

**Table 1:** Volumetric variables selected as potential predictors based on univariate statistical analysis ( $p < .05$ ) of seizure freedom in all patients who underwent frontal lobectomy. All volumetric variables determined as percentiles compared to age, sex, and cranial volume-matched controls. Volume asymmetry calculated as volumetric percentile difference between left and right side, compared to controls.

Factor	Overall (N=90)		Not seizure free (N=42)		Seizure free (N=48)		p-value
	N	Percentiles	n	Percentiles	n	Percentiles	
<b><u>Cortical volume asymmetry between left and right side</u></b>							
Lingual gyrus, asymmetry	90	44.5±33.0	42	32.4±30.4	48	55.1±31.7	<b>&lt;0.001<sup>a</sup></b>
Middle frontal gyrus, asymmetry	90	56.6±32.2	42	44.5±32.3	48	67.1±28.5	<b>&lt;0.001<sup>a</sup></b>
Superior frontal gyrus, Asymmetry	90	67.3±30.5	42	74.3±26.3	48	61.2±32.9	<b>0.042<sup>a</sup></b>
Premotor region, asymmetry	90	57.2±33.0	42	46.8±33.9	48	66.4±29.6	<b>0.004<sup>a</sup></b>
Cerebral white matter hypointensities, asymmetry	90	47.7±35.0	42	56.1±34.8	48	40.4±33.9	<b>0.033<sup>a</sup></b>
Posterior superior temporal sulcus, asymmetry	90	21.1±31.1	42	13.6±26.3	48	27.7±33.7	<b>0.032<sup>a</sup></b>
<b><u>Cortical volume compared to normative controls</u></b>							
Hippocampus, right	90	47.5±32.1	42	39.5±30.5	48	54.6±32.2	<b>0.025<sup>a</sup></b>
Entorhinal cortex, left	90	37.7±31.2	42	47.1±30.8	48	29.5±29.4	<b>0.007<sup>a</sup></b>
Middle frontal gyrus, left	90	61.6±30.1	42	54.5±31.4	48	67.8±27.8	<b>0.036<sup>a</sup></b>
Nucleus accumbens, right	90	36.4±29.5	42	29.2±25.0	48	42.6±31.9	<b>0.031<sup>a</sup></b>
Occipital lobe, left	90	44.9±32.3	42	37.6±31.3	48	51.2±32.1	<b>0.045<sup>a</sup></b>
Premotor region, left	90	64.1±29.8	42	57.0±30.2	48	70.4±28.2	<b>0.032<sup>a</sup></b>

Statistics presented as Mean ± SD; p-values: two-sample t test.