

## Poster Session 1

**Adapted Physical Activity**

Janssen T. (Holland)

## PP1-1

Swimming force in disabled swimmers, a comparison with able-bodied swimmers

Abadía García de Vicuña O., I.F.J. García, O.F.J. Sarasa, A.O. Ascaso, N.V. Garatachea (Spain)

## PP1-2

Cycling for people with learning difficulties: a social science

Bartley J. (United Kingdom)

## PP1-3

Assuring competent aging of elderly persons with mental disabilities by an adapted exercise programme

Schoenfelder F., C. Peters, B. Zalfen, E. Wacker, H. Michna (Germany)

## PP1-4

Integrating students with special needs in Egypt primary schools, (parents and physical educators') attitudes: comparative study

Zeinab A. (Egypt)

## PP1-5

Down Syndrome elders: quantifying physical activity via pedometry

Marques A., M.V. Nahas, J.B. De Moura (Brazil)

## PP1-6

Analysing the Brazilian judo team participation in the Athens Paralympics games

Mataruna L., C.W. Oliveira Filho, J.G. Almeida José, W. Russo Jr., J. Costa, C. Vieira, G. Mayr, R. Matsui, J. Carvalho, M.P. Gomes, M.B. Almeida (Brazil)

## PP1-7

Participation of Yugoslavia and former Yugoslav countries in Paralympics Games from 1972 to 2004

Božic-Požeg N. (SCG)

## PP1-8

Physiological responses of wheelchair basketball athletes before and after eight weeks of regular training

Zacharakis M., M. Anastasiadis, G. Nassis, S. Kounalakis, N. Geladas (Greece)

## Poster Session 2

**Biochemistry**

Jackson M.J. (United Kingdom)

## PP2-1 YIA

Salivary IGF-I: assay and preliminary results on athletes

Antonelli G., E. Cappellin, P. Spinella, R. Gatti, B. Zecchin, E.F De Palo (Italy)

## PP2-2

The effects of exercise and vitamin E supplementation on indices of oxidative stress in people with glucose 6-phosphate dehydrogenase deficiency

Jamurtas T., N. Koukostas, E. Manthou, T. Tofas, Ch. Yfanti, V. Theocharis, P. Fotinakis, I.G. Fatouros, A. Kalamaras (Greece)

## PP2-3

Blood acid-base balance of elite alpine skiers during the competitions

Kulnazarov A., A. Ivanov, S. Sukhov (Rep. of Kazakhstan)

## PP2-4

The effect of an acute bout of aerobic exercise on white and red blood cell count in individuals with G6PD deficiency

Yfanti C., A. Jamurtas, E. Manthou, N. Koukostas, T. Tofas, V. Theocharis, I. Fatouros, A. Hatzigeorgiadis (Greece)

## PP2-5

Similar changes in the fatty acid profile of rat muscles, heart, liver and fat depots with exercise training

Petridou A., M.G. Nikolaidis, A. Matsakas, T. Schulz, H. Michna, V. Mougios (Greece)

## PP2-6

Plasma nitric oxide level during acute exercise

Hadžimuratovic A., E. Nakas-Icindic, A. Hadzovic, J. Huskic, N. Avdagic (Bosnia-Herzegovina)

## PP2-7

Free radicals generated in training condition muscle adaptations to exercise. Effect of antioxidant administration

Domenech E., M.C. Gomez-Cabrera, M. Romagnoli, C. Borrás, J. Markovic, J. Sastre, F. Pallardo, J. Viña (Spain)

## PP2-8

Biochemical responses to some skeletal muscle sport injuries and its significance

Abdel Kader S., S. Haraf (Egypt)

## PP2-9

The effect of two pre-exercise carbohydrate feedings on the postprandial and postexercise profiles of serum non-esterified fatty acids and triacylglycerols

Petridou A., C. Chryssanthopoulos, M. Maridaki, V. Mougios (Greece)

## Poster Session 3

**Biomechanics**

Nicol C. (France)

