

## Supplement

**Table S1: The association between preoperative WMH shape markers and occurrence of intraoperative hyperglycemia; analyses additionally adjusted for WMH volume.**

	Total group (n=65)	Patients with intraoperative glucose <150 mg/dL (n=47)	Patients with intraoperative glucose ≥150 mg/dL (n=18)	OR (95 % CI)	P value
<b>Periventricular/confluent WMH shape</b>					
Fractal dimension	1.54 (1.31-1.69)	1.54 (1.29-1.66)	1.60 (1.39-1.72)	1.170 (0.016 – 85.788)	0.943
Solidity	0.33 (0.25-0.62)	0.39 (0.26-0.63)	0.31 (0.22-0.51)	0.198 (0.026 – 1.511)	0.118
Convexity	1.15 (1.01-1.29)	1.14 (1.01-1.26)	1.26 (1.05-1.43)	36.195 (0.939 – 1395.76)	0.054
Concavity index	1.03 (1.00-1.09)	1.03 (1.00-1.09)	1.03 (0.97-1.08)	0.001 (0.000 – 3.593)	0.097
<b>Deep WMH shape</b>					
Fractal dimension	1.82 (1.68-2.01)	1.81 (1.67-1.99)	1.89 (1.68-2.04)	1.170 (0.016 – 85.788)	0.943
Eccentricity	0.54 (0.46-0.59)	0.56 (0.46-0.60)	0.52 (0.45-0.57)	0.293 (0.016 – 5.303)	0.406

Associations between preoperative WMH shape markers and occurrence of intraoperative hyperglycemia assessed by multiple logistic regression analyses adjusted for age, sex and WMH volume.

*WMH: white matter hyperintensities.*