

Product	Year	Author	Institute	Title	Ref.	Journal/Meeting	Lang	Format	Topic
K4b2	2015	Andreas Flouris, Athanasios Jamurtas, Ioannis Fatourous, & Yiannis Koutedakis	Department of Physical Education and Sports Sciences, University of Thessaly, Trikala, Hellas	Metabolic Profile of Football Athletes During Running Incorporating Different Levels of Direction Change	Volume 13 (1), 26 - 31 Released: March 2015	Inquiries in Sport & Physical Education	EN/GR	Article	Football
K4b2	2015	Attilio Sacripanti, Antonio Buglione, Tania De Blasis, Emanuel Rossetti, Giampolo Andreatta, Joanna Camillieri and Carl De Créé	Department of Medicine and Surgery, University of Rome "Tor Vergata", Italy	Infrared Thermography-Calorimetric Quantitation of Energy Expenditure in Biomechanically Different Types of Judo Throwing Techniques. A Pilot Study	Published: 20 April 2015	Annals of Sports Medicine and Research	EN	Article	Combat Sports
K4b2	2015	Bach CW, Brown AF, Kinsey AW, Ormsbee MJ.	Institute of Sports Sciences and Medicine, Department of Nutrition, Food and Exercise Sciences, Florida State University, Tallahassee, FL;	Anthropometric Characteristics and Performance Capabilities of Highly-Trained Motocross Athletes Compared to Physically Active Men.	2015 May 16.	J Strength Cond Res.	EN	Article	Motorbike
K4b2	2015	Gibbon A, McNeil J, Jay O, Tremblay MS, Chaput JP.	Healthy Active Living and Obesity Research Group, Children's Hospital of Eastern Ontario Research Institute, Ottawa, Ontario, Canada	Active video games and energy balance in male adolescents: a randomized crossover trial.	2015 Mar 11.	Am J Clin Nutr.	EN	Article	Computer Games
K4b2	2015	Iyalomhe O, Chen Y, Allard J, Ntekim O, Johnson S, Bond V, Goerlitz D, Li J, Obisesan TO.	Division of Geriatrics, Department of Medicine, Howard University Hospital, 2041 Georgia Ave NW, Washington, DC 20060, USA.	A standardized randomized 6-month aerobic exercise-training down-regulated pro-inflammatory genes, but up-regulated anti-inflammatory, neuron survival and axon growth-related genes.	2015 May 15.	Exp Gerontol.	EN	Article	Exercise Physiology
K4b2	2015	Kim, Jae-Hee, Son, Hee-Ryoung, Choi, Jung-Sook, Kim, Eun-Kyung	Department of Food and Nutrition, Gyeongneung-Wonju National University, Gangwon 210-702, Korea	Energy expenditure measurement of various physical activity and correlation analysis of body weight and energy expenditure in elementary school children	2015; 48(2): 180 – 191	Journal of Nutrition and Health (J Nutr Health)	ZH	Article	Paediatric & Children
K4b2	2015	Mikkel B. Schneller, Mogens T. Pedersen, Nidhi Gupta, Mette Aadahl and Andreas Holtermann	Department of Nutrition, Exercise and Sports, University of Copenhagen, DK-2200 Copenhagen, Denmark	Validation of Five Minimally Obstructive Methods to Estimate Physical Activity Energy Expenditure in Young Adults in Semi-Standardized Settings	2015, 15, 6133-6151	Sensors	EN	Article	Exercise Physiology
K4b2	2015	Neves CD, Lacerda AC, Lage VK, Lima LP, Proseca SF, de Avelar NC, Teixeira MM, Mendonça VA.	Universidade Federal dos Vales do Jequitinhonha e Mucuri, Programa Multicêntrico de Pós- Graduação em Ciências Fisiológicas, Sociedade Brasileira de Fisiologia, Diamantina, Minas Gerais, Brazil	Cardiorespiratory responses and prediction of peak oxygen uptake during the shuttle walking test in healthy sedentary adult men.	2015 Feb 6;10(2)	PLoS One.	EN	Article	Exercise Physiology
K4b2	2015	Paulo Eduardo Redkva, Mauro Ricetti Paes, Sergio Augusto Esmanhoto, Leandro Martinez Vargas, José Roberto Herrera Cantorani, Sandro dos Santos Ferreira, Ragami Chaves Alves, Sergio Gregorio da Silva	Centro de Pesquisa em Exercício e Esporte (CEPEE) – Universidade Federal do Paraná (UFPR) – Curitiba – PR, Brasil	Aerobic and Anaerobic Physiological Characteristics of Brazilian Army Military Orienteers	April 2015 Volume 18 Number 2	Journal of Exercise Physiology online	EN	Article	Public Safety
K4b2	2015	Schram B, Hing W, Climstein M.	School of Physiotherapy, Faculty of Health Science & Medicine, Bond University, Gold Coast, QLD Australia.	Laboratory and Field based assessment of maximal aerobic power of elite SUP athletes	2015 Apr 7.	Int J Sports Physiol Perform.	EN	Article	Water based activities
K4b2	2015	Souglis AG, Papapanagiotou A, Bogdanis GC, Travlos AK, Apostolidis NG, Geladas ND.	School of Physical Education and Sport Sciences, University of Athens, Athens, Greece;	Comparison of inflammatory responses to a soccer match between elite male and female players.	2015 May;29(5):1227-33.	J Strength Cond Res.	EN	Article	Football
K4b2	2015	Sperandio EF, Arantes RL, Matheus AC, Silva RP, Lauria VT, Romiti M, Gagliardi AR, Dourado VZ.	Departamento de Ciências do Movimento Humano, Laboratório de Epidemiologia e Movimento Humano (EPIMOV), Universidade Federal de São Paulo, Santos, SP, Brasil.	Intensity and physiological responses to the 6-minute walk test in middle-aged and older adults: a comparison with cardiopulmonary exercise testing.	2015 Apr;48(4):349-53.	Braz J Med Biol Res.	EN	Article	Geriatrics
K4b2	2015	Sundar Kumar Veluswamy, Vasudeva Guddattu and Arun G. Maiya	Department of Physiotherapy, School of Allied Health Sciences, Manipal University, Manipal, Karnataka, India	Test-retest reliability of a portable gas analysis system under free living conditions	2015; 59(1) : 117–120	Indian J Physiol Pharmacol	EN	Article	Validation
K4b2	2014	A Zignoli, A Savoldelli, F Biral, B Pellegrini, and F Schena	CeRiSM (Research Centre of Mountain Sport and Health) University of Verona, Verona, Italy	Application to cycling of a bioenergetic model: Towards a multi-level biomechanical model for global cyclist performance analysis	Vol. 3(2), 76-77	J Sci Cycling.	EN	Abstract	Cycling
K4b2	2014	AH Bossi , P Lima, J Hopker and JRP Lima	Faculty of Physical Education and Sports, Federal University of Juiz de Fora, Juiz de Fora, Minas Gerais, Brazil	Laboratory predictors of uphill cycling time trial performance	Vol. 3(2), 5 2014	J Sci Cycling.	EN	Abstract	Exercise Physiology
K4b2	2014	Ana Sousa, Joao Ribeiro, Marisa Sousa, Joao Paulo Vilas-Boas, Ricardo J. Fernandes	Centre of Research, Education, Innovation and Intervention in Sport, Faculty of Sport, University of Porto, Porto, Portugal	Influence of Prior Exercise on VO2 Kinetics Subsequent Exhaustive Rowing Performance	January 2014   Volume 9   Issue 1	PLOS ONE	EN	Article	Rowing
K4b2	2014	Andrade MS, de Lira CA, Vancini RL, Nakamoto FP, Cohen M, da Silva AC.	Departamento de Fisiologia, Universidade Federal de São Paulo, São Paulo, Brazil	Assessment of functional impairment after knee anterior cruciate ligament reconstruction using cardiorespiratory parameters: a cross-sectional study.	2014 May 20;15(1):163	BMC Musculoskelet Disord.	EN	Article	Orthopedics
K4b2	2014	Andrei Sancassani, Dalton M. Pessôa Filho	College of Sciences, State University of São Paulo/Bauru Campus, Brazil	Exercise domain profile through pulmonary gas exchange response during kendo practice by men	2014   VOLUME 10	Archives of Budo	EN	Article	Combat Sports
K4b2	2014	Antonino Bianco, Francesco Pomara, Antonino Patti, Ewan Thomas, Marco Petrucci, Marianna Bellafiore, Giuseppe Battaglia, Antonio Paoli and Antonio Palma	Sport and Exercise Sciences Research Unit, University of Palermo	The surprising influence of family history to type 2 diabetes on anaerobic performance of young male elite athletes	2014, 3:224	SpringerPlus	EN	Article	Clinical (Diabetes)
K4b2	2014	Azzam Haddad, Yi Zhang, Steven Su, Branko Celler, Hung Nguyen	Faculty of Engineering and IT, University of Technology, Sydney (UTS), Sydney, Australia	Modelling and regulating of cardio-respiratory response for the enhancement of interval training	2014, 13:9	BioMedical Engineering OnLine	EN	Article	Exercise Physiology
K4b2	2014	Baiget E, Fernández-Fernández J, Iglesias X, Vallejo L, Rodríguez FA	1Department of Physical Activity Sciences, University of Vic, Barcelona, Spain	On-court endurance and performance testing in competitive male tennis players.	2014 Jan;28(1):256-64	J Strength Cond Res.	EN	Article	Tennis

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K4b2	2014	Benedikt A. Gasser, Adrian M. Stäuber, Glenn Lurmann, Fabio A. Breil, Hans H. Hoppeler, Michael Vogt	Swiss Health & Performance Lab, Institute of Anatomy, University of Bern, Bern, Switzerland	Oxygen consumption while standing with unstable shoe design	2014, vol. 15 (3), 160–165	Human Movement	EN	Article	Ergonomics
K4b2	2014	Best Sampson J, Rogers R, Biggerstaff KD, Bullinger D, Nichols, D and Ben Ezra, V.	Exercise Physiology Laboratory; Kinesiology; Texas Woman's University; Denton, TX	Physiological Responses to a 60-Minute Zumba® Class in College Age Females	2014	TACSM	EN	Abstract	Dance
K4b2	2014	Brian M. Sandroff, Lara A. Pilutti, Deirdre Dlugonski, Yvonne C. Learnmonth, John H. Pula, Robert W. Motl	Department of Kinesiology and Community Health, University of Illinois at Urbana-Champaign, Urbana, IL	Comparing Two Conditions of Administering the Six-Minute Walk Test in People with Multiple Sclerosis	2014 Spring; 16(1): 48–54.	Int J MS Care.	EN	Article	Clinical (Sclerosis)
K4b2	2014	Bülent Kilit, Ömer Şenel , Erşan Arslan , Sema Can, Mustafa Balaban	Hitit University School of Physical Education and Sports	The physiological profile and performance responses of elite male tennis players during tennis match	Nov 7-9 2014	13th International Sport Conference	EN	Abstract	Tennis
K4b2	2014	Castro-Sepulveda M, Cerda-Kohler H, Pérez-Luco C, Monsalves M, Andrade DC, Zbinden-Foncea H, Báez-San Martín E, Ramírez-Campillo R.	Exercise Science Laboratory, Faculty of Medicine, Universidad Finis Terrae, Santiago, Chile.	Hydration status after exercise affect resting metabolic rate and heart rate variability.	2014 Dec 17;31(3):1273-7.	Nutr Hosp.	EN	Article	Exercise Physiology
K4b2	2014	Christopher C.F. Howe, Richard O. Matzko, Fabio Piasek, Yannis P. Pitsiladis & Chris Easton	School of Life Sciences, Kingston University, Kingston upon Thames, UK	Stability of the K4b2 portable metabolic analyser during rest, walking and running	2014 Vol. 32, No. 2, 157–163	Journal of Sports Sciences	EN	Article	Validation
K4b2	2014	D. Ellis, E. Sejdíć, K. Zabjek, T. Chau	iMED (Innovative Medical Engineering Developments) lab, University of Pittsburgh	A pediatric correlational study of stride interval dynamics, energy and activity level	2014	Pediatric Exercise Science	EN	Article	Gait
K4b2	2014	Delussu AS, Morone G, Iosa M, Bragoni M, Trabalesi M, Paolucci S.	Fondazione Santa Lucia, I.R.C.C.S, Rome, Italy	Physiological responses and energy cost of walking on the Gait Trainer with and without body weight support in subacute stroke patients.	2014 Apr 10;11(1):5	J Neuroeng Rehabil. 4	EN	Article	Gait
K4b2	2014	Eugenia Murawska-Cialowicz	Physiology and Biochemistry Department, University of Physical Education, Wrocław, Poland	The impact of Wingate and progressive tests on homocysteine, vitamin B6, B12 and folic acid levels in athletes'blood	Vol. 8, No. 4/2014: 5–17	Central European Journal of Sport Sciences and Medicine	EN	Article	Exercise Physiology
K4b2	2014	Ferreira LG, Santos LF, Silva TR, Anastácio LR, Lima AS, Correia MI.	Surgery Postgraduate Program, Medical School, Universidade Federal de Minas Gerais, Brazil	Hyper- and hypometabolism are not related to nutritional status of patients on the waiting list for liver transplantation.	2014 Oct;33(5):754-60	Clin Nutr.	EN	Article	Pre-Op Assessment
K4b2	2014	Gastinger S, Donnelly A, Dumond R, Prioux J.	Laboratory, Movement, Sport, and Health Sciences (M2S): Physiology and Biomechanics, University Rennes 2, Bruz, France	A Review of the Evidence for the Use of Ventilation as a Surrogate Measure of Energy Expenditure	2014 Apr 17	JPEN J Parenter Enteral Nutr.	EN	Article	Product Validation
K4b2	2014	H Giorgi, M Andrews, A Gray and M Osborne	The University of Queensland, School of Human Movement Studies, Brisbane, Queensland, Australia	Incorporating internal mechanical power into performance models in cycling	Vol. 3(2), 80-81 2014	J Sci Cycling.	EN	Abstract	Cycling
K4b2	2014	IJmker T, Lamoth CJ, Houdijk H, van der Woude LH, Beek PJ.	MOVE Research Institute Amsterdam, Faculty of Human Movement Sciences, VU University Amsterdam, Amsterdam, the Netherlands	Postural threat during walking: effects on energy cost and accompanying gait changes.	2014 Apr 22;11(1):71	J Neuroeng Rehabil.	EN	Article	Gait
K4b2	2014	Inês Dias do Vale	Environmental Engineering Tecnico de Lilsboa, Portugal	Comparison of pedestrians' particulate matter inhalation for different routes in urban centers	2014		BR	Dissertation	Exercise Physiology
K4b2	2014	Jennifer A. Schrack, Vadim Zippunikov, Jeff Goldsmith, Karen Bandeen-Roche, Ciprian M. Crainiceanu, Luigi Ferrucci	National Institute on Aging, National Institutes of Health, Baltimore, Maryland	Estimating Energy Expenditure from Heart Rate in Older Adults: A Case for Calibration	April 2014   Volume 9   Issue 4	PLOS ONE	EN	Article	Elderly
K4b2	2014	Jinho Back, Sun Hur, Young-Mee Lee	Kangwon National University, Department of Leisure Sports	Physiological Comparative Analysis of Snowboard Deck in Snowboarders	Vol.49 (ICSS 2014), pp.38-41	Advanced Science and Technology Letters	EN	Article	Skiing
K4b2	2014	Karolina Lagowska, Karina Kapczuk and Jan Jezska	Department of Human Nutrition and Hygiene, Poznan University of Life Sciences, Poznan, Poland	Nine-month nutritional intervention improves restoration of menses in young female athletes and ballet dancers	2014, 11:52	Journal of the International Society of Sports Nutrition	EN	Article	Dance
K4b2	2014	Kyle R. Cochrane	University of Montana	Cross system reliability of COSMED K4b2 vs. PARVO 2400 TRUE ONE metabolic systems	2014	University of Montana ScholarWorks	EN	Abstract	Validation
K4b2	2014	Lagowska K, Kapczuk K, Friebe Z, Bajerska J	Department of Human Nutrition and Hygiene, Dietetic Division, University of Life Sciences, Poznań, Poland	Effects of dietary intervention in young female athletes with menstrual disorders.	2014 May 26;11:21	J Int Soc Sports Nutr.	EN	Article	Diet
K4b2	2014	Ludovic Seifert, John Komar, Florent Crettenand, Gregoire Millet	Centre d'Etude des Transformations des Activités Physiques et Sportives (CETAPS), University of Rouen, Faculty of Sports Sciences, Mont Saint Aignan, France	Coordination Pattern Adaptability: Energy Cost of Degenerate Behaviors	September 2014   Volume 9   Issue 9	Plos One	EN	Article	Swimming
K4b2	2014	Luke M Mooney, Elliott J Rouse and Hugh M Herr	Center for Extreme Bionics, MIT Media Lab, Massachusetts Institute of Technology, Cambridge, MA, USA	Autonomous exoskeleton reduces metabolic cost of human walking	2014, 11:151	Journal of NeuroEngineering and Rehabilitation	EN	Article	Gait
K4b2	2014	Manzi V, Impellizzeri F, Castagna C	Technical Department, Football Training and Biomechanics Laboratory, Italian Football Association (FIGC), Florence, Italy	Aerobic fitness ecological validity in elite soccer players: a metabolic power approach	2014 Apr;28(4):914-9	J Strength Cond Res.	EN	Article	Football
K4b2	2014	Michael P. Murphy, Chris E. Thorne, Steve Zhang, Jessica Selinger, J. Maxwell Donelan, and Steve Potter	Locomotion Lab, Simon Fraser University, Burnaby, British Columbia, Canada	Whole Leg Augmentation with a Lightweight Knee Mechanism	2014	Dynamic Walking 2014	EN	Article	Orthopedics
K4b2	2014	Mooney LM, Rouse EJ, Herr HM	MIT Media Lab, Massachusetts Institute of Technology, Cambridge, MA, USA	Autonomous exoskeleton reduces metabolic cost of human walking during load carriage	2014 May 9;11(1):80	J Neuroeng Rehabil.	EN	Article	Public Safety

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K4b2	2014	Muggeridge DJ, Howe CC, Spendiff O, Pedlar C, James PE, Easton C.	Institute for Clinical Exercise and Health Science, University of the West of Scotland, Hamilton, Scotland, UNITED KINGDOM	A Single Dose of Beetroot Juice Enhances Cycling Performance in Simulated Altitude	2014 Jan;46(1):143-50	Med Sci Sports Exerc.	EN	Article	Altitude
K4b2	2014	Pablo A. Domene, and Chris Easton	Faculty of Science, Engineering and Computing, Kingston University, Kingston upon Thames, United Kingdom	Combined Triaxial Accelerometry and Heart Rate Telemetry for the Physiological Characterization of Latin Dance in Non-Professional Adults	Volume 18, Number 0, 2014	Journal of Dance Medicine & Science	EN	Article	Dance
K4b2	2014	Paola Callea, Giuseppe Zimbalatti, Elisabeth Quendler, Alfred Nimmerichter, Norbert Bachl, Bruno Bernardi, Dario Smorto, Souraya Benalia	Department of Agraria, Feo di Vito, University Mediterranea, Calabria, Italy	Occupational illnesses related to physical strains in apple harvesting	2014, Vol 21, No 2, 407-411	Annals of Agricultural and Environmental Medicine	EN	Article	Occupational Health
K4b2	2014	Rachel E Klaren, Gavin P Horn, Bo Fernhall, and Robert W Motl	Illinois Fire Service Institute, University of Illinois at Urbana-Champaign, USA	Accuracy of the VO2peak prediction equation in firefighters	2014; 9: 17.	J Occup Med Toxicol.	EN	Article	Firefighter
K4b2	2014	Schuller T., Hoffmann U., Iglesias X., Chaverri D., Rodríguez F. A.	Institut für Physiologie und Anatomie, Deutsche Sporthochschule Köln, Germany	Concurrent validity of a new model for estimating peak oxygen uptake based on post-exercise measurements and heart rate kinetics in swimming	Canberra, 2014. pp. 41---42	XIth International Symposium for Biomechanics and Medicine in Swimming.	EN	Article	Swimming
K4b2	2014	Schuller T., Hoffmann U., Iglesias X., Chaverri D., Rodríguez F.A.	Institut für Physiologie und Anatomie, Deutsche Sporthochschule Köln, Germany	Concurrent validity of a new model for estimating peak oxygen uptake based on post-exercise measurements and heart rate kinetics in swimming	2014. pp. 506---511	XIth International Symposium for Biomechanics and Medicine in Swimming	EN	Article	Swimming
K4b2	2014	Stanula A., Rocznik R., Maszczyk A., Pietraszewski P., Zajac A.	Department of Methodology, Statistics and Computer Science The Jerzy Kukuczka Academy of Physical Education, Katowice, Poland	The role of aerobic capacity in high intensity intermittent effort in icehockey	Vol. 31 No3, 2014	Biology of Sport	EN	Article	Skating
K4b2	2014	Theo Thompson	Department of Software Engineering, The University of Auckland, Auckland, New Zealand	Whole Body Interaction: Literature Review of Whole Body Tracking	2014		EN	Article	Gait
K4b2	2014	Tolfrey K, Engstrom A, Murphy C, Thackray A, Weaver R, Barrett LA	Paediatric Exercise Physiology Research Group, School of Sport, Exercise and Health Sciences, Loughborough University, UNITED KINGDOM	Exercise energy expenditure and postprandial lipemia in girls.	2014 Feb;46(2):239-46	Med Sci Sports Exerc.	EN	Article	Exercise Physiology
K4b2	2014	Vinicius de Oliveira Ottone, Flavio de Castro Magalhaes, Fabricio de Paula, Nubia Carelli Pereira Avelar, Paula Fernandes Aguiar, Pamela Fiche da Matta Sampaio, Tamiris Campos Duarte, Karine Beatriz Costa, Tatiane Liliam Araujo, Candido Celso Coimbra, Fabio Yuzo Nakamura, Fabiano Trigueiro Amorim, Etel Rocha-Vieira	Laboratorio de Biologia do Exercício, Centro Integrado de Pesquisa em Saude, Programa Multicentrico de Pos-Graduacao em Ciencias Fisiologicas – Universidade Federal dos Vales do Jequitinhonha e Mucuri, Diamantina, Brazil	The Effect of Different Water Immersion Temperatures on Post-Exercise Parasympathetic Reactivation	December 1, 2014	Plos One	EN	Article	Water based activities
K4b2	2014	Zanetti S, Pumpa KL, Wheeler KW, Pyne DB	National Institute of Sports Studies, Faculty of Health, University of Canberra, Canberra, Australia	Validity of the SenseWear Armband to assess energy expenditure during intermittent exercise and recovery in rugby union players.	2014 Apr;28(4):1090-5	J Strength Cond Res.	EN	Article	Product Validation
K4b2	2014	Zhang Y, Haddad A, Su SW, Celler BG, Coutts AJ, Duffield R, Donges CE, Nguyen HT.	The Faculty of Aeronautics and Astronautics, University of Electronic Science and Technology of China, 611731 Chengdu, China.	An equivalent circuit model for onset and offset exercise response.	2014 Oct 18;13:145.	Biomed Eng Online	EN	Article	Exercise Physiology
K4b2	2013	Alexander R. Gibson <sup>1</sup> , Robert Ojiambo, Kenn Konstabel, Daniel E. Lieberman, John J. Reilly, John R. Speakman, Yannis P. Pitsiladis	College of Medicine, Veterinary and Life Sciences, Institute of Cardiovascular and Medical Sciences, University of Glasgow, West Medical Building, Glasgow, Scotland	Aerobic Capacity, Activity Levels and Daily Energy Expenditure in Male and Female Adolescents of the Kenyan Nandi Sub-Group	June 2013   Volume 8   Issue 6	PLOS ONE	EN	Article	Exercise Physiology
K4b2	2013	Antonio A. M. Castro, Elias F. Porto, Vinicius C. Iamonti, Géerson F. de Souza, Oliver A. Nascimento, José R. Jardim	Pulmonary Rehabilitation Center of Federal University of São Paulo – Unifesp, São Paulo, São Paulo, Brazil,	Oxygen and Ventilatory Output during Several Activities of Daily Living Performed by COPD Patients Stratified According to Disease Severity	November 2013   Volume 8   Issue 11   e79727	PLOS ONE	EN	Article	Clinical (COPD)
K4b2	2013	Antonio Terracciano, Jennifer A. Schrack, Angelina R. Sutin, Wayne Chan, Eleanor M. Simonsick, Luigi Ferrucci	National Institute on Aging, National Institutes of Health, Department of Health and Human Services, Baltimore, Maryland, USA	Personality, Metabolic Rate and Aerobic Capacity	January 2013   Volume 8   Issue 1	PLOS ONE	EN	Article	Elderly
K4b2	2013	Barbara Trutschnigg, Robert D. Kilgour, José A. Morais, Henriqueta Lucar, Laura Hornby, Haneen Molla, Antonio Viganò	McGill Nutrition and Performance Laboratory, Montreal, QC, Canada	Metabolic, nutritional and inflammatory characteristics in elderly women with advanced cancer	2013 Apr;4(2):183-9	J Geriatr Oncol.	EN	Article	Clinical (Cancer)
K4b2	2013	Batista MB, Cyrino ES, Arruda M, Dourado AC, Coelho-E-Silva MJ, Ohara D, Romanzini M, Ronque ER	Group of Study and Research in Physical Activity and Exercise, Londrina State University, Londrina, Brazil	Validity of equations for estimating VO2peak from the 20-m shuttle run test in adolescents aged 11-13 years	2013 Oct;27(10):2774-81	J Strength Cond Res.	EN	Article	Paediatric & Children
K4b2	2013	Benjamin J. Darter, Kelly M. Rodriguez, Jason M. Wilken	Brooke Army Medical Center	Test-Retest Reliability and Minimum Detectable Change Using the K4b2: Oxygen Consumption, Gait Efficiency, and Heart Rate for Healthy Adults During Submaximal Walking	2013 June ; 84(2): 223-231	Res Q Exerc Sport.	EN	Article	GAIT
K4b2	2013	CA Bisschoff	North-West University, South Africa	The validity of the BioForce Heart rate Variability System and the use of heart rate variability and recovery to determine the fitness levels of a cohort of university-level rugby players	nov-13		EN	Dissertation	Rugby
K4b2	2013	Carlo Baldari, Marco Meucci	Department of Movement, Human and Health Sciences, University of Rome "Foro Italico", Rome, Italy	History of technologic development and data analysis in VO2 evaluation in swimming	2013	Sinergia	EN	Article	Swimming