## PP3-1 YIA

Antagonist activation of triceps brachii is greater than biceps brachii muscle

Bazzucchi I., G. Marzattinocci, F. Felici (Italy)

## PP3-2 YIA

Decreased motor unit firing rate and force control in older men

Kallio J., V. Linnamo, J. Avela, M. Kanervo, K. Sřgaard, P.V. Komi (Finland)

*PP3-3 YIA*

Eccentric torque-velocity relationship of the elbow flexors

Chapman D., M. Newton, K. Nosaka (Australia)

*PP3-4*

Vertical looping in running

Belli A., R. Kram (France)

*PP3-5*

Vertical jumping performance during the time course of two consecutive beach volleyball games

Nikolaidou M.E., K. Barzouka, G. Malousaris, N. Bergeles, K. Boudolos (Greece)

*PP3-6*

Intra-stroke variation of velocity in the Butterfly stroke according to gender

Morouco P., R. Fernandes, P. Gonçalves, A. Lima, P.J. Vilas-Boas (Portugal)

*PP3-7*

The opinion on body stance of judo competitors in light of the fotogrametric method with usage of the Moire phenomenon

Zurek G., W. Blach, Z. Ignasiak (Poland)

*PP3-8*

Hammer throwers accelerate the hammer head according to Keper's 2nd Law

Ito A. (Japan)

*PP3-9*

Antagonist coactivation of the ankle joint muscles in young and elderly men

Simoneau E., A. Martin, J. Van Hoecke (France)

*PP3-10*

Influence of load-bearing and stance width on knee alignment

Sogabe A., M. Naoki, S. Miyakawa, S. Hitoshi, M. Yutaka, M. Noboru (Japan)

*PP3-11*

Biomechanical properties of skeletal muscle in child: The chronological overview

Šimunic B., R. Pišot, S. Rozman, J. Planinšec (Slovenia)

*Poster Session 4***Growth & Development**

Cramer R. (Canada)

*PP4-1 YIA*

The importance of child's motor activity for the development of posture - focusing on symmetry of m. erector spinae

Zurc J. (Slovenia)

*PP4-2*

A longitudinal comparison of anthropometrical parameters and bioelectrical impedance in pubertal boys and girls

Leppik A., T. Jürimäe, J. Jürimäe (Estonia)

*PP4-3*

The impact of place of residence on pulmonary function of 12-year old Greek children

Tsimeas P., G.D. Tsiotra, A.Z. Jamurtas, A.L. Tsiokanos, Y. Koutedakis (Greece)

*PP4-4*

Age anatomic-physiological preconditions for physical exercises usage at children and teenagers' scoliosis

Shklyarenko A., E.K. Agayants, T.G. Kovalenko (Russia)

*PP4-5*

The East African runners' superiority – Could it be related to anthropometrical characteristics in childhood?

Hageberg R., A. Aandstad, S. Berntsen, L. Klasson-Heggebø, A. Anderssen Sigmund (Norway)

*PP4-6*

Changes of body mass index and prevalence of obesity for schoolboys aged 7 to 10 years

Bucar-Pajek M., J. Strel, M. Kovac, J. Pajek (Slovenia)

*PP4-7*

Connectedness of general endurance of Slovenian primary and secondary school pupils with morphological characteristics in the period 1970-2003

Strel J., M. Kovac, M. Bucar Pajek, G. Jurak, G. Starc (Slovenia)

*PP4-8*

Characteristics of the postural status of young talented athletes related to the sport discipline

Karalic B., M. Dragojevic, M. Mihajlovic (SCG)

*PP4-9*

Motor characteristic of 8-16 years boys in Turkey

Odabas I., S. Pinar, C. Karagözoglu, M. Aslan, H. Kasap, I. Sahin (Turkey)

*PP4-10*

Child's physical and sport activity in the context of gender, environment and level of obesity

Pišot R., V.L. Kropelj, J. Zurc, T. Volmut, