

Validity of the Walked Distance Estimated by Wearable Devices in Stroke Individuals

Maxence Compagnat ^{1,2,*}, Charles Sebiyo Batcho ^{3,4}, Romain David ², Nicolas Vuillerme ⁵, Jean Yves Salle ^{1,2}, Jean Christophe Daviet ^{1,2} and Stéphane Mandigout ¹

¹ (Handicap, Aging, Autonomy, Environment) HAVAE EA6310, University of Limoges, city post code, country; JYVES.SALLE@chu-limoges.fr (J.Y.S.); jean-christophe.daviet@unilim.fr (J.C.D.); mandigout@unilim.fr (S.M.)

² Department of Physical Medicine and Rehabilitation, University Hospital Center of Limoges, city post code, France; Romain-david@hotmail.fr

³ Center for Interdisciplinary Research in Rehabilitation and Social Integration (CIRRIS), Centre Intégré Universitaire de Santé et de Services Sociaux de la Capitale Nationale (CIUSSS-CN), city post code, QC, Canada; charles.batcho@fmed.ulaval.ca

⁴ Department of Rehabilitation, Faculty of Medicine, Université Laval, city post code, QC, Canada,

⁵ Department, University Grenoble Alpes, AGEIS, Grenoble post code,, France & Institut Universitaire de France, Paris post code, France; nicolas.vuillerme@univ-grenoble-alpes.fr

Table S1. Characteristics of the selected devices.

	Components	Recommended Placement	Measured Outcomes	Epoch	Cost
ActigraphGT3x[34]	3-axis accelerometer, digital filtering technology, integrated wear time and ambient light sensors	Wrist Waist Ankle Thigh	Ambient Light Sensor Heart Rate Monitoring Proximity Detection Wear Time Sensor Daytime Activity Basic Sleep Scoring Inclinometer Graphing Data Vault Access	1/sec	335\$
Sensewear ArmBand[30,40]	Multisensor array and biaxial accelerometer	Arm(Triceps Brachii)	Energy expenditure Step count Duration in postures	1/sec	900\$
Pedometer[36]	Piezo electric	Around the neck Hip	Step counts	Step by step	35\$