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K4b2	2013	Carlo Castagna, franco M. Impellizzeri, Anis Chaouachi, Vincenzo Manzi	Football Training and Biomechanics Laboratory, Italian Football Association (FIGC), Technical Department, Coverciano	Preseason variations in aerobic fitness and performance in elite-standard soccer players: a team study	2013 27(11):2959-2965	Journal of Strength and Conditioning Research	EN	Article	Football
K4b2	2013	Charles P. Hoffmann, Alessandro Filipeschi, Emanuele Ruffaldi & Benoit G. Bardy	Movement to Health (M2H) Laboratory, Montpellier-I University, Montpellier, France	Energy management using virtual reality improves 2000-m rowing performance	2013 Sep 20	J Sports Sci.	EN	Article	Rowing
K4b2	2013	Christopher Easthope Schmidt	University of Nice Sophia Antipolis, France	Reducing muscular fatigue in trail running - mechanisms and strategies	2013		EN/FR	Dissertation	Exercise Physiology
K4b2	2013	Daniel J. Keefer	Millersville University, Millersville, USA	Effects of body movement on the reliability of a portable gas analysis system	2013, vol. 14 (1), 82-86	Human Movement	EN	Article	Validation
K4b2	2013	Duncan GE, Lester J, Migotsky S, Higgins L, Bortolillo G.	Department of Epidemiology, Nutritional Sciences Program, University of Washington, Seattle	Measuring slope to improve energy expenditure estimates during field-based activities	2013 Mar;38(3):352-6	Appl Physiol Nutr Metab.	EN	Article	Exercise Physiology
K4b2	2013	Gary R. Hunter, C. Scott Bickel, Gordon Fisher, William H. Neumeier, and John P. McCarthy	Department of Human Studies, University of Alabama at Birmingham, Birmingham, AL	Combined Aerobic and Strength Training and Energy Expenditure in Older Women	2013 Jan 30	Med Sci Sports Exerc.	EN	Article	Exercise Physiology
K4b2	2013	João Noite Mendes, Renato Fernandes, Rodrigues Ferreira, José Correia, António Vences de Brito	ESDRM - Rio Maior, Portugal	Metabolic specialization in pre-pubertal young footballers	2013		EN	Paper	Football
K4b2	2013	Kate Woolf-May, Steve Meadows	Department of Sport Science, Tourism and Leisure, Canterbury Christ Church University, Canterbury, Kent, UK	Exploring adaptations to the modified shuttle walking test	2013 May 28;3(5)	BMJ Open.	EN	Article	Exercise Physiology
K4b2	2013	Katherine S. Hall, Cheryl A. Howe, Sharon R. Rana, Clara L. Martin, and Miriam C. Morey	Geriatric Research, Education, and Clinical Center, Durham VA Medical Center, Durham, NC	METs and Accelerometry of Walking in Older Adults: Standard versus Measured Energy Cost	2013 Mar;45(3):574-82	Med Sci Sports Exerc.	EN	Article	Product Validation
K4b2	2013	Krzysztof Durkalec-Michalski, Malgorzata Wozniowicz, Joanna Bajerska, Jan Jeszka	Poznań University of Life Sciences, Poznań, Poland	Comparison of accuracy of various non-calorimetric methods measuring energy expenditure at different intensities	2013, vol. 14 (2), 161-167	Human Movement	EN	Article	Product Validation
K4b2	2013	Le Meur Y, Pichon A, Schaal K, Schmitt L, Louis J, Gueneron J, Vidal PP, Hausswirth C	National Institute of Sport, Expertise and Performance, Laboratory of Sport, Expertise and Performance, Paris, France	Evidence of Parasympathetic Hyperactivity in Functionally Overreached Athletes	2013 May 14	Med Sci Sports Exerc.	EN	Article	Exercise Physiology
K4b2	2013	Marco Altini, Julien Penders and Oliver Amft	ACTLab, Signal Processing Systems, Eindhoven University of Technology, Eindhoven, The Netherlands	Body Weight-Normalized Energy Expenditure Estimation Using Combined Activity and Allometric Scaling Clustering	Osaka, Japan, 3 - 7 July, 2013	35th Annual International Conference of the IEEE EMBS	EN	Article	Product Validation
K4b2	2013	Matthew A. Tucker, Jill M. Hargreaves, Jenny C. Clarke, Darren L. Dale, and Gavin J. Blackwell	School of Sciences and Physical Education, University of Canterbury, Christchurch, New Zealand	The effects of caffeine on maximal oxygen uptake and vertical jump performance in male basketball players	2013 Feb;27(2):382-7	J Strength Cond Res.	EN	Article	Basketball
K4b2	2013	Michael Wehner, Brendan Quinlivan, Patrick M Aubin, Ernesto Martinez-Villalpando, Michael Baumann, Leia Stirling, Kenneth Holt, Robert Wood, Conor Walsh	Faculty of the School of Engineering and Applied Sciences, Harvard University, Cambridge, MA	A Lightweight Soft Exosuit for Gait Assistance	Karlsruhe, Germany, May 6-10, 2013	2013 IEEE International Conference on Robotics and Automation (ICRA)	EN	Article	Public Safety
K4b2	2013	Neil Baroody	University of New Hampshire - Main Campus	The Effect of a Barefoot Training Program on Running Economy and Performance	Spring 2013	University of New Hampshire Inquiry Journal	EN	Article	Running
K4b2	2013	Norcross, Jason R.	NASA Johnson Space Center, Houston, TX, United States	Using Analogs for Performance Testing of Humans in Spacesuits in Simulated Reduced Gravity	24 Sept. 2013	University Lecture;	EN	Paper	Space
K4b2	2013	Richard M. Kesler	Master of Science in Bioengineering of the University of Illinois at Urbana-Champaign	Analysis of fatigue in firefighters: foot clearances over stair edges and validation of a novel means for metabolic data collection	2013		EN	Dissertation	Firefighter
K4b2	2013	Sarah R.Ho, Richard M. Smith, Philip G. Chapman, Peter J. Sinclair, and Kazuo Funato	Exercise, Health and Performance Research Group, Faculty of Health Sciences, The University of Sydney, Lidcombe, New South Wales, Australia	Physiological and physical characteristics of elite dragon boat paddlers	2013 - 27(1):137-145	Journal of Strength and Conditioning Research	EN	Article	Rowing
K4b2	2013	Scott E. Crouter, Magdalene Horton and David R. Bassett, Jr	University of Massachusetts Boston, Boston, MA	Validity of ActiGraph Child-Specific Equations during Various Physical Activities	2013 Jul;45(7):1403-9	Med Sci Sports Exerc.	EN	Article	Product Validation
K4b2	2013	Y.D. Gu and Z.Y. Li	School of Biological Science and Medical Engineering, Southeast University, Jiangsu P.R. China	Effect of Shoes' Heel Height on the Energy Cost during Jogging	6(9): 1531-1533, 2013	Research Journal of Applied Sciences, Engineering and Technology	EN	Article	Product Validation
K4b2	2013	Yang, C., Wickert, Z., Roedel S., Berg, A., & Rothbauer, A.	Department of Kinesiology, University of Wisconsin-Eau Claire	Can Exergaming with the Xbox Kinect Meet Guidelines for Exercise Intensity?	May 2013		EN	Poster	Computer Games
K4b2	2013	Young Joo Kim, Heaja Chun, and Chul-Hyun Kim	Department of Rehabilitation Medicine, Inje University Sanggye Paik Hospital, Seoul	Exaggerated Response of Systolic Blood Pressure to Cycle Ergometer	2013 June; 37(3): 364-372	Ann Rehabil Med.	EN	Article	Exercise Physiology
K4b2	2012	Anna Bugge, Bianca El-Naaman, Magnus Dencker, Karsten Froberg, Ingar Morten K. Holme, Robert G. McMurray, and Lars Bo Andersen	Centre of Research in Childhood Health, Institute of Sport Science and Clinical Biomechanics, University of Southern Denmark, Odense M, DENMARK	Effects of a Three-Year Intervention: The Copenhagen School Child Intervention Study	0195-9131/12/4407-1310/0	Medicine & Science in Sports & Exercise	En	Article	Paediatric & Children

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K4b2	2012	C. Baldari , R. J. Fernandes , M. Meucci , J. Ribeiro , J. P. Vilas-Boas , L. Guidetti	Health Sciences Department, University of Rome "Foro Italico", Rome, Italy , Education, Innovation and Intervention in Sport, Faculty of Sport, University of Porto, Porto, Portugal, Porto Biomechanics Laboratory, University of Porto, Porto, Portugal,	Is the New AquaTrainer® Snorkel Valid for VO 2 Assessment in Swimming?	2012- DOI <a href="http://dx.doi.org/10.1055/s-0032-1321804">http://dx.doi.org/10.1055/s-0032-1321804</a>	International Journal of Sport Medicine	En	Article	Aquatrainer validation
K4b2	2012	Carlo Baldari, Ricardo J. Fernandes, João Ribeiro, Marco Meucci, João P. Vilas-Boas, Laura Guidetti	University of Rome "Foro Italico", Rome, Italy	Validation of a Snorkel Prototype for Measuring Gas Exchange Parameters during Swimming	2012	ACSM	EN	Poster	Swimming
K4b2	2012	Catherine M. Hesford, Stewart Laing, Marco Cardinale, and Chris E. Cooper	Centre for Sport and Exercise Science, School of Biological Sciences, University of Essex, UNITED KINGDOM	Effect of Race Distance on Muscle Oxygenation in Short-Track Speed Skating	(2012) 0195-9131/13/45010083/0	Medicine & Science in Sports & Exercise	EN	Article	Skating
K4b2	2012	Catherine Mary Hesford, Stewart J. Laing, Marco Cardinale, and Chris E. Cooper	Department of Biological Sciences, University of Essex, United Kingdom	Asymmetry of Quadriceps Muscle Oxygenation during Elite Short-Track Speed Skating	(2011) DOI: 10.1249/MSS.0b013e31822f8942	Medicine & Science in Sports & Exercise	EN	Article	Skating
K4b2	2012	Chris Easton, Chris C.F. Howe, Richard O. Matzko, Fabio Piasek, Yannis P. Pitsiladis	Kingston University, Kingston upon Thames UK	Impact of K4b2 calibration drift on respiratory measurements during walking and running	2012	ACSM	EN	Abstract	Validation
K4b2	2012	David R. Bassett JR, Alex Rowlands, and Stewart G. Trost	University of Tennessee, Knoxville, TN	Calibration and Validation of Wearable Monitors	(2012) DOI: 10.1249/MSS.0b013e3182399cf7	Medicine & Science in Sports & Exercise	EN	Article	Product Validation
K4b2	2012	Enrico Tam, Huber Rossi , Christian Moia, Claudio Berardelli, Gabriele Rosa, Carlo Capelli, Guido Ferretti,	Departement de Neurosciences Fondamentales, Universite' de Geneve, Geneva, Switzerland Facolta' di Scienze Motorie, Universita' di Bologna, Bologna, Italy	Energetics of running in top-level marathon runners from Kenya	(2012) 112:3797–3806	European Journal of Applied Physiology	En	Article	Running
K4b2	2012	Gregory G. Doncaster, Craig Twist	Department of Sport and Exercise Sciences, University of Chester, Chester CH1 4BJ, UK	Exercise-induced muscle damage from bench press exercise impairs arm cranking endurance performance	(2012) 112:4135–4142	European Journal of Applied Physiology	EN	Article	Conditioning
K4b2	2012	Herman Pontzer, David A. Raichlen, Brian M. Wood, Audax Z. P. Mabulla, Susan B. Racette, Frank W. Marlowe	Department of Anthropology, Hunter College, New York, New York, United States of America, New York Consortium in Evolutionary Primatology, New York, New York, USA	Hunter-Gatherer Energetics and Human Obesity	July 25, 2012 7(7): e40503.	PLOS ONE	EN	Article	Clinical (Obesity)
K4b2	2012	I. Bazzucchi, P. Sbriccoli, A. Nicolo' , A. Passerini, F. Quinzi, F. Felici, M. Sacchetti	Department of Human Movement and Sport Sciences, Universita' degli Studi di Roma "Foro Italico", Rome, Italy	Cardio-respiratory and electromyographic responses to ergometer and on-water rowing in elite rowers	2012 -I DOI 10.1007/s00421-012-2550-2	European Journal of Applied Physiology	En	Article	Rowing
K4b2	2012	J. Ramírez Lechuga, J. J. Muros Molina, J. Morente Sánchez, C. Sánchez Muñoz, P. Femia Marz04 y M. Zabala Díaz	Department of Sport and Informatics. University Pablo de Olavide. Seville. Spain. Department of Nutrition and Food Sciences. University of Granada. Spain.	Efecto de un programa de entrenamiento aeróbico de 8 semanas durante las clases de educación física en adolescentes	2012:27:747-754)	Nutr Hosp	En	Article	Paediatric & Children
K4b2	2012	Jaimie A. Roper Elizabeth L. Stegemo Iler Mark D. Tillman Chris J. Hass	Department of Applied Physiology and Kinesiology, University of Florida, Gainesville, FL 32611-8205, USA	Oxygen consumption, oxygen cost, heart rate, and perceived effort during split-belt treadmill walking in young healthy adults	2012 - DOI 10.1007/s00421-012-2477-7	European Journal of Applied Physiology	En	Article	Orthopedics
K4b2	2012	Jaimie A. Roper, Elizabeth L. Stegemoller , Mark D. Tillman, Chris J. Hass,	Department of Applied Physiology and Kinesiology, University of Florida, 122 Florida Gym, PO Box 118205, Gainesville, FL 32611-8205, USA	Oxygen consumption, oxygen cost, heart rate, and perceived effort during split-belt treadmill walking in young healthy adults	2012 DOI 10.1007/s00421-012-2477-7	European Journal of Applied Physiology	En	Article	Exercise Physiology
K4b2	2012	Jamie Burr, C. Taylor Drury, Adam C. Ivey, Darren E.R. Warburton	Kinesiology, Cardiovascular Physiology and Rehabilitation Laboratory, University of British Columbia, Vancouver, British Columbia, Canada, and Experimental Medicine, University of British Columbia, Vancouver, British Columbia, Canada	Physiological demands of downhill mountain biking	2012; 1–9, iFirst article	Journal of Sports Sciences	EN	Article	Cycling
K4b2	2012	Jennifer A. Schrack, PhD, Eleanor M. Simonsick, PhD, Paulo H.M. Chaves, MD, PhD, and Luigi Ferrucci, MD, PhD	Center on Aging and Health, Bloomberg School of Public Health, Johns Hopkins University, Baltimore Maryland;	The Role of Energetic Cost in the Age-Related Slowing of Gait Speed	60:1811–1816, 2012 © 2012,	JAGS	EN	Article	GAIT
K4b2	2012	JeVrey M. McBride , James G. Snyder	Neuromuscular and Biomechanics Laboratory, Department of Health, Leisure and Exercise Science, Appalachian State University, Boone, NC 28607, USA	Mechanical efficiency and force–time curve variation during repetitive jumping in trained and untrained jumpers	(2012) 112:3469–3477	European Journal of Applied Physiology	En	Article	Exercise Physiology
K4b2	2012	Jingjing Wang, Stephen J Redmond, Matteo Voleno, Michael R Narayanan, Ning Wang, Sergio Cerutti and Nigel H Lovell	Graduate School of Biomedical Engineering, University of New South Wales, Sydney, NSW, 2052, Australia	Energy expenditure estimation during normal ambulation using triaxial accelerometry and barometric pressure	Physiol. Meas. 33 (2012) 1811–1830	Physiological measurement	EN	Article	Product Validation
K4b2	2012	Joana F. Reis, Francisco B. Alves, Paula M. Bruno, Veronica Vleck, Gregoire P. Millet	CIPER, Faculty of Human Kinetics, Technical University of Lisbon	Effects of aerobic fitness on oxygen uptake kinetics in heavy intensity swimming	(2012) 112:1689–1697	European Journal of Applied Physiology	EN	Article	Swimming
K4b2	2012	Johanna M. Hänggi, Lisa R.S. Phillips , Alex V. Rowlands	Swiss Federal Institute of Sport, Magglingen, Switzerland School of Sport and Health Sciences, College of Life and Environmental Sciences, University of Exeter, UK	Validation of the GT3X ActiGraph in children and comparison with the GT1M ActiGraph	(2012) <a href="http://dx.doi.org/10.1016/j.jsams.2012.05.012">dx.doi.org/10.1016/j.jsams.2012.05.012</a>	JSMS	EN	Article	Product Validation
K4b2	2012	Kieran P. Dowd, Deirdre M. Harrington, Alan E. Donnelly	Department of Physical Education and Sport Sciences, University of Limerick, Limerick, Ireland, Pennington Biomedical Research Center, Baton Rouge, Louisiana, United States of America	Criterion and Concurrent Validity of the activPALTM Professional Physical Activity Monitor in Adolescent Females	(2012) 7(10): e47633.	PLOS ONE	EN	Article	Product Validation

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K4b2	2012	Luigi Fattorini, Giancarlo Pittiglio, Bruno Federico, Anastasia Pallicca, Marco Bernardi, and Angelo Rodio	Department of Physiology and Pharmacology "V. Erspamer," Sapienza University of Rome, Rome, Italy; and Department of Sport and Health Sciences, University of Cassino, Cassino, Italy	Workload comparison between hiking and indoor physical activity	26(10)/2883–2889 Volume 26, Number 10 October 2012	Journal of Strength and Conditioning Research	En	Article	Walking
K4b2	2012	Maria Francesca Piacentini, Attilio Parisi, Nicole Verticchio, Stefania Comotto, Romain Meeusen, Laura Capranica, F.	Department of Human Movement and Sport Sciences University of Rome "Foro Italico", Rome, Italy Department of Human Physiology and Sportsmedicine, Vrije Universiteit Brussel, Brussels, Belgium	No changes in time trial performance of master endurance athletes after 4 weeks on a low carbohydrate diet	(2012) 8:51–58	Sport Science Health	EN	Article	Running
K4b2	2012	Michael J. Stec and Eric S. Rawson	Department of Exercise Science, Bloomsburg University, Bloomsburg, Pennsylvania	Estimation of Resistance exercise energy expenditure using triaxial accelerometry	(2012) 26(5)/1413–1422	Journal of Strength and Conditioning Research	EN	Article	Product Validation
K4b2	2012	Nicola J. Wiles, Anne M. Haase, Debbie A. Lawlor, Andy Ness, Glyn Lewis	Academic Unit of Psychiatry, School of Social and Community Medicine, University of Bristol, Oakfield House, MRC Centre for Causal Analyses in Translational Epidemiology, School of Social and Community Medicine, University of Bristol, Bristol, UK Oakfield Grove, Bristol, UK	Physical activity and depression in adolescents: cross-sectional findings from the ALSPAC cohort	(2012) 47:1023–1033	Soc Psychiatry Psychiatr Epidemiol	EN	Article	Paediatric & Children
K4b2	2012	Nicolas Berryman, Mathieu Gayda, Anil Nigam, Martin Juneau, Louis Bherer, Laurent Bosquet	Faculte' des Sciences du Sport, Universite' de Poitiers, Poitiers, France, Departement de Kinesiologie, Universite' de Montreal, Montreal, QC	Comparison of the metabolic energy cost of overground and treadmill walking in older adults	(2012) 112:1613–1620	European Journal of Applied Physiology	EN	Article	Elderly
K4b2	2012	Nicolas Peyrot, David Thivel, Laurie Isacco, Jean-Benoit Morin, Alain Belli, and Pascale Duche	University of La Re'union, UFR SHE, Le Tampon, FRANCE	Why Does Walking Economy Improve after Weight Loss in Obese Adolescents?	2012 -DOI: 10.1249/MSS.0b013e31823e6edd8	Medicine & Science in Sports & Exercise	EN	Article	Clinical (Obesity)
K4b2	2012	Nikolaos P. E. Kadoglou, Grigorios Fotiadis, Zoi Athanasiadou, Ioulia Vitta, Stylianos Lampropoulos, Ioannis S. Vrabas,	Department of Physical Education and Sports Science, Aristotle University of Thessaloniki, Ag Ioannis, 62110 Serres, Greece, 1st Department of Internal Medicine, Department of Cardiology, "Bodosakio" General Hospital of Ptolemaida, Ptolemaida, Greece "Hippokratio" General Hospital of Thessaloniki, Thessaloniki, Greece	The effects of resistance training on ApoB/ApoA-I ratio, Lp(a) and inflammatory markers in patients with type 2 diabetes	DOI 10.1007/s12020-012-9650-y	Endocrine	En	Article	Clinical (Diabetes)
K4b2	2012	P. M. Leprêtre, T. Weissland, C. Paton, M. Jeanne, S. Delannaud, S. Ahmaidi	Laboratoire de Recherche Adaptations Physiologiques à l'Exercice et Réadaptation à l'Effort - Université de Picardie Jules Verne campus universitaire Le baillay AMIENS France	Comparison of 2 Portable Respiratory Gas Analysers	2012; 33: 728–733	Int J Sports Med	EN	Article	Validation
K4b2	2012	R.K. Mohanty, P. Lenka, A. Equebal, R. Kumar	National Institute for the Orthopedically Handicapped (NIOH), B T Road, Bon Hooghly, Kolkata 700090, India	Comparison of energy cost in transtibial amputees using "prosthesis" and "crutches without prosthesis" for walking activities	55 (2012) 252–262	Annals of Physical and Rehabilitation Medicine	EN/FR	Article	Disabled
K4b2	2012	Rai B, Kaur J, Foing BH	Simulated Microgravity and Human Body, JBR Institute of Health Education Research and Technology, India	Stress, Workload and Physiology Demand During Extravehicular Activity: A Pilot Study	2012 Jun;4(6):266-9	N Am J Med Sci.	EN	Article	Space
K4b2	2012	Ramdane Almansba, Andree-Anne A. parent, Jean P. Boucher, Alain S. Comtois	University of Quebec in Montreal Canada	Oxygen uptake and cardiopulmonary demands of world class judoists performing the Uchikomi Fitness test	2012	ACSM	EN	Abstract	Combat Sports
K4b2	2012	Romulo Bertuzzi, Emerson Franchini, Valmor Tricoli, Adriano E. Lima-Silva, Flavio De Oliveira Pires, Nilo Okuno, and Maria APDM Kiss	Department of Sport, School of Physical Education and Sport, University of Sao Paulo, Sao Paulo, Brazil	Fit-climbing test: A field test for indoor rock climbing	(2012) 26(6)/1558–1563	Journal of Strength and Conditioning Research	EN	Article	Climbing
K4b2	2012	Roy J. Shephard, Yukitoshi Aoyagi	Faculty of Physical Education and Health, University of Toronto, Toronto, ON, Canada, Exercise Sciences Research Group, Tokyo Metropolitan Institute of Gerontology, Itabashi, Tokyo, Japan	Measurement of human energy expenditure, with particular reference to field studies: an historical perspective	(2012) 112:2785–2815	European Journal of Applied Physiology	En	Article	Exercise Physiology
K4b2	2012	Scott E. Crouter, Magdalene Horton, and David R. Bassett JR	University of Massachusetts Boston, Boston, MA; and The University of Tennessee, Knoxville, TN	Use of a Two-Regression Model for Estimating Energy Expenditure in Children	0195-9131/12/4406-1177/0	Medicine & Science in Sports & Exercise	EN	Article	Paediatric & Children
K4b2	2012	Scott E. Crouter, Magdalene Horton, David R. Bassett	University of Massachusetts Boston, Boston, MA	Use of a Two-Regression Model for Estimating Energy expenditure in Children	(2012) DOI: 10.1249/MSS.0b013e3182447825	Medicine & Science in Sports & Exercise	EN	Article	Paediatric & Children
K4b2	2012	Sharon S. Chiou, Nina Turner, Joyce Zwiener, Darlene L. Weaver and William E. Haskell	Division of Safety Research, National Institute for Occupational Safety and Health, 1095 Willowdale Rd. G800, Morgantown, WV 26505	Effect of Boot Weight and Sole Flexibility on Gait and Physiological Responses of Firefighters in Stepping Over Obstacles	2012 54: 373 originally DOI: 10.1177/0018720811433464 (2012)	The Journal of the Human Factors and Ergonomics Society	EN	Article	Firefighter
K4b2	2012	Smallwood SR, Morris MM, Fallows SJ, Buckley JP	Department of Clinical Science, University of Chester, Chester, England.	Physiologic responses and energy expenditure of Kinect active video game play in schoolchildren	2012 Nov;166(11):1005-9	Arch Pediatr Adolesc Med.	EN	Article	Computer Games
K4b2	2012	T. Ahler · M. Bendiksen · P. Krstrup · N. Wedderkopp	Department of Physiotherapy, University College Lillebaelt, Blandstedgårdsvej, Odense, Denmark. Department of Exercise and Sport Sciences, University of Copenhagen, Copenhagen, Denmark, Centre for Research in Childhood Health, University of Southern Denmark, Odense, Denmark	Aerobic Wtness testing in 6- to 9-year-old children: reliability and validity of a modiWed Yo–Yo IR1 test and the Andersen test	DOI 10.1007/s00421-011-2039-4	European Journal of Applied Physiology	En	Article	Paediatric & Children

