Table 3: Reliability of the SphygmoCor XCEL in each sample group

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|   |   | Supine-F |   | Supine-NF |   | Seated-F |   | Seated-NF |
|   |   | ICC | SEM | SDC |   | ICC | SEM | SDC |   | ICC | SEM | SDC |   | ICC | SEM | SDC |
| **Whole Population** |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| MAP (mmHg) |   | 0.90 | 4.0 | 11.0 |   | 0.93 | 3.4 | 9.3 |   | 0.91 | 4.1 | 11.2 |   | 0.94 | 3.3 | 9.1 |
| SBP (mm Hg) |   | 0.90 | 5.8 | 16.1 |   | 0.90 | 5.7 | 15.8 |   | 0.92 | 5.0 | 13.9 |   | 0.91 | 5.4 | 15.1 |
| DBP (mm Hg |   | 0.90 | 3.4 | 9.4 |   | 0.92 | 3.0 | 8.4 |   | 0.90 | 3.6 | 10.0 |   | 0.94 | 3.1 | 8.6 |
| cSBP (mmHg) |   | 0.89 | 5.4 | 15.0 |   | 0.92 | 4.5 | 12.5 |   | 0.90 | 5.2 | 14.3 |   | 0.92 | 4.7 | 13.1 |
| cDBP (mmHg) |   | 0.89 | 3.5 | 9.6 |   | 0.89 | 3.7 | 10.3 |   | 0.90 | 3.6 | 10.1 |   | 0.94 | 3.1 | 8.7 |
| cPP (mmHg) |   | 0.83 | 3.7 | 10.3 |   | 0.86 | 3.6 | 10.1 |   | 0.84 | 3.7 | 10.2 |   | 0.85 | 3.7 | 10.2 |
| AP (mmHg) |   | 0.75 | 3.0 | 8.3 |   | 0.84 | 1.9 | 5.3 |   | 0.82 | 2.6 | 7.3 |   | 0.86 | 2.2 | 6.0 |
| AIx (%) |   | 0.77 | 4.9 | 13.4 |   | 0.85 | 3.5 | 9.8 |   | 0.83 | 4.7 | 13.1 |   | 0.80 | 4.5 | 12.5 |
| AIx75 (%) |   | 0.75 | 5.3 | 14.6 |   | 0.87 | 3.7 | 10.3 |   | 0.82 | 4.7 | 13.0 |   | 0.84 | 4.6 | 12.8 |
| HR (bpm) |  | 0.86 | 3.1 | 8.6 |  | 0.84 | 3.3 | 9.2 |  | 0.86 | 3.0 | 8.4 |  | 0.80 | 4.0 | 11.0 |
| **Normotensive Population** |   |   |   |   |   |   |   |   |   |   |   |   |   |
| MAP (mmHg) |   | 0.71 | 3.5 | 9.8 |   | 0.85 | 2.9 | 8.1 |   | 0.68 | 4.0 | 11.0 |   | 0.86 | 2.9 | 8.0 |
| SBP (mm Hg) |   | 0.59 | 4.7 | 13.0 |   | 0.76 | 3.9 | 10.7 |   | 0.51 | 4.4 | 12.3 |   | 0.74 | 3.8 | 10.5 |
| DBP (mm Hg |   | 0.75 | 2.9 | 8.0 |   | 0.83 | 2.8 | 7.8 |   | 0.73 | 3.7 | 10.3 |   | 0.88 | 2.8 | 7.8 |
| cSBP (mmHg) |   | 0.68 | 4.7 | 13.1 |   | 0.77 | 3.7 | 10.2 |   | 0.58 | 4.4 | 12.1 |   | 0.75 | 3.4 | 9.5 |
| cDBP (mmHg) |   | 0.74 | 3.0 | 8.4 |   | 0.87 | 2.6 | 7.2 |   | 0.73 | 3.8 | 10.4 |   | 0.87 | 2.9 | 8.1 |
