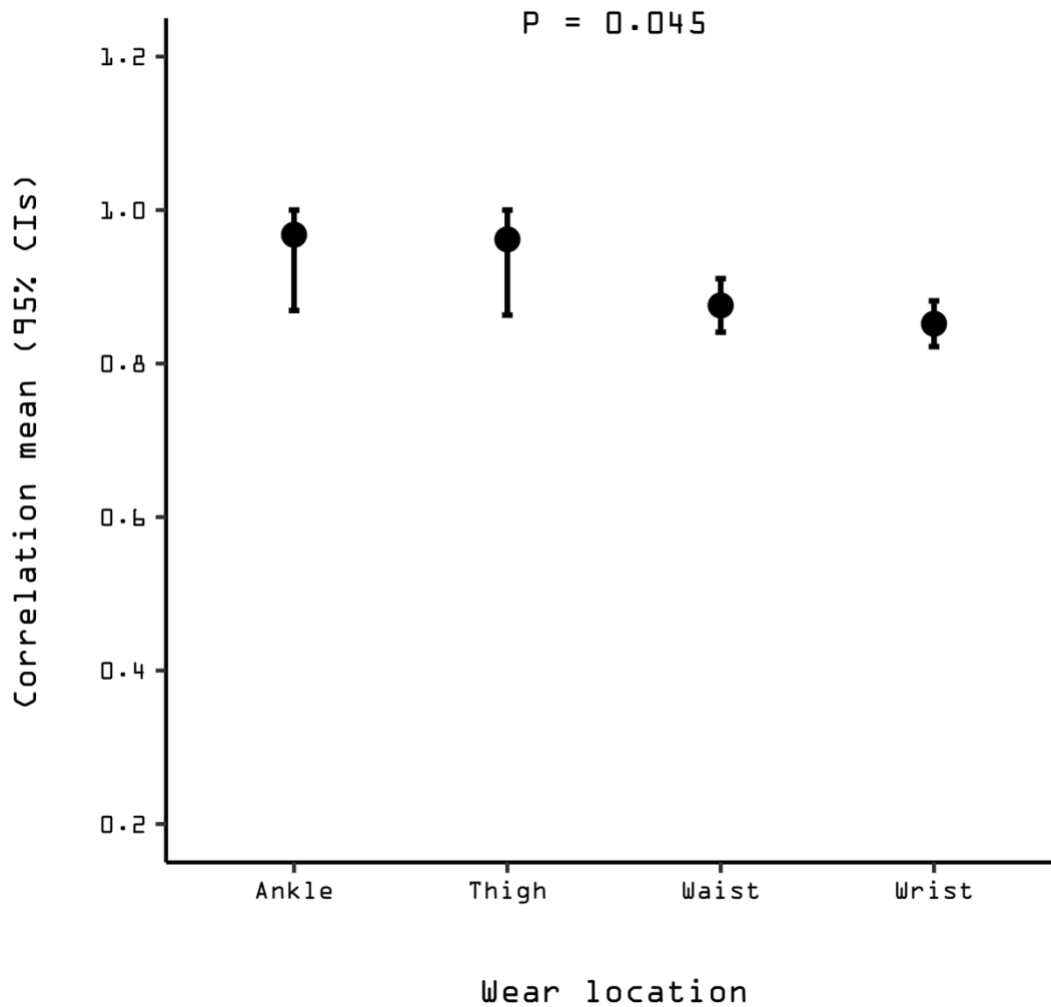


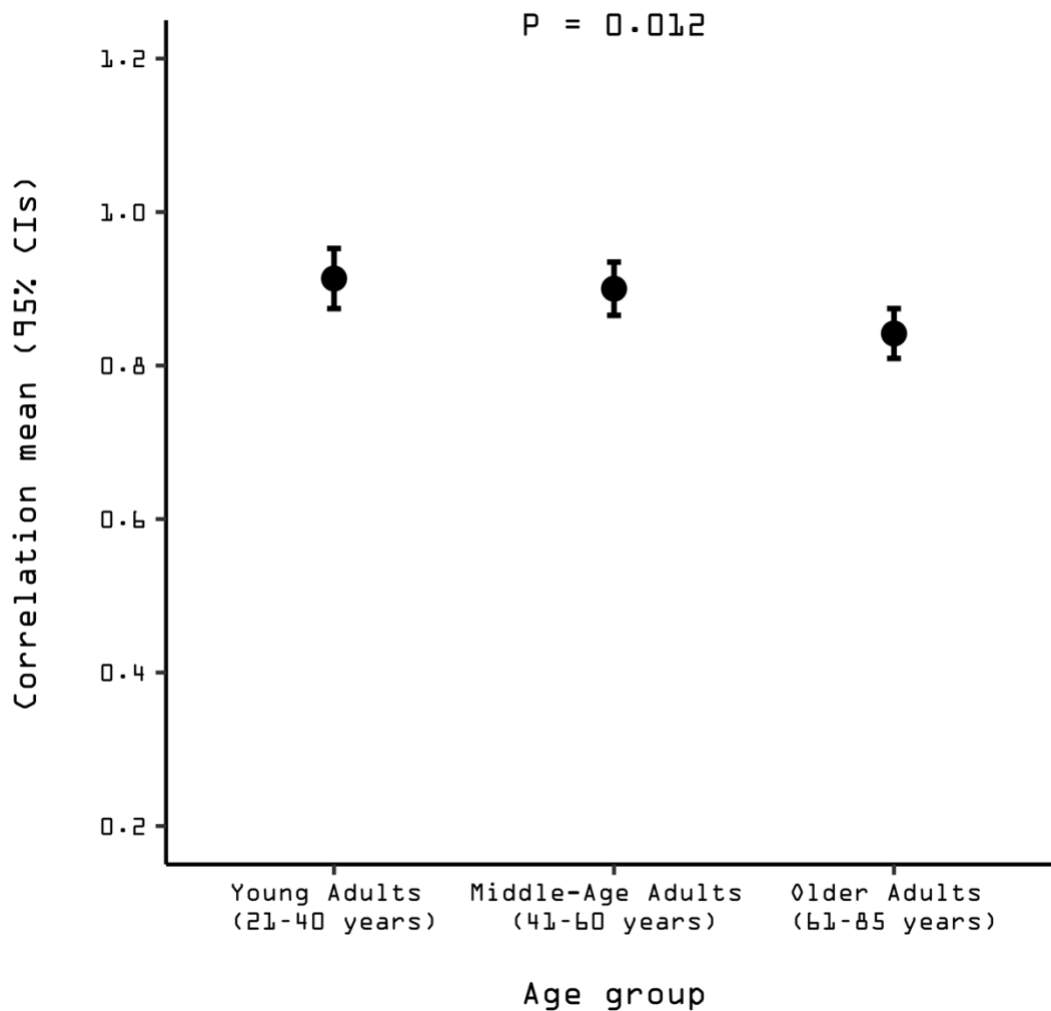
1

2 **Additional file 9: Suppl Fig 1** Effect of speed on overall precision of wearable technologies' step
 3 counting ability. Each dot represents correlation coefficients averaged across wearable
 4 technologies and each specific speed level (i.e., slow, normal or fast), with corresponding 95%
 5 confidence intervals (CIs) extending above and below that point estimate. Correlation coefficients
 6 closer to 1.0 indicate tighter relationship (more precise) to directly-observed steps, i.e., increased
 7 precision. 95% CIs that do not overlap indicate significant differences.



8

9 **Additional file 9: Suppl Fig 2** Effect of wear location on overall precision of wearable
 10 technologies' step counting ability. Each dot represents correlation coefficients averaged across
 11 wearable technologies and each specific wear location for all walking bouts, with corresponding
 12 95% confidence intervals (CIs) extending above and below that point estimate. Correlation
 13 coefficients closer to 1.0 indicate tighter relationship (more precise) to directly-observed steps,
 14 i.e., increased precision. 95% CIs that do not overlap indicate significant differences.



15

16 **Additional file 9: Suppl Fig 3** Effect of age on overall precision of wearable technologies' step
 17 counting ability. Each dot represents correlation coefficients averaged across wearable
 18 technologies and each specific age group for all walking bouts, with corresponding 95%
 19 confidence intervals (CIs) extending above and below that point estimate. Correlation coefficients
 20 closer to 1.0 indicate tighter relationship (more precise) to directly-observed steps, i.e., increased
 21 precision. 95% CIs that do not overlap indicate significant differences.