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K4b2	2012	Thiago Teixeira Mendes, Tatiana Ramos Fonseca, Guilherme Passos Ramos, Carolina Franco Wilke, Christian Emmanuel Torres Cabido, Cristiano Lino Monteiro De Barros Andre´ Maia Lima, Lucas de A´vila Carvalho Fleury Mortimer, Moise´s Vieira de Carvalho Mauro Martins Teixeira, Nilo Resende Viana Lima, Emerson Silami Garcia,	Laboratory of Exercise Physiology, Federal University of Minas Gerais, Belo Horizonte, Brazil	Six weeks of aerobic training improves VO2max and MLSS but does not improve the time to fatigue at the MLSS	(Oct-2012) DOI 10.1007/s00421-012-2501-y	European Journal of Applied Physiology	En	Article	Exercise Physiology
K4b2	2012	Véronique Billat, Héliène Petot, Jason R. Karp, Guillaume Sarre, R. Hugh Morton & Laurence Mille-Hamard	University Genopole Evry, ZAC Bras de Fer, Evry, France, School of Sport and Exercise, Massey University, Palmerston North, New Zealand	The sustainability of VO2max: effect of decreasing the workload	2012-1 DOI 10.1007/s00421-012-2424-7	European Journal of Applied Physiology	En	Article	Exercise Physiology
K4b2	2012	Won Hyuk Chang, Min Su Kim, Jung Phil Huh, Peter K. W. Lee and Yun-Hee Kim	Department of Physical Medicine and Rehabilitation, Division for Neurorehabilitation, Stroke and Cerebrovascular Center, Samsung Medical Center, Sungkyunkwan University School of Medicine, Republic of Korea	Effects of Robot-Assisted Gait Training on Cardiopulmonary Fitness in Subacute Stroke Patients : A Randomized Controlled Study	2012 26: 318	Neurorehabilitation and Neural Repair	En	Article	Gait
K4b2	2012	Yann Le Meur, Sylvain Dorel, Yann Baup, Jean Pierre Guyomarch, Christian Roudaut, Christophe Hausswirth,	Research Department, National Institute of Sport, Expertise and Performance, 75012 Paris, France	Physiological demand and pacing strategy during the new combined event in elite pentathletes	(2012) 112:2583–2593	European Journal of Applied Physiology	EN	Article	Combined events
K4b2	2011	A.G. Goachet, J. Fortier, V. Julliard, H. Assadi, R. Lepers	Faculté des Sciences du Sport, Université de Bourgogne, Dijon, France	The use of equine K4b2 during incremental field exercise tests in driven Standardbred trotters: a preliminary study	(2011) 11-15 octobre, Paris, France. 221-226	Proceedings of the Equine Nutrition and Training Symposium	EN	Abstract	Equine
K4b2	2011	Ana Sousa, Pedro Figueiredo, Kari L. Keskinen, Ferran A. Rodriguez, Leandro Machado, João P. Vilas-Boas, Ricardo J. Fernandes	Centre of Research, Education, Innovation and Intervention in Sport, Faculty of Sport, University of Porto, Portugal	VO2 off transient kinetics in extreme intensity swimming	(2011) 10, 546-552	Journal of Sports Science and Medicine	EN	Article	Swimming
K4b2	2011	Babak Farzad, Reza Gharakhanlou, Hamid Agha-Alinejad, David G. Curby, Mahdi Bayati, Morteza Bahraminejad, and Jarek Maestu	Department of Physical Education and Sports Sciences, School of Humanity Sciences, Tarbiat Modares University, Tehran, Iran	Physiological and performance changes from the addition of a sprint interval program to wrestling training	(2011) 25(9)/2392–2399	Journal of Strength and Conditioning Research	EN	Article	Combat Sports
K4b2	2011	Barbara E. Shykoff, Dan E. Warkander	Navy Experimental Diving Unit, 321 Bullfinch Rd., Panama City, FL 32407, USA	Physiologically acceptable resistance of an air purifying respirator	2011 - Vol. 54, No. 12, December 2011, 1186–1196	Ergonomics	En	Article	Product Validation
K4b2	2011	Bruce W. Bailey, Kyle McInnis	Department of Exercise Sciences, Brigham Young University, Provo, Utah	Energy Cost of Exergaming. A Comparison of the Energy Cost of 6 Forms of Exergaming	July 2011, Vol 165, No. 7	JAMA Pediatrics	EN	Article	Computer Games
K4b2	2011	Carlo Baldari, Laura Guidetti and Marco Meucci	Exercise and Sport Sciences Unit, Department of Health Sciences, University of Rome "Foro Italico", Rome, Italy	Measuring energy expenditure in swimming to assess gross mechanical efficiency	11 (Suppl. 3), 2011	Portuguese Journal of Sport Sciences	EN	Article	Swimming
K4b2	2011	Carmen Marten-Ellis Graves	Massachusetts Institute of Technology	Design of a Biomechanically Synergistic Exotendon Suit	2011		EN	Dissertation	Ergonomics
K4b2	2011	Flavio O. Pires, John Hammond, Adriano E. Lima-Silva, Romulo C. M. Bertuzzi, and Maria Augusta P. D. M. Kiss	School of Physical Education and Sport, University of Sa'o Paulo, Brazil	Ventilation behavior during upper-body incremental exercise	(2011) 25(1)/225–230	Journal of Strength and Conditioning Research	EN	Article	Conditioning
K4b2	2011	Florent Botton, Christophe Hautier and Jean-Paul Eclache	Center for Research and Innovation in Sport, Lyon University, France	Energy expenditure during tennis play: A preliminary video analysis and metabolic model approach	(2011) 25(11)/3022–3028	Journal of Strength and Conditioning Research	EN	Article	Tennis
K4b2	2011	G. Valli, A. Cogo, C. Passino, D. Bonardi, G. Morici, V. Fasano, M. Agnesi, L. Bernardi, A.M. Ferrazza, S.A. Ward, P. Palange	Department of Clinical Medicine, University of Rome "La Sapienza" Rome, Italy	Exercise intolerance at high altitude (5050 m): Critical power and W	177 (2011) 333– 341	Respiratory Physiology & Neurobiology	EN	Article	Altitude
K4b2	2011	Giuseppe Rabita, Jean Slawinski, Olivier Girard, Frank Bignet, and Christophe Hausswirth	Research Department, National Institute of Sport, Expertise and Performance, INSEP, Paris, FRANCE; Team Lagarde re, Stade Paris Jean-Bouin, Paris, FRANCE; ASPETAR, Research and Education Center, Doha, QATAR; and French Federation of Triathlon, La Plaine Saint-Denis, FRANCE	Spring–Mass Behavior during Exhaustive Run at Constant Velocity in Elite Triathletes	0195-9131/11/4304-0685/0	Medicine & Science in Sports & Exercise	EN	Article	Combined events
K4b2	2011	J. Theurel, M. Crepin, M. Foissac, J. J. Temprado	Institute of Movement Sciences E-J Marey, UMR CNRS 6233, Aix-Marseille University, Parc Scientifique et Technologique de Luminy, Marseille, France, 2INSERM U887 ratory, Faculty of Sport Sciences, University of Bourgogne, Dijon, France, 3Oxylane Research, Villeneuve d'Ascq cedex, France	Effects of different pedalling techniques on muscle fatigue and mechanical efficiency during prolonged cycling	2011 John Wiley & Sons A/S doi: 10.1111/j.1600-0838.2011.01313.x 2012: 22: 714–721	Scand J Med Sci Sports	EN	Article	Cycling
K4b2	2011	John P. Abt, Timothy C. Sell, Yungchien Chu, Mita Lovalekar, Ray G. Burdett, and Scott M. Lephart	Neuromuscular Research Laboratory, Department of Sports Medicine and Nutrition, University of Pittsburgh, Pittsburgh, PA	Running kinematics and shock absorption do not change after brief exhaustive running	(2011) 25(6)/1479–1485	Journal of Strength and Conditioning Research	EN	Article	Running

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K4b2	2011	Kenneth Conroy, Gregory May, Mark Roantree, Giles Warrington, Sarah Jane Cullen, and Adrian McGoldrick	CLARITY: Centre for Sensor Web Technologies Interoperable Systems Group, School of Computing School of Health & Human Performance, Dublin City University, Dublin, Ireland, The Turf Club, The Curragh, Co. Kildare, Ireland	Knowledge Acquisition from Sensor Data in an Equine Environment	2011		EN	Article	Equine
K4b2	2011	Krzysztof Durkalec-Michalski, Jan Jeszka	Department of Hygiene and Human Nutrition, University of Life Sciences in Poznań, Poland	Assessment of aerobic efficiency and state of nutrition in a selected group of Polish athletes practicing Brazilian jiu-jitsu	2011	7th EFSMA	EN	Abstract	Combat Sports
K4b2	2011	M. Kathleen Thornton, Stephen J. Rossi, and Jim L. McMillan	Department of Health and Kinesiology, Georgia Southern University, Statesboro, Georgia	Comparison of two different resistance training intensities on excess post-exercise oxygen consumption in African American women who are overweight	(2011) 25(2)/489–496	Journal of Strength and Conditioning Research	EN	Article	Exercise Physiology
K4b2	2011	Martin Burtscher, Werner Nachbauer, Randall Wilber	Department of Sport Science, Medical Section, University of Innsbruck, Fu rstenweg 185, 6020 Innsbruck, Austria	The upper limit of aerobic power in humans	(2011) 111:2625–2628	European Journal of Applied Physiology	En	Article	Exercise Physiology
K4b2	2011	Mitja Gerzevic, Vojko Strojnik, and Tomaz Jarm	Laboratory for Kinesiology and Laboratory for Sports Physiology, Faculty of Sport, University of Ljubljana, Ljubljana, Slovenia	Differences in muscle activation between submaximal and maximal 6-minute rowing tests	(2011) 25(9)/2470–2481	Journal of Strength and Conditioning Research	EN	Article	Rowing
K4b2	2011	Norcross, Jason R., Gernhardt, Michael L	(Wyle Integrated Science and Engineering Group, Houston, TX, United States	Selecting Tasks for Evaluating Human Performance as a Function of Gravity	2011	18th IAA Humans in Space Symposium	EN	Paper	Space
K4b2	2011	Norton L. Oliveira and Jose Oliveira	Research Center in Physical Activity, Health and Leisure (CIAFEL), Faculty of Sport, University of Porto, Porto, Portugal	Excess postexercise oxygen consumption is unaffected by the resistance and aerobic exercise order in an exercise session	(2011) 25(10)/2843–2850	Journal of Strength and Conditioning Research	EN	Article	Exercise Physiology
K4b2	2011	Nubia C.P. Avelar, Adriano P. Simao, Rosalina Tossige-Gomes, Camila D.C. Neves, Bruno Mezenzio, Leszek Szmuchowski, Candido C. Coimbra, and Ana C.R. Lacerda	1Exercise Physiology Laboratory, Healthy and Biological Sciences Faculty, Federal University of the Jequitinhonha and Mucuri Valleys, Diamantina, Minas Gerais/Brazil	Oxygen consumption and heart rate during repeated squatting exercises with or without whole body vibration in the elderly	(2011) 25(12)/3495–3500	Journal of Strength and Conditioning Research	EN	Article	Elderly
K4b2	2011	Olivier Castagna, Jeanick Brisswalter, Nicolas Vallee, Jean-Eric Blatteau	Biomedical Research Institute of the Army (IRBA), Naval Medical Institute (IMNSSA-Toulon), Departments of Operational Environment and Marine and Underwater research, Toulon, France	Endurance exercise immediately before sea diving reduces bubble formation in scuba divers	(2011) 111:1047–1054	European Journal of Applied Physiology	En	Article	Diving
K4b2	2011	Robert G. McMurray, Kristin S. Ondrak	Department of Exercise and Sport Science, University of North Carolina, USA,	Effects of being overweight on ventilatory dynamics of youth at rest and during exercise	(2011) 111:285–292	European Journal of Applied Physiology	EN	Article	Clinical (Obesity)
K4b2	2011	Ruth England, Matthew Maddocks, Cathann Manderson, Andrew Wilcock	Department of Palliative Medicine, Nottingham University UK	Factors influencing exercise performance in thoracic cancer	(2012) 106, 294e299	Respiratory Medicine	EN	Article	Clinical (Cancer)
K4b2	2011	Scott E. Crouter, Diane M. Della Valle, Magdalene Horton, Jere D. Haas, Edward A. Frongillo, David R. Bassett Jr	University of Tennessee, Knoxville (USA)	Validity of the actical for estimating fee-living physical activity	(2011) 111:1381-1389	European Journal of Applied Physiology	EN	Article	Product Validation
K4b2	2011	Sergio G. Dasilva, Laura Guidettil, Cosme F. Buzzachera, Hassan M. Elsangedy, Kleverton Krinski, Wagner De Campos, Fredric L. Goss, and Carlo Baldari	1Department of Physical Education, Federal University of Parana, Curitiba, Brazil	Gender based differences in substrate use during exercise at a self-selected pace	(2011) 25(9)/2544–2551	Journal of Strength and Conditioning Research	EN	Article	Exercise Physiology
K4b2	2011	Stefano Lazzar, Luca Plaino, Guglielmo Antonutto	Department of Biomedical Sciences and Technologies, University of Udine, Udine, Italy, School of Sport Sciences, University of Udine, Udine, Italy MATI (Microgravity, Ageing, Training, Immobility) Center of Excellence, University of Udine, Udine, Italy	The energetics of cycling on Earth, Moon and Mars	(2011) 111:357–366	European Journal of Applied Physiology	En	Article	Space
K4b2	2011	Swartz AM, Squires L, Strath SJ	Physical Activity and Health Research Laboratory, Department of Human Movement Sciences, University of Wisconsin-Milwaukee, USA	Energy expenditure of interruptions to sedentary behavior	2011 Jun 27;8:69	Int J Behav Nutr Phys Act.	EN	Article	Exercise Physiology
K4b2	2011	Virginie Felizardo, Pedro Dinis Gaspar, Nuno M. Garcia, Victor Reis	University of Beira Interior, Portugal, University of Beira Interior, Portugal, Lusophone University of Humanities and Technologies (ULHT) and Telecommunications Institute, Covilhã, Portugal, Research Centre for Sports, Health & Human Development, Portugal	Acquisition of Multiple Physiological Parameters During Physical Exercise	2011- DOI: 10.4018/jehmc.2011100103	International Journal of E-Health and Medical Communications	En	Article	Exercise Physiology
K4b2	2010	Adriano E. Lima-Silva, Romulo C. M. Bertuzzi, Flavio O. Pires, Ronaldo V. Barros, Joa o F. Gagliardi, John Hammond, Maria A. Kiss, David J. Bishop	Laboratory of Energetic Determinants to Sport Performance, University of Sao Paulo, Sao Paulo, Brazil	Effect of performance level on pacing strategy during a 10-km running race	(2010) 108:1045–1053	European Journal of Applied Physiology	EN	Article	Running
K4b2	2010	Anne M. May, Ellen van Weert, Irene Korstjens, Josette E. Hoekstra-Weebbers, Cees P. van der Schans, Maria L. Zonderland, Ilse Mesters, Bart van den Borne, Wynand J. Ros	University Medical Centre Utrecht, Utrecht University, Utrecht, the Netherlands	Monitoring Training Progress During Exercise Training in Cancer Survivors	Vol 91, March 2010	Arch Phys Med Rehabil	EN	Article	Clinical (Cancer)
K4b2	2010	Antonio Buglione, Stefano Lazzar, Roberto Colli, Elisabetta Introrini, Pietro Enrico di Prampero	Human Performance and Training Lab "Carmelo Bosco", Universita' degli Studi di Roma "Tor Vergata",	Energetics of Best Performances in Elite Kayakers and Canoeists	2010 -DOI: 10.1249/MSS.0b013e3181fdfdb7	Medicine & Science in Sports & Exercise	EN	Article	Rowing



Product	Year	Author	Institute	Title	Ref.	Journal/Meeting	Lang	Format	Topic
K4b2	2010	C. Galvani, I. Annoni, D. Savi, S. Boniello, M. Mondoni, M. Faina	Lab Fisiologia Applicata, Università cattolica Sacro Cuore, Milano, Italy	Excess postexercise oxygen consumption after three different moderate aerobic exercises	Vol 50 - Sept 2010	J Sports Med & Physical Fitness	EN	Poster	Exercise Physiology
K4b2	2010	C. Raffaelli, M. Lanza, L. Zanolla, P. Zamparo	Department of Neurological and Visual Sciences, Faculty of Exercise and Sport Sciences, University of Verona, Verona, Italy, Cardiology Department, University of Verona, Ospedale Civile Maggiore, Verona, Italy	Exercise intensity of head-out water-based activities (water fitness)	Eur J Appl Physiol (2010) 109:829–838 DOI 10.1007/s00421-010-1419-5	European Journal of Applied Physiology	En	Article	Water based activities
K4b2	2010	Denine Kristen Ellis	Department of Rehabilitation Sciences c.p. Biomedical Engineering University of Toronto	Investigating the Relationship between Stride Interval Dynamics, the Energy Cost of Walking, and Physical Activity Levels in a Pediatric Population	2010		EN	Dissertation	Paediatric & Children
K4b2	2010	Denine Kristen Ellis	Graduate Department of Rehabilitation Sciences c.p. Biomedical Engineering University of Toronto	Investigating the Relationship between Stride Interval Dynamics, the Energy Cost of Walking, and Physical Activity Levels in a Pediatric Population	2010		EN	Thesis	Paediatric & Children
K4b2	2010	E Collins , WE Langbein, K Williams, C Maloney, B Nemchousky	Hines VA Hospital, Hines, IL-USA, Department of Veterans Affairs, Veterans Health Administration, Rehabilitation Research and Development Service	Energy cost of selected physical activities in persons with Spinal Cord Injury	2010	Medicine & Science in Sports & Exercise	EN	Article	GAIT
K4b2	2010	F.Cottin, N.Metayer, A.G. Goacher, V.Julliard, J. Slawinski, V. Billat, E. Barrey	Unite de Biologie Integrative des Adaptions a L'Exercice	Oxygen consumption and gait variables of Arabian endurance horses measured during a field exercise test	(2010) 42 (s1)	Equine Veterinary Journal	EN	Article	Equine
K4b2	2010	F.O. Pires , A. E. Lima-Silva1 , J. Hammond , E. Franchini , M. A. P. Dal ' Molin Kiss , R. Bertuzzi	University of Sã o Paulo, School of Physical Education and Sports, Sã o Paulo, Brazil	Aerobic Profile of Climbers During Maximal Arm Test	2010; 31: 1 – 4	International Journal of Sport Medicine	EN	Article	Climbing
K4b2	2010	Fairley JA, Sejdíć E, Chau T.	Bloorview Research Institute, Bloorview Kids Rehab, Toronto, Ontario, Canada	Investigating the correlation between paediatric stride interval persistence and gross energy expenditure	2010 Feb 26;3:47	BMC Res Notes.	EN	Article	Exercise Physiology
K4b2	2010	Flavio O. Pires, John Hammond, Adriano E. Lima-Silva, Romulo C. M. Bertuzzi, and Maria Augusta P. D. M. KISS	School of Physical Education and Sport, University of Sa'o Paulo, Brazil	Ventilation behaviour during upperbody incremental exercise	2010 (0)/1–6	Journal of Strength and Conditioning Research	EN	Article	Exercise Physiology
K4b2	2010	J. A. Schrack, E. M. Simonsick, L. Ferrucci	Longitudinal Studies Section, Clinical Research Branch, National Institute on Aging, National Institutes of Health, Baltimore, Maryland, USA, Center on Aging and Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland, USA	Comparison of the Cosmed K4b2 Portable Metabolic System in Measuring Steady-State Walking Energy Expenditure	February 2010, Volume 5, Issue 2 , e9292	PLOS ONE	EN	Article	Validation
K4b2	2010	Jennifer A. Schrack, MS, Eleanor M. Simonsick, PhD, and Luigi Ferrucci, MDPH,D,	Center on Aging and Health, Johns Hopkins Bloomberg School of Public Health, Baltimore	The Energetic Pathway to Mobility Loss: An Emerging New Framework for Longitudinal Studies on Aging	2010 October ; 58(Suppl 2): S329–S336.	J Am Geriatr Soc.	EN	Article	Elderly
K4b2	2010	Joana F. Reis, Gregoire P. Millet, Davide Malatesta, Belle Roels, Fabio Borrani, Veronica E. Vleck and Francisco B. Alves	Department of Sport Sciences, Faculty of Human Kinetics, Technical University of Lisbon, Portugal	Are Oxygen Uptake Kinetics Modified When Using a Respiratory Snorkel?	2010, 5, 292-300	International Journal of Sports Physiology and Performance	EN	Article	Aquatrainer validation
K4b2	2010	Jun-ichi Kasai, Ohta Akira, Jung Tae Eung and Takeshi Mori	Department of Sports Sciences, Waseda University, Japan, Nippon Sport Science University, Japan	Research on table tennis player's cardio-respiratory endurance	No.6(2010)	International Journal of Table Tennis Sciences	EN	Abstract	Tennis
K4b2	2010	K. Hatakeyama, Y. Shimada, K. Kato, M. Sato, T. Matsunaga, S.Chida, A Misawa, A Ando, T. Minato, K. Iizuka	Rehabilitation Division, Akita university Hospital, Akita Japan	Comparisons of energy expenditure during gait using the walkabout and the primwalk in paraplegia	1-1-1 Hondo Akita 010-8543, Japan	Japanese Journal of Comprehensive Rehabilitation Science	EN	Abstract	GAIT
K4b2	2010	L. Seifert , J. Komar , P. M. Lepr é tre , F. Lemaître , F. Chavallard , M. Albery , N. Houel , C. Hausswirth, D. Chollet , P. Hellard	Faculty of Sport Sciences CETAPS UPRES, Mont Saint Aignan, France	Swim Specialty Affects Energy Cost and Motor Organization	2010; 31: 624– 630	International Journal of Sport Medicine	EN	Article	Swimming
K4b2	2010	M. Gruet, J. Brisswater, L. Mely, J.M. Vallier	Laboratoire HandiBio, Université du sud Toulon-Var, France	Clinical utility of the oxygen uptake efficiency slope in cystic fibrosis patients	9 (2010) 307–313	Journal of Cystic Fibrosis	EN	Article	Clinical (Cystic Fibrosis)
K4b2	2010	Mathieu Gayda, Martin Juneau, Thibaut Guiraud, Jean Lambert, Anil Nigam, MD	Montreal Heart Institute, Montreal, Quebec, Canada	Optimization and Reliability of a Deep Water Running Test in Healthy Adults Older than 45 Years	Vol. XX, No. X, XXX 2010	Am. J. Phys. Med. Rehabil.	EN	Article	Elderly
K4b2	2010	Miyoun Lee, Ph.D. Weimo Zhu, Ph.D., FACSM, Brad Hedrick, Ph.D, Bo Fernhall, Ph.D., FACSM,	Oregon State University University of Illinois at Urbana-Champaign	Estimating MET Values Using the Ratio of Heart Rate	2010- DOI: 10.1249/MSS.0b013e3181c0652b	Medicine & Science in Sports & Exercise	EN	Article	Exercise Physiology
K4b2	2010	Narváez P.G.E.; Narváez A.G.E; Drouet S.S; Santelices P.R. and Moncayo F.P.	Centro Olimpico de Alto Rendimiento. Comité Olímpico Ecuatoriano. Guayaquil – Ecuador	Functional Outcome at Sea Level vs. Moderate Altitude (2500 m) in Race Walk.	(June 2010)	US Kinesiology Congress	EN	Poster	Altitude
K4b2	2010	Parvaneh Nazar Ali, Parichehr Hanachi, Najmeh Rezaei Nejad	Faculty of Sport Science, Alzahra University, Tehran Iran, Faculty of Basic Science, Biology Department, Biochemistry unite, Alzahra University, Tehran Iran, Faculty of Sport Science, Alzahra University, Tehran Iran	The Relation of Body Fats, Anthropometric Factor and Physiological Functions of Iranian Female National Judo Team	Vol. 4, No. 6; June 2010	Modern Applied Science	EN	Abstract	Combat Sports
K4b2	2010	R. C. M. Bertuzzi, E. Franchini, C. Ugrinowitsch, E. Kokubun, A. E. Lima-Silva, F. O. Pires, F. Y. Nakamura, M. A. P. D. M. Kiss	University of Sã o Paulo, School of Physical Education and Sport, Sã o Paulo, Brazil	Predicting MAOD Using Only a Supramaximal Exhaustive Test	2010; 31: 477 – 481	International Journal of Sport Medicine	EN	Article	Exercise Physiology
K4b2	2010	Reis VM, Marinho DA, Policarpo FB, Carneiro AL, Baldari C, Silva AJ.	Department of Sport Sciences, Exercise and Health, University of Trás-os-Montes and Alto Douro, Vila Real, Portugal.	Examining accumulated oxygen deficit method in crawl swimming	2010 Jun;31(6):421-7	International Journal of Sport Medicine	EN	Abstract	Swimming

