Validation of the GENE A Accelerometer

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This paper introduces GENE A to the scientific community and presents an assessment of the technical reliability and validity of the GENE A and GENE A calibration and develops thresholds for sedentary and light, moderate and vigorous intensity physical activity. These intensity classifications are compared against Actigraph and RT3 accelerometers.

The GENE A showed 1.4% intra variability and 2.1% inter variability. VO2 was used as the criterion validity and both wrist-worn and waist-worn GENE A compared well to the Actigraph and RT3. It was concluded that the GENE A is a valid and reliable tool for classifying physical activity in adults.

The complete abstract can be viewed or publication purchased by following the link:

http://journals.lww.com/acsm-msse/Abstract/2011/06000/Validation_of_the_GENE_A_Accelerometer.22.aspx