**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-durationQRS-durationQTc-duration | 70%98%84% | 68%95%82% | 89%199%297%1 |
| **B. Mean difference of ECG intervals compared to 12-lead ECG** |  |
|  | **Withings** | **Eko DUO** | **Kardia 6L** |
| PR-durationQRS-durationQTc-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 ECGquality | ECG quality 1/2 | All ECGquality | ECG quality 1/2 |
| PR-durationQRS-durationQTc-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 detectionAnd/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