**Table S-3.** Indices of variability for the cerebral artery blood flow velocity and pulsatility index between males and females from the young healthy control group. Data represent combined values from the right and left middle cerebral arteries for each patient. Values are reported as means and their (95% confidence intervals).

|  |  |  |
| --- | --- | --- |
|  | **Cerebral blood flow velocity (cm/s)** | **Pulsatility index** |
|  | **Young Males****(n=4)** | **Young Females****(n=4)** | **Young Males** **(n=4)** | **Young Females** **(n=4)** |
| **Linear Measures** |  |  |  |  |
| Average value  | 44 (37.1; 51.0) | 73 (66.6; 79.3) | 0.75 (0.68; 0.82) | 0.768 (0.72; 0.82) |
| Standard deviation | 27 (16.3; 38.2) | 53 (41.3; 63.9) | 0.083 (0.066; 0.100) | 0.089 ± 0.02 |
| Coefficient of variation (%) | 6.0 (4.1; 7.9) | 7.2 (5.8; 8.6) | 11.0 (9.4; 12.7) | 11.7 (9.1; 14.4) |
| Very low frequency power (cm2) \*\* | 0.217 (0.161; 0.272) | 0.260 (0.211; 0.309) | 0.119 (0.085; 0.154) | 0.164 (0.105; 0.224) |
| Low frequency power(cm2) \*\*\* | 0.113 (0.083; 0.143) | 0.097 (0.074; 0.120) | 0.109 (0.075; 0.014) | 0.109 (0.093; 0.125) |
| High frequency power(cm2) \*\*\*\* | 0.054 (0.026; 0.083) | 0.038 (0.005; 0.073) | 0.159 (0.115; 0.204) | 0.140 (0.068; 0.213) |
| **Non-Linear Measures** |  |  |   |   |
| Hurst exponent | 0.569 (0.219; 0.918) | 0.380 (0.064; 0.698) | 0.751 (0.649; 0.853) | 0.497 (0.186; 0.810) |
| Fractal dimension | 1.431 (1.082; 1.780) | 1.620 (1.302; 1.936) | 1.249 (1.147; 1.350) | 1.502 (1.190; 1.814) |
| Higuchi exponent | 1.984 (1.95; 2.02) | 2.017 (1.99; 2.04) | 2.007 (1.999; 2.015) | 2.002 (1.990; 2.014) |
| Correlation Dimension (D2) | 7.94 (6.04; 9.85) | 5.26 (4.55; 5.98) | 11.09 (10.23; 11.58) | 10.09 (9.34; 10.85) |
| Largest Lyapunov exponent (ʎ) | 0.033 (0.025; 0.041) | 0.039 (0.032; 0.047) | 0.049 (0.041; 0.058) | 0.046 0.027; 0.065) |

\*\* Very low frequency band: 0.003 Hz to 0.040 Hz; \*\*\* Low frequency band: 0.040 Hz to 0.15 Hz; \*\*\*\* High frequency band: 0.15 Hz to 0.40 Hz