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K4b2	2010	Rômulo Cássio de Moraes Bertuzzi, Adriano Eduardo Lima Silva, Flávio de Oliveira Pires, Maria Augusta Peduti Dal' Molin Kiss	Escola de Educação Física e Esporte da Universidade de São Paulo, São Paulo	Visual Determination of the Fast Component of Excessive Oxygen Uptake After Exercise	Vol. 16, No 2 – Mar/Abr, 2010	Revista Brasileira de Medicina do Esporte	PT	Article	Exercise Physiology
K4b2	2010	Santanasto, Adam J.; Glynn, Nancy W.; Taylor, Christopher A.; Newman, Mark A.; Newman, Anne B.; Goodpaster, Bret H.	University of Pittsburgh, Pittsburgh, PA.	Validation of Energy Expenditure Using a Multisensor Body Monitor in Older Adults	May 2010 - Volume 42 - Issue 5 - p 480	Medicine & Science in Sports & Exercise	EN	Poster	Product Validation
K4b2	2010	Scott E. Crouter, Erin Kuffel, Jere D. Haas, Edward A. Frongillo and David R. Bassett JR.	University of Massachusetts Boston	Refined Two-Regression Model for the ActiGraph Accelerometer	Sep 2009 - 0195-9131/10/4205-1029/0	Medicine & Science in Sports & Exercise	EN	Article	Product Validation
K4b2	2010	T. M. Barbosa, V. F. Sousa, A. J. Silva, V.M. Reis, D. A. Marinho, J. Bragada,	Department of Sports Sciences, Polytechnic Institute of Bragança, Bragança, Portugal University of Trás-os-Montes and Alto Douro, Vila Real, Portugal, University of Beira Interior, Covilhã, Portugal Research Centre in Sport, Health and Human Development, Vila Real, Portugal	Effects Of Musical Cadence In The Acute Physiological Adaptations To Head-Out Aquatic Exercises	2010 24(1)/244-250	JSCR	EN	Article	Water based activities
K4b2	2010	T.M. Barbosa, J.A Bragada, V. M. Reis, D. A. Marinho, C. Carvalho, A.J. Silva	Polytechnic Institute of Bragança, Bragança, Portugal University of Trás-os-Montes and Alto Douro, Vila Real, Portugal University of Beira Interior, Covilhã, Portugal Higher Institute of Maia, Maia, Portugal Research Centre in Sport, Health and Human Development, Vila Real, Portugal	Energetics and biomechanics as determining factors of swimming performance: updating the state of the art	2010 Mar;13(2):262-9	JSAMS	EN	Abstract	Swimming
K4b2	2010	Tiago Barbosa · António José Silva, António Malvas Reis · Mário Costa · Nuno Garrido · Fernando Policarpo · Victor Machado Reis,	Department of Sports Sciences, Polytechnic Institute of Bragança, Bragança, Portugal	Kinematical changes in swimming front Crawl and Breaststroke with the AquaTrainer® snorkel	(2010) 109:1155-1162	European Journal of Applied Physiology	En	Article	Swimming
K4b2	2010	V. Z. Dourado, M. C. Banov, M. C. Marino, V. L. de Souza, L. C. de O. Antunes, M. A. McBurnie	Federal University of São Paulo, Department of Health Sciences	A simple approach to assess VT during a field walk test	10.1055/s-0030-1255110 2010	International Journal of Sport Medicine	EN	Article	Exercise Physiology
K4b2	2010	Victor Machado Reis, Daniel Almeida Marinho, Fernando Policarpo Barbosa, António Malvas Reis, Laura Guidetti, Antonio Jose´ Silva	University of Trás-os-Montes and Alto Douro (UTAD)	Examining the accumulated oxygen deficit method in breaststroke swimming	(2010) 109:1129-1135 DOI 10.1007/s00421-010-1460-4	European Journal of Applied Physiology	EN	Article	Swimming
K4b2	2009	Alexandra M. Rodrigues, Isa P. Cintra, Luana C. Santos, Ligia A. Martini, Marco T. Mello, Mauro Fisberg	Departamento de Pediatria, Universidade Federal de São Paulo (UNIFESP), São Paulo, Brasil	Bone mineral density, body composition, and food intake of adolescent runaway models	2009;85(6): 503-508:	Jornal de Pediatria	EN	Article	Paediatric & Children
K4b2	2009	E.S.Rawson, FACSM, T. M. Walsh	Bloomsburg University, Bloomsburg, PA	Estimation Of Energy Expenditure During Resistance Training Using Accelerometry	2009	American College of Sports Medicine.	EN		Product Validation
K4b2	2009	Eileen G. Collins, David Gater, Jenny Kiratli, Jolene Butler, Karla Hanson and W. Ewing Langbein	Center for Management of Complex Chronic Care	Energy Cost of Physical Activities in Persons with Spinal Cord Injury	Aug 2009 - 0195-9131/10/4204-0691/0	Medicine & Science in Sports & Exercise	EN	Article	GAIT
K4b2	2009	F. Alves, J Reis, V Vleck, P. Bruno, G. Millet	Faculty Human Kinetics, Lisbon Portugal, University of Westminster London UK, University of Lausanne, Lausanne, Switzerland	Oxygen Uptake Kinetics In Heavy Intensity Exercise And Endurance Performance In Swimmers	2009		En		Swimming
K4b2	2009	F. Vercruyssen, N. Blin ,D. L'Huillier J. Brisswalter,	Laboratoire Handibio, groupe "Mouvement altere" et efficience energetique", UFR STAPS, Universite´ de Toulon-Var La Garde Cedex, France, Direction, D. L'Huillier DLS Kiteboarding Company et partementale et regionale de Paris, Ile de France,	Assessment of physiological demand in kitesurfing	(2009) 105:103-109	European Journal of Applied Physiology	En	Article	Windsurf
K4b2	2009	F. Whittom, O.D. Roy, F. Bouchard	Whittom et Associés Sport Performance-Technologies, Quebec, QC, Canada, Université du Québec à Montréal QC, Canada	Ice Hockey Players Skating Speed Improved By A Novel Material Skate Blade	2009	American College of Sports Medicine.	EN		Skating
K4b2	2009	Galo E. Narvaez Perez, Galo E., Narvaez Alban, Sidney Drouet S, Ricardo Chavarria	Comite Olimpico Ecuatoriano, Guayaquil, Ecuador	Functional Outcome at Sea Level vs. Moderate Altitude (2500 m) in Race Walk	10-SA-2991-2009	ACSM	EN	Abstract	Altitude
K4b2	2009	Jonathan A. Mitchell, Calum Mattocks, Andy R. Ness, Sam D. Leary, Russell R. Pate, Marsha Dowda, Steven N. Blair and Chris Riddoch	Department of Exercise Science, University of South Carolina, Columbia, South Carolina, USA; School for Health, University of Bath, Bath, UK; Department of Oral and Dental Science, University of Bristol, Bristol, UK.	Sedentary Behavior and Obesity in a Large Cohort of Children	(2009) 17, 1596-1602. doi:10.1038/oby.2009.42	Obesity	En	Article	Paediatric & Children
K4b2	2009	M. ET Willems, T. S Bond	Faculty of Sport, Education & Social Sciences, University of Chichester, College Lane, Chichester, UK	Metabolic equivalent of brisk walking and playing new generation active computer games in young-adults	13 (2): 95-98, 2009	Medicina Sportiva	EN	Article	Computer Games
K4b2	2009	M. Faina, I. Annoni, G. Senini, C.Mauri, G. Galvani	Catholic University , Milan, Italy, Italian National Olympic Committee, Rome, Italy	Excess Post-exercise Oxygen Consumption After Thirty Minutes Of Cycling Exercise And Daily Living Activities	2009	ACSM	EN		Exercise physiology
K4b2	2009	M. L. Gault, R. E. Clements, M. E. T. Willems	University of Chichester, Faculty of Sport, Education & Social Sciences College Lane, Chichester, West Sussex, UK	Effect of Wearing the Cosmed K4b2 Metabolic System on 1 Mile Walking Performance in Older Adults	21 2009, 41-48	Journal of Human Kinetics	EN	Article	Elderly

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K4b2	2009	M. Simons, E. Vanes, I. Hendriksen	TNO Quality of Life, Leiden, NL;TNO Defence, Security and Safety, Soesterberg,NL; Body@Work, Research Center Physical Activity, Work and Health, TNO-VU/VUmc, VU University Medical Center, Amsterdam,NL	Electrically Assisted Cycling: A New Mode for Meeting Physical Activity Guidelines?	(2009)0195-9131/09/4111-2097/0 MSSE	Medicine & Science in Sports & Exercise	EN	Article	Cycling
K4b2	2009	Martin Buechtel, Hani Al Haddad, Gregoire Paul Millet, Pierre Marie Lepretre, Michael Newton, Said Ahmaidi	Laboratory of Exercise Physiology and Rehabilitation, Faculty of Sport Sciences, University of Picardie Jules Verne, Amiens, France	Cardiorespiratory and cardiac autonomic responses to 30-15 intermittent fitness test in team sport players	2009 23(1)93-100	Journal of Strength and Conditioning Research	EN	Article	Sport Science
K4b2	2009	Narváez PGE, Narváez AGE, Santelices R.	Centro Olímpico de Alto Rendimiento. Comité Olímpico Ecuatoriano	Oxygen kinetics during specific intermittent work	Volume 41:5 Supplement, 2009.	Medicine & Science in Sports & Exercise	EN	Poster	Altitude
K4b2	2009	P-M. Lepretre, N.Metayer, G. Giovagnoli, E. Pagliei, E.Barrey	Faculter des Sciences du Sport, Universite de Picardie Jules Verne, Amiens, France	Comparison of analyses of respiratory gases made with the k4b2 portable and Quark laboratory analysers in 7 horses	(2009) 164	Veterinary Record	EN	Article	Equine
K4b2	2009	Ramaprabhu Vempati, Ramesh Lal Bijlani and Kishore Kumar Deepak	Department of Physiology, All India Institute of Medical Sciences, New Delhi, India	The efficacy of a comprehensive lifestyle modification programme based on yoga in the management of bronchial asthma: a randomized controlled trial	2009, 9:37 doi:10.1186/1471-2466-9-37	BMC Pulmonary Medicine	EN	Article	Yoga
K4b2	2009	Ramaprabhu Vempati, Ramesh Lal Bijlani and Kishore Kumar Deepak	Department of Physiology, All India Institute of Medical Sciences, New Delhi, India	The efficacy of a comprehensive lifestyle modification programme based on yoga in the management of bronchial asthma: a randomized controlled trial	2009, 9:37 doi:10.1186/1471-2466-9-37	BMC Pulmonary Medicine	En	Article	Yoga
K4b2	2009	S. Gallanagh, J.S. Wright, S.A. Sheriff, G. Innes, P. MacIntyre, K.Stewart, W.S. Hillis	University of Glasgow, Glasgow, Scotland, UK , Royal Alexandra Hospital, Paisley, Scotland UK , The Western Infirmary, Glasgow, Scotland, UK	Comparing the Shuttle Walk Test and Chester Step Test in Cardiac Rehabilitation Patients in Scotland	May 2009 -volume 41 , issue Supplement 1 , on page 32	Medicine & Science in Sports & Exercise	EN	Article	Clinical (Cardiovascular)
K4b2	2009	S. Slienko Thomas, C. E Buckon, M. H Schwartz, B. S Russman , M. D Sussman, M. D Aiona	Shriners Hospitals for Children (SHC), Portland, OR USA. 2 Gillette Children's Hospital Specialty, St Paul, MN USA.	Variability and minimum detectable change for walking energy efficiency variables in children with cerebral palsy	2009, 51; 615-621	Developmental Medicine & Child Neurology	EN	Article	Gait
K4b2	2009	S.E. Crouter, D.M. Della Valle, E. Kuffel, E.A. Frongillo, JD. Haas, DR Basset, FACSM	University of Massachusetts Boston, Boston MA, Cornell University Ithaca NY, Michigan State University, east Lansing MI, University of South Carolina, Columbia SC, The university of Tennessee Knoxville, Knoxville TN	Validity Of Accelerometry During Free-living Activity_ACSM2009	2009	American College of Sport Medicine	EN		Product Validation
K4b2	2009	Susan Sienko Thomas, Cathleen E Buckon, Michael H Schwartz, Barry S Russman, Michael D Sussman, Michael D Aiona	Shriners Hospitals for Children (SHC), Portland, OR USA.	Variability and minimum detectable change for walking energy efficiency variables in children with cerebral palsy	2009, 51; 615-621	Developmental Medicine & Child Neurology	EN	Article	Gait
K4b2	2009	V. L. Billat, M. Dupre´ , J.R. Karp, J.P. Koralsztein	V. L. Billat, M. Dupre´ , J. P. Koralsztein Faculty of Sport Sciences , Laboratory U902 INSERM, Genopole , University of Evry-Val, d'Essonne, Evry, France	Mountaineering experience decreases the net oxygen cost of climbing Mont Blanc	10.1007/s00421-009-1334-9	European Journal of Applied Physiology	EN	Article	Altitude
K4b2	2008	R. Di Michele	Alma Mater Studiorum Università di Bologna	Relationships between running economy and mechanics in middle-distance runners	2008	Thesis	EN	Article	Running
K4b2	2008	A. Catersano, B. Patrick, J. Grossnickle, R. Moss	Furman University Greenville S.C. USA	The effect of varying intensity on total energy expenditure during circuit weight training with equal	Volume 40 (5), May 2008p, S257	Medicine & Science in Sports & Exercise	EN	Abstract	Conditioning
K4b2	2008	Barri L Schnall, Brian S Baum, Anne M Andrews	Center for Performance and Clinical Research, Military Advanced Training Center, Walter Reed Army Medical Center, Washington, USA	Gait Characteristics of a Soldier With a Traumatic Hip Disarticulation	December 2008 Volume 88 Number 12	Physical Therapy	EN	Article	GAIT
K4b2	2008	Briand, Whittom,McCrossim, Comtois	Université du Québec à Montréal, Montréal, QC, Canada, Whittom & Associates Québec à Montréal, Montréal, QC	The effect of aerobic capacity on maintaining max skating speed on ice	Volume 40 (5), May 2008p, S393	Medicine & Science in Sports & Exercise	EN	Abstract	Skating
K4b2	2008	F. A. Rodriguez, K. L. Keskinen, M. Kusch, U. Hoffmann	Universitat de Barcelona, Institut Nacional d'Educació Física de Catalunya, Barcelona, Spain,	Validity of a Swimming Snorkel for Metabolic Testing	2008; 29: 120-128	International Journal of Sport Medicine	EN	Article	Aquatrainer validation
K4b2	2008	Fabrizio Perroni, Antonio Tessitore, Corrado Lupo, Cristina Cortis, Lamberto Cignitti, Laura Capranica	Department of Human Movement and Sport science, University of Rome, Foro Italicco (Italy)	Do Italian fire fighting recruits have an adequate physical fitness profile for fire fighting	(2008) 4:27-32	Sport Science Health	EN	Article	Firefighter
K4b2	2008	Hendriksen, Ingrid J.M.; Simons, Monique; van Es, Elaine M.; van Mechelen, Willem FACSM	TNO Quality of Life, Leiden, The Netherlands. TNO Defence, Security and Safety, Soesterberg, The Netherlands. EMGO-Institute, VU University Medical Center, Amsterdam, he Netherlands.	Electrical Assisted Cycling: Energy Expenditure, Heart Rate and Power Output	Volume 40(5) Supplement 1May 2008p S196	Medicine & Science in Sports & Exercise	EN	Article	Product Validation
K4b2	2008	Hui, Stanley Sai-Chuen, Wong Jean Woo, Kwok Timothy C.Y	Chinese University Shatin Hong Kong	Changes in resting metabolic rate from 12 weeks of Tai chi and walking exercise a randomized control tria	Volume 40 (5), May 2008p, S252	Medicine & Science in Sports & Exercise	EN	Abstract	Combat Sports
K4b2	2008	Kaminsky, Brubaker, Hanna,Lauren, Hargens,	Ball State University Muncie IN, Wake forest University, Winston Salem NC	Accuracy of energy expenditure estimates from lifecorder	Volume 40 (5), May 2008p, S201	Medicine & Science in Sports & Exercise	EN	Abstract	Product Validation
K4b2	2008	Kruckenberg , Kaminsky, Brubaker, Strath,Hargens, Hanna, Hargens	Ball State University Muncie IN, Wake forest University, Winston Salem NC, University of Wisconsin-Milwaukee, Milwaukee,WI	Accuracy of actigraph GT1M energy expenditure estimates of lifesteadyle activities	Volume 40 (5), May 2008p, S202-S203	Medicine & Science in Sports & Exercise	EN	Abstract	Product Validation
K4b2	2008	M. Bernadette, C.Potter, S. Dorgo, G.A. King	University of Texas, El Paso, El Paso, Texas	Accuracy of an armband physiological body monitor	Volume 40 (5), May 2008p, S207	Medicine & Science in Sports & Exercise	EN	Abstract	Product Validation
K4b2	2008	Marissa E Mendelsohn, Denise M Connelly, Tom J Overend, Robert J Petrella	School of Physical Therapy, The University of Western Ontario, London, Canada	Validity of Values for Metabolic Equivalents of Task During Submax All-Extremity Exercise & Reliability Exercise Responses in Frail Older Adults	Volume 88 Number 6 Jul 2008	Physical Therapy	EN	Article	Elderly

Product	Year	Author	Institute	Title	Ref.	Journal/Meeting	Lang	Format	Topic
K4b2	2008	McMurray, Ondrak, Evenson	University of North Carolina Chapel Hill, NC,	Use of heart rate and accelerometer counts to estimate energy expenditure of young children	Volume 40 (5), May 2008p, S66	Medicine & Science in Sports & Exercise	EN	Abstract	Paediatric & Children
K4b2	2008	Miller, Brown,	California State University Fullerton, CA, USA	Physiological characteristics of a professional continental cycling team during the pre-season	Volume 40 (5), May 2008p, S387	Medicine & Science in Sports & Exercise	EN	Abstract	Cycling
K4b2	2008	Narváez P.G.E.; Flores P. T.; Vargas E y Spielvogel H	Centro Olímpico de Alto Rendimiento COAR. Guayaquil – Ecuador	Physiological Responses of the Competence in Altitude	February 2008	International Symposium of Altitude Training. Sierra Nevada Spain.	EN	Article	Altitude
K4b2	2008	Norcross, Jason, Stroud, Leah C., Schaffner, Grant, Glass, Brian J., Lee, Pascal C., Jones, Jeff A., Gernhardt, Michael L.	NASA Johnson Space Center, Houston, TX, United States	The Effects of Terrain and Navigation on Human Extravehicular Activity Walkback Performance on the Moon	2008	79th Annual Scientific Meeting of the Aerospace Medical Association	EN	Paper	Space
K4b2	2008	Rodrigo, Bell, Michael, Sharratt, Hughson	University of Waterloo, Waterloo, ON Canada	Physiological demands and air management for firefighters breathing from an Scba	Volume 40 (5), May 2008p, S355	Medicine & Science in Sports & Exercise	EN	Abstract	Firefighter
K4b2	2008	Schaffner, Grant, Sharp, Carwyn, Stroud, Leah	NASA Johnson Space Center, Houston, TX, United States	Exer-Genie Exercise Device Hardware Evaluation	2008		EN	Paper	Space
K4b2	2008	T. Abel, P. Platen, S. Rojas Vega, S. Schneider and HK. Struder	Institute of Motor Control and Movement Technique, German Sport University, Cologne, Germany and Institute of Sports Medicine and Sports Nutrition, Ruhr University Bochum, Germany	Energy expenditure in ball games for wheelchair users	(2008) 46, 785–790	Spinal Cord	EN	Article	Disabled
K4b2	2008	T. M. Barbosa, R. J. Fernandes, P. Morouco and J. P. Vilas-Boas	Polytechnic Institute of Bragança, Bragança, Portugal, Faculty of Sport, University of Porto, Portugal	Predicting the intra-cyclic variation of the velocity of the centre of mass from segmental velocities in butterfly stroke: A pilot study	(2008) 7, 201-209	Journal of Sports Science and Medicine	En	Article	Swimming
K4b2	2008	T. M. Barbosa, R. J. Fernandes, K. L. Keskinen, J. P. Vilas-Boas	Research Center in Sport, Health and Human Development, Department of Sports Sciences, Polytechnic Institute of Braganca, Campus Sta. Apolonia Braganca, Portugal	The influence of stroke mechanics into energy cost of elite swimmers	2008-DOI 10.1007/s00421-008-0676-z	European Journal of Applied Physiology	EN	Article	Swimming
K4b2	2008	Villar Rodrigo, Bell, Michael, Hughson	University of Waterloo, Waterloo, ON Canada	Stair climbing while wearing a weighted vest to simulated fire fighter turnout gear and hose pack	Volume 40 (5), May 2008p, S355	Medicine & Science in Sports & Exercise	EN	Abstract	Firefighter
K4b2	2007	E. Fredrickson, R.L. Ruff, J. J. Daly	Department of Veterans Affairs, Office of Rehabilitation Research and Development,	Physiological Cost Index as a Proxy Measure for the Oxygen Cost of Gait in Stroke Patients	2007; 21; 429	Neurorehabilitation and Neural Repair	EN	Abstract	GAIT
K4b2	2007	E. Van Erck, D. Votion, D. Serteyn, T. Art	Equine Sports Medicine Center, Equine Pole, Faculty of Veterinary Medicine, University of Liège, Belgium, European Horse Centre of Mont-le-Soie, Vielsalm, Belgium	Evaluation of oxygen consumption during field exercise tests in Standardbred trotters	Volume 4 / Issue 01 / February 2007, pp 43-49	Equine and Comparative Exercise Physiology /	EN	Article	Equine
K4b2	2007	Eduardo Oliveira De Souza, Valmor Tricoli, Emerson Franchini, Anderson Caetano Paulo, Marcelo Regazzini and Carlos Ugrinowitsch	Department of Sport, School of Physical Education and Sport, University of Sa' o Paulo, Sa' o Paulo, SP, Brazil	Acute effect of two aerobic exercise modes on maximum strength and strength endurance	2007, 21(4), 1286–1290	Journal of Strength and Conditioning Research	EN	Article	Conditioning
K4b2	2007	K. Corder, S. Brage, C. Mattocks, A. Ness, C. Riddoch, N. J. Wareham and U. Ekelund	MRC Epidemiology Unit, Cambridge, UK; University of Bristol, Bristol, UK; and University of Bath, Bath, UK	Comparison of Two Methods to Assess PAEE during Six Activities in Children	2007-0195-9131/07/3912-2180/0	Medicine & Science in Sports & Exercise	EN	Article	Product Validation
K4b2	2007	L. Piccinini, V. Cimolin, M. Galli, M. Berti, M. Crivellini, A.C. Turconi	Bioengineering Department Politecnico di Milan Italy	Quantification of energy expenditure during gait in children affected by cerebral palsy	2007; 43:7-12	Europa Medicophisica	EN	Article	Gait
K4b2	2007	M. R. Zainulidin, D. Knoke, M. G. Mackey, N. Luxton, J. A. Alison	Discipline of Physiotherapy, University of Sydney, Sydney, Australia and Department of Physiotherapy, Royal Prince Alfred Hospital, Sydney, Australia	Prescribing cycle training intensity from the six-minute walk test for patients with COPD	2007, 7:9 doi:10.1186/1471-2466-7-9	BioMed Central	EN	Abstract	Clinical (COPD)
K4b2	2007	Marcello Faina	Universitary Institute of Motor Science, Rome, Italy.	A Comparison of Physiological Responses During a CPR Exercise on Treadmill and a Low Impact Aerobic Dance Lesson	May 2007 - Volume 39 - Issue 5 - p S350	Medicine & Science in Sports & Exercise	EN	Poster	Aerobics
K4b2	2007	Marco Bernardi, Giuseppe Fontana, Angelo Rodio, Andrea Madaffari, Elisabetta Bernardi, Marco Brugnoli, Marco Marchetti	Department of Human Physiology and Pharmacology, University of Rome La Sapienza, Rome.	Physiological characteristics of America's Cup sailors.	2007 Aug;25(10):1141-52	J Sports Sci	En	Article	Sailing
K4b2	2007	O. Castagna, C. Vaz Pardal, J. Brisswalter	I.M.N.S.S.A, B.P.610, 83800 Toulon Arme' es, France, Andalusian Center of Sports Medicine, San Fernando, Cadix, Spain, Laboratoire d'Ergonomie Sportive, Université' du Sud Toulon-Var, avenue de l'Université' La garde, France,	The assessment of energy demand in the new olympic windsurf board: Neilpryde RS:X	(2007) 100:247–252 DOI 10.1007/s00421-007-0403-1	European Journal of Applied Physiology	En	Article	Windsurf
K4b2	2007	T. M. Barbosa, M. F. Garrido, and J. Bragada	Department of Sports Sciences, Polytechnic Institute of Braganca, Campus Sta. Apolonia, Braganca, Portugal.	Physiological adaptations to head-out aquatic exercises with different levels of body immersion	2007, 21(4), 1255–1259	Journal of Strength and Conditioning Research	EN	Article	Water based activities
K4b2	2007	Williams-Bell, F. Michael,	University of Waterloo	Physiological demands and ventilatory requirements during simulated large structure firefighting tasks	2007		EN	Abstract	Firefighter
K4b2	2006	A. Kwaśna, M. Chrobot, B. Zysiak	University School of Physical Education in Wroclaw, Poland	Influence of body buoyancy on the results achieved by 11 year-old children training swimming	2006	Lithuania; 8th International Sports Science Conference	EN	Article	Paediatric & Children

