

Animal Species	Breed	Age (years)	Weight (kg)	MRI findings	Size of the lesion to be biopsied (height x width x length) (cm)	Volume of the lesion to be biopsied (cm <sup>3</sup> )	Operative time (minutes)	Histological diagnosis	Complications (during procedure and at the discharge)
Dog	Chihuahua	4.8	3.5	Multifocal intra-axial lesions mainly affecting the two cerebral hemispheres with one lesion in the brainstem and one in the thalamus	0.5 x 0.9 x 1.0	0.45	25	Chronic multifocal meningo-encephalitis	None
Dog	French Bulldog	4.0	9.7	Intra-axial mass in the left frontal cortex	1.41 x 1.29 x 1.23	2.24	25	Astrocytoma – grade II	None
Dog	French Bulldog	8.0	10.0	Intra-axial mass in the left fronto-parietal cortex	1.18 x 1.39 x 1.54	2.53	24	Non-diagnostic samples. Necropsy diagnosis: oligodendroglioma – grade II	None
Dog	Belgian Malinois	2.7	21.8	Multifocal extra-axial supra- and subtentorial lesions, with the main lesion located in the left cerebellopontine angle	1.75 x 1.5 x 2.05	5.38	28	Choroid plexus tumor	None
Cat	Domestic shorthair	13.5	6.5	Extra-axial mass in front of the left frontal cortex	1.6 x 2.0 x 1.5	4.8	19	Meningioma	None

**SupplementaryTable S1:** Preliminary study of stereotactic brain biopsies with a patient-specific 3D printed device using maxillary dental impression in four dogs and one cat between March 2023 and October 2023. Summary table of the patient signalments, MRI findings, size and volume of the lesions to be biopsied, operative time, histological diagnosis and complications.