

Supplementary Table 2. Imaging Parameter Descriptions

Imaging Parameter	Description
Volume	
T2 volume	Hyperintensity on the T2WI including cystic or necrotic region and contrast enhancing region volume
CBV	
CBV_mean	Mean nCBV of the entire tumor volume on T2WI
CBV_95	95th percentile nCBV of the entire tumor volume on T2WI
CBV_90	90th percentile nCBV of the entire tumor volume on T2WI
CBV_85	85th percentile nCBV of the entire tumor volume on T2WI
CBF	
CBF_mean	Mean nCBF of the entire tumor volume on T2WI
CBF_95	95th percentile nCBF of the entire tumor volume on T2WI
CBF_90	90th percentile nCBF of the entire tumor volume on T2WI
CBF_85	85th percentile nCBF of the entire tumor volume on T2WI
ADC	
ADC_mean	Mean nADC of the entire tumor volume on T2WI
ADC_5	5th percentile nADC of the entire tumor volume on T2WI
ADC_10	10th percentile nADC of the entire tumor volume on T2WI
ADC_15	15th percentile nADC of the entire tumor volume on T2WI
Location	
Insula	Presence of tumor involvement of insula
Frontal	Presence of tumor involvement of frontal lobe
Parietal	Presence of tumor involvement of parietal lobe
Temporal	Presence of tumor involvement of temporal lobe
Occipital	Presence of tumor involvement of occipital lobe
Deep-gray	Presence of tumor involvement of basal ganglia and thalamus
Enhancement	Presence of solid enhancing portion on the CE T1WI
Cystic change/necrosis	Presence of a necrotic or cystic portion
HSIM	Proportion of well-defined margin
T2-FLAIR mismatch	High signal intensity of the tumor on T2WI and a relatively low signal intensity on FLAIR

ADC = apparent diffusion coefficient, CBF = cerebral blood flow, CBV = cerebral blood volume, CE T1WI = contrast-enhanced T1-weighted image, FLAIR = fluid attenuated inversion recovery, HSIM = T2 hypersignal intensity margin, nADC = normalized ADC, nCBF = normalized CBF, nCBV = normalized CBV, T2WI = T2-weighted image