|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|   | **Cut-point** | **Se %** | **95% CI** | **Sp %** | **95% CI** | **ROC-AUC** | **95% CI** |
| **ActiGraph wrist(vertical axis)** | CrouterVA/ROC |  |  |  |  |  |  |
| 5-8y | 83.0 | 82.5 - 83.5 | 72.5 | 72 0 - 73 1 | 0.78 | 0.77 - 0.78 |
| 9-12y | 79.4 | 78.9 - 79.8 | 75.9 | 75.3 - 76.4 | 0.78 | 0.77 - 0.78 |
| CrouterVA/REG |  |  |  |  |  |  |
| 5-8y | 82.0 | 81.5 - 82.4 | 77.0 | 76.5 - 77.5 | 0.79 | 0.79 - 0.80 |
| 9-12y | 83.5 | 83.0 - 84.0 | 73.3 | 72.8 - 73.8 | 0.78 | 0.78 - 0.79 |
| ChandlerVA/2015 |  |  |  |  |  |  |
| 5-8y | 86.1 | 85.7 - 86.6 | 72.8 | 72.3 - 73.4 | 0.79 | 0.79 - 0.80 |
| 9-12y | 87.6 | 87.2 - 88.0 | 68.6 | 68.1 - 69.1 | 0.78 | 0.78 - 0.78 |
| ChandlerVA/2016 |  |  |  |  |  |  |
| 5-8y | 88.7 | 88.3 - 89.1 | 68.9 | 68.3 - 69.4 | 0.79 | 0.78 - 0.79 |
| 9-12y | 90.1 | 89.7 - 90.5 | 63.9 | 63.4 - 64.5 | 0.77 | 0.77 - 0.77 |
| KimVA |  |  |  |  |  |  |
| 5-8y | 88.0 | 86.3 - 89.5 | 84.2 | 82 4 - 85.9 | 0.86 | 0.85 - 0.87 |
| 9-12y | 90.7 | 89.3 - 92.0 | 85.0 | 83.4 - 86.4 | 0.88 | 0.87 - 0.89 |
| **ActiGraph wrist (vector magnitude)** | CrouterVM/ROC |  |  |  |  |  |  |
| 5-8y | 84.5 | 84.1 - 84.9 | 68.4 | 67.8 - 69.0 | 0.76 | 0.76 - 0.77 |
| 9-12y | 80.2 | 79.8 - 80.6 | 71.9 | 71.3 - 72.4 | 0.76 | 0.76 - 0.76 |
| CrouterVM/REG |  |  |  |  |  |  |
| 5-8y | 82.7 | 82.2 - 83.2 | 74.4 | 73.9 - 75.0 | 0.78 | 0.78 - 0.79 |
| 9-12y | 83.7 | 83.3 - 84.2 | 68.5 | 68.0 - 69.0 | 0.76 | 0.76 - 0.76 |
| ChandlerVM |  |  |  |  |  |  |
| 5-8y | 84.3 | 83.8 - 84.8 | 72.3 | 71.8 - 72.9 | 0.78 | 0.78 - 0.79 |
| 9-12y | 85.3 | 84.8 - 85.7 | 66.1 | 65.6 - 66.6 | 0.76 | 0.75 - 0.76 |
| KimVM |  |  |  |  |  |  |
| 5-8y | 92.4 | 91.1 - 93.6 | 77.1 | 75.0 - 79.0 | 0.85 | 0.84 - 0.86 |
| 9-12y | 94.1 | 93.0 - 95.2 | 74.2 | 72.3 - 76.1 | 0.84 | 0.83 - 0.85 |
| **GENEActiv wrist(signal vector magnitude)** | PhillipsSVM |  |  |  |  |  |  |
| 5-8y | 81.4 | 81.3 - 81.6 | 75.6 | 75.4 - 75.8 | 0.79 | 0.78 - 0.79 |
| 9-12y | 81.0 | 80.9 - 81.2 | 77.0 | 76.8 - 77.1 | 0.79 | 0.79 - 0.79 |
| SchaeferSVM |  |  |  |  |  |  |
| 5-8y | 80.8 | 80.6 - 80.9 | 76.9 | 76.7 - 77.1 | 0.79 | 0.79 - 0.79 |
| 9-12y | 83.2 | 83.1 - 83.4 | 76.9 | 76.8 - 77.1 | 0.80 | 0.80 - 0.80 |
| **activPAL3TM** | 5-8y | 97.9 | 97.8 - 98.0 | 87.0 | 86.9 - 87.2 | 0.92 | 0.92 - 0.93 |
|   | 9-12y | 97.7 | 97.6 - 97.8 | 95.9 | 95.8 - 96.0 | 0.97 | 0.97 - 0.97 |
| **ActiGraph hip (vertical axis)** |  |  |  |  |  |  |  |
| 5-8y | 92.7 | 92.1 - 93.3 | 76.3 | 75.4 - 77.2 | 0.85 | 0.84 - 0.85 |
|   | 9-12y | 93.6 | 93.0 - 94.1 | 75.9 | 75.0 - 76.7 | 0.85 | 0.84 - 0.85 |

Supplemental Digital Content 3 Classification accuracy of accelerometry-based estimations of sedentary behavior for the dominant wrist.

Notes Supplemental Digital Content 3: Se: sensitivity; Sp: specificity; CI: confidence intervals; ROC-AUC: area under the receiver operating curve; VA: vertical axis; VM: vector magnitude; SVM: gravity-subtracted signal vector magnitude.