

**MRS for Different Brain Regions: Thalamus, Frontal White Matter and Frontal Grey Matter**

MRS for baseline (bas) and follow up (FU) for different brain regions, including T

Thalamus (Thal),  
 frontal white matter (FWM)  
 frontal grey matter (FG)

	MRS	
	N=11 Median (IQR) <i>p-value using Wilcoxon sign ranked test</i>	
	Baseline	Follow-up
<b>ThalbasNAACr ratio</b>	0.96(0.70 to 1.08) Range: 0.36 to 1.24	N=10 1.07(0.95 to 1.41) Range: 0.83 to 1.63
<b>Difference ThalbasNAACr ratio baseline to follow-up</b> <i>(FU-base)</i>		N=10 0.19(-0.11 to 0.44) Range: -0.25 to 1.09  <i>p=0.131</i>
	0.23(0.19 to 0.25) Range: 0.14 to 0.29	N=10 0.23(0.21 to 0.27) Range: 0.19 to 0.36
<b>Difference Tha cholCr ratio baseline to follow-up</b> <i>(FU-base)</i>		N=10 0.01(-0.04 to 0.04) Range: -0.09 to 0.22  <i>p=0.770</i>
	0.80(0.73 to 1.16) Range: 0.35 to 1.44	N=10 0.98(0.84 to 1.38) Range: 0.61 to 2.50
<b>Thal GlxCr ratio</b>		

# SSAT 058: Final locked data analysis

Version 4.0: 22<sup>nd</sup> May 2018

	MRS	
	N=11 Median (IQR) <i>p-value using Wilcoxon sign ranked test</i>	
	Baseline	Follow-up
Difference Thal GlxCr ratio baseline to follow-up (FU-base)		N=10 0.22(-0.28 to 0.65) Range: -0.43 to 1.53  <i>p</i> =0.275
Thal InoCr ratio	0.38(0.35 to 0.53) Range: 0.28 to 0.70	<no data>
Difference Thal InoCr ratio baseline to follow-up (FU-base)		
FW NAACr	1.24(1.07 to 1.33) Range: 0.99 to 1.43	N=10 1.12(1.01 to 1.23) Range: 0.58 to 1.26
Difference FW NAACr baseline to follow-up (FU-base)		N=10 -0.05(-0.17 to 0.02) Range: -0.85 to 0.19  <i>p</i> =0.264
FW CholCr ratio	0.31(0.27 to 0.34) Range: 0.25 to 0.40	N=10 0.27(0.24 to 0.34) Range: 0.18 to 0.35
Difference FW CholCr ratio baseline to follow-up (FU-base)		N=10 -0.04(-0.08 to 0.01) Range: -0.12 to 0.04  <i>p</i> =0.068
FW GlxCr ratio	0.88(0.62 to 1.00) Range: 0.23 to 1.19	N=10 0.90(0.85 to 0.96) Range: 0.62 to 1.59

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	MRS	
	N=11	
	Median (IQR)	
	<i>p-value using Wilcoxon sign ranked test</i>	
	Baseline	Follow-up
Difference FW GlxCr ratio baseline to follow-up (FU-base)		N=10 0.10(-0.02 to 0.40) Range: -0.12 to 0.62  <i>p=0.131</i>
FW InsCr ratio	0.59(0.53 to 0.71) Range: 0.47 to 0.75	N=10 0.61(0.58 to 0.85) Range: 0.51 to 0.88
Difference FW InsCr ratio baseline to follow-up (FU-base)		N=10 0.106(-0.01 to 0.19) Range: -0.09 to 0.22  <i>p=0.065</i>
FG NAACr ratio	1.09(1.04 to 1.14) Range: 1.02 to 1.20	N=10 1.06(0.94 to 1.13) Range: 0.00 to 1.20
Difference FG NAACr ratio baseline to follow-up (FU-base)		N=10 -0.02(-0.15 to 0.05) Range: -1.19 to 0.09  <i>p=0.401</i>
FG choCr ratio	0.25(0.23 to 0.26) Range: 0.20 to 0.28	N=10 0.22(0.21 to 0.26) Range: 0.20 to 0.27
Difference FG choCr ratio baseline to follow-up (FU-base)		N=10 -0.01(-0.05 to 0.02) Range: -0.06 to 0.03  <i>p=0.375</i>
FG GlxCr ratio	<No data>	N=10 1.24(1.16 to 1.35)

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	MRS	
	N=11	
	Median (IQR)	
	<i>p-value using Wilcoxon sign ranked test</i>	
	Baseline	Follow-up
		Range: 1.00 to 1.65
Difference FG GlxCr ratio baseline to follow-up (FU-base)		-
FG InsCr ratio	0.61(0.53 to 0.64) Range 0.44 to 0.69	N=10 0.62(0.57 to 0.68) Range: 0.53 to 0.77
Difference FG InsCr ratio baseline to follow-up (FU-base)		N=10 -0.04(-0.05 to 0.10) Range: -0.08 to 0.31 <i>p=0.287</i>