**Supplementary Table 1. Comparison of ECG intervals between devices and 12-lead ECG**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| A. Percentage assessed ECG intervals on devices | | | | | | |
|  | **Withings** | | **Eko DUO** | | **Kardia 6L** | |
| PR-duration  QRS-duration  QTc-duration | 70%  98%  84% | | 68%  95%  82% | | 89%1  99%2  97%1 | |
| **B. Mean difference of ECG intervals compared to 12-lead ECG** | | | | |  | |
|  | **Withings** | | **Eko DUO** | | **Kardia 6L** | |
| PR-duration  QRS-duration  QTc-duration | 2.1 ± 18  -14 ± 19\*  -32 ± 39\* | | 0.1 ± 18  -8.6 ± 20\*  -17 ± 41\* | | 1.7 ± 21  -8.2 ± 19\*  -13 ± 37\* | |
| **C. Correlation compared to 12-lead ECG** | | | | | | |
|  | **Withings** | | **Eko DUO** | | **Kardia 6L** | |
|  | All ECG quality | ECG quality 1/2 | All ECG  quality | ECG quality 1/2 | All ECG  quality | ECG quality 1/2 |
| PR-duration  QRS-duration  QTc-duration | .78  .80  .53 | .84  .83  .54 | .78  .79  .53 | .75  .82  .64 | .75  .83  .61 | .73  .87  .64 |

1p-value < 0.05 compared to both Eko DUO and Withings.

2p-value < 0.05 compared to Eko DUO.

\*p-value < 0.05 for value <0.

**Supplementary Table 1.** Summary of different analyses used to compare ECG intervals between the devices and the 12-lead ECG. (A) Frequency of assessment for ECG intervals. (B) Mean difference and standard deviation of ECG intervals compared to 12-lead ECG. Negative value indicate an underestimation of interval on device. (C) Pearson correlation analysis for device ECG intervals with 12-lead ECG. Abbreviations: ECG: electrocardiogram

**Supplementary Table 2. Device ECG quality classification**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Score | Description | Withings | Eko DUO | Kardia 6L |
| 5 | Good quality, minimal noise | 3 (1.7%) | 31 (18%) | 20 (11%) |
| 4 | Artifacts < 33% but QRS identifiable  and/or minor continuous noise | 87 (49%) | 92 (52%) | 110 (63%) |
| 3 | Artifacts < 33% which influence QRS detection  And/or noise which may influence QT/PR detection | 70 (40%) | 36 (21%) | 42 (24%) |
| 2 | Artifacts and/or major noise, but > 4 sec QRS interpretable | 11 (6.3%) | 8 (4.5%) | 3 (1.7%) |
| 1 | Artifacts throughout and < 4 sec QRS interpretable | 5 (2.8%) | 9 (5.1%) | None |

**Supplementary Table 2.** Classification of five ECG quality levels rated by independent observer for different devices. Data are described as number with frequency. Abbreviations: none