**Table 1. Descriptive Characteristics of the Overall Study Population and by Relative Amplitude Categories**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Characteristics** | **Overall Sample**  **(n=)** | **RA Below Median (n=)** | **RA Above Median (n=)** | **p-value** |
| Age (y) |  |  |  |  |
| Female (%) |  |  |  |  |
| Race/Ethnicity (%)  *White*  *Black*  *Hispanic*  *Asian* |  |  |  |  |
| Married (%) |  |  |  |  |
| Education (%) |  |  |  |  |
| Current Smoker (%) |  |  |  |  |
| Alcohol Use (%) |  |  |  |  |
| Sleep Duration (h) |  |  |  |  |
| BMI (kg/m2) |  |  |  |  |
| Obesity (%) |  |  |  |  |
| WC (cm) |  |  |  |  |
| Central Adiposity (%) |  |  |  |  |
| Fasting glucose (mg/dl) |  |  |  |  |
| Type 2 diabetes (%) |  |  |  |  |
| SBP (mmHg) |  |  |  |  |
| DBP (mmHg) |  |  |  |  |
| Hypertension (%) |  |  |  |  |
| CVD (%) |  |  |  |  |
| Inter-daily Stability |  |  |  |  |
| Intra-daily Variability |  |  |  |  |
| M10 Midpoint |  |  |  |  |
| M10 Counts |  |  |  |  |
| L5 Midpoint |  |  |  |  |
| L5 Counts |  |  |  |  |
| Relative Amplitude |  |  |  |  |

**Table 2. Linear regression models for 24-h Rest-Activity Pattern Variables in Relation to Blood Pressure**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Systolic Blood Pressure (mmHg)** | | |
| **24-h Rest-Activity Pattern Variables** | **Model 1** | **Model 2** | **Model 3** |
| Inter-daily Stability (IS60) |  |  |  |
| Intra-daily Variability (IV60) |  |  |  |
| M10 Midpoint |  |  |  |
| M10 Counts |  |  |  |
| L5 Midpoint |  |  |  |
| L5 Counts |  |  |  |
| Relative Amplitude |  |  |  |
|  | **Diastolic Blood Pressure (mmHg)** | | |
| **24-h Rest-Activity Pattern Variables** | **Model 1** | **Model 2** | **Model 3** |
| Inter-daily Stability |  |  |  |
| Intra-daily Variability |  |  |  |
| M10 Midpoint |  |  |  |
| M10 Counts |  |  |  |
| L5 Midpoint |  |  |  |
| L5 Counts |  |  |  |
| Relative Amplitude |  |  |  |

**Model 1 is the univariate model**

**Model 2 is adjusted for age (y), sex, marital status, education, race/ethnicity, smoking, and alcohol use.**

**Model 3**

**Table 3. Linear regression models for 24-h Rest-Activity Pattern Variables in Relation to Metabolic Outcomes**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **BMI (kg/m2)** | | |
| **24-h Rest-Activity Pattern Variables** | **Model 1** | **Model 2** | **Model 3** |
| Inter-daily Stability (IS60) |  |  |  |
| Intra-daily Variability (IV60) |  |  |  |
| M10 Midpoint |  |  |  |
| M10 Counts |  |  |  |
| L5 Midpoint |  |  |  |
| L5 Counts |  |  |  |
| Relative Amplitude |  |  |  |
|  | **Waist Circumference (cm)** | | |
| **24-h Rest-Activity Pattern Variables** | **Model 1** | **Model 2** | **Model 3** |
| Inter-daily Stability |  |  |  |
| Intra-daily Variability |  |  |  |
| M10 Midpoint |  |  |  |
| M10 Counts |  |  |  |
| L5 Midpoint |  |  |  |
| L5 Counts |  |  |  |
| Relative Amplitude |  |  |  |
|  | **Fasting Glucose (mg/dl)** | | |
| **24-h Rest-Activity Pattern Variables** | **Model 1** | **Model 2** | **Model 3** |
| Inter-daily Stability |  |  |  |
| Intra-daily Variability |  |  |  |
| M10 Midpoint |  |  |  |
| M10 Counts |  |  |  |
| L5 Midpoint |  |  |  |
| L5 Counts |  |  |  |
| Relative Amplitude |  |  |  |

**Table 4. Logistic regression models for 24-h Rest-Activity Pattern Variables in Relation to Blood Pressure**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Hypertension** | | |
| **24-h Rest-Activity Pattern Variables** | **Model 1**  **OR (95% CI)**  **p-trend** | **Model 2**  **OR (95% CI)**  **p-trend** | **Model 3**  **OR (95% CI)**  **p-trend** |
| Inter-daily Stability (IS60)  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| Intra-daily Variability (IV60)  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| M10 Midpoint  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| M10 Counts  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| L5 Midpoint  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| L5 Counts  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| Relative Amplitude  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
|  | **Hypertension old definition** | | |
| **24-h Rest-Activity Pattern Variables** | **Model 1**  **OR (95% CI)**  **p-trend** | **Model 2**  **OR (95% CI)**  **p-trend** | **Model 3**  **OR (95% CI)**  **p-trend** |
| Inter-daily Stability  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| Intra-daily Variability  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| M10 Midpoint  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| M10 Counts  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| L5 Midpoint  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| L5 Counts  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| Relative Amplitude  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
|  | **Cardiovascular Disease** | | |
| **24-h Rest-Activity Pattern Variables** | **Model 1**  **OR (95% CI)**  **p-trend** | **Model 2**  **OR (95% CI)**  **p-trend** | **Model 3**  **OR (95% CI)**  **p-trend** |
| Inter-daily Stability  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| Intra-daily Variability  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| M10 Midpoint  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| M10 Counts  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| L5 Midpoint  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| L5 Counts  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| Relative Amplitude  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
|  |  |  |  |

**Model 1 is the univariate model**

**Model 2 is adjusted for age (y), sex, marital status, education, race/ethnicity, smoking, and alcohol use.**

**Model 3**

**Table 5. Logistic regression models for 24-h Rest-Activity Pattern Variables in Relation to Cardiometabolic Outcomes**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Obesity** | | |
| **24-h Rest-Activity Pattern Variables** | **Model 1**  **OR (95% CI)**  **p-trend** | **Model 2**  **OR (95% CI)**  **p-trend** | **Model 3**  **OR (95% CI)**  **p-trend** |
| Inter-daily Stability (IS60)  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| Intra-daily Variability (IV60)  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| M10 Midpoint  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| M10 Counts  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| L5 Midpoint  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| L5 Counts  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| Relative Amplitude  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
|  | **Central Adiposity** | | |
| **24-h Rest-Activity Pattern Variables** | **Model 1**  **OR (95% CI)**  **p-trend** | **Model 2**  **OR (95% CI)**  **p-trend** | **Model 3**  **OR (95% CI)**  **p-trend** |
| Inter-daily Stability  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| Intra-daily Variability  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| M10 Midpoint  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| M10 Counts  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| L5 Midpoint  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| L5 Counts  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| Relative Amplitude  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
|  | **Type 2 Diabetes** | | |
| **24-h Rest-Activity Pattern Variables** | **Model 1**  **OR (95% CI)**  **p-trend** | **Model 2**  **OR (95% CI)**  **p-trend** | **Model 3**  **OR (95% CI)**  **p-trend** |
| Inter-daily Stability  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| Intra-daily Variability  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| M10 Midpoint  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| M10 Counts  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| L5 Midpoint  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| L5 Counts  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |
| Relative Amplitude  *Tertile 1*  *Tertile 2*  *Tertile 3* |  |  |  |