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K4b2	2006	A.E. Minetti, F.o Formenti and L. P. Ardigo'	Faculty of Medicine, Institute of Human Physiology, University of Milan, Italy, Institute for Biophysical and Clinical Research into Human Movement, Manchester Metropolitan University, Cheshire, UK,	Himalayan porter's specialization: metabolic power, economy, efficiency and skill	(2006) 273, 2791-2797	Proc. The Royal Society	EN	Abstract	Altitude
K4b2	2006	B. W Fudge; H. Budd; C. Logan; M. Gillespie; J. Wilson; L. Irwin; B. Kayser; Y. P. Pitsiladis	International Centre for East African Running Science (ICEARS), Institute of Biomedical & Life Sciences (IBLS), University of Glasgow, Glasgow, United Kingdom	Accuracy of K4b2 portable breath by breath system during treadmill and outdoor running	2006 MSSE-D-08-00088	Editorial Manager(tm) for Medicine & Science in Sports & Exercise	EN	Abstract	Validation
K4b2	2006	Carlo Castagna, Franco Impellizzeri, Romualdo Belardinelli, Grant Abt, Aaron Coutts, Karim Chamari and Stefano D'Ottavio	School of Sport and Exercise Sciences, Faculty of Medicine and Surgery, University of Rome Tor Vergata, Rome, Italy	Cardio-respiratory Responses to yo-yo intermittent endurance test in nonelite youth soccer players	2006, 20(2), 326-330	Journal of Strength and Conditioning Research	EN	Poster	Football
K4b2	2006	Charles L. Dumke, Lesli Shooter, Robert H. Lind and David C. Nieman	Human Performance and Fisher Hamilton/Nycom Laboratory, Appalachian State University, Boone, N.C.; USA	Indirect Calorimetry During Ultradistance Running: A Case Report	Dec 2006; 5(4): 692-698	J Sports Sci Med.	EN	Article	Running
K4b2	2006	Charles L. Dumke, Lesli Shooter, Robert H. Lind, David C. Nieman	From the Human Performance and Fisher Hamilton/Nycom Laboratory, Appalachian State University, Boone, N.C.; USA	Indirect calorimetry during ultradistance running: a case report	(2006) 5, 692-698	Journal of Sports Science and Medicine	EN	Article	Running
K4b2	2006	D. Nunan	School of Life Sciences, Kingston University, Kingston-upon-Thames, UK	Development of a sports specific aerobic capacity test for karate: a pilot study	(2006) CSSI, 47-53	Journal of Sports Science and Medicine	EN	Abstract	Combat Sports
K4b2	2006	D. Votion, I. Coudron, JP. Lejeune, L. Vander Heyden, T. Art, E. Van Erck, D. Serteyn	Equine Sports Medicine Center, Equine Pole, Faculty of Veterinary Medicine, University of Liège, Belgium, European Horse Centre of Mont-le-Soie, Vielsalm, Belgium	Measurement of oxygen consumption and cardiorespiratory parameters in ridden horses	Aug-2006	Pferdeheilkunde	EN	Abstract	Equine
K4b2	2006	D.H. Duvivier, E. van Erck, B. de moffart, D. Votion, D. Bedoret, JP Lejeune, P. Lekeux, D. Serteyn	Equine Sports Medicine Center and Surgical Pathology, Equine Clinics, Faculty of Veterinary medicine, European Horse Centre of Mont-le-Soie, Vielsalm, Belgium	Evaluation of a portable equine metabolic measurement system	2006	7th International Conference on Equine Exercise Physiology	EN	Article	Equine
K4b2	2006	Fabiana Andrade Machado, Luiz Guilherme Antonacci Guglielmo, Camila Coelho Greco and Benedito Sérgio Denadai	Laboratório de Avaliação da Performance Humana, UNESP - Rio Claro, SP (Brazil)	Slow component of VO2 in children during running exercise performed at heavy intensity domain: analysis with different mathematical models	Vol. 12, Nº 6 - Nov/Dez, 2006	Revista Brasileira de Medicina do Esporte	EN	Article	Paediatric & Children
K4b2	2006	Gregory D. Farris	Human Sciences, Baylor University, Texas	Analysis of exercise intensity and energy expenditure of women participating in the Curves Exercise program	2006		EN	Dissertation	Aerobics
K4b2	2006	Johann Edge, David Bishop, Carmel Goodman	School of Human Movement and Exercise Science, The University of Western Australia, Perth, Australia	Effects of chronic NaHCO3 ingestion during interval training on changes to muscle buffer capacity, metabolism, and short-term endurance performance	101: 918-925, 2006	JAP	EN	Article	Exercise physiology
K4b2	2006	Karin A. Pfeiffer, Kerry L. Mclver, Marsha Dowda, Maria J.C.A. Almeida and Russel R. Pate	Department of Exercise Science, Arnold School of Public Health, University of South Carolina, Columbia, SC; and Department of Physical Education and Sport, University of Madeira, Madeira, PORTUGAL	Validation and Calibration of the Actical Accelerometer in Preschool Children	0195-9131/06/3801-0152/0	Medicine & Science in Sports & Exercise	EN	Article	Product Validation
K4b2	2006	Marcelo Velloso, and José R. Jardim	Respiratory Division, Federal University of Sao Paulo, San Paulo, Brazil	Study of Energy Expenditure During Activities of Daily Living Using and Not Using Body Position Recommended by Energy Conservation Techniques in Patients With COPD	2006;130:126-132	Chest	EN	Article	Clinical (COPD)
K4b2	2006	Marina M. Platts, Daniel Rafferty, Lorna Paul	Rehabilitation Medicine Service, UK; and 2School of Health and Social Care, Glasgow Caledonian University, Glasgow, Scotland, UK	Metabolic Cost of Overground Gait in Younger Stroke Patients and Healthy Controls	2006, Vol. 38, n. 6 (1041-1046)	Medicine & Science in Sports & Exercise	EN	Article	GAIT
K4b2	2006	Millet, Gregoire P.	UM1, Montpellier, France	VO2 Kinetics is Slower in Swimming than in Arm Cranking or Cycling in Trained Triathletes	May 2006 - Volume 38 - Issue 5 - p S237-S238	Medicine & Science in Sports & Exercise	EN	Poster	Combined events
K4b2	2006	Norimitsu Kinoshita, K. Tadokoro M., J. Ando, S. Onishi, H. Yamazaki, Y. Oguma, F. Katsukawa	Sports Medicine Research Center, Keio University; Kanagawa Prefectural Board of Education, Ogusu high school, Japan	Cardiorespiratory Response to 20 km of Road Running Estimated by the Cosmed K4b2	2006	ECSS	EN	Poster	Running
K4b2	2006	P.M. Lepretre, V. L. Billat, N. Metayer, G. Giovagnoli, E. Pagliei and E. Barrey	Laboratoire d'Etude de la Physiologie de l'Exercice (LEPHE), département STAPS, Université d'Evry - Val d'Essonne, INRA, Jouy en Josas, France. Italian Equestrian Federation, Roma, Italy, Cosmed, Roma, Italy.	Comparison of the portable and fixed gas respiratory analysers in horses according the exercise intensity.	August 26-31, 2006	ICEEP 7, Fontainebleau, France	EN	Abstract	Equine
K4b2	2006	Russell R. Pate, Maria J. Almeida, Kerry L. Mclver, Karin A. Pfeiffer, and Marsha Dowda		Validation and Calibration of an Accelerometer in Preschool Children	Vol. 14 No. 11 November 2006	OBESITY	EN	Article	Product Validation
K4b2	2006	Schiffman, Jeffrey M.; Hasselquist, Leif; Gregorczyk, Karen N.; Piscitelle, Louis; Bense, Carolyn K.; Obusek, John P.	U.S. ArmyNatick Soldier Center, Natick, MA.	Backpack Moment of Inertia Affects Oxygen Consumption During Walking	May 2006 - Volume 38 - Issue 5 - p S270	Medicine & Science in Sports & Exercise	EN	Poster	Ergonomics
K4b2	2006	Stanley Sai-chien and Janus Wan-sze Chan	Department of Sport Sciences and Physical Education, Chinese University of Hong Kong	The relationship between heart rate reserve and oxygen uptake reserve in children and adolescents	(2006) Vol. 77, No. 1, pp. 41-49	Research Quarterly for Exercise and Sport	EN	Article	Paediatric & Children
K4b2	2006	T. Abel, S. Schneider, P. Platen and HK. Struder	Institute of Motor Control and Movement Technique, German Sport University Cologne, Cologne, Germany; Institute of Cardiology and Sports Medicine, German Sport University Cologne, Cologne, Germany	Performance diagnostics in handbiking during competition	(2006) 44, 211-216	Spinal Cord	EN	Article	Cycling

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K4b2	2006	T. M. Barbosa, R. Fernandes, K. L. Keskinen, P. Colaco, C. Cardoso, J. Silva, J. P. Vilas-Boas	Department of Sports Sciences, Polytechnic Institute of Braganca, Braganca, Portugal Faculty of Sports Sciences, University of Porto, Porto, Portugal, Finnish Society for Research in Sport and Physical Education, Helsinki, Finland Department of Biology of Physical Activity, University of Jyväskylä, Jyväskylä, Finland	Evaluation of the Energy Expenditure in Competitive Swimming Strokes	2006; 27: 894–899	International Journal of Sport Medicine	EN	Article	Swimming
K4b2	2006	Thomas Crampton, Veronique Billat	Devices help heart research in the long run	Devices help heart research in the long run	April 13, 2006	Intl. Herald Tribune	EN	Article	Clinical (Cardiovascular)
K4b2	2006	Votion D.M. Caudron I., Lejeune J.P., Vander Heyden L., Art T., Van Erck E., Serteyn D	Equine European Centre of Mont-le-Soie, Vielsam, Belgium; Equine Clinic, University of Liège, Liège, Belgium; Equine Sports Medicine Centre, University of Liège, Liège, Belgium	New perspective for field measurement of cardiorespiratory parameters in exercising horses	22 (2006) 5 (September/Oktober) 619-624	Pferdeheilkunde	EN	Article	Equine
K4b2	2006	Zeljko Dujic, Vladimir I Vancev, Zoran Valic, Darija Bakovic Ivana Marinovic-Terzic, Davor Eterovic, Urlik Wisloff	Department of Physiology and Biophysics, University of Split School of Medicine, Split, CROATIA; and 2Department of Circulation and Medical Imaging, Norwegian University of Science and Technology, Trondheim, NORWAY	Postexercise hypotension in moderately trained athletes after maximal exercise	2006, Vol. 38, n. 2 (318-322)	Medicine & Science in Sports & Exercise	EN	Article	Exercise physiology
K4b2	2005	A D Flouris, G S Metsios, Y Koutedakis	University of Thessaly, Department of Sport and Exercise Science, Karies, Tritala, Greece	Enhancing the efficacy of the 20 m multistage shuttle run test	Mar 2005; 39: 166 - 170	British Journal of Sports Medicine	EN	Article	Exercise physiology
K4b2	2005	A. Caterisano, B.T. Patrick, D. Shelby, K. Stevens, L. King, P. Arnett, R. Bowers, D. Washmuth	Health and Exercise Science Department, Furman University, Greenville, SC.	A Comparison of Excess Postexercise Oxygen Consumption in Trained Males Following Three Sets of Chest Presses with Different Rest Intervals and Following One uperslow Set	July 2005	NSCA National Convention	EN	Abstract	Conditioning
K4b2	2005	Alejandro Casas, Jordi Villaro, Roberto Rabinovich, Ana F. Mayer, Jose Luis Valera, Emanuela Bertoni, Joan A. Barbera, Roberto Rodriguez-Roisin, Josep Roca	Servei de Pneumologia, Hospital Clinic Barcelona (ES), EUIF Blanquerna Universitat Ramon Llull, Barcelona (ES)	Encouraged six minute walking test reflects "maximal" sustainable exercise performance in COPD patients	2005;128:55-61	Chest	EN	Article	Clinical (COPD)
K4b2	2005	Amy M. Hayes, Jonathan N. Myers, Monica Ho; Matthew Y. Lee, Inder Perkash, B. Jenny Kiratli	Spinal Cord Injury Center, Department of Veterans Affairs Palo Alto Health Care System (VAPAHCS), Palo Alto, CA-USA, Cardiology Division, VAPAHCS, Palo Alto, CA; Stanford University, Palo Alto, CA USA;	Heart rate as a predictor of energy expenditure in people with spinal cord injury	Volume 42, Number 5, Pages 617–624 Sept/Oct 2005	Journal of Rehabilitation Research & Development	EN	Article	Disabled
K4b2	2005	B Roels, L Schmitt, S Libicz, D Bentley, J-P Richalet and G Millet	B Roels, School of Sport and Education, Brunel and Education, Brunel University, Uxbridge, Middlesex , UK	V-O2MAX and the ventilatory threshold in free swimming and cycle ergometry: comparison between triathletes and swimmers	2005;39:965-968 doi:10.1136/bjism.2005.020404	Br. J. Sports Med.	EN	Article	Swimming
K4b2	2005	Bastien, G. J., Schepens, B., Willems, P. A. and Heglund, N. C. Head		Head-supported load carriage by Nepalese porters II: energetics.	vol. 308, no. 5729, pp. 1755-1755, 2005	J. Exp. Biol	EN	Article	Altitude
K4b2	2005	Belle Roels, Gregoire Millet, Christophe Marcoux, Olivier Coste, David Bentley, Robin Candau	UPRES-EA 3579 Faculte des sciences du sport Montpellier (FR); Dept. of medical Physiology lab, uni. Of Copenhagen, Denmark, regional and departmental direction of Youth & sports, Montpellier, France	Effects of Hypoxic Interval Training on cycling performance	2005, Vol. 37, n.1 pp 138-146	Medicine & Science in Sports & Exercise	EN	Article	Cycling
K4b2	2005	C. H. E. Imray, S. D. Myers, K. T. S. Pattinson, A. R. Bradwell, C. W. Chan, S. Harris, P. Collins, A. D. Wright, Birmingham Medical Research Expeditionary Society	Coventry and Warwickshire County Vascular Unit, University Hospitals Coventry and Warwickshire National Health Service Trust; QinetiQ, Farnborough	Effect of exercise on cerebral perfusion in humans at high altitude	99:699-706, 2005	JAP	EN	Article	Altitude
K4b2	2005	Chin T, Sawamura S, Shiba R, Oyabu H, et al.	Hyogo Rehabilitation Center, Kobe, Japan	Energy expenditure during walking in amputees after disarticulation of the hip	Jan. 2005	Journal of Bone and Joint Surgery	EN	Article	GAIT
K4b2	2005	De Angelis M., Faina M., Schena F., Trozzi V., Campaci R., Petriani C.	Italian National Olympic Committee, Institute of Sport Science, Rome, Italy 2Italian Winter Sport Federation, Milan, Italy	Metabolic measurements in classic and skating cross country simulated competition	11th – 12th November 2005	International Congress: Mountain & Sport – Rovereto	EN	Abstract	Skating
K4b2	2005	Eli Robert Groppo, Robert Kenneth Eastlack, Andrew Mahar, Alan Robert Hargens, Robert Alan Pedowitz	University of California, San Diego, Department of Orthopaedic Surgery, San Diego, CA; Children's Hospital, San Diego, Orthopedic Biomechanics Research Center, San Diego, CA	Simulated hypergravity running increases skeletal and cardiovascular loads	2005, Volume 37, n. 2, 262–266	Medicine & Science in Sports & Exercise	EN	Article	Exercise physiology
K4b2	2005	F. Formenti, L. P. Ardigo, A. E. Minetti	Institute for Biophysical and Clinical Research into Human Movement, MMU Cheshire, Manchester, UK	Determinants of economy and speed of skiing across the ages	11th – 12th November 2005	International Congress: Mountain & Sport – Rovereto	EN		Skiing
K4b2	2005	Federico Formenti, Luca P. Ardigo and Alberto E. Minetti	Institute for Biophysical and Clinical Research into Human Movement, Manchester Metropolitan University Cheshire	Human locomotion on snow: determinants	(2005) 272, 1561–1569	Proceedings of the royal society B	EN	Article	Walking
K4b2	2005	Firstbeat Technologies Ltd	Firstbeat Technologies Ltd	VO2 Estimation Method Based on Heart Rate Measurement	2005- www.firstbeattechnologies.com	Web site	EN	Internet	Product Validation
K4b2	2005	J-M Vallier, F Grego, F Basset, R Lepers, T Bernard, J Brisswalter	Laboratoire Ergonomie Sportive et Performance, Université du Sud Toulon-Var, La Garde Cedex, France	Effect of fluid ingestion on neuromuscular function during prolonged cycling exercise	2005;39:e17	British Journal of Sports Medicine	EN	Article	Exercise physiology

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K4b2	2005	Joanne S. Harrel, Robert G. McMurray, Christopher D. Baggett, Michael L. Pennell, Patricia F. Pearce, Shrikant I. Bangdiwala	School of Nursing, Dept. of exercise and sport science, school of public health, university of North Carolina at Chappel Hill, College of Nursing, University of Utah	Energy cost of physical activities in children and adolescent	2005, Vol.37, n.2, pp 329-336	Medicine & Science in Sports & Exercise	EN	Article	Paediatric & Children
K4b2	2005	K Woolf-May, S Bird	Department of Sport Science, Tourism and Leisure, Canterbury Christ Church University College, Canterbury, Kent UK	Physical activity levels during phase IV cardiac rehabilitation in a group of male myocardial infarction patients	2005;39:e12	British Journal of Sports Medicine	EN	Article	Clinical (Cardiovascular)
K4b2	2005	Kenneth S Dyson, Richard L Hughson	Department of Kinesiology, University of Waterloo, Waterloo, Ontario, Canada	Preliminary study of the physiological demands of mars analogue extravehicular activity	2005	International Astronautical Congress Fukuoka, Japan	EN	Poster	Space
K4b2	2005	Koh, Yunsuk; Chacko, Anice; Biggerstaff, Kyle D.	Texas Woman's University, Denton, TX.	Accuracy Of The Cosmed K4b2 Telemetry System During Different Intensities Of Exercise.	Volume 37(5) Supplement May 2005p S22-S23	Medicine & Science in Sports & Exercise	EN	Article	Validation
K4b2	2005	L. D. Hodges, D. A. Brodie, P. D. Bromley	Research Centre for Health Studies, Buckinghamshire Chilterns University College, Buckinghamshire, UK	Validity and reliability of selected commercially available metabolic analyzer systems	2005: 15: 271-279	Scandinavian Journal Medicine & Science in Sports	EN	Article	Validation
K4b2	2005	L. Flacco, T. Pietrangelo, G. Di Tano, M. Bertollo, G. Fanò	Unità di Fisiologia Clinica, CeSI and Istituto Interuniversitario di Miologia, Università "G. d'Annunzio" Chieti-Pescara, Italy	Analysis of aerobic and anaerobic abilities in elite junior cross-country skiers: a preliminary report	11th – 12th November 2005	International Congress: Mountain & Sport – Rovereto	EN	Abstract	Skiing
K4b2	2005	Lara R. Dugas, Lize Van der Merwe, Hendrick Odendal, Timothy D. Noakes, Estelle V. Lambert	Exercise Science and sports medicine unit, Dept of human biology, Uni of Cape town. Sport science inst. Of South Africa, Newlands, South Africa; Faculty of Medicine, Uni of Stellenbosch, Tygerberg, South Africa	A Novel Energy Expenditure Prediction Equation For Intermittent Physical Activity	2005, Vol. 37, n.12 pp 2154-2161	Medicine & Science in Sports & Exercise	EN	Article	Exercise physiology
K4b2	2005	M. Fenzl, W. Shnizer, B. Hartmann, B. Villiger, O. Knusel	Swiss Olympic Medical center, Bad Ragaz Switzerland; Agnes-Bernauer-Strasse Muhnchen, Germany; Balneologie, Clinical University of Freiburg, Bad Krozingen, Germany; Clinic of Valens, Valens, Switzerland	Unterschiede in der maximalen Sauerstoffaufnahme bei körperlichen belastungen im wasser oder anland	53(4).172-178;2005	Scheizerische zeitschrift fur sportmedizin und sporttraumatologie	DE	Article	Exercise physiology
K4b2	2005	M. R. Rizzo, D. Mari, M. Barbieri, E. Ragno, R. Grella, R. Provenzano, I. Villa, K. Esposito, D. Gugliano, and G. Paolesso	Department of Geriatric Medicine and Metabolic Diseases , II University of Naples, Naples, Italy; Department of Internal Medicine (D.M., R.P.), University of Milano, Milano Italy; and Airoldi Muzzi Institution (I.V.), Lecco, Italy	Resting Metabolic Rate and Respiratory Quotient in Human Longevity	(2005) 90(1):409-413	The Journal of Clinical Endocrinology & Metabolism	EN	Article	Elderly
K4b2	2005	Marco Bernardi	Department of Human Physiology and Pharmacology, University of Rome "La Sapienza", Rome, Italy. Italian Paralympic Committee (CIP), Rome, Italy.	Evaluation programs for Italian Teams preparing the Paralympic Games	11th – 12th November 2005	International Congress: Mountain & Sport – Rovereto	EN	Abstract	Disabled
K4b2	2005	Marco Y. C. Pang; Janice J. Eng; Andrew S. Dawson	Rehabilitation Research Laboratory and Acquired Brain Injury Program, GF Strong Center, Vancouver, Canada;	Relationship Between Ambulatory Capacity and Cardiorespiratory Fitness in Chronic Stroke*	2005;127;495-501	Chest	EN	Article	Clinical (Cardiovascular)
K4b2	2005	O Girard, P Sciberras, M Habrard, P Hot, R Chevalier, G P Millet	O Girard, UPRES EA 3759, Faculty of Sport Sciences, University of Montpellier, Montpellier, France;	Specific incremental test in elite squash players	2005;39:921-926. doi:10.1136/bjism.2005.018101	Br J Sports Med	EN	Article	Tennis
K4b2	2005	P. Zamparo, M. Bonifazi, M. Faina, A. Milan, F. Sardella, F. Schena, C. Capelli	Department of Biomedical Sciences, School of Medicine, University of Udine; Department of Physiology, University of Siena; Ce.Bi.S.M, University of Trento, Rovereto;	Energy cost of swimming of elite long-distance swimmers	(2005) 94: 697-704	European Journal of Applied Physiology	EN	Article	Swimming
K4b2	2005	Pierre Marie Lepretre, Carl Foster, Jean-Pierre Koralsztein, Veronique L. Billat	Laboratoire d'Etude de la Physiologie de l'Exercice, Department of Sciences and Technology in Sports and Physical Activities, University of Evry Val d'Essonne, Evry, France	Heart rate deflection point as a strategy to defend stroke volume during incremental exercise	98: 1660-1665, 2005	JAP	EN	Article	Clinical (Cardiovascular)
K4b2	2005	R. Duffield, B. Dawson, & D. Bishop.	University Of Western Australia, Crawley, Australia	Association between selected in-race and laboratory physiological measures with middle-distance track running	2005	Australian Conference of Science and Medicine in Sport And Third National Sports Injury Prevention Conference	EN	Abstract	Running
K4b2	2005	Rob Duffield, Brian Dawson	School of human movement and exercise sciences, University of Western Australia (Perth, Aus)	Energy system contribution to 400-metre and 800-metre track running	March 2005; 23(3): 299 – 307	Journal of Sports Sciences	EN	Article	Running
K4b2	2005	Roels Belle, Thomas Claire Bentley J. David, Mercier Jacques, Hayot Maurice Millet Grégoire	UPRES EA 3759 Montpellier, France; Brunel University, School of Sport and Education, UK; Laboratory of Interaction Physiology, Biology Institute, Montpellier, France; niversity of Evry Val d'Essonne, Department of STAPS, Evry, France	Effects of intermittent hypoxic training on amino and fatty acid oxidative combustion in human permeabilized muscle fibers	(September 21, 2006).doi:10.1152/jappphysiol.01319.2005	JAP	EN	Article	Exercise physiology
K4b2	2005	S. Duvergé , I. Boudreault, S. Nadeau, E. Kalinova, M. Leone, AS Comtois	Université du Québec à Montréal, Canada	VO2 requirements during the 6-minute self-paced walk test in older trained adult populations	2005	18th Congress of the International Association of Gerontology	EN	Abstract	Elderly
K4b2	2005	Scott E. Crouter, Kurt G. Clowers, David R. Bassett, Jr.	Department of Exercise, Sport, and Leisure Studies, University of Tennessee, Knoxville, Tennessee	A novel method for using accelerometer data to predict energy expenditure	100:1324-1331, 2006	JAP	EN	Article	Product Validation