| cPP (mmHg) |   | 0.78 | 4.3 | 12.0 |   | 0.79 | 2.6 | 7.3 |   | 0.76 | 3.5 | 9.7 |   | 0.77 | 3.2 | 8.9 |
| AP (mmHg) |   | 0.80 | 2.9 | 8.1 |   | 0.81 | 1.9 | 5.3 |   | 0.84 | 2.8 | 7.7 |   | 0.86 | 2.0 | 5.5 |
| AIx (%) |   | 0.80 | 5.2 | 14.5 |   | 0.84 | 4.0 | 11.0 |   | 0.86 | 5.2 | 14.4 |   | 0.77 | 5.1 | 14.1 |
| AIx75 (%) |   | 0.76 | 5.9 | 16.3 |   | 0.86 | 4.1 | 11.5 |   | 0.83 | 5.1 | 14.0 |   | 0.83 | 5.0 | 13.9 |
| HR (bpm) |  | 0.88 | 3.3 | 9.3 |  | 0.80 | 3.8 | 10.6 |  | 0.85 | 3.1 | 8.7 |  | 0.84 | 3.9 | 10.7 |
| **Hypertensive Population** |   |   |   |   |   |   |   |   |   |   |   |   |
| MAP (mmHg) |   | 0.88 | 3.9 | 10.9 |   | 0.89 | 3.6 | 10.0 |   | 0.91 | 3.6 | 9.9 |   | 0.92 | 3.4 | 9.5 |
| SBP (mm Hg) |   | 0.87 | 5.7 | 15.8 |   | 0.86 | 5.6 | 15.4 |   | 0.87 | 5.4 | 14.9 |   | 0.82 | 6.3 | 17.4 |
| DBP (mm Hg |   | 0.88 | 3.6 | 9.9 |   | 0.91 | 3.1 | 8.6 |   | 0.92 | 3.2 | 8.8 |   | 0.93 | 3.3 | 9.1 |
| cSBP (mmHg) |   | 0.86 | 5.3 | 14.8 |   | 0.88 | 4.9 | 13.5 |   | 0.88 | 4.8 | 13.4 |   | 0.85 | 5.4 | 14.9 |
| cDBP (mmHg) |   | 0.87 | 3.6 | 9.9 |   | 0.84 | 4.6 | 12.9 |   | 0.92 | 3.1 | 8.7 |   | 0.93 | 3.2 | 8.8 |
| cPP (mmHg) |   | 0.79 | 3.7 | 10.2 |   | 0.79 | 4.5 | 12.4 |   | 0.80 | 3.8 | 10.7 |   | 0.84 | 3.8 | 10.4 |
| AP (mmHg) |   | 0.67 | 3.0 | 8.2 |   | 0.85 | 1.9 | 5.2 |   | 0.78 | 2.5 | 6.9 |   | 0.84 | 2.3 | 6.4 |
| AIx (%) |   | 0.73 | 4.5 | 12.4 |   | 0.87 | 3.1 | 8.6 |   | 0.79 | 4.3 | 11.8 |   | 0.83 | 4.0 | 11.0 |
| AIx75 (%) |   | 0.74 | 4.7 | 12.9 |   | 0.88 | 3.3 | 9.1 |   | 0.79 | 4.3 | 12.0 |   | 0.85 | 4.2 | 11.7 |
| HR (bpm) |  | 0.85 | 2.9 | 7.9 |  | 0.89 | 2.8 | 7.8 |  | 0.87 | 2.9 | 8.1 |  | 0.75 | 4.1 | 11.3 |

1. Abbreviations: Aix - Augmentation Index, AIx75 - Augmentation Index @ 75bpm, AP = Augmented Pressure, cDBP - Central Diastolic Blood Pressure, cPP - Central Pulse Pressure, cSBP - Central Systolic Blood Pressure, DBP - Diastolic Blood Pressure, ICC - Intra-Class Correlation, F - Fasted, HR – Heart Rate, MAP - Mean Arterial Pressure, , NF - Non-Fasted, SBP - Systolic Blood Pressure, SDC - Smallest Detectable Change, SEM - Standard Error of Measurement