**ANALYSIS: PD vs. Controls**

**MINUTE VOLUME**

| **Within Subjects Effects**  |
| --- |
|  | **Sphericity Correction**  | **Sum of Squares**  | **df**  | **Mean Square**  | **F**  | **p**  |
| Time  |  | Greenhouse-Geisser  |  | 63.456  | ᵃ  | 4.923  | ᵃ  | 12.889  | ᵃ  | 1.970  | ᵃ  | 0.086  | ᵃ  |
| Time ✻ Grupo  |  | Greenhouse-Geisser  |  | 188.754  | ᵃ  | 4.923  | ᵃ  | 38.339  | ᵃ  | 5.860  | ᵃ  | < .001  | ᵃ  |
| Residual  |  | Greenhouse-Geisser  |  | 1223.951  |  | 187.085  |  | 6.542  |  |  |  |    |  |
|  |
| Note.  Type III Sum of Squares  |
| ᵃ Mauchly's test of sphericity indicates that the assumption of sphericity is violated (p < .05).  |

| **Between Subjects Effects**  |
| --- |
|  | **Sum of Squares**  | **df**  | **Mean Square**  | **F**  | **p**  |
| Grupo  |  | 469.249  |  | 1  |  | 469.249  |  | 5.942  |  | 0.020  |  |
| Residual  |  | 3000.876  |  | 38  |  | 78.970  |  |  |  |    |  |
|  |
| Note.  Type III Sum of Squares  |

### Descriptives

#### Descriptives Plot (95% CI)



**RESPIRATORY RATE**

| **Within Subjects Effects**  |
| --- |
|  | **Sphericity Correction**  | **Sum of Squares**  | **df**  | **Mean Square**  | **F**  | **p**  |
| Time  |  | Greenhouse-Geisser  |  | 272.253  | ᵃ  | 5.185  | ᵃ  | 52.506  | ᵃ  | 1.891  | ᵃ  | 0.095  | ᵃ  |
| Time ✻ Grupo  |  | Greenhouse-Geisser  |  | 386.913  | ᵃ  | 5.185  | ᵃ  | 74.620  | ᵃ  | 2.687  | ᵃ  | 0.021  | ᵃ  |
| Residual  |  | Greenhouse-Geisser  |  | 5471.339  |  | 197.035  |  | 27.768  |  |  |  |    |  |
|  |
| Note.  Type III Sum of Squares  |
| ᵃ Mauchly's test of sphericity indicates that the assumption of sphericity is violated (p < .05).  |

| **Between Subjects Effects**  |
| --- |
|  | **Sum of Squares**  | **df**  | **Mean Square**  | **F**  | **p**  |
| Grupo  |  | 894.739  |  | 1  |  | 894.739  |  | 2.758  |  | 0.105  |  |
| Residual  |  | 12328.589  |  | 38  |  | 324.437  |  |  |  |    |  |
|  |
| Note.  Type III Sum of Squares  |

### Descriptives

#### Descriptives Plot (95% CI)



**TIDAL VOLUME**

| **Within Subjects Effects**  |
| --- |
|  | **Sphericity Correction**  | **Sum of Squares**  | **df**  | **Mean Square**  | **F**  | **p**  |
| Time  |  | Greenhouse-Geisser  |  | 0.594  | ᵃ  | 6.345  | ᵃ  | 0.094  | ᵃ  | 2.310  | ᵃ  | 0.032  | ᵃ  |
| Time ✻ Grupo  |  | Greenhouse-Geisser  |  | 0.272  | ᵃ  | 6.345  | ᵃ  | 0.043  | ᵃ  | 1.059  | ᵃ  | 0.389  | ᵃ  |
| Residual  |  | Greenhouse-Geisser  |  | 9.774  |  | 241.111  |  | 0.041  |  |  |  |    |  |
|  |
| Note.  Type III Sum of Squares  |
| ᵃ Mauchly's test of sphericity indicates that the assumption of sphericity is violated (p < .05).  |

| **Between Subjects Effects**  |
| --- |
|  | **Sum of Squares**  | **df**  | **Mean Square**  | **F**  | **p**  |
| Grupo  |  | 0.494  |  | 1  |  | 0.494  |  | 0.711  |  | 0.404  |  |
| Residual  |  | 26.394  |  | 38  |  | 0.695  |  |  |  |    |  |
|  |
| Note.  Type III Sum of Squares  |

### Descriptives

#### Descriptives Plot (95% CI)



**RSSQ RESPIRATORY AMPLITUDE (RA) AND PERIOD (RP)**

| **Independent Samples T-Test** |
| --- |
|  | **95% Confidence Interval** |
|  |  | **statistic** | **p** | **Cohen's d** | **Lower** | **Upper** |
| Rarssq |  | Mann-Whitney U |  | 59.0 |  | < .001 |  | -1.098 |  | -0.145 |  | -0.0620 |  |
| RPrssq |  | Mann-Whitney U |  | 98.0 |  | 0.007 |  | -0.568 |  | -0.775 |  | -0.1704 |  |
|  |

| **Group Descriptives** |
| --- |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Group** | **N** | **Mean** | **Median** | **SD** | **SE** |
| Rarssq |  | Control |  | 23 |  | 0.124 |  | 0.107 |  | 0.0691 |  | 0.0144 |  |
|   | Patient |  | 17 |  | 0.247 |  | 0.211 |  | 0.153 |  | 0.0372 |  |
| RPrssq |  | Control |  | 23 |  | 1.227 |  | 0.953 |  | 0.8293 |  | 0.1729 |  |
|   | Patient |  | 17 |  | 1.697 |  | 1.418 |  | 0.824 |  | 0.1999 |  |