Product	Year	Author	Institute	Title	Ref.	Journal/Meeting	Lang	Format	Topic
K4b2	2005	Scott Eric Fuller	Louisiana State University and Agricultural and Mechanical College	Oxygen Uptake Efficiency Slope and functional physical performance in elderly adults	May 2005	Thesis for the degree of Master of Science in The Department of Kinesiology	EN	Dissertation	Elderly
K4b2	2005	Sean M. Tweedy and Stewart G. Trost	School of Human Movement Studies, University of Queensland, Australia	Validity of Accelerometry for Measurement of Activity in People with Brain Injury	April 2005, 0195-9131/05/3709-1474/0	Medicine & Science in Sports & Exercise	EN	Article	Product Validation
K4b2	2005	Stanley Sai -chuen Hui, Janus Wan -sze Chan	Department of Sport Science and Physical Education at the Chinese University of Hong Kong	The relationship between heart rate reserve and oxygen uptake reserve in children and adolescents	March 2006	Research Quarterly for Exercise and Sport	En	Article	Paediatric & Children
K4b2	2005	T. Chin, MD, PhD	Hyogo Rehabilitation Center, 1070 Akebono-Cho, NishiKu, Kobe 651-2181, Japan	Energy expenditure during walking in amputees after disarticulation of the hip	2005	Journal of Bone and Joint Surgery	EN	Article	GAIT
K4b2	2005	T. M. Barbosa, K. L. Keskinen, R. Fernandes, P. Colaco, A. B. Lima J. P. Vilas-Boas	Department of Sports Sciences, Polytechnic Institute of Braganca, Campus Sta. Apolonia, Apartado 1101, 5301-856 Braganca, Portugal,	Energy cost and intracyclic variation of the velocity of the centre of mass in butterfly stroke	(2005) 93: 519–523	European Journal of Applied Physiology	EN	Abstract	Swimming
K4b2	2005	T. M. Barbosa, R. Fernandes, K. L. Keskinen, P. Colaco, C. Carmo, J. P. Vilas-Boas	Department of Sports Sciences, Polytechnic Institute of Braganca, Braganca, Portugal, Department of Biology of Physical Activity, University of Jyväskylä, Jyväskylä, Finland - Faculty of Sports Sciences, University of Porto, Porto Portugal	Relationships between energetic stroke determinants and velocity butterfly	2005, DOI 10,1055/s - 2005 837470 - ISSN 0172-4622	International Journal of Sport Medicine	EN	Abstract	Swimming
K4b2	2005	T. Meyer, R.C.R. Davison, W. Kindermann	Institute of Sports and Preventive Medicine, University of Saarland, Faculty of Clinical Medicine Saarbrücken, Germany	Ambulatory gas exchange measurements, current status and future options	2005, 26 S19 S27 ISSN 0172-4622	Sports Med	EN	Article	Exercise physiology
K4b2	2005	V.E. Vleck, S. Santos, D. Bentley and F. Alves	Medway School of Sciences, University of Greenwich, Kent, ME4 4TB, Faculty of Human Movement, Technical University of Lisbon, Alameda de Santo Antonio dos Capuchos Lisbon, Portugal, Dept of Human and Health Sciences, University of Westminster, W1W 6UW	Influence of prior cycling on the OBLA measured during incremental running in triathletes.	2005, 93-223	Journal of Sports Sciences	EN	Abstract	Combined events
K4b2	2004	A. Pulkkinen, J. Kettunen, K. Martinmäki, S. Saalasti, H.K. Rusko, FACSM	KIHU-Research Institute for Olympic Sports, Jyväskylä, Finland	On and off dynamics and respiration rate enhance the accuracy of heart rate based VO2 estimation	2004	ACSM	EN	Poster	Exercise physiology
K4b2	2004	Antonio Gianfelici, Maria Francesca Piacentini, Marcello Faina, Carlo Minganti, Laura Capranica	Dept of human movement and sport science IUSM, Rome (IT), CONI, Institute of sport science, Rome (IT)	Energy Cost and Mechanical power of a 1h Spinning class	2004	ECSS	EN	Abstract	Cycling
K4b2	2004	Aurelien Bringard, Stephane Perrey, Nicolas Belluye	EA 2991 Efficience et deficiencia motrice, Montpellier (FR); Centre de recherche decathlon, Villeneuve d'Ascq (FR)	Effects of short compression pants on aerobic energy cost and subjective sensation during submaximal running exercise	2004	ECSS	EN	Abstract	Product Validation
K4b2	2004	C. Castagna, G. Annino, E. Padua, V. Manzi, G. Abt, O. Tsarpela, G. Mafre, M. G. Giganti, R. Belardinelli, S. D'Ottavio	Motor Science Inst. University of Rome "Tor Vergata", (IT); Teknosport.com, Ancona (IT); St. Martin's College, Lancaster (UK); Lancisi Hospital, Cardiovascular Rehabilitation Dept, Ancona (IT)	Physiological responses to a repeated sprint protocol for Basketball	2004	ECSS	EN	Abstract	Basketball
K4b2	2004	C. Castagna, G. Annino, E. Padua, V. Manzi, G. Abt, O. Tsarpela, G. Mafre, M. G. Giganti, R. Belardinelli, S. D'Ottavio	Motor Science Inst. University of Rome "Tor Vergata", (IT); Teknosport.com, Ancona (IT); St. Martin's College, Lancaster (UK); Lancisi Hospital, Cardiovascular Rehabilitation	Effect of VO2 max level on repeated sprint ability in basketball players	2004	ECSS	EN	Abstract	Basketball
K4b2	2004	Craig McDonald, Sandra A. Walsh, Lana WidmaN, Denise Walsh, Ted Abresh	Shriners Hospital For Children, CA (USA); University of California, Davis CA (USA);	Assesment of Energy cost under various modes of locomotion in children with spinal cord injuries and able bodied controls	????	????	EN	Abstract	GAIT
K4b2	2004	David Bentley, Roels Belle, Libicz Sebastien, Philippe Helleard, Gregoire Millet	Dept. Of Human and Health sciences, University of Westminster, London (UK); UPRES-EA 3759, Faculté des sciences du sport, University of Montpellier (FR); French Swimming federation, Paris (FR)	Physiological Responses during aerobic interval swimming training: effects of interval duration	2004	ECSS	EN	Abstract	Swimming
K4b2	2004	David L. Wenos, Michael L. Deaton, Peter C. Kovalcik, & Michael J. Saunders, FASCM	Human Performance Laboratory, James Madison University, Harrisonburg, VA (USA)	Metabolic Responses During Appalachian Trail Backpacking With and Without Trekking Poles	2004, Indianapolis	ACSM	EN	Abstract	Walking
K4b2	2004	F. Esposito F. M. Impellizzeri, V. M. R. Vanni, G. Pizzini, A. Veicsteinas	Institute of Physical Exercise, Health and Sports, Milan, Italy University of Milan,	Validity of heart rate as an indicator of aerobic demand during soccer activities in amateur soccer players	(2004) 93: 167–172	European Journal of Applied Physiology	EN	Article	Football
K4b2	2004	Floor Hettinga, Joanne Lampen, Jos J. de Koning, Maarten F. Bobbert, Carl Foster, FACSM	Institute for Fundamental and Clinical Human Movement Sciences, Vrije Universiteit, Amsterdam, The Netherlands; Department of Exercise and Sport Science, University of Wisconsin-La Crosse, La Crosse, USA	Can anaerobic capacity be fully utilized in two minutes of supra-maximal speed skating exercise?	2004, Indianapolis	ACSM	EN	Abstract	Skating
K4b2	2004	Giuseppe Morici, Maria R. Bonsignore, Daniele Zangla, Loredana Riccobono, Mirella Profita, Anna Bonanno, Alessandra Paternò, Rossana Di Giorgi, Franco Mirabella, Laura Chimenti, Arcangelo Benigno, Antonio M. Vignola, Vincenzo Bellia, Giuseppe Amato and Giovanni Bonsignore	Department of Experimental Medicine and Institute of Medicine and Pneumology, University of Palermo, ITALY; Institute of Biomedicine and Molecular Immunology (IBIM), Italian National Research Council (CNR), Palermo, ITALY	Airway Cell Composition at Rest and after an all out test in competitive rowers	2004, (36): 1723-1729	Medicine & Science in Sports & Exercise	EN	Article	Rowing



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K4b2	2004	Gregoire P.Millet, Libicz Sebastien, Roels Belle, Fabio Borrani,	Faculté des sciences du sport, University of Montpellier (FR); Institut de sciences du sport et de l'éducation physique, Université de Lausanne, Switzerland	VO2 kinetics in cycling, arm cranking and swimming	2004	ECSS	EN	Abstract	Exercise physiology
K4b2	2004	Gregory A. Brown, Ph.D., Mary P. Rebok, Meshia L. Scott, Junior Harris III, and Matthew K. Colaluca	Human Performance Laboratory, Jiann-Ping Hsu School of Public Health, Georgia Southern University, Statesboro, GA (USA)	Energy Cost of Jogging Stroller Use During Running	2004, Indianapolis	ACSM	EN	Abstract	Running
K4b2	2004	Horvais Nicolas, Samozino Pierre, Frederique Hintzy	Laboratoire de modelisation des activites sportives, Université de Savoie, Bourget du Lac (FR)	Effect of pedalling rate on the mechanical efficiency-power output relationships during submaximal cycling	2004	ECSS	EN	Abstract	Cycling
K4b2	2004	J. Jaszczur-Nowicki, V. Smulskij	Academy of Physical education in Gdansk (Poland)	The Energy Expenditure in Boardsailors	2004	ECSS	EN	Abstract	Sailing
K4b2	2004	Jastrzebski Zbigniew	Dept of physiology, The University school of Physical Education Gdansk (Poland)	Aerobic capacity of national team handball players	2004, Clermont Ferrand	ECSS	EN	Abstract	Handball
K4b2	2004	Jean Slawinski, veronique Billat	Dept STAPS, UFRSFA Université D'Evry-Val D'Essones, Bat des Sciences Bd Francois Mitterand EVRY Cedex, France	Effect of an exhausting overground run on the energetic cost and on the mechanical cost of running	2004	ECSS	EN	Abstract	Running
K4b2	2004	Joey C. Eisenmann, Scott J. Strath, Danny Shadrick, Paul Rigsby, Nicole Hirsh, Leigh Jacobson	Dept of health and human performance, Iowa state university (USA); University of Michigan (USA); University of Wyoming (USA)	Validity of uniaxial accelerometry during activities of daily living in children	2004; 91: 259-263	European Journal of Applied Physiology	EN	Abstract	Product Validation
K4b2	2004	K. Pattison, S. Myers, C. Gardner Thorpe	University hospital Coventry and Warwickshire NHS Trust (UK); Centre for Human Science, QuinettiQ, Farnborough (UK); Stoke Mandeville Hospital, Aylesbury, Bucks (UK)	Problems with capnography at high altitude	2004, 59, pages 69-72	Anesthesia	EN		Altitude
K4b2	2004	Kong Y Chen	Vanderbilt University Medical Center Nashville, Tennessee, USA	Portable physical activity monitors for measuring energy metabolism in ROTC Cadets	September 2004		EN	Dissertation	Product Validation
K4b2	2004	Liam Tyrrell, Nick Mahony, Bernard Donne	Human Performance laboratory, anatomy dept, Trinity College, Dublin Ireland	The effects of varying cadence on sub maximal heart rate, blood lactate and VO2 in elite male flatwater kayakers	2004	ECSS	EN	Abstract	Rowing
K4b2	2004	M. S. Treuth, K. Schmitz, Diani J. Catellier, Robert G. McMurray, David M. Murray, M. Joao Almeida, Scott. Going, James E. Norman, Russel Pate	Johns Hopkins Bloomberg school of Public health Baltimore; Uni of Minnesota; Uni of North Carolina; Uni of Memphis, Uni of South Carolina; Uni of Arizona; National, Lung & Blood institute, Bethesda	Defining Accelerometer Thresholds for Activity Intensities in Adolescent Girls	2004, 0195-9131/04/3607-1259	Medicine & Science in Sports & Exercise	EN	Article	Exercise physiology
K4b2	2004	Marco Bernardi, Barbara Di Giacinto, Emanuele Guerra, Claudio Marini, Cataldo Pisticchio, Filippo M. Quattrini	University of Rome "La Sapienza" (IT); Italian federation of sport for disabled, CONI Rome (IT); Institute of sport science, CONI, Rome (IT)	Cardiovascular and respiratory adaptation to exercise in locomotor disabled athletes	2004, Clermont Ferrand	ECSS	EN	Abstract	Disabled
K4b2	2004	Miriam Christina Renz	Department of Human Kinetics and Ergonomics Rhodes University, Grahamstown, South Africa	Laboratory investigation of a simulated industrial task pre and post ergonomics intervention	2004		EN	Dissertation	Ergonomics
K4b2	2004	N Kawashima, K Nakazawa N Ishii, M Akai and H Yano	Department of Rehabilitation for the Movement Functions, Research Institute of National Rehabilitation Center for Persons with Disabilities, Saitama, Japan	Potential impact of orthotic gait exercise on natural killer cell activities in thoracic level of spinal cord-injured patients	(2004) 42, 420-424	Spinal Cord	EN	Abstract	GAIT
K4b2	2004	R. Duffield, B. Dawson, H.C. Pinnington, P. Wong	School of human movement and exercise sciences, University of Western Australia, Crawley WA (Aus)	Accuracy and reliability of a Cosmed K4b2 portable gas analysis system	2004 Mar; 7(1): 11-22	J Sci Med Sport	EN	Article	Validation
K4b2	2004	Richard Heubert, Pierre Marie Lepetre, Laurent Laffite, Jean Pierre Koralsztein, Veronique Billat	Centre de Medicine du sport CCAS, Paris (FR); Laboratoire des interactions genes et entraînement, Université d'Evry Val-d'Essonne, Evry (FR)	Etiology of the VO2 drop at the end of exhaustive exercises eliciting VO2 max	2004	ECSS	EN	Abstract	Exercise physiology
K4b2	2004	Rob Duffield, Johann Edge, David Bishop	School of human movement and exercise sciences, University of Western Australia, Perth WA (Aus)	Effects of high intensity intervall training on the VO2 response during severe exercise	2004	ECSS	EN	Abstract	Exercise physiology
K4b2	2004	Roels Belle, Thomas Claire, Gregoire Millet, Hayot Maurice, Jaques Mercier	Approche Bio-Psycho-Sociale du dopage, Faculté de sciences du sport, University of Montpellier (FR); Laboratoire de physiologie des interactions, Institut de Biologie, Montpellier (FR)	Effect of hypoxic Training on performance and mitochondrial respiration in human muscle fibres	2004	ECSS	EN	Abstract	Altitude
K4b2	2004	Simon M. Gunn, Grant E. van der Ploeg, Robert T. Withers Christopher J. Gore, Neville Owen, Adrian E. Bauman- John Cormack	Exercise Physiology Laboratory, School of Education, Flinders University School of Education, Adelaide, South Australia, Australian Institute of Sport, Henley Beach, South Australia	Measurement and prediction of energy expenditure in males during household and garden tasks	(2004) 91: 61-70	European Journal of Applied Physiology	En	Article	Household
K4b2	2004	T. Wayne, Phillips and Joana R. Ziuraitis	Dept of Exercise and Wellness, Arizona State University East, Mesa, Arizona (USA)	Energy Cost of single set resistance training in older adults	2004, 18(3),000-000	Journal of Strength and Conditioning Research	EN		Elderly
K4b2	2004	Tiago Barbosa, Kari Keskinen, Ricardo Fernandez, Paulo Colaco, Antonio Lima, Joao Paulo Vilas-Bosa	Dept of sports sciences, polytechnic Institute of Braganca, Portugal; Dept of biology of physical activity, University of Jyväskylä Finland; Faculty of sport sciences, University of Porto, Portugal	Speed fluctuation as a determinant factor of energy cost in butterfly stroke	2004	ECSS	EN	Abstract	Swimming
K4b2	2003	A. William Sheel, Nicholas Seddon, Andrew Knight, Donald C. McKenzie, Darren E. R. Warburton	School of Human Kinetics, Uni of British Columbia, Vancouver Canada	Physiological Responses to Indoor Rock-Climbing and Their Relationship to Maximal Cycle Ergometry	2003, 0195-9131/03/3507-1225	Medicine & Science in Sports & Exercise	EN	Article	Climbing
K4b2	2003	A.A. Ionescu, T.D. Mickleborough, K. Chatham, M.R. Lindley, L.S. Nixon, C.E. Bolton, D.J. Shale	Respiratory Medicine, University of Wales College of Medicine, Cardiff, Wales; Department of Kinesiology, Indiana University, Bloomington, IN; University of Wales Institute Cardiff, Cardiff, Wales	Increased Oxygen Uptake and Energy Expended during Some Activities in Cystic Fibrosis	Seattle 2003	ATS	EN	Abstract	Clinical (Cystic Fibrosis)

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K4b2	2003	Alison Kirk, Nanenette Mutrie, Paul MacIntyre, Miles Fisher	Center for Exercise Science and Medicine, University of Glasgow, Scotland; The Diabetes Center, Glasgow Royal Infirmary, Scotland	Increasing Physical Activity in People With Type 2 Diabetes	VOLUME 26, NUMBER 4, APRIL 2003	Diabetes care	EN	Article	Clinical (Diabetes)
K4b2	2003	Anderson ND., Mitchell KR. O'Connell DG. O'Connell JK.	Department of Physical Therapy, Hardin-Simmons University, Abilene, TX 79698. Funded by the HSU Academic Foundation.	Patients with acute CVAs self-select energy efficient walking speeds on tile, dirt, and gravel	Abstract Publication PO-RR-8-F - PT 2003	American Physical Therapy Association	En	Abstract	GAIT
K4b2	2003	Anne Delestrat, Fabrice Vercauysen, Veronique Tricot, Thierry Bernard, Christophe Hausswirth, Jeanick Brisswalter	Uni of Toulon-Var, dept of ergonomics (Cedex FR); National Inst. of Sport & Physical Education (Paris FR)	Drafting during Swimming Improves Efficiency during Subsequent Cycling	2003, 0195-9131/03/3509-1612	Medicine & Science in Sports & Exercise	EN	Article	Swimming
K4b2	2003	Beth Morgan, Sara J. Woodruff, Peter M. Tiidus	Dept of Kinesiology, University of Waterloo, Ontario (CA);	Aerobic energy expenditure during recreational weight training in females and males	(2003) 2, 117-122	J Sport Sci and med	EN	Article	Conditioning
K4b2	2003	Beth Morgan, Sarah J. Woodruff and Peter M. Tiidus	Department of Kinesiology & Physical Education, Wilfrid Laurier University, Waterloo ON, Canada	Aerobic energy expenditure during recreational weight training in females and males	(2003) 2, 117-122	Journal of Sports Science and Medicine	EN	Article	Conditioning
K4b2	2003	Bonita I. Marks Elizabeth Galleher, Teresa Moore and Laurence M. Katz	University of North Carolina at Chapel Hill, department of exercise and sport science, NC USA	Energy Balance Monitoring in Tennis Players	Volume 8, nr. 3 Dec 2003; pages 8-9	Medical and science in tennis	EN	Article	Tennis
K4b2	2003	Carl Foster, Jos De Koning, Floor Hettinga, Joanne Lampen, Kerry L. La Clair, Christopher Dodge, Maarten Bobbert, John P. Porcari	Dept. of Exercise and Sport Science, University of Wisconsin-La crosse, IFKB faculty of Human Movement sciences, Vrije Universiteit-Amsterdam (the Netherlands)	Pattern of Energy Expenditure during Simulated Competition	2003, 0195-9131/03/3505-0826	Medicine & Science in Sports & Exercise	EN	Article	Cycling
K4b2	2003	Carlo Castagna, Romualdo Belardinelli, Grant Abt	Instituto tecnico Industriale statale "V. Volterra" Torrette Ancona (IT); Dept of Cardiovascular rehabilitation and prevention, "G. M. Lancisi" Hospital, Ancona (IT); St. Martin College, Lancaster (UK); Research Dept Teknosport.com Ancona (IT);	Cardio-respiratory responses of regional soccer players to a progressive maximal intermittent field-test	2003 Portugal	"Science & football", 5th World Congress	EN	PPT	Football
K4b2	2003	Carlo Castagna, Romualdo Belardinelli, Grant Abt	Instituto tecnico Industriale statale "V. Volterra" Torrette Ancona (IT); Dept of Cardiovascular rehabilitation and prevention, "G. M. Lancisi" Hospital, Ancona (IT); St. Martin College, Lancaster (UK); Research Dept Teknosport.com Ancona (IT);	The VO2 and HR response to training with a ball in youth soccer players	2003 Portugal	"Science & football", 5th World Congress	EN	PPT	Football
K4b2	2003	Darby S. Pettitt, Sigurbjorn A., Amgrimsson, Kirk J. Cureton	Department of Exercise Science, University of Georgia, Athens, Georgia USA	Effect of resistance exercise on postprandial lipemia	94: 694-700, 2003.	JAP	EN	Article	Exercise physiology
K4b2	2003	E. Barrey, N. Metayer, A. G. Goachet, V. Billat, V. Julliard, J. Slawinski	INRA, Jouy-en-Josas Cedex (FR), ENESAD, Dijon (FR), Uni of Evry Via D'Essonne (FR)	Oxygen consumption measured in Arabians tested in a field endurance exercise test	2003, August 31st-September 3rd	54th Meeting of European Association for Animal Production, Rome, 31Aug/3 Sept. 2003	EN	Abstract	Equine
K4b2	2003	Emilson Colantonio, Ronaldo Vilela Barros, Maria Augusta Peduti Dal Molin Kiss	Laboratory of sport performance, Physical education and sport school, University of Sao Paolo (Brazil); Physical Education & Physiotherapy research laboratory, LAPEFI Sao Paolo (Brazil); Monte Serrat University Center UNIMONTE (BRA)	Oxygen uptake during wingate tests for arms and legs in swimmers and water polo players	37622	Revista Brasileira de Medicina do Esporte	EN	Abstract	Swimming
K4b2	2003	F. Caputo, M.T. Mello and B.S. Denadai	Human Performance Laboratory, UNESP, Rio Claro, Brazil	Oxygen Uptake Kinetics and Time to Exhaustion in Cycling and Running a Comparison Between Trained and Untrained Subjects	2003, Vol. 111, No. 5, pp. 461-466	Archives of Physiology and Biochemistry	EN	Article	Exercise physiology
K4b2	2003	Fabrizio Caputo, Sérgio Garcia Stella, Marco Túlio de Mello and Benedito Sérgio Denadai	Laboratório de Avaliação da Performance Humana – Unesp, Rio Claro-SP	Indexes of power and aerobic capacity obtained in cycle ergometry and treadmill running comparisons between sedentary, runners, cyclists and triathletes	Vol. 9, N° 4 – Jul/Ago, 2003	Revista Brasileira de Medicina do Esporte	EN	Article	Combined events
K4b2	2003	G. Kervio, F. Carre, N. S. Ville	Groupe de Recherche Cardio Vasculaire, University Rennes 1, Rennes France	Reliability and Intensity of the Six minute Walking test in healthy elderly subjects	2003 Jan; 35(1): 169-74	Med Sci Sports Exerc.	EN	Article	Elderly
K4b2	2003	Heikki Kyrolainen, Riikka Kivela, Satu Koskinen, Jeff McBride, Jesper L. Andersen, Timo Takala, Sarianna Sipilä, Paavo Komii	Uni of Jyvaskyla (Neuromuscular research dept., biological & physical activity dept. and health sciences dept.), Copenhagen Muscle Research centre (CMRC), dept. of molecular muscle biology (Denmark)	Interrelationships between Muscle Structure, Muscle Strength, and Running Economy	2003, 0195-9131/03/3501-0045	Medicine & Science in Sports & Exercise	EN	Article	Running
K4b2	2003	J. C. Eisenmann, N. Brisko, D. Shadrick, S. Welsh	Division of Kinesiology and Health, University of Wyoming, Laramie (USA)	Comparative analysis of the Cosmed Quark b2 and K4 b2 gas analysis systems during submaximal exercise	2003; 43:150-5	The J. of sport med and physical fitness	EN	Article	Validation
K4b2	2003	J. C. Eisenmann, S.J. Strath, D. Shadrick, P. Rigsby, N. Hirsch, L. Jacobson	Department of Health and Human Performance, Iowa State University, Ames, IA 50011, USA, University of Michigan, Ann Arbor, Michigan, USA, University of Wyoming Laramie, Wyoming USA	Validity of uniaxial accelerometry during activities of daily living in children	(2004) 91:259-263	European Journal of Applied Physiology	EN	Article	Product Validation
K4b2	2003	J. Edge, D. Bishop & R. Duffield	University Of Western Australia, Crawley, Australia	Effects of high-intensity interval training on the UO2 response during heavy exercise	2003	Australian Conference of Science and Medicine in Sport And Third National Sports Injury Prevention Conference	EN	Abstract	Exercise physiology

