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## Supplemental material

**Characterizing tumor invasiveness of glioblastoma using multiparametric magnetic resonance imaging**

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**Supplementary Table 1. Metabolic characteristics of ROIs**

<b>Cho/Cr</b>				
	Descriptive		CE-ROI	NAWM
ROI	Mean ± SD	95% CI	<i>P</i>	<i>P</i>
q-ROI	0.66 ± 0.20	0.63-0.70	<b>0.004</b>	<b>&lt; 0.001</b>
CE-ROI	0.56 ± 0.13	0.54-0.59	/	<b>&lt; 0.001</b>
NAWM	0.30 ± 0.07	0.29-0.31	/	/
<b>Cho/NAA</b>				
	Descriptive		CE-ROI	NAWM
ROI	Mean ± SD	95% CI	<i>P</i>	<i>P</i>
q-ROI	0.84 ± 0.45	0.75-0.92	0.055	<b>&lt; 0.001</b>
CE-ROI	0.75 ± 0.62	0.63-0.87	/	<b>&lt; 0.001</b>
NAWM	0.22 ± 0.06	0.21-0.23	/	/
<b>Lac/Cr</b>				
	Descriptive		CE-ROI	NAWM
ROI	Mean ± SD	95% CI	<i>P</i>	<i>P</i>
q-ROI	7.79 ± 7.28	6.34-9.24	<b>0.005</b>	<b>&lt; 0.001</b>
CE-ROI	4.17 ± 3.40	3.49-4.85	/	<b>&lt; 0.001</b>
NAWM	0.08 ± 0.25	0.03-0.13	/	/
<b>Glx/Cr</b>				
	Descriptive		CE-ROI	NAWM
ROI	Mean ± SD	95% CI	<i>P</i>	<i>P</i>
q-ROI	2.60 ± 1.17	2.37-2.83	<b>0.007</b>	<b>&lt; 0.001</b>
CE-ROI	2.08 ± 0.72	1.94-2.22	/	<b>&lt; 0.001</b>
NAWM	1.62 ± 0.77	1.47-1.76	/	/
<b>mIns/Cr</b>				
	Descriptive		CE-ROI	NAWM
ROI	Mean ± SD	95% CI	<i>P</i>	<i>P</i>
q-ROI	1.59 ± 0.78	1.44-1.73	0.085	<b>&lt; 0.001</b>
CE-ROI	1.45 ± 0.60	1.33-1.56	/	<b>&lt; 0.001</b>
NAWM	1.02 ± 0.22	0.98-1.06	/	/
<b>NAA/Cr</b>				
	Descriptive		CE-ROI	NAWM
ROI	Mean ± SD	95% CI	<i>P</i>	<i>P</i>
q-ROI	0.88 ± 0.26	0.83-0.93	0.171	<b>&lt; 0.001</b>
CE-ROI	0.91 ± 0.24	0.86-0.95	/	<b>&lt; 0.001</b>
NAWM	1.38 ± 0.31	1.32-1.44	/	/