

# Twisted blood vessel

Tortuous or twisted arteries and veins are commonly seen in humans and animals. While mild tortuosity is a common anomaly without clinical symptoms, severe tortuosity can lead to various serious symptoms. Clinical observations have linked tortuous arteries and veins to aging, atherosclerosis, hypertension, genetic defects and diabetes mellitus.

**Glioblastoma Multiforme** (GBM) is a highly invasive brain cancer, with prominent vascular involvement, characterized by twisted blood vessel <sup>1)</sup> and infiltration along external vessel walls <sup>2)</sup> which makes it resistant to treatment.

<sup>1)</sup>

Burger PC, Scheithauer BW (2007) Tumors of the Central Nervous System: AFIP Atlas of Tumor Pathology. Washington DC: American Registry of Pathology Press, Series 4. pp. 65-66.

<sup>2)</sup>

Farin A, Suzuki SO, Weiker M, Goldman JE, Bruce JN, et al. (2006) Transplanted glioma cells migrate and proliferate on host brain vasculature: a dynamic analysis. *Glia* 53: 799-808.

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