Resource Summary Report

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Effect of ActiGraph's LFE for estimating steps and physical activity intensity

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Protocol Information

URL: https://dx.doi.org/10.17504/protocols.io.jfacjie

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Summary: This study examined the effects of the ActiGraph's (AG) low-frequency extension (LFE) filter on steps and physical activity classification in the free-living environment. Thirty-four African-American women (age, 24.5±5.2 years; BMI, 24.9±4.5 kg/m2) had daily activity measured simultaneously with an AG-GT3X+ accelerometer and a New Lifestyles NL-800 pedometer for seven days. Steps per day (steps/d) and time (minutes/day) spent in sedentary, light, and moderate-to-vigorous physical activity (MVPA) were examined with and without the LFE filter (AG-LFE and AG-N, respectively). The AG-LFE recorded more total steps (13,723±4,983 steps/d) compared to AG-N and NL-800 (6,172±2,838 and 5,817±3,037 steps/d, respectively; pppp

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