Supplementary Material

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| **Table S1.** Intraoperative hemodynamic and physiological variables |
| **Variable** | **Control** | **PD/PSSD** | **p value** |
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| Systolic blood pressure, mmHg | 113.5 (25.7) | 121.9 (27.9) | 0.47 |
| Dyastolic blood pressure, mmHg | 61.6 (16.9) | 61.7 (15.52) | 0.99 |
| Mean blood pressure, mmHg | 78.8 (17.8) | 81.8 (17.8) | 0.70 |
| Heart rate, bmp | 78.3 (15.1) | 70.3 (12.9) | 0.20 |
| Oximetry | 97.5 (2.6) | 98.8 (1.1) | 0.15 |
| Data is shown as mean and standard deviation |  |  |
| mmHg: millimeter of mercury; bpm: beats per minute |  |  |



**Supplementary Figure 1.** Flow-chart of patients included in the study. EEG: electroencephalogram; CAM: Confusion Assessment Method; PD: Postoperative delirium; PSSD: Postoperative subsyndromal delirium.

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**Supplementary Figure 2.** Frequency analysis from EEG records of control and PD/PSSD patients. The average spectrum during anaesthesia from global EEG at 120 (A), 180 (B) and 240 (C) minutes. Spectrum represented as mean (thick central line) and 95% interval of confidence (coloured area). Power (dB) is shown from 1 to 40 Hz. Control patients are represented in blue and PD/PSSD patients in red. Each black line represents a statistical difference between the two groups (p<0.05). PD: Postoperative delirium; PSSD: Postoperative subsyndromal delirium; dB: decibels.