Supplemental Table 1. Bland Altman Analysis from Eight Wearable Devices for Heart Rate During Graded Exercise Cycling

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| **Workload** | **Statistic** | **Apple Watch Series 2** | **Bose Sound SportPulse** | **Fitbit**  **Blaze** | **Fitbit**  **Charge 2** | **Garmin Vivosmart HR** | **Polar**  **A360** | **Polar H7** | **TomTom Touch** |
| **Rest** | Mean diff (SD) 95% CI | 0.04 (1.71)  -3.31-3.39 | 0.38 (4.36)  -8.16-8.92 | -1.04 (6.74)  -14.26-12.18 | -1.42 (6.92)  -14.98-12.14 | 1.76 (11.09)  -19.98-23.50 | 1.54 (9.32)  -16.73-19.81 | 3.12 (6.83)  -10.26-16.50 | -0.58 (4.26)  -8.93-7.77 |
| **0W** | Mean diff (SD)  95% CI | -0.88 (8.43)  -17.41-15.65 | 1.84 (6.83)  -11.55-15.23 | -4.12 (13.35)  -30.29-22.05 | -4.52 (13.67)  -31.32-22.28 | -9.64 (17.20)  -43.36-24.08 | -3.46 (15.41)  -33.65-26.73 | 1.96 (10.30)  -18.22-22.14 | -5.32 (16.21)  -37.10-26.46 |
| **50W** | Mean diff (SD)  95% CI | 1.28 (8.55)  -15.47-18.03 | 3.34 (14.76)  -25.58-32.26 | -10.16 (22.05)  -53.38-33.06 | -11.40 (21.59)  -53.71-30.91 | -16.80 (25.91)  -67.58-33.98 | -1.60 (22.54)  -45.78-42.58 | 6.62 (10.63)  -14.21-27.45 | -3.04 (13.38)  -29.26-23.18 |
| **100W** | Mean diff (SD)  95% CI | -1.86 (12.16)  -25.69-21.97 | -1.86 (16.61)  -34.42-30.70 | -18.34 (27.58)  -72.39-25.71 | -20.04 (27.25)  -73.44-33.36 | -27.68 (29.44)  -85.39-30.03 | -8.68 (24.64)  -56.97-39.61 | 0.24 (16.08)  -31.29-31.77 | -11.70 (20.55)  -51.98-28.58 |
| **150W** | Mean diff (SD)  95% CI | -3.38 (13.03)  -28.92-22.16 | -3.10 (15.46)  -33.41-27.21 | -28.14 (34.14)  -95.05-38.77 | -27.80 (34.52)  -95.45-29.85 | -43.44 (41.01)  -123.83-36.95 | -15.28 (30.17)  -74.41-43.85 | -1.96 (17.74)  -36.74-32.82 | -19.00 (30.88)  -79.53-41.53 |
| **200W** | Mean diff (SD)  95% CI | 1.84 (3.46)  -8.62-4.94 | -6.36 (21.26)  -48.02-35.30 | -30.32 (40.51)  -109.72-49.08 | -30.60 (40.92)  -110.80-49.60 | -51.00 (38.08)  -125.64-23.64 | -30.12 (40.23)  -108.97-48.73 | -1.92 (8.87)  -19.30-15.46 | -13.04 (20.26)  -52.75-26.67 |
| **Average** | Mean diff (SD)  95% CI | -1.11 (7.89)  -16.57-14.36 | -0.96 (13.21)  -26.86-24.94 | -15.35 (24.06)  -62.51-31.81 | -15.96 (24.14)  -63.28-31.36 | -24.47 (27.12)  -77.63-28.69 | -9.60 (23.72)  -56.09-36.89 | 1.34 (11.74)  -21.67-24.36 | -8.78 (17.59)  -43.26-25.70 |

NOTE: Sample size contained 25 participants for the 200W stage.