**Report on Physical Activity using body fixed inertial sensors**

**Patient ID:** ID\_1

**Patient Name:** Matteo Ciprian

**Analysis ID:** Patient\_ID\_1\_PA\_Analysis\_ID\_3

**Evaluation date:** 12-Dec-2017

1. **Patient details**
2. **Physical activity metrics:**
3. *Global assessment*
4. *Duration of episodes*
5. *Temporal pattern*
6. **Summary of performance measures**
7. **Patient details:**

**Date of birth:** 30/09/1994

**Gender:** M

**CP Subtype:** 2

**GMFCS level:** 3

**Height (cm):** 182

**Weight (kg):** 78

**Evaluation**

**Type:**  Follow-up2

**Monitoring day:**

**Configuration:** Trunk Left-Thigh Right-Thigh Left-Shank Right-Shank

**Duration (min):**

**Start & end time:**

**Weather:**

**Remarks:**

1. **Physical activity metrics**
2. ***Global assessment***

|  |  |
| --- | --- |
|  |  |

***Table of metrics:***

|  |  |  |  |
| --- | --- | --- | --- |
| Metrics | TD group(mean) | TD group(SD) | CP(This Analysis) |
| Time spent Walking (%) | 16 | 5 | 11 |
| Time spent Standing (%) | 23 | 4 | 19 |
| Time spent Sedentary (%) | 61 | 6 | 69 |
| Statistics Walking Periods: |  |  |  |
| 10th Percentile(sec) | 2.8333 | 0.40825 | 3 |
| 20th Percentile(sec) | 3.5167 | 0.53072 | 3 |
| 30th Percentile(sec) | 4.3333 | 0.8165 | 4 |
| 40th Percentile(sec) | 5.1667 | 0.98319 | 4 |
| 50th Percentile(sec) | 6.5 | 1.0488 | 5 |
| 60th Percentile(sec) | 8 | 1.6733 | 7 |
| 70th Percentile(sec) | 10.8333 | 3.0605 | 8 |
| 80th Percentile(sec) | 16.1667 | 4.7081 | 10 |
| 90th Percentile(sec) | 30.9 | 16.5464 | 20 |
| Maximal Walking period (sec) | 462.5 | 255.4852 | 589 |
| Statistics Standing Periods: |  |  |  |
| 10th Percentile(sec) | 1 | 0 | 1 |
| 20th Percentile(sec) | 1.8333 | 0.40825 | 2 |
| 30th Percentile(sec) | 2.5 | 0.54772 | 4 |
| 40th Percentile(sec) | 4.3333 | 1.0328 | 5 |
| 50th Percentile(sec) | 6.6667 | 2.2509 | 9 |
| 60th Percentile(sec) | 10.1667 | 4.3775 | 14 |
| 70th Percentile(sec) | 16.6667 | 8.4351 | 20 |
| 80th Percentile(sec) | 31.85 | 13.8447 | 31.9 |
| 90th Percentile(sec) | 56.5 | 33.7598 | 58.4 |
| Maximal Standing period (sec) | 494.1667 | 230.6065 | 284 |
| Statistics Sedentary Periods: |  |  |  |
| 10th Percentile(sec) | 5.35 | 1.8674 | 12 |
| 20th Percentile(sec) | 9.6167 | 5.496 | 33 |
| 30th Percentile(sec) | 21.3833 | 17.3655 | 48 |
| 40th Percentile(sec) | 42.0167 | 40.4907 | 74.5 |
| 50th Percentile(sec) | 80.9167 | 64.4379 | 116 |
| 60th Percentile(sec) | 166.5167 | 127.0745 | 142 |
| 70th Percentile(sec) | 418.5667 | 320.056 | 255 |
| 80th Percentile(sec) | 832.3667 | 520.0245 | 458.5 |
| 90th Percentile(sec) | 1535.4667 | 1024.338 | 878 |
| Maximal Sedentary period (sec) | 3304 | 1490.7581 | 2633 |
| Kolmogorov\_Smirnov stat Dist: |  |  |  |
| Stat Dist Walking periods |  | 0.10254 |  |
| Stat Dist Standing periods |  | 0.12275 |  |
| Stat Dist Sedentary periods |  | 0.22756 |  |

1. ***Duration of episodes***

|  |  |
| --- | --- |
|  |  |

|  |  |
| --- | --- |
|  |  |

1. ***Temporal pattern***

***Table of Barcodes:***

|  |  |  |  |
| --- | --- | --- | --- |
| Barcode states | TD group (%,mean) | TD group (%,SD) | CP (%,This Analysis) |
| 1 | 60.6668 | 6.4137 | 69.3083 |
| 2 | 0.077372 | 0.037942 | 0.11981 |
| 3 | 22.6955 | 3.489 | 18.6318 |
| 4 | 0.25312 | 0.26163 | 0.33021 |
| 5 | 0.15974 | 0.21357 | 0.1578 |
| 6 | 0.16405 | 0.28032 | 0.087665 |
| 7 | 0.74142 | 0.80769 | 0.32144 |
| 8 | 3.5078 | 2.4513 | 2.4225 |
| 9 | 3.8631 | 2.7315 | 2.3611 |
| 10 | 2.7155 | 5.0248 | 0.046755 |
| 11 | 0.078952 | 0.18465 | 0.0029222 |
| 12 | 0.14762 | 0.22729 | 0.488 |
| 13 | 1.0881 | 1.0874 | 0.66918 |
| 14 | 0.14957 | 0.35763 | 0.0029222 |
| 15 | 0.0034626 | 0.0013238 | 0.0029222 |
| 16 | 0.068725 | 0.1596 | 0.0029222 |
| 17 | 1.6306 | 1.4551 | 0.51138 |
| 18 | 0.32085 | 0.4926 | 0.0029222 |
| 19 | 0.0034626 | 0.0013238 | 0.0029222 |
| 20 | 0.0034626 | 0.0013238 | 0.0029222 |

1. **Summary of performance measures**