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K4b2	2003	J. Edge, D. Bishop & R. Duffield	University Of Western Australia, Crawley, Australia	The relationship between UO response, muscle and blood metabolites and performance during exhaustive exercise	2003	Australian Conference of Science and Medicine in Sport And Third National Sports Injury Prevention Conference	EN	Abstract	Exercise physiology
K4b2	2003	Jan Olbrecht	Artevelde-Institute of higher education, dept of physiotherapy, Ghent, Belgium;	Application of a theoretical metabolic calculation model in field tests and implication on training periodisation and monitoring	2003, Salzburg	ECSS	EN	Abstract	Exercise physiology
K4b2	2003	K. Keskinen, F. Rodriguez, O. Keskinen	University of Jyväskylä, Finland; Istitut Nacional d'Eduacio Fisica de Catalunya, University of Barcellona, Spain	Respiratory Snorkel and valve system for breath by breath gas analysis in swimming	2003 Oct; 13(5): 322-9	Scand J Med Sci Sports	EN	Article	Aquatrainer validation
K4b2	2003	K. Keskinen, O. Keskinen, F. Rodriguez, A. Ferran, J. Merikari	University of Jyväskylä, Finland; Istitut Nacional d'Eduacio Fisica de Catalunya, University of Barcellona, Spain	Human cardiorespiratory responses to resting water immersion to the neck with changing body position	(2003), pp. 337-342	Biomechanics and Medicine In Swimming IX	EN	Article	Water based activities
K4b2	2003	K.J. Nobes, D.L. Montgomery, D.J. Pearsall, R.A. Turcotte, R. Lefebvre, F. Whitton	Department of Kinesiology and Physical Education, Seagram Sports Centre, McGill University, Montreal, QC.	A comparison of skating economy on ice and on the skating treadmill	2003 Feb;28(1):1-11	Can J Appl Physiol.	EN	Abstract	Skating
K4b2	2003	M. Bernardi, F.M.Quattrini, A Rodio, G. Fontana, A Madaffari, M. Marchetti	Uni of Rome "La Sapienza", Uni of Cassino, ACI Global Spa, Toscana Challenger Livorno, Italy	Physiological Characteristics and Functional Evaluation of America's Cup Grinders	2003	Sailing Sport Science Conference Toulon-var (UFR STAPS) on the 22th of May 2004	EN	Abstract	Sailing
K4b2	2003	M. Faina	Institute of sport science, CONI Rome (IT)	Back estrapolation test of O2 uptake on the British Olympic swimming team	2003	Experiment carried out at the Acqua Cetosa Olympic center	EN	Lecture	Swimming
K4b2	2003	Magaly Tardieu, Delphine Thevenet, Hassan Zouhal, Jaques Prioux	"Motricité - Interacion - Performance" Laboratory, UFRSTAPS, University of Nantes (FR); "Laboratoire de Physiologie et de Biomecaniques de l'exercice Musculaire", UFR-APS University of Rennes 2 (FRA)	Influence of Intensity on time spent at maximal oxygen uptake during short intermittent exercise	2003, Salzburg	ECSS	EN	Abstract	Exercise physiology
K4b2	2003	Manuella Barbosa Crawley	Kinesiology, The Pennsylvania State University	Validation of the Sensewear HR armband for measuring heart rate and energy expenditure	2003		EN	Dissertation	Product Validation
K4b2	2003	Marco Bernardi, B. Di Giacinto, C. Pisicchio, F. M. Quattrini	Dipartimento di fisiologia umana e farmacologia, Università di Roma "la Sapienza"; Scuola di specializzazione in medicina dello sport Università di Roma "la Sapienza"; Federazione Italiana Sport Disabili CONI Roma	Lo sport praticato con disabili con patologia locomotoria è in grado di determinare effetti benefici sulla salute?	2003, 56:000-000	Med. Sport	IT	Article	Disabled
K4b2	2003	N Kawashima, Y Sone, K Nakazawa, M Akai and H Yano	Motor Dysfunction Division, Research Institute, National Rehabilitation Center for the Disabled, Namiki, Tokorozawa City, Saitama Pref., Japan; Koumei School for Disabled Children, 6-38-27 Matsubatra, Setagaya Ward, Tokyo, Japan	Energy expenditure during walking with weight-bearing control (WBC) orthosis in thoracic level of paraplegic patients	Spinal Cord (2003) 41, 506-510	Spinal Cord	EN	Abstract	Disabled
K4b2	2003	N. D. Anderson, K. R. Mitchell, D. G. O'Connell, J. K. O'Connell	Hardin-Simmons University, Abilene, TX (USA)	Patients with acute CVAS self-select energy efficient walking speeds on tile, dirt and gravel	2003	J of the American physical therapy association	EN	Abstract	GAIT
K4b2	2003	Paolo Onorati, Rosa Antonucci, Gabriele Valli, Emanuela Berton, Francesca De Marco, Pietro Serra, Paolo Palange	University of Rome "La Sapienza", dept of clinical medicine , Rome, Italy	Non-invasive evaluation of gas exchange during a shuttle walking test vs. a 6-min walking test to assess exercise tolerance in COPD patients	2003, 89, 331-336	European Journal of Applied Physiology	EN	Article	Clinical (COPD)
K4b2	2003	Peter Schilcher, Hermann Schwameder, Elke Lindenhofer, Susanne Ring	Institute of sport science, University of Salzburg (Austria);	Effect of different binding-boot on mechanical and metabolic energy in ski-touring	2003, Salzburg	ECSS	EN	Abstract	Skiing
K4b2	2003	R. Reer, W. Beckmann, K M Braumann	Institute for sports & exercise medicine, University of Hamburg, Germany	Do braces influence physical performance?	2003	ACSM	EN	Poster	Exercise physiology
K4b2	2003	Robert Jones & Agnes Hunt	Orthopaedic & District Hospital NHS Trust, Oswestry, Shropshire, UK	The Case for gait analysis as part of the management of incomplete spinal cord injury	Spinal Cord (2003) 41, 479-482	Spinal Cord	En	Article	Gait
K4b2	2003	Robert Jones & Agnes Hunt	Orthopaedic & District Hospital NHS Trust, Oswestry, Shropshire, UK	The Case for gait analysis as part of the management of incomplete spinal cord injury	Spinal Cord (2003) 41, 479-482	Spinal Cord	EN	Abstract	GAIT
K4b2	2003	S. Myers, S. Harris, I. Chesner, A. Bradwell	QinetiQ Centre for Human Sciences , QinetiQ, Birmingham Heartlands hospital, Dept. Immunology Medical School Univ Birmingham UK	Maximal oxygen uptake at altitude using a breath-by-breath metabolic analyser and supine cycleergometer.	19-22, 2003 Banff, Alberta, Canada	13th International Hypoxia Symposium February	EN	Abstract	Altitude
K4b2	2003	S. Myers, W. Withey	QinetiQ Centre for Human Sciences	Operation of a portable metabolic monitor at low ambient temperature	19-22, 2003 Banff, Alberta, Canada	13th International Hypoxia Symposium February	EN	Abstract	Altitude
K4b2	2003	Susanne Ring, Marlies Malzer, Elizabeth Ardelt Gattinger, Erich Muller	Institute of sport science, Institute of Psychology University of Salzburg (Austria)	Determination of aerobic Fitness in obese adults: comparison of a lab and field test method	2003, Salzburg	ECSS	EN	Abstract	Clinical (Obesity)
K4b2	2003	Thomas Elju E., Giuseppe De Vito, Andrea Macaluso	Applied Physiology group, Strathclyde Institute for biomedical science, University of Strathclyde, Glasgow (UK)	Energy cost of walking on a treadmill varies with body weight unloading and speed in both healthy young and older women	2003, Salzburg	ECSS	EN	Abstract	Exercise physiology

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K4b2	2003	Tomas Gabrys, Ursula Szmatlan-Gabrys, Anna Monz, Michal Plewa	Academy of Physical education of Warsaw and Katowice (Poland)	Skiers Interval Anaerobic test (SIAT) a new method of measuring anaerobic capacity in cross-country skiers	2003, Salzburg	ECSS	EN	Abstract	Skiing
K4b2	2003	Veronique Billat, Pierre Marie Lepretre, Anne-Marie Heugas, Mille-Hamard Laurence, Drai Salim, Jean Pierre Koralsztein	Uni of Evry-Val d'Essonne (FR) Uni of Paris (FR), CCAS Paris (FR)	Training and Bioenergetic Characteristics in Elite Male and Female Kenyan Runners	2003, 0195-9131/03/3502-0297	Medicine & Science in Sports & Exercise	EN	Article	Running
K4b2	2003	Victor Mishchenko, Tomash Tomiak, Tetyana Kuehne	University school of physical education, Gdansk, Poland; University of Physical Education and Sport, Kiev, Ukraine	Inter-individual differences of anaerobic capacity in the homogenous groups of high performance athletes (rowers and cyclists)	2003, Salzburg	ECSS	EN	Abstract	Exercise physiology
K4b2	2003	Wayne T. Phillips, Joanna R. Ziuraitis	Dept. of Exercise and Wellness, Arizona State University	Energy Cost of the ACSM Single-set Resistance Training Protocol	2003, 17 (2), 350-355	J. of Strength & Condition. Research.	EN	Article	Exercise physiology
K4b2	2002	Alejandro Casas, Jordi Villaro, Roberto Rabinovich, Ana F. Mayer, Jose Luis Valera, Emanuela Bertoni, Joan A. Barbera, Roberto Rodriguez-Roisin, Josep Roca	Servei de Pneumologia, Hospital Clinic Barcelona (ES), Escola Universitaria d'infermeria y fisioterapia (EUIF) Blanquerna Universitat Ramon Llull, Barcelona (ES)	Physiological responses during four clinical exercise protocols in COPD patients	2002	ERS	EN	Abstract	Clinical (COPD)
K4b2	2002	Atul Singhal, Stephany Parker, Louise Linsell, and Graham Serjeant	MRC Childhood Nutrition Research Center, Institute of Child Health, London (AS); the Cooperative Extension Service and the Department of Nutritional Sciences, klahoma State University, Stillwater (SP)	Energy intake and resting metabolic rate in preschool Jamaican children with homozygous sickle cell disease	2002;75:1093-7.	American Journal Clinical Nutrition	EN	Article	Paediatric & Children
K4b2	2002	Brona McDowell, Aidan Cosgrove, Richard Baker	Rehab. Sciences Research group, Uni of Ulster, newtonberry, Green Park Healthcare trust, Belfast	Estimating mechanical cost in subjects with myelomeningocele	2002, 15, 25-31	Gait & Posture	EN	Article	GAIT
K4b2	2002	F. A. Rodriguez, K. L. Keskinen, O. P. Keskinen, M. Malvela	National Inst. of Phys. Edu. of Catalunya, Uni of Barcelona (ES); Uni of Jyvaskyla, Dept of biology of physical activity (FIN)	Oxygen uptake kinetics during free swimming: a pilot study	Saint Etienne (FR) 2002	World Symposium Biomechanics & medicine in swimming	EN	Abstract	Swimming
K4b2	2002	G. Baquet, S. Berthoin, G. Dupon, N. Blondel, C. Fabre, E. van Praagh	faculté du sport, Université de Lille 2 (FR), UFR STAPS, Université de l'Artois (FR), UFR STAPS Université Blaise Pascal, Clermond Ferrand (FR).	Effects of High Intensity Intermittent Training on Peak VO2 in Prepubertal Children	2002; 23: 439-444	International Journal of Sport Medicine	EN	Article	Paediatric & Children
K4b2	2002	Giuseppe Morici, Loredana Riccobono, Daniele Zangala, Rossana Di Giorgi, Franco Mirabella, Anna Bonanno, Laura Chimenti, Francesco Pomara, Arcangelo Benigno, Antonio M. Vignola, Maria R. Bonsignore, Giovanni Bonsignore	Dept. of Experimental medicine, Uni of Palermo (IT), Inst. of Respiratory Pathophysiology CNR Palermo (IT), Ist. Medicina generale e Pneumologia, Uni of Palermo (IT)	Induced sputum and exhaled nitric oxide (NO) after short and intense exercise in competitive rowers	2002	ERS	EN	Abstract	Rowing
K4b2	2002	Gregoire P.Millet, Bernard Jaouen, Fabio Borrani, Robin Candau	UPRES-EA 2991, Sport, performance, Santé (FR); Faculte des sciences du sport Montpellier (FR); CREPS Montpellier (FR)	Effects of concurrent endurance and strength training on running economy and VO2 kinetics	2002, 0195-9131/02/3408-1351	Medicine & Science in Sports & Exercise	EN	Article	Exercise physiology
K4b2	2002	Gregory Dupont, Nicolas Blondel, Ghislaine Lenseil, Serge Berthoin	Faculté des sciences du sport et de l'éducation physique, Université de Lille 2 (FR)	Critical Velocity and Time Spent at a High Level of VO2 for Short Intermittent Runs at Supramaximal Velocities	2002, 27 (2), 103-115	Canadian J. of Appl. Physiol.	EN	Article	Running
K4b2	2002	I. Vogiatzis, G. De Vito, A. Rodio, A. Madaffari, M. Marchetti	Strathclyde Institute for Biomedical Sciences, University of Strathclyde	The physiological demands of sail pumping in Olympic level	(2002) 86: 450-454	European Journal of Applied Physiology	EN	Article	Sailing
K4b2	2002	Ioannis Vogiatzis, Giuseppe De Vito, Andrea Rodio, Marco Marchetti	National & Kapodistrian University of Athens	Comparison of the physiological responses to upwind and downwind sailpumping in windsurfers	Vol 33, No 2, P69	NZJSM	EN	Article	Sailing
K4b2	2002	Marc Vanderthommen, Marc Francaux, Cedrik Colinet, Cedric Lehanche, Claude Lhermerout, Jean-Michel Crielaard, Daniel Theisen	Institut Supérieur d'Éducation Physique et de Kinesithérapie et Readaptation, Université de Liege, Belgium; Institut d'Éducation Physique et de Readaptation, Université Catholique de Louvain, Belgium	A multistage field test of wheelchair users for evaluation of fitness and prediction of peak oxygen consumption	Vol. 39 No. 6, Nov./Dec. 2002 Pages 685-692	Journal of Rehabilitation Research & Development	EN	Article	Disabled
K4b2	2002	Marcello Faina, Piero Faccini	C.O.N.I., Istituto di Scienza dello Sport, Rome, Italy	Functional model of fire fighter activity and assesment of physiological capacities	2002 Rome 18-20 April	Firefighters: safety in rescue operations	EN	Article	Firefighter
K4b2	2002	Millet, G. P., C. Tronche, N. Fuster, and R. Candau	UPRES-EA 2991 Sport, Performance, Sante, Faculte des Sciences du Sport, Montpellier, FRANCE	Level ground and uphill cycling efficiency in seated and standing positions	34:1645-1652, 2002	Medicine & Science in Sports & Exercise	EN	Article	Cycling
K4b2	2002	Nigel K.Stepto, Andrew L. Carey, Heidi M. Staudacher, Nicola K. Cummings, Louise M. Burke, John A. Hawley	Exercise Metabolism group, School of medicine sciences, faculty of Health sciences, RMIT Uni of Bandoora (AUS); Australian Inst. of Sport, Belconnen (AUS)	Effect of short-term fat adaptation on high-intensity training	2002, 0195-9131/02/3403-0449	Medicine & Science in Sports & Exercise	EN	Article	Exercise physiology
K4b2	2002	R. A. Littlewood, M. S. White, K. L. Bell, P. S. W. Davies, G. J. Cleghorn, R. Grote	Children's nutritional research center, dept of paediatrics and child health, University of Queensland (AUS), Statewide paediatric rehabilitation service, Royal Children's hospital (AUS)	Comparison of the Cosmed K4b2 and the Deltatrac II metabolic cart in measuring resting energy expenditure in adults	(2002) 21(6): 491-497	Clinical nutrition ONLY PAPER - DO NOT DISTRIBUTE	EN	Article	Validation
K4b2	2002	T. Troosters, R. Rabinovich, Jordi Villaro, R. Rabinovich, A. Casas, J. A. Barbera, R. Rodríguez-Roisin, J. Roca	Katholieke Universiteit of Luoven (BE), EUIF Blanquerna, Universitat Ramon Llull, Barcelona (ES), Universitat de Barcelona (ES)	Physiological responses to the 6-min walk test in patients with chronic obstructive pulmonary disease	2002; 20: 564-569	European Respiratory Journal	EN	Article	Clinical (COPD)
K4b2	2001	Murray J. Chrusch, Philip D. Chilibeck, Karin E. Chad, K. Shawn Davison, Darren G. Burke	College of Kinesiology, University of Saskatchewan, Saskatoon, Saskatchewan Canada	Creatine supplementation combined with resistance training in older men	2001, 0195-9131/01/3312-2111	Medicine & Science in Sports & Exercise	EN	Article	Food Supplement
K4b2	2001	A. Dourado, M. Peduti Dal'Molin Kiss, L. Reeberg Stanganelli, A. Frisseli, L. Bobroff Daros	Universidade Estadual de Londrina, Cenesp-UEL, Brazil; Universidade de Sao Paulo Cenesp-USP, Brazil; Londrina Country Club, Brazil; Londrina Esporte Clube, Brazil	Validation of the yo-yo (shuttle run) intermittent test of aerobic resistance for soccer players	Cologne 24-28, July, 2001	ECSS	EN	Abstract	Football

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K4b2	2001	A. Ferrauti, B. Jentsch, E. Grodzinski, H Loehr, K. Weber	Institute for sport games, German sport university Cologne (DE)	Metabolic and cardiovascular demands in womens senior golf	Cologne 24-28, July, 2001	ECSS	EN	Abstract	Golf
K4b2	2001	A. Jastrzebska	Dept of exercise physiology, University of Physical education, Wroclaw, Poland	Searching the work rate for physical ability estimation	Cologne 24-28, July, 2001	ECSS	EN	Abstract	Exercise physiology
K4b2	2001	A. Schmidt, S. Weber	Institute of sports and environment (dept of cycling) German Sport university Cologne (DE)	Pedaling technique effects cycling performance.	Cologne 24-28, July, 2001	ECSS	EN	Abstract	Cycling
K4b2	2001	Alexandre P. Demarle, Jean J. Slawinski, Laurent P. Laffitte, Valery G. Bocquet, Jean Pierre Koralsztein, Veronique Billat,	Faculte de science du sport, Université de Lille 2, Ronchin (FR) Université du Paris (FR), CCAS Paris (FR)	Decrease of O2 deficit is a potential factor in increased time to exhaustion after specific endurance training	2001, 90, 947-953	J. Appl. Physiol.	EN	Article	Running
K4b2	2001	B. Dawson*, N. Randall, K. Cowper & H. Pinnington	Human Movement and Exercise Science, The University of Western Australia	Minimum aerobic fitness standards for Western Australian firefighters	2001	Australian Conference of Science and Medicine in Sport	EN	Abstract	Firefighter
K4b2	2001	B. Ochmann	dept of exercise physiology, University of Physical education, Wroclaw, Poland	Generalized regression neural networks for prediction of VO2 in progressive exercise on cycle ergometer	Cologne 24-28, July, 2001	ECSS	EN	Abstract	Exercise physiology
K4b2	2001	Ching Lan, Ssu-Yuan Chen, Jin-Shin Lai, May-Kuen Wong	National Taiwan University hospital; Chang Gung Memorial Hospital, Taipei, Taiwan ;	Heart Rate Responses and Oxygen Consumption during Tai Chi Chuan Practice	2001, vol 29, Nos. 3-4, pp. 403-410	American J. Chinese Med.	EN	Article	Combat Sports
K4b2	2001	Duncan J. Macfarlane	Physical Education and Sports Science Unit, The University of Hong Kong, Pokfulam, Hong Kong	Automated Metabolic Gas Analysis Systems	2001; 31 (12)	Sports Med	EN	Article	Validation
K4b2	2001	E. Berton, P. Francia, F. De Marco, P. Onorati, A. Rosato, R. Antonucci, M. Curione, S. Carlone, P.Palange	University "LA SAPIENZA" Rome, Italy; Dipartimento di medicina clinica, Seconda clinica medica	Ventilatory and metabolic adaptations to cycling ( C) and walking (W) in patients with chronic heart failure (CHF)	2001 Berlin	ERS	EN	Abstract	Clinical (Cardiovascular)
K4b2	2001	E. Franchini, M. Takito, R. Bertuzzi, C. Cavinato, M. Kiss	Laboratory of sport performance, Physical education and sport school, University of Sao Paolo (Brazil)	Physiological and metabolic profile of upper body intermittent anaerobic exercise	Cologne 24-28, July, 2001	ECSS	EN	Abstract	Exercise physiology
K4b2	2001	Eli R. Groppo, Andrew T. Mahar, Rachel C. VanderLinden, Adnan Kutuk, Robert K. Eastlack, Amy Langemack, Greg C. Steinbach, Robert A. Pedowitz, Alan R. Hargens	Dept of Orthopaedics, University of California, San Diego, CA (USA); Orthopaedic Biomechanics Research Center, Children's Hospital San Diego, CA (USA);	The Use of a lower body pressure chamber as a rehabilitation and training modality: a Biomechanical Analysis	2001	American Society of Biomechanics	EN	Lecture	Product Validation
K4b2	2001	F. Rodriguez, T. Cabanes, X. Iglesias, j. Garcia-Manso, J. Ventura, M. Huertas, R. Costa	Institut nacional d'Educacio Fisica de Catalunya, Universtat de Barcellona, Spain; Departamento de educacion fisica, Universidad de Las Palmas de Gran Canaria Spain	Cycling performance and Vo2 kinetics at sea level and simulated Altitude (2230 m) in world-class track cyclists	Cologne 24-28, July, 2001	ECSS	EN	Abstract	Altitude
K4b2	2001	G. Galvani, M. Massarini, R. Laukkanen, H. Kimmunen	Technogym Research Center, Gambettola (IT); Polar Electro Oy, Kempele, Finland; University of Oulu Dept of Medicine, Oulu, Finland;	Training threshold determination based on heart rate variability on cardioVascular equipment	Cologne 24-28, July, 2001	ECSS	EN	Abstract	Product Validation
K4b2	2001	H. C. Pinnington, P. Wong, J. Tay, D. Green, B. Dawson	Dept of human movement and exercise sciences, the university of Western Australia (Perth, Aus)	The level of accuracy and agreement in measures of FEO2, FECO2 and VE between the Cosmed K4b2 portable, respiratory gas analysis system and a metabolic cart	2001 Sep; 4(3):324-35	J Sci Med Sport	EN	Abstract	Validation
K4b2	2001	Hua Ting, Xing-Guo Sun, Ming-Lung Chuang, David A. Lewis, James E. Hanson, and Karlman Wasserman	Division of Respiratory and Critical Care Physiology and Medicine, Department of Medicine, Harbor-UCLA Medical Center, Torrance, USA; Chung Shan Medical and Dental College, Taichung, Taiwan; Chang Gung Memorial Hospital, Taipei, Taiwan.	A non invasive assessment of pulmonary perfusion abnormality in patients with primary pulmonary hypertension	2001;119:824-832	Chest	EN	Article	Clinical (Pulmonary)
K4b2	2001	J. E. McLaughlin, G. A. King, E. T. Howley, D. R. Basset, B. E. Ainsworth	University of Tennessee, Knoxville (USA); University of South Carolina (USA)	Validation of the Cosmed K4b2 portable Metabolic System	2001; 22: 280-284	International Journal of Sport Medicine	EN	Article	Validation
K4b2	2001	J. Harrell		Fighting Childhood Cardiovascular Risk Factors and their Adulthood Consequences.	2000-2001 11	Carolina Nursing Research Chronicle	EN	Article	Clinical (Cardiovascular)
K4b2	2001	J. M. Labreche	B.H.K. University of British Columbia	Metabolic specificity in outrigger canoe paddlers	2001		EN	Dissertation	Rowing
K4b2	2001	J. Merkari, K. Keskinen, F. Rodriguez	University of Jyväskylä, Finland; Istitut Nacional d'Educacio Fisica de Catalunya, University of Barcellona, Spain	Effects of body position and water immersion on human cardiorespiratory and metabolic responses	Cologne 24-28, July, 2001	ECSS	EN	Abstract	Water based activities
K4b2	2001	K. Keskinen, F. Rodriguez, M. Kusch, U. Hoffmann	University of Jyväskylä, Finland; Istitut Nacional d'Educacio Fisica de Catalunya, University of Barcellona, Spain; Physiologisches Institut, Deutsche Sporthochschule Köln, Germany	Validity of breath by breath spirometric measurements with two swimming snorkels	Cologne 24-28, July, 2001	ECSS	EN	Abstract	Aquatrainer validation
K4b2	2001	K. Keskinen, O. Keskinen, F. Rodriguez	University of Jyväskylä, Finland; Istitut Nacional d'Educacio Fisica de Catalunya, University of Barcellona, Spain	Effect of a respiratory Snorkel and Valve system on front crawl kinematics during standardized pool testing	Cologne 24-28, July, 2001	ECSS	EN	Abstract	Aquatrainer validation
K4b2	2001	K. Keskinen, O. Keskinen, F. Rodriguez	University of Jyväskylä, Finland; Istitut Nacional d'Educacio Fisica de Catalunya, University of Barcellona, Spain	Aerobic cost of crawl during an incremental pool test measured by breath by breath gas analysis	Cologne 24-28, July, 2001	ECSS	EN	Abstract	Swimming
K4b2	2001	K.L. Keskinen, F.A. Rodriguez, M. Kusch, U. Hoffmann	Department of Biology of Physical Activity, University of Jyväskylä, Finland	Validity of breath-by-breath spirometric measurements with two swimming snorkels	2001	IXth World Symposium Biomechanics and Medicine in Swimming, Saint Etienne, France	EN	Abstract	Aquatrainer validation
K4b2	2001	Kristin Leigh Campbell	School of human kinetics, University of British Columbia	Body changes in women undergoing chemotherapy for breast cancer	2001		EN	Dissertation	Clinical (Cancer)

