JoS

Noda et al.   Neurological Pupil Index and Post-Stroke Delirium

Supplementary Table 1. Comparison of pupillary findings between patients with and without delirium

	Patients without delirium (n=106)	Patients with delirium (n=25)	P
Maximum DV (cm/s)	0.87±0.31	0.74±0.26	0.06
Minimum DV (cm/s)	0.69±0.30	0.58±0.27	0.11
Average DV (cm/s)	0.78±0.29	0.66±0.26	0.07
DV differential (cm/s)	0.18±0.16	0.15±0.11	0.47
Maximum MCV (cm/s)	2.58±1.05	2.15±0.77	0.06
Minimum MCV (cm/s)	2.06±0.97	1.82±0.73	0.25
Average MCV (cm/s)	2.33±0.99	1.99±0.73	0.11
MCV differential (cm/s)	0.52±0.41	0.32±0.29	0.03
Maximum LAT (cm/s)	0.27±0.04	0.28±0.04	0.33
Minimum LAT (cm/s)	0.25±0.03	0.24±0.03	0.53
Average LAT (cm/s)	0.26±0.03	0.26±0.03	0.75
LAT differential (cm/s)	0.02±0.02	0.03±0.05	0.04
Maximum CV (cm/s)	1.81±0.75	1.50±0.58	0.06
Minimum CV (cm/s)	1.44±0.73	1.21±0.57	0.15
Average CV (cm/s)	1.63±0.73	1.36±0.56	0.08
CV differential (cm/s)	0.37±0.30	0.29±0.23	0.21
Maximum %CH (%)	25.60±7.40	23.84±5.63	0.27
Minimum %CH (%)	21.61±8.05	18.70±6.99	0.10
Average %CH (%)	23.67±7.55	21.27±5.96	0.14
%CH differential (%)	4.00±3.40	5.14±4.36	0.15
Maximum pupil size at peak constriction (mm)	2.42±0.56	2.54±0.59	0.34
Minimum pupil size at peak constriction (mm)	2.21±0.40	2.08±0.40	0.13
Average pupil size at peak constriction (mm)	2.31±0.45	2.31±0.44	0.98
Pupil size differential at peak constriction (mm)	0.20±0.36	0.46±0.48	<0.01

Values are presented as mean±standard deviation.
DV, dilation velocity; MCV, maximum constriction velocity; LAT, latency of constriction; CV, constriction velocity; %CH, percent change in pupil size.

Supplementary Table 2. Multiple logistic regression analysis for predicting post-stroke delirium

	Adjusted odds ratio	95% CI	P
MCV differential (cm/s)	0.21	0.04–1.05	0.06
LAT differential (cm/s)	1.67×10^6	0.17–N/A	0.08
Pupil size differential at peak constriction (mm)	2.44	0.85–7.03	0.10

Adjusted by age, sex, Glasgow Coma Scale score, and presence of dementia.
CI, confidential interval; MCV, maximum constriction velocity; LAT, latency of constriction; N/A, not applicable.