Research Publications using Equivital™ products

This bibliography contains references to publications, papers, journals and field studies that have featured Equivital™ products. If you have published papers which include the use of Equivital™ products, we would appreciate receiving reprints if available, and if not, the full citation. Please send to: info@equivital.co.uk, or Hidalgo Limited, Unit F, Trinity Court, Buckingway Business Park, Anderson Road, Swavesey, Cambridge CB24 4UQ, United Kingdom

Temperature


Xiaojiang Xu, Anthony J. Karis, Mark J. Buller, William R. Santee. Relationship between core temperature, skin temperature, and heat flux during exercise


**Blood Pressure**

- Better Data
- Better Decisions
- Better Performance

**Mobile human monitoring**

**Biometrics**


Foteini Agrafioti, Francis M. Bui, Dimitrios Hatzinakos Article first published online: Medical biometrics in mobile health monitoring Published May 2011, Volume 4, Issue 5, pp 525 – 539

**Sleep**


U. Vollmer-Conna et al. Vagus nerve activity, a good night’s sleep, and recovery from acute infection. Brain, Behavior, and Immunity Volume 32, Supplement, September 2013, Pages e11–e12 PsychoNeuroImmunology Research Society’s 20th Annual Scientific Meeting

**Activity**


Matthias Weippert, Jan Stielow, Mohit Kumar, Steffi Kreuzfeld1, Annika Rieger, Regina Stoll. Tri-axial high resolution acceleration for oxygen consumption estimation: validation of a multi-sensor device and a novel analysis method. 2012 pp1 -29


Military


Buller M.J Karis A.J. Heart Rate and Respiratory Rate during fitness training, obstacle course runs, and mass casualty simulations - performance of two warfighter physiological status monitoring systems. August 2007. USARIEM technical report T07-10.


**Mobile human monitoring**

- Better Data
- Better Decisions
- Better Performance

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Welles, Alexander P.; Buller, Mark J.; Margolis, Lee; Economos, Demetri; Hoyt, Reed W.; Richter, Mark W. Thermal-Work Strain During Marine Rifle Squad Operations in Afghanistan. Military Medicine, Volume 178, Number 10, October 2013, pp. 1141-1148(8)

**First Responder**


**Clinical**


Dr. Emil Jovanov. Mladen Milosevic. Real-Time Physiological Monitoring laboratory. The University of Alabama in Huntsville 2012 pp 5-7


TM Tan, BCT Field, KA McCullough, RC Troke. Co-administration of Glucagon-Like Peptide-1 During Glucagon Infusion in Man Results in Increased Energy Expenditure and Amelioration of Hyperglycemia American Diabetes Association December 17, 2012


International Conference on Control, Cardiff, UK, September 2012, pp. 771-777.


Psychophysiology


Brook L. Henry a, Arpi Minassian a, b, Virginie M. Patt a, Jessica Hua a, Jared W. Young a, b, Mark A. Geyer a, b, William Perry a, Inhibitory deficits in euthymic bipolar disorder patients assessed in the human behavioral pattern monitor. Journal of Affective Disorders, 4th June 2013.

Occupational Health


WH Sinclair, JC Brownsberger. Wearing long pants while working outdoors in the tropics does not yield higher body temperatures. New Zealand Journal of Public Health, 5th FEB 2013


Matt Brearley, Phillip Harrington, Doug Lee, Raymond Taylor. Physiological responses of utilities crews working in the Northern Territories. 2013

M Buller, S Odomka, W Tharion, C Clements, R Hoyt, C Jenkins. Policies to Optimize Work Performance and Thermal Safety in Exercising Humans. 2013, Association for the Advancement of Artificial Intelligence
Mobile human monitoring

- Better Data
- Better Decisions
- Better Performance

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**Sport**

Garbino, Alejandro; Blue, Rebecca S.; Pattarini, James M.; Law, Jennifer; Clark, Jonathan B. *Physiological Monitoring and Analysis of a Manned Stratospheric Balloon Test Program*. Aviation, Space, and Environmental Medicine, Volume 85, Number 2, February 2014, pp. 177-182


**Text book features**


**White Papers & Field Studies**

White paper by the *International Civil Engineering and Environmental Technology Group*. Studying the effects of physical exertion on employees working within nuclear reactors while wearing breathing air protection and/or skin protection (gas suits) in elevated ambient temperature conditions.

Ian Norton, Matt Brearley, Terry Trewin, Kirsten. CBR Heat Stress: *A comparison of novel cooling methods for prevention of hyperthermia in CBR responders in tropical conditions*
John S. Cuddy, MS, Dustin R. Slivka, PhD, Tyler J. Tucker, MS, Walter S. Hailes, MS, Brent C. Ruby, PhD Remote monitoring - Montana Woodland Fire Fighters - Equivital was evaluated in the field under real fire conditions over a 4 day period 2011.

James Cook University - Institute of Sport and Exercise Science - Temperature monitoring - Equivital is part of the Exercise Physiology Laboratory Equipment


Verdegaal, E.J.M.M, Folwell, LE., Caraguel, CGB. and Franklin, SH. Evaluation of a gastro-intestinal pill (Equivital system®) to measure the core body temperature in exercising horses. ECEIM Conference, Le Touquet, France, Feb 2013


Research Studies Ongoing
Oxford University Hospitals
Renal Unit - Measures for predicting deterioration in patients in chronic renal failure on long term haemodialysis.

Oxford University Hospitals
General Medicine - Measures for predicting acute deterioration in general ward patients.

Oxford University Hospitals
Acute Medicine - Measures for predicting acute deterioration in patients recently discharged to step down units from Intensive care.

Miscellaneous

Siefert, Caleb J. (Ann Arbor, MI, US) Short imagery task (sit) research method

Further information
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