

On-line Table 1: Quantitative comparison of all tensor metrics for all regions of interest among abscesses, GB, and metastases ^a						
Region/Metric	Abscess	GB	Mets	Abscess vs GB	Abscess vs Mets	GB vs Mets
CC						
FA	0.198 ± 0.083	0.062 ± 0.017	0.047 ± 0.004	<.001	<.001	0.710
ADC	0.713 ± 0.277	1.854 ± 0.682	2.164 ± 0.392	<.001	<.001	0.227
C_l	9.6 ± 5.7	2.2 ± 0.9	1.6 ± 0.4	<.001	<.001	0.921
C_p	7.0 ± 4.3	3.5 ± 1.0	2.6 ± 0.6	0.005	<.001	0.673
C_s	83.4 ± 7.2	94.0 ± 1.5	95.8 ± 0.5	<.001	<.001	0.558
ER						
FA	0.157 ± 0.033	0.117 ± 0.017	0.077 ± 0.020	<.001	<.001	<.001
ADC	0.961 ± 0.249	1.268 ± 0.145	1.271 ± 0.282	0.005	0.001	.999
C_l	4.5 ± 1.5	3.8 ± 0.9	2.3 ± 0.8	0.188	<.001	0.001
C_p	9.8 ± 2.5	7.7 ± 1.8	5.0 ± 1.4	0.017	<.001	<.001
C_s	85.6 ± 3.7	88.4 ± 1.9	92.5 ± 1.8	0.012	<.001	<.001
IZE						
FA	0.124 ± 0.033	0.171 ± 0.038	0.153 ± 0.037	0.002	0.045	0.281
ADC	1.440 ± 0.174	1.241 ± 0.151	1.282 ± 0.155	0.004	0.010	0.709
C_l	4.0 ± 1.2	5.7 ± 1.4	5.3 ± 1.9	0.022	0.046	0.794
C_p	7.7 ± 2.8	10.6 ± 3.6	8.7 ± 2.3	0.019	0.509	0.112
C_s	88.2 ± 3.6	83.4 ± 3.8	85.8 ± 3.1	0.001	0.092	0.089
DZE						
FA	0.124 ± 0.032	0.103 ± 0.029	0.117 ± 0.032	0.180	0.811	0.345
ADC	1.569 ± 0.115	1.645 ± 0.177	1.508 ± 0.343	0.716	0.758	0.258
C_l	4.7 ± 1.5	3.8 ± 1.6	4.5 ± 1.8	0.308	0.909	0.429
C_p	6.2 ± 2.5	5.6 ± 1.7	6.0 ± 2.2	0.793	0.984	0.840
C_s	88.8 ± 3.4	90.5 ± 2.3	89.2 ± 2.9	0.286	0.925	0.376
NAWM						
FA	0.499 ± 0.071	0.500 ± 0.080	0.473 ± 0.085	1.000	0.579	0.563
ADC	0.725 ± 0.036	0.758 ± 0.068	0.743 ± 0.082	0.414	0.691	0.792
C_l	26.0 ± 7.0	27.1 ± 7.0	23.2 ± 7.2	0.913	0.421	0.202
C_p	18.8 ± 7.9	15.8 ± 6.7	20.2 ± 9.1	0.604	0.851	0.232
C_s	55.2 ± 6.8	57.0 ± 7.7	56.6 ± 9.2	0.826	0.857	0.987

^aData are mean ± SD. The units are $\times 10^{-3}$ mm²/s for ADC values and percentage for C_l , C_p , and C_s .

On-line Table 2: Measures of sensitivity, specificity, and accuracy in discrimination of abscesses from glioblastoma and metastasis with ROC curve analysis						
Region/Metric	Cutoff value	Sensitivity	Specificity	Accuracy	AUC	P Value
CC						
FA	0.095	100	100	100	1.000	<.001
ADC	1.296	100	85.2	90.5	0.973	<.001
C_l	2.5	100	85.2	90.5	0.983	<.001
C_p	4.5	80.0	92.6	88.1	0.873	<.001
C_s	91.5	86.7	100	95.3	0.980	<.001
ER						
FA	0.135	80	97.6	92.8	0.950	<.001
ADC	1.124	80	82.9	82.1	0.816	<.001
C_l	3.5	73.3	75.6	75	0.806	.001
C_p	7.5	86.7	73.2	76.8	0.871	<.001
C_s	87.5	66.7	92.7	85.8	0.880	<.001
IZE						
FA	0.135	66.7	68.3	67.9	0.750	.005
ADC	1.399	66.7	82.9	78.6	0.767	.002
C_l	4.5	66.7	70.7	69.7	0.739	.007
C_p	8.5	66.7	65.9	66.1	0.676	.046
C_s	87.5	66.7	78.0	75.0	0.751	.004