**Respiratory amplitude RSSQ plot (95% CI)**





**Respiratory period RSSQ plot (95% CI)**



**HEART RATE**

| **Within Subjects Effects**  |
| --- |
|  | **Sphericity Correction**  | **Sum of Squares**  | **df**  | **Mean Square**  | **F**  | **p**  |
| Time  |  | Greenhouse-Geisser  |  | 892.854  | ᵃ  | 3.360  | ᵃ  | 265.750  | ᵃ  | 5.460  | ᵃ  | < .001  | ᵃ  |
| Time ✻ Grupo  |  | Greenhouse-Geisser  |  | 199.228  | ᵃ  | 3.360  | ᵃ  | 59.299  | ᵃ  | 1.218  | ᵃ  | 0.306  | ᵃ  |
| Residual  |  | Greenhouse-Geisser  |  | 6214.280  |  | 127.670  |  | 48.674  |  |  |  |    |  |
|  |
| Note.  Type III Sum of Squares  |
| ᵃ Mauchly's test of sphericity indicates that the assumption of sphericity is violated (p < .05).  |

| **Between Subjects Effects**  |
| --- |
|  | **Sum of Squares**  | **df**  | **Mean Square**  | **F**  | **p**  |
| Grupo  |  | 46.554  |  | 1  |  | 46.554  |  | 0.022  |  | 0.883  |  |
| Residual  |  | 80477.470  |  | 38  |  | 2117.828  |  |  |  |    |  |
|  |
| Note.  Type III Sum of Squares  |

### Descriptives

#### Descriptives Plot (95% CI)



**ELECTRODERMAL RESPONSE MAGNITUDE (ERM)**

| **Within Subjects Effects**  |
| --- |
|  | **Sphericity Correction**  | **Sum of Squares**  | **df**  | **Mean Square**  | **F**  | **p**  |
| Time  |  | Greenhouse-Geisser  |  | 30.600  | ᵃ  | 4.273  | ᵃ  | 7.162  | ᵃ  | 8.934  | ᵃ  | < .001  | ᵃ  |
| Time ✻ Grupo  |  | Greenhouse-Geisser  |  | 3.817  | ᵃ  | 4.273  | ᵃ  | 0.893  | ᵃ  | 1.115  | ᵃ  | 0.353  | ᵃ  |
| Residual  |  | Greenhouse-Geisser  |  | 130.159  |  | 162.361  |  | 0.802  |  |  |  |    |  |
|  |
| *Note.*  Type III Sum of Squares  |
| ᵃ Mauchly's test of sphericity indicates that the assumption of sphericity is violated (p < .05).  |

| **Between Subjects Effects**  |
| --- |
|  | **Sum of Squares**  | **df**  | **Mean Square**  | **F**  | **p**  |
| Grupo  |  | 10.464  |  | 1  |  | 10.464  |  | 3.792  |  | 0.059  |  |
| Residual  |  | 104.845  |  | 38  |  | 2.759  |  |  |  |    |  |
|  |
| *Note.*  Type III Sum of Squares  |

**Descriptives**

**Descriptives Plot (95% CI)**



**SKIN CONDUCTANCE LEVEL (SCL)**

| **Within Subjects Effects**  |
| --- |
|  | **Sphericity Correction**  | **Sum of Squares**  | **df**  | **Mean Square**  | **F**  | **p**  |
| Time  |  | Greenhouse-Geisser  |  | 1.582  | ᵃ  | 1.727  | ᵃ  | 0.916  | ᵃ  | 32.094  | ᵃ  | < .001  | ᵃ  |
| Time ✻ Grupo  |  | Greenhouse-Geisser  |  | 0.094  | ᵃ  | 1.727  | ᵃ  | 0.054  | ᵃ  | 1.907  | ᵃ  | 0.162  | ᵃ  |
| Residual  |  | Greenhouse-Geisser  |  | 1.873  |  | 65.612  |  | 0.029  |  |  |  |    |  |
|  |
| *Note.*  Type III Sum of Squares  |
| ᵃ Mauchly's test of sphericity indicates that the assumption of sphericity is violated (p < .05).  |

| **Between Subjects Effects**  |
| --- |
|  | **Sum of Squares**  | **df**  | **Mean Square**  | **F**  | **p**  |
| Grupo  |  | 0.293  |  | 1  |  | 0.293  |  | 2.365  |  | 0.132  |  |
| Residual  |  | 4.700  |  | 38  |  | 0.124  |  |  |  |    |  |
|  |
| *Note.*  Type III Sum of Squares  |

**Assumption Checks**

| **Test of Sphericity**  |
| --- |
|  | **Mauchly's W**  | **p**  | **Greenhouse-Geisser ε**  | **Huynh-Feldt ε**  |
| Time  |  | 1.491e -12  |  | < .001  |  | 0.157  |  | 0.164  |  |
|  |

**Descriptives**

**Descriptives Plot (95% CI)**

