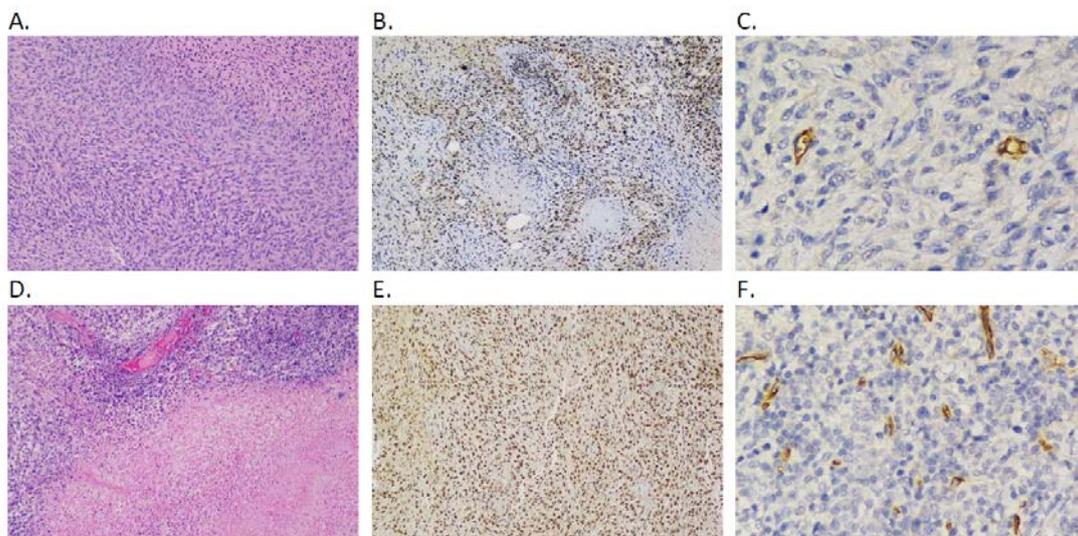


Supplementary Materials: Quantitative Imaging Parameters of Contrast-Enhanced Micro-Computed Tomography Correlate with Angiogenesis and Necrosis in a Subcutaneous C6 Glioma Model

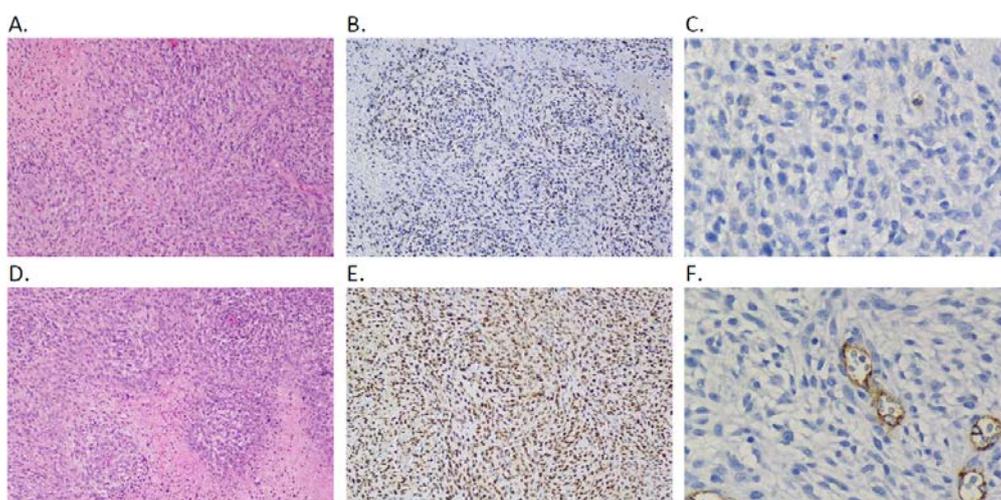
Lízbeth Ayala-Domínguez, Enrique Pérez-Cárdenas, Alejandro Avilés-Salas, Luis Alberto Medina, Marcela Lizano and María-Ester Brandan

Figure S1. Representative histological samples of the subcutaneous C6 glioma model evaluated with the SE imaging protocol.



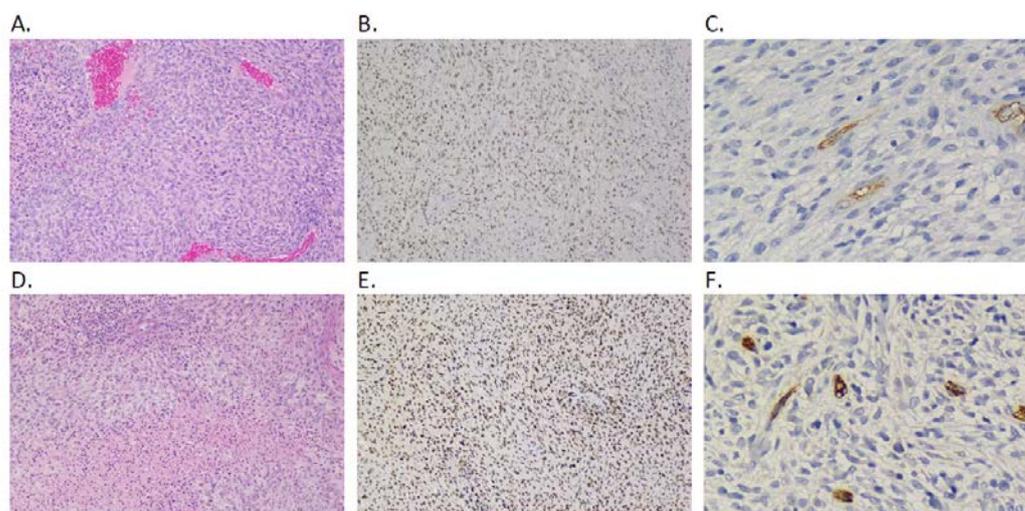
For this group, the lowest percent necrosis (PN) was (A) 5% and the highest was (B) 85%; the lowest proliferation index (PI) was (C) 40%, and the highest was (D) 95%; the lowest microvessel density (MVD) was (E) 2.0 vessels/high-power field (HPF), and the highest was (F) 18.3 vessels/HPF. MVD images are shown at 400× magnification, all other images are shown at 100× magnification.

Figure S2. Representative histological samples of the subcutaneous C6 glioma model evaluated with the DE imaging protocol.



For this group, the lowest PN was (A) 15% and the highest was (B) 60%; the lowest PI was (C) 50%, and the highest was (D) 95%; the lowest MVD was (E) 0.9 vessels/field of view (FOV), and the highest was (F) 7.6 vessels/HPF. MVD images are shown at 400× magnification, all other images are shown at 100× magnification.

Figure S3. Representative histological samples of the subcutaneous C6 glioma model evaluated with the DCE imaging protocol.



For this group, the lowest PN was (A) 5% and the highest was (B) 50%; the lowest PI was (C) 60%, and the highest was (D) 90%; the lowest MVD was (E) 1.3 vessels/field of view (FOV), and the highest was (F) 6.3 vessels/HPF. MVD images are shown at 400× magnification, all other images are shown at 100× magnification.

Table S1. Average VOI size and estimated number of pixels used for the quantification of imaging parameters for several tissue/organs in SE and DE micro-CT images.

Tissue/Organ	SE Imaging Protocol		DE Imaging Protocol	
	Volume (mm ³)	Estimated Number of Voxels	Volume (mm ³)	Estimated Number of Voxels
Abdominal aorta	0.5 ± 0.0	713.3 ± 6.1	0.5 ± 0.0	719.0 ± 4.2
IVC	1.8 ± 0.0	2191.0 ± 2.8	1.8 ± 0.0	2196.5 ± 26.2
Kidney	0.5 ± 0.0	717.5 ± 3.5	0.5 ± 0.0	721.0 ± 2.8
Liver	1.8 ± 0.0	2188.0 ± 2.8	1.8 ± 0.0	2185 ± 4.9
Spleen	0.5 ± 0.0	716.3 ± 5.5	0.5 ± 0.0	721.0 ± 4.2
Muscle	0.5 ± 0.0	718.8 ± 6.1	0.5 ± 0.0	723.5 ± 4.9
Complete tumor	334.2 ± 126.8	349,180.5 ± 130,381.6	694.3 ± 94.8	718,005.3 ± 96,071.6
Central tumor	41.8 ± 15.8	45,570.3 ± 16,752.2	86.8 ± 11.9	92,762.5 ± 12,123.8
Peripheral tumor	2.0 ± 1.1	2400.3 ± 1308.5	1.8 ± 1.6	2135.9 ± 1834.0

Values are expressed as mean ± standard deviation.



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