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K4b2	2001	Kristopher H. Doyon, Stephane Perrey, Daijiro Abe, Richard L. Hughson	Dept of Kinesiology, University of Waterloo, Ontario (CA);	Field testing of VO2 peak in cross-country skiers with portable breath by breath system	2001; 26(1): 1-11	Canadian J. of Appl. Physiol.	EN	Article	Skiing
K4b2	2001	L. V. Billat	Faculty of Sport Science, University Lille, Lille, France	Interval Training for Performance: A Scientific and Empirical Practice	2001; 31 (1): 13-31 0112-1642/01/0001-0013	Sports Med	EN	Article	Running
K4b2	2001	M. Kiss, R. Vilela, K. Matsushigue, E. Franchini, V. Martin, M. Regazzini	Laboratory of sport performance, Physical education and sport school, University of Sao Paolo (Brazil)	Aerobic power of Young soccer players in treadmill and 20 m shuttle run test	Cologne 24-28, July, 2001	ECSS	EN	Abstract	Football
K4b2	2001	Maassen N., Schneider B., Schroder O., Mathews J.	Department of the Sports Physiology, Medical School, Hannover, Germany	Kinetics of oxygen uptake during exercise is dependent on carbohydrate intake	Marseille (France), October 4-6, 2001	Workshop 'Non Invasive Investigation of Muscle Function'	EN	Abstract	Exercise physiology
K4b2	2001	Macfarlane DJ	Physical Education and Sports Science Unit, The University of Hong Kong, Pokfulam	Automated metabolic gas analysis systems: a review.	2001;31(12):841-61.	Sports Med.	EN	Article	Validation
K4b2	2001	N. Blondel, G. Lensele, S. Berthoin, V. Billat	Laboratoire d'étude de la motricité humaine, Université de Lille II (FR); Laboratoire d'Analyse multidisciplinaire des activités physiques et sportives (LAMAPS), UFRSTAPS de Lievin, Université d'Artois, France	Relationship between run times to exhaustion at 90, 100, 120 and 140% of vVO2 max and velocity expressed relatively to critical velocity and maximal velocity	2001; 22:27-33	International Journal of Sport Medicine	EN	Article	Running
K4b2	2001	Philippe Terrier, Quentin Ladetto, Bertrand Merminod, Yves Schultz	Institute of Physiology, University of Lausanne, Lausanne, Switzerland; Institute of Geomatics Swiss Federal Institute of technology, Lausanne Switzerland	Measurement of the mechanical power of walking by satellite positioning system (GPS)	2001, 0195-9131/01/3311-1912	Medicine & Science in Sports & Exercise	EN	Article	Exercise physiology
K4b2	2001	R. Acero, M. Del Olmo, J. Tuimil, X. Iglesias, F. Rodriguez	Instituto nacional de Educacion Fisica de Galicia, Universidade da Coruna, Spain; Institut Nacional d'Educacio Fisica de Catalunya, Universitat de Barcelona Spain	Running Pattern during exhaustive track test at the maximum aerobic speed and time limit performance	Cologne 24-28, July, 2001	ECSS	EN	Abstract	Running
K4b2	2001	R. Acero, M. Del Olmo, J. Tuimil, X. Iglesias, F. Rodriguez	Instituto nacional de Educacion Fisica de Galicia, Universidade da Coruna, Spain; Institut Nacional d'Educacio Fisica de Catalunya, Universitat de Barcelona Spain	Running Efficiency parameters during a track test for the determination of the aerobic speed	Cologne 24-28, July, 2001	ECSS	EN	Abstract	Running
K4b2	2001	S. Ring, B. Paulweber, L. Schirhofer, M. Weiss, E. Muller	Institute of sport sciences, University of Salzburg, Austria; dept of internal medicine, St. Johanns Hospital, Landeskliniken Slazburg	Dose-Response effects in physical activity and blood lipids of sedentary males with metabolic syndrome	Cologne 24-28, July, 2001	ECSS	EN	Abstract	Clinical (Obesity)
K4b2	2001	S.Perrey, A.Betik, R. Candau, J. D. Rouillon, R. L. Hughson	University of Waterloo, Ontario (CA); UFRSTAPS, Besancon Cedex (FR); Université de Montpellier, Montpellier (FR)	Comparison of oxygen uptake kinetics during concentric and eccentric cycle exercise	2001, 91, 2135-2142	J. Appl. Physiol.	EN	Article	Exercise physiology
K4b2	2001	Scott Crouter, Carl Foster, Phillip Esten, Glen Brice, John P. Porcari	Dept of Exercise and Sport Science, University of Wisconsin-La Crosse (USA)	Comparison of incremental treadmill exercise and free range running	2001, 0195-9131/01/3304-0644	Medicine & Science in Sports & Exercise	EN	Article	Exercise physiology
K4b2	2001	Scott J. Strath, David R. Bassett, Ann M. Swartz, Dixie L. Thompson	Dept. of exercise science and sport management University of Tennessee, Knoxvilleville (TN)	Simultaneous heart rate-motion sensor technique to estimate energy expenditure	2001, 0195-9131/01/3312-2118	Medicine & Science in Sports & Exercise	EN	Article	Exercise physiology
K4b2	2001	Sue Ann Sisto	Kesseler medical rehabilitation research & education corporation	The human performance and movement analysis laboratory: investigating novel ways of overcoming disability	Volume 1, 2001	Innovations	EN	Article	GAIT
K4b2	2001	U. Hartmann, M. Niessen, B. Sasse, R. Paulet, J. Mester	Institute for theory and practice of training and movement, German Sport University of Cologne (DE); Institute for theory and practice in sports, Faculty of sport science,, Technical University Munich (DE)	The effect of an oral MCT-Based supplementation on athletic performance and energy metabolism	Cologne 24-28, July, 2001	ECSS	EN	Abstract	Food Supplement
K4b2	2001	V. Mishchenko, A. Suchanowski, T. Tomiak	University school of physical education, Gdansk, Poland	The features of endurance performance in elite rowers with different VO2 Kinetics response	Cologne 24-28, July, 2001	ECSS	EN	Abstract	Rowing
K4b2	2001	Veronique Billat, Alexandre Demarle, Jean Slawinski, Mario Paiva, Jean Pierre Koralsztein	Faculty of sport science, Université de Lille 2 (FR); University of Porto (PT); CCAS, Paris (FR);	Physical and training characteristics of top-class marathon runners	2001, 0195-9131/01/3312-2089	Medicine & Science in Sports & Exercise	EN	Article	Running
K4b2	2001	Veronique Billat, Jean Slawinski, Mathieu Danel, Jean Pierre Koralsztein	Faculty of sport science, Université de Lille 2 (FR); CCAS, Paris (FR);	Effect of free versus constant pace on performance and oxygen kinetics in running	2001, 0195-9131/01/3312-2082	Medicine & Science in Sports & Exercise	EN	Article	Running
K4b2	2001	Veronique Billat, Jean Slawinski, Alexandre Demarle, P. Chassaing, Jean Pierre Koralsztein	Laboratoire d'étude de la motricité humaine, Université de Lille II (FR); Faculté des sciences du sport Ronchin (FR); Centre de médecine du sport CCAS, Paris (FR);	Very short (15s-15s) Interval-Training Around the Critical Velocity Allows Middle-Aged Runners to maintain VO2 max for 14 minutes	2001; 22: 201-208	International Journal of Sport Medicine	EN	Article	Running
K4b2	2001	Yi-Jane Wu, Su-Yuan Chen, Ming-Chuan Lin, Ching Lan, Jin-Shin Lai	Dept of physical medicine and rehabilitation, National Taiwan University hospital, Taipei, Taiwan	Energy Expenditure of Wheeling and Walking During Prosthetic Rehabilitation in a Woman With Bilateral Transfemoral Amputations	2001, vol 82, 265-269	Arch Phys Med Rehabil	EN	Article	GAIT
K4b2	2000	A. Campbell, S. Enright, V. Unnithan	School of health sciences, Sheffield Hallam University, Sheffield (UK); School of Health care professions, University of Salford, Salford (UK); dept of exercise and sport science, University of S. Francisco (USA)	The effect of inspiratory muscle training on the measurement of resting energy expenditure in adult patients with cystic fibrosis and in healthy subjects	2000	ERS	EN	Abstract	Clinical (Cystic Fibrosis)
K4b2	2000	A. De Lorenzo, G. Cennamo	Università Tor Vergata Facoltà di Medicina e Chirurgia, Dipartimento di Neuroscienze, Rome Italy	Validazione di un calorimetro telemetrico portatile	2000		IT	Dissertation	Validation
K4b2	2000	B. Ruby, G. Ledbetter and D. Armstrong	University of Montana, Mesa State College, National Naval Medical Center.	Wildland Firefighter Load Carriage: Effects on Transit Time and Physiological Responses During Simulated Escape Route Evacuation	Fall 2000. No.2	Wildland Firefighter Health & Safety report	EN	Article	Firefighter
K4b2	2000	Brian Dawson, Nick Randall, Kate Cowper	Dept. of human movement and exercise science, The University of Western Australia	Minimum Aerobic fitness standards and changes to current physical performance test battery	2000	Internal report of the UWA	EN		Firefighter

Product	Year	Author	Institute	Title	Ref.	Journal/Meeting	Lang	Format	Topic
K4b2	2000	D. Bishop, S. Lawrence, M. Spencer, C. Rechichi	Western Australia institute of Sport, Perth Australia.	The relationship between VO2max, buffer capacity and repeated sprint ability (RSA) in elite female hockey players	2000, p.161	ECSS	EN	Abstract	Skating
K4b2	2000	E. Colantonio, E. Franchini, K. A. Matsushige, M. A. P. D. M. Kiss	Laboratory of sport performance, Physical education and sport school, University of Sao Paolo (Brazil)	Physiological and performance responses on two wingate bouts in adolescent athletes	2000, p.215	ECSS	EN	Abstract	Exercise physiology
K4b2	2000	E. Hynynen, K. Kalliokoski, K. Hakkinen, H. K. Rusko	KIHU - Research Institute for Olympic Sports, Jyväskylä, Finland; Neuromuscular research center & dept of biology and physical activity, Jyväskylä, Finland	Physiological comparison of classical vs free style skiing in adolescent cross-country skiers	2000, p.337	ECSS	EN	Abstract	Skiing
K4b2	2000	F. Rodriguez	Institut nacional d'Educacio Fisica de Catalunya, Universtat de Barcelona, Spain	Cardio-respiratory aspects in swimming	2000, p.89	ECSS	EN	Abstract	Swimming
K4b2	2000	G. Dupont, N. Blondel, V. Billat, S. Berthoin	Université de Lille 2 (FR); Université de Lievin, (FR); CCAS Paris	Determination of the velocity which allows to sustain longer time at VO2 max in short intermittent runs (15s)	2000, p.245	ECSS	EN	Abstract	Running
K4b2	2000	G. Tortorella, D. Manari, V. Guiducci, U. Guiducci	Unità Operativa di Cardiologia, Arcispedale Santa Maria Nuova, Reggio Emilia (IT)	Valutazione Integrata Cardiopolmonare durante test dei 6 minuti di cammino (6MWT): esperienza in un gruppo di pazienti affetti da scompenso cardiaco	2000 May, vol1, suppl.1	Italian Hearth Journal	IT	Abstract	Clinical (Cardiovascular)
K4b2	2000	J. Chapman, D. Claxton, L. Donnan, M. Fysh	The Sport Science research institute, Sheffield Hallam University Sheffield (UK); The Royal Children's Hospital, Melbourne, Australia	Oxygen cost of walking at self-selected speeds in achondroplastic subjects	2000, p.202	ECSS	EN	Abstract	GAIT
K4b2	2000	J. Poortmans, C. Colinet, C. Lehner, M. Francaux	Université libre de bruxelles, Belgium, Université Catholique de luovain, Belgium	Energy system utilization during wall climbing	2000,Vol32, N.5-S161	ACSM	EN	Abstract	Climbing
K4b2	2000	K. L. Keskinen, F. A. Rodriguez, O. P. Keskinen	University of Jyväskylä, Finland; Istitut Nacional d'Educacio Fisica de Catalunya, University of Barcelona, Spain	Comparative validity of a modified respiratory valve system for breath-by-breath gas analysis during swimming	2000, p. 392	ECSS	EN	Poster	Aquatrainer validation
K4b2	2000	K. L. Keskinen, F. A. Rodriguez, O. P. Keskinen	University of Jyväskylä, Finland; Istitut Nacional d'Educacio Fisica de Catalunya, University of Barcelona, Spain	Comparative validity of a respiratory swimming valve utilising breath-by-breath technique in measuring respiratory gases and ventilatory parameters	2000	ECSS	EN	Abstract	Aquatrainer validation
K4b2	2000	Lauren E. Ballard, Peter H. Brubaker, Gary D. Miller, Michael J. Berry	Dept of health and exercise science, Wake Forrest University, Wiston -Salem, NC (USA)	Oxygen consumption via Cosmed k4b2: Reliability and Implications for Exercise prescription	2000, vol.20, n.5, p.289	JCR AACVPR	EN	Abstract	Validation
K4b2	2000	M. Faina, C. Benvenuti, C. Marini, S. Lupo, V. Palmieri	Institute of sport science CONI (Rome-Italy); University Institute of Motor science, Rome (IT); Chatolico University of sacred Hearth (Rome IT)	Functional model of female five-side soccer	2000, p.251	ECSS	EN	Abstract	Football
K4b2	2000	Mitchell W. Craib, Julie L. Turner, David E. Kaminsky, Alan T. Arnholt, Alan P. Jung, Max Shute, David C. Nieman	Department of Health, Leisure and Exercise Science, Appalachian State University (USA)	Validity and reliability of the Cosmed K4b2 portable metabolic system	2000		EN		Validation
K4b2	2000	N. Blondel, P. M. Lepetre, M. Dabouca, V. Billat, S. Berthoin	Université de Lille 2 (FR); UFR STAPS de Lievin, Université d'Artois, (FR); CCAS Paris	Effects of interval training at supra-maximal velocities on time limit versus velocity relationship	2000, p.166	ECSS	EN	Abstract	Running
K4b2	2000	Norberto Santos, V. Billat, Mario Paiva	Faculty of sport science, Universite de Lille 2 (FR); University of Porto (PT);	Treino cientifico "da" primeiros passos	2000, 15/02, p.38-39	Record	ES	Article	Exercise physiology
K4b2	2000	O. P. Keskinen, K. L. Keskinen, A. Mero	Dept of biology of physical activity, University of Jyväskylä, Finland	Effect of pool length during exercise testing in swimming	2000, p.393	ECSS	EN	Abstract	Swimming
K4b2	2000	P.O. Jarvinen, K. L. Keskinen, K. Hakkinen	Dept of biology of physical activity, University of Jyväskylä, Finland	Post-exercise oxygen consumption and stroke performance in national level triathletes and competitive swimmers	2000, p. 367	ECSS	EN	Abstract	Swimming
K4b2	2000	Paolo Palange, Silvia Forte, Paolo Onorati, Felice Manfredi, Pietro Serra, S. Carlone	Dipartimento di Medicina Clinica, University of Rome "La Sapienza" (IT); CNR Rome (IT)	Ventilatory and metabolic adaptations to walking and cycling in patients with COPD	2000, 88, 1715-1720	J. Appl. Physiol.	EN	Article	Clinical (COPD)
K4b2	2000	R. Baker, A. Haush, B. McDowell	Musgrave Park Hospital, Belfast, Ulster (UK); University of Ulster, Newtownabbey, Ulster	Reducing the variability of oxygen consumption measurements	2000	Gait & Posture	EN	Article	GAIT
K4b2	2000	S. Berthoin, N. Blondel, G. Dupont, P. Mary, P. Bacquaert	Univerité de Lille 2, France; Université de lievin, (FR); Institut Regional de biologie et de medicine du sport, Ronchin (FR)	Predicting sprint kinematic parameters from anaerobic field-tests	2000, p.159	ECSS	EN	Abstract	Running
K4b2	2000	Scott J. Strath, David R. Basset, Ann M. Swartz, William O'Brien, George A. King, Barbara E. Ainsworth	University of Tennessee, Knoxville (USA); University of South Carolina (USA)	Validity of four motion sensors in measuring moderate intensity physical activity	2000,0195,S471-479	Medicine & Science in Sports & Exercise	EN	Article	Product Validation
K4b2	2000	Scott J. Strath, David R. Basset, Ann M. Swartz, William O'Brien, George A. King, Barbara E. Ainsworth	University of Tennessee, Knoxville (USA); University of South Carolina (USA)	Estimation of energy expenditure using CSA accelerometers at hip and wrist sites	2000,0195,S450-456	Medicine & Science in Sports & Exercise	EN	Article	Product Validation
K4b2	2000	Scott J. Strath, David R. Basset, Ann M. Swartz, William O'Brien, George A. King, Barbara E. Ainsworth	University of Tennessee, Knoxville (USA); University of South Carolina (USA)	Evaluation of heart rate as a method for assessing moderate intensity physical activity	2000,0195,S465-469	Medicine & Science in Sports & Exercise	EN	Article	Exercise physiology
K4b2	2000	Susan Sienko, Craig McDonald	Shriners Hospital For Children, OR (USA); University of California, Davis CA (USA);	Methodologies and considerations in the assesment of energy efficiency and the usefulness of energy measurements for intervention outcome assesment	2000	CGMAS - gait and clinic movement analysis society	EN	Lecture	GAIT
K4b2	2000	T. Held, R. Steiner, K. Hubner, B. Marti	Institute of Sport sciences, Federal Office of Sports, Magglingen, Switzerland	Validation of a new field test with self-selected running velocities to estimate endurance capacity in runners	2000, p. 320	ECSS	EN	Abstract	Running
K4b2	2000	T. Troosters, R. Rabinovich, Jordi Villaro, A. Capitan, C. Villar, E. Gonzales, R. Rodriguez-Roisin, J. Roca	Katholieke Universiteit of Luoven (BE), EUIF Blanquerna, Universitat Ramon Llull, Barcellona (ES), Universitat de Barcellona (ES)	The six minute walking test in COPD, a submaximal test?	2000	ERS	EN	Abstract	Clinical (COPD)

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K4b2	2000	T. Troosters, R. Rabinovich, Jordi Villaro, A. Capitan, C. Villar, E. Gonzales, R. Rodriguez-Roisin, J. Roca	Katholieke Universiteit of Luoven (BE), EUIF Blanquerna, Universitat Ramon Llull, Barcellona (ES), Universitat de Barcellona (ES)	Oxygen uptake kinetics during a six minute walking test in COPD	2000	ERS	EN	Abstract	Clinical (COPD)
K4b2	2000	V. Billat, Cyril Petibois	University of Lille 2 (FR), Université Victor Segalen Bordeaux 2 (FR);	Le k4, les Nouveaux tests de Terrain Arrivent	2000, n.117, p. 82-83	Marathon V02	FR	Article	Validation
K4b2	2000	V.Billat, M. Paevia, A. Demarle, J. Slawinski, C. Pettibois, J. P. Koralsztein	University of Lille 2 (FR), University of Porto (PT), Université Victor Segalen Bordeaux 2 (FR); CCAS Paris (FR)	Optimisation of Marathon Performance Through Testing	2000, p.28	ECSS	EN	Abstract	Running
K4b2	2000	Veronique Billat, Jean Slawinski, Valery Bocquet, Alexandre Demarle, Patrick Chassaing, Jean Pierre Koralsztein	Laboratoire d'etude de la motricité humaine, Université de Lille II (FR); Faculté des sciences du sport Ronchin (FR); Centre de médecine du sport CCAS, Paris (FR);	Intermittent runs at the velocity associated with maximal oxygen uptake enables subjects to remain at maximal oxygen uptake for a longer time than intense but submaximal runs	2000,81, 188-196	European Journal of Applied Physiology	EN	Article	Running
K4b2	2000	W.Mishchenko, A Suchanowski, R. Laskowski	Dept of theory of sport ans physiology, University school of Physical Education Gdansk, Poland	The determination of specialised training effects in high-level rowers on the basis of accounting specific features of cardio-respiratory response.	2000, p. 501	ECSS	EN	Abstract	Rowing
K4b2	1999	Boyd R, Fatone S, Rodda J, Olesch C, Starr R, Cullis E, Gallagher D, Carlin JB, Nattrass GR, Graham K.	Hugh Williamson Gait Laboratory, Royal Children's Hospital, Parkville, Victoria, Australia	High or low technology measurements of energy expenditure in clinical gait analysis?	1999 Oct;41(10):676-82	Dev Med Child Neurol.	EN	Article	GAIT
K4b2	1999	Craig McDonald, Denise D. Walsh, Lana Widman, Erik K. Ong, Sandra A Walsh	University of California, Davis (USA)	Energy Cost of Locomotion in Boys with Duchenne Muscular Dystrophy Measured with a portable metabolic cart	1999	NASGMA	EN	Abstract	GAIT
K4b2	1999	G. B. Mirri, M. Faina, F. Felici, A. Rosponi	CONI Institute of sport science, Rome (IT); University of Rome "La Sapienza", Institute of Human Physiology	Comparison between VO2 slow component at sea level and at high altitude	1999, vol.31,n.5, art.813	Medicine & Science in Sports & Exercise	EN	Abstract	Altitude
K4b2	1999	K. Baum, S. Hoy, F. Fischer, D. Leyk; O. Schmidt; D. Efeld	Department of Physiology, German Sport University Cologne, Cologne, GERMANY	Comparison between the physiological response to roller skiing and in-line skating in biathletes	April 1999 - Volume 31 - Issue 4 - pp 595-598	Medicine & Science in Sports & Exercise	EN	Article	Skating
K4b2	1999	S. Soeder, M. Niessen, U. Hartmann, U. Hoffmann, W. Hallmann	German Sport University, Cologne (DE);	Validity and reliability of Two portable Spirometric Systems compared to the results of a mass Flow Meter	1999, 20	International Journal of Sport Medicine	EN	Abstract	Validation
K4b2	1999	Shin-Jye Wu, Mao-Jiun J. Wang	National Tsing-Hua University, Taiwan	Acceptable Workload and acceptable working time	1999	Chinese Inst. of Industrial Engineers National Conference	EN	Article	Ergonomics
K4b2	1999	Walsh D. D., Widman L, Ong E. K.	University of California, Davis (USA)	Energy cost of locomotion during walking, running, and wheelchair locomotion in children using a portable metabolic cart	1999 ( Suppl. 80, Vol. 41:37)	Developmental Medicine and Child Neurology	EN	Abstract	GAIT
K4b2	1998	M. Faina, M. De Angelis, F. Anguillar	CONI Institute of sport science, Rome (IT);	Comparison of VO2 kinetics at onset of actual and laboratory simulated rowing performance	1998, p.279	ECSS	EN	Abstract	Exercise physiology
K4b2	1998	P. Onorati, S. Forte, P. Palange, G. De Rocco, P. Serra, S. Carlone	University of Rome "La Sapienza", dept of clinical medicine (IT); CNR Roma (IT);	Reliability of Breath-by breath measurement of O2 uptake (VO2) and CO2 production (VCO2) by a portable telemetric system	1998, P2774, p.425s	ERS	EN	Abstract	Validation
K4b2	1998	S. Forte, P. Palange, P. Onorati, V. Paravati, G. De Rocco, P. Serra, S. Carlone	University of Rome "La Sapienza", dept of clinical medicine (IT); CNR Roma (IT);	Relationship between peak oxygen uptake (VO2 peak) and VO2 time constant during maximal and moderate exercise in COPD	1998,P1926, p. 287s	ERS	EN	Abstract	Clinical (COPD)
K4b2	1998	V. Billat, B. Petit, J. P. Koralsztein	Laboratoire Science du sport, Université Paris 5 (FR); CCAS Paris (FR);	VO2 slow component for a severe exercise is not correlated with time to fatigue but depends on type of exercise(cycling vs running) and is not influenced by cadence	1998, p.14	ECSS	EN	Abstract	Exercise physiology
K4b2	1997	De Vito G.; Di Filippo L.; Rodio A.; Felici F.; Madaffari A.	Human Physiology Institute, University "La Sapienza", Rome, Italy	Is the Olympic Boardsailor an Endurance Athlete?	1997, vol. 18, no4, pp. 281-284	International Journal of Sport Medicine	EN	Article	Sailing
K4b2	1997	G. Castellano, S. Nardi, G. Gaudi	Corpo Veterinario dell'esercito, Infermeria Quadrupedi Presidiaria, Rome (IT); CONI Rome (IT);	Horse telemetry gas collection mask: field evaluation of athletic performances.	1997	WEVA	EN/IT	Article	Equine
K4b2	1996	E. Melanson, L. Edward; P.S. Freedson; R. Webb; S. Jungbluth, N. Kozlowski	Department of Exercise Science, University of Massachusetts, Amherst, MA, USA	Exercise responses to running and in-line skating at self-selected paces	February 1996 - Volume 28 - Issue 2 - pp 247-250	Medicine & Science in Sports & Exercise	EN	Article	Skating