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

**Patient ID:** ID\_21

**Analysis ID:** Patient\_ID\_21\_PA\_Analysis\_ID\_2

**Evaluation date:** 04-Dec-2017

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

**Patient characteristics**

**Date of birth:** 12/12/1978

**Gender:** M

**CP Subtype:** 3

**GMFCS level:** 3

**Height (cm):** 182

**Weight (kg):** 192

**Evaluation**

**Monitoring day:**

**Configuration:**

**Duration (min):**

**Start & end time:**

**Weather:**

**Remarks:**

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

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| --- | --- | --- | --- | --- | --- | --- |
| Metrics | TD  group(mean) | TD  group(SD) | CP  (baseline) | CP  (Followup1) | CP  (Followup2) | CP  (Followup3) |
| Time spent Walking (%) | 16 | 5 | 2 |  |  |  |
| Time spent Standing (%) | 23 | 4 | 9 |  |  |  |
| Time spent Sedentary (%) | 61 | 6 | 89 |  |  |  |
| Statistics Walking Periods: |  |  |  |  |  |  |
| 10th Percentile(sec) | 2.8 | 0.4 | 3 |  |  |  |
| 20th Percentile(sec) | 3.5 | 0.5 | 4 |  |  |  |
| 30th Percentile(sec) | 4.3 | 0.8 | 4.9 |  |  |  |
| 40th Percentile(sec) | 5.2 | 1.0 | 5 |  |  |  |
| 50th Percentile(sec) | 6.5 | 1.0 | 6.5 |  |  |  |
| 60th Percentile(sec) | 8.0 | 1.7 | 7.3 |  |  |  |
| 70th Percentile(sec) | 10.8 | 3.1 | 9 |  |  |  |
| 80th Percentile(sec) | 16.2 | 4.7 | 11 |  |  |  |
| 90th Percentile(sec) | 30.9 | 16.5 | 14 |  |  |  |
| Maximal Walking period (sec) | 462.5 | 255.5 | 26 |  |  |  |
| Statistics Standing Periods: |  |  |  |  |  |  |
| 10th Percentile(sec) | 1.0 | 0.0 | 2 |  |  |  |
| 20th Percentile(sec) | 1.8 | 0.4 | 4 |  |  |  |
| 30th Percentile(sec) | 2.5 | 0.5 | 5.2 |  |  |  |
| 40th Percentile(sec) | 4.3 | 1.0 | 11 |  |  |  |
| 50th Percentile(sec) | 6.7 | 2.3 | 13 |  |  |  |
| 60th Percentile(sec) | 10.2 | 4.4 | 15.9 |  |  |  |
| 70th Percentile(sec) | 16.7 | 8.4 | 21.8 |  |  |  |
| 80th Percentile(sec) | 31.9 | 13.8 | 32 |  |  |  |
| 90th Percentile(sec) | 56.5 | 33.8 | 48.2 |  |  |  |
| Maximal Standing period (sec) | 494.2 | 230.6 | 438 |  |  |  |
| Statistics Sedentary Periods: |  |  |  |  |  |  |
| 10th Percentile(sec) | 5.4 | 1.9 | 14.5 |  |  |  |
| 20th Percentile(sec) | 9.6 | 5.5 | 36 |  |  |  |
| 30th Percentile(sec) | 21.4 | 17.4 | 95.5 |  |  |  |
| 40th Percentile(sec) | 42.0 | 40.5 | 186.5 |  |  |  |
| 50th Percentile(sec) | 80.9 | 64.4 | 311 |  |  |  |
| 60th Percentile(sec) | 166.5 | 127.1 | 459 |  |  |  |
| 70th Percentile(sec) | 418.6 | 320.1 | 744 |  |  |  |
| 80th Percentile(sec) | 832.4 | 520.0 | 972 |  |  |  |
| 90th Percentile(sec) | 1535.5 | 1024.3 | 1705.5 |  |  |  |
| Maximal Sedentary period (sec) | 3304.0 | 1490.8 | 3464 |  |  |  |
| Kolmogorov\_Smirnov stat Dist: |  |  |  |  |  |  |
| Stat Dist Walking periods |  | 0.150 |  |  |  |  |
| Stat Dist Standing periods |  | 0.251 |  |  |  |  |
| Stat Dist Sedentary periods |  | 0.296 |  |  |  |  |

1. ***Duration of episodes***

|  |  |
| --- | --- |
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1. ***Temporal pattern***

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|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Barcode states | TD group (%,mean) | TD group (%,SD) | CP  (%,baseline) | CP  (%,Followup1) | CP  (%,Followup2) | CP  (%,Followup3) |
| 1 | 60.7 | 6.4 | 88.8 |  |  |  |
| 2 | 0.1 | 0.0 | 0.1 |  |  |  |
| 3 | 22.7 | 3.5 | 8.6 |  |  |  |
| 4 | 0.3 | 0.3 | 0.1 |  |  |  |
| 5 | 0.2 | 0.2 | 0.0 |  |  |  |
| 6 | 0.2 | 0.3 | 0.0 |  |  |  |
| 7 | 0.7 | 0.8 | 1.3 |  |  |  |
| 8 | 3.5 | 2.5 | 0.8 |  |  |  |
| 9 | 3.9 | 2.7 | 0.1 |  |  |  |
| 10 | 2.7 | 5.0 | 0.0 |  |  |  |
| 11 | 0.1 | 0.2 | 0.0 |  |  |  |
| 12 | 0.1 | 0.2 | 0.0 |  |  |  |
| 13 | 1.1 | 1.1 | 0.0 |  |  |  |
| 14 | 0.1 | 0.4 | 0.0 |  |  |  |
| 15 | 0.0 | 0.0 | 0.0 |  |  |  |
| 16 | 0.1 | 0.2 | 0.0 |  |  |  |
| 17 | 1.6 | 1.5 | 0.0 |  |  |  |
| 18 | 0.3 | 0.5 | 0.0 |  |  |  |
| 19 | 0.0 | 0.0 | 0.0 |  |  |  |
| 20 | 0.0 | 0.0 | 0.0 |  |  |  |
| 21 | 1.7 | 1.1 | 0.0 |  |  |  |
| 22 | 0.0 | 0.0 | 0.0 |  |  |  |

1. **Summary of performance measures**