Research Publications using Equivital™ products

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Temperature


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


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

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estimation: validation of a multi-sensor device and a novel analysis method. 2012 pp1 - 29


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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.

Cynthia Clements, M. Buller, A. Welles, J. Stower, C. Desantinis, D. Economous, M. Richter, W. Tharion. Practical Real Time Assessment of Human Thermal Work Strain. US Army Research Institute of Environmental Medicine, Natick, USA, PM Marine Expeditionary Rifle Squad, Stafford, USA. 2nd International Congress on Soldiers' Physical Performance May 4-7, 2011, Jyväskylä, Finland


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


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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.

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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

Sport


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.

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


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


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