|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **R Square** | **ANOVA significance** | **Age - OR (p)** | **Gender - OR (p)** | **AHI index - OR (p)** | **PLMS index – OR (p)** |
| **Wakefulness** | |  |  |  |  |  |
| LF ms2 | .116 | .256 | -.301 (.056) | -.056 (.719) | .79 (.595) | -.156 (.309) |
| Log LF | .22 | **.030** | **-.412 (.006)** | -.133 (.367) | .070 (.617) | -.232 (.111) |
| HF ms2 | .028 | .275 | -.234 (.136) | .078 (.619) | .09 (.929) | -.157 (.308) |
| Log HF | .039 | .231 | -.271 (.083) | -.038 (.807) | .077 (.605) | -.205 (.181) |
| LF/HF ratio | .032 | .847 | -.113 (.484) | -.088 (.590) | -.105 (.502) | .059 (.710) |
| **NREM** |  |  |  |  |  |  |
| LF ms2 | .180 | .074 | **-.413 (.008)** | -.228 (.134) | .025 (.863) | -.065 (.66) |
| Log LF | .199 | **.049** | **-.454 (.003)** | -.147 (.325) | -.045 (.753) | -.006 (.968) |
| HF ms2 | .197 | .051 | **-.299 (.047)** | .154 (.304) | -.219 (.128) | .036 (.802) |
| Log HF | .141 | .164 | -.302 (.052) | .129 (.401) | -.079 (.591) | .012 (.934) |
| LF/HF ratio | .08 | .464 | -.101 (.522) | -.284 (.079) | .115 (.451) | -.075 (.631) |
| **REM** |  |  |  |  |  |  |
| LF ms2 | .205 | **.043** | **-.423 (.006)** | -.138 (.351) | .194 (.174) | -.148 (.309) |
| Log LF | .113 | .060 | **-.408 (.008)** | -.083 (.581) | .203 (.159) | -.111 (.448) |
| HF ms2 | .124 | .255 | -.183 (.238) | -.019 (.905) | -.079 (.594) | -.252 (.103) |
| Log HF | .108 | .298 | -.208 (.183) | .045 (.775) | -.023 (.875) | -.191 (.217) |
| LF/HF ratio | .068 | .552 | .064 (.687) | -.036 (.821) | .196 (.203) | .102 (.515) |

**Supplementary Material E –** The effect of age, gender, AHI and PLMS on the variance of HRV components in sleep and wake stages for the full cohort (multiple regressions).

AHI – apnoea-hypopnoea index; HF (ms2) - High frequency absolute power; HRV – heart rate variability; LF (ms2) - Low Frequency absolute power; Log - natural logarithm; NREM - Non-Rapid Eye Movement sleep; OR – Odds ratio; p – p value; PLMS – periodic limb movements of sleep; REM - Rapid Eye Movement sleep