meas[1]         Active           Meas[1]         Meas[1]				_
Inversion time 2				_
Flow limit         100.0 cm/s         Meas[1]         Baseline           Resolution         64         Meas[3]         Baseline           Phase resolution         100 %         Meas[4]         Baseline           Phase partial Fourier         7/8         Meas[5]         Baseline           Interpolation         Off         Meas[6]         Baseline           PAT mode         GRAPPA         Meas[7]         Baseline           Accel. factor PE         2         Meas[9]         Active           Ref. lines PE         24         Meas[10]         Active           Matrix Coil Mode         Auto (Triple)         Meas[11]         Active	-			
Resolution         Meas[2]         Baseline           Base resolution         64         Meas[3]         Baseline           Phase resolution         100 %         Meas[4]         Baseline           Phase partial Fourier         7/8         Meas[5]         Baseline           Interpolation         Off         Meas[6]         Baseline           PAT mode         GRAPPA         Meas[7]         Baseline           Accel. factor PE         2         Meas[9]         Active           Ref. lines PE         24         Meas[10]         Active           Matrix Coil Mode         Auto (Triple)         Meas[11]         Active	Flow limit	100.0 cm/s		_
Resolution         Meas[3]         Baseline           Base resolution         100 %         Meas[4]         Baseline           Phase partial Fourier         7/8         Meas[5]         Baseline           Interpolation         Off         Meas[6]         Baseline           PAT mode         GRAPPA         Meas[8]         Baseline           Accel. factor PE         2         Meas[9]         Active           Ref. lines PE         24         Meas[10]         Active           Matrix Coil Mode         Auto (Triple)         Meas[11]         Active	Resolution			Baseline
Phase resolution         100 %         Meas[4]         Baseline           Phase partial Fourier         7/8         Meas[5]         Baseline           Interpolation         Off         Meas[6]         Baseline           PAT mode         GRAPPA         Meas[8]         Baseline           Accel. factor PE         2         Meas[9]         Active           Ref. lines PE         24         Meas[10]         Active           Matrix Coil Mode         Auto (Triple)         Meas[11]         Active		64		Baseline
Phase partial Fourier         7/8         Meas[5]         Baseline           Interpolation         Off         Meas[6]         Baseline           PAT mode         GRAPPA         Meas[8]         Baseline           Accel. factor PE         2         Meas[9]         Active           Ref. lines PE         24         Meas[10]         Active           Matrix Coil Mode         Auto (Triple)         Meas[11]         Active		_	Meas[4]	
Interpolation         Off         Meas[6]         Baseline           PAT mode         GRAPPA         Meas[8]         Baseline           Accel. factor PE         2         Meas[9]         Active           Ref. lines PE         24         Meas[10]         Active           Matrix Coil Mode         Auto (Triple)         Meas[11]         Active				
PAT mode GRAPPA Meas[8] Baseline Accel. factor PE 2 Meas[9] Active Ref. lines PE 24 Meas[10] Active Matrix Coil Mode Auto (Triple) Meas[11] Active	•		1	
Accel. factor PE2Meas[9]ActiveRef. lines PE24Meas[10]ActiveMatrix Coil ModeAuto (Triple)Meas[11]Active				
Ref. lines PE 24 Meas[10] Active Matrix Coil Mode Auto (Triple) Meas[11] Active				
Matrix Coil Mode Auto (Triple) Meas[11] Active				
Reference scan mode Separate Meas[12] Active				
	Reference scar mode	oeparate	IVIEdS[12]	Active

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Meas[13]	Active
Meas[14]	Active
Meas[15]	Active
Meas[16]	Active
Motion correction	Off
Spatial filter	Off

## Sequence

	Introduction	On
	Bandwidth	2232 Hz/Px
	Free echo spacing	Off
	Echo spacing	0.53 ms
-		
	EPI factor	64
	RF pulse type	Normal
	Gradient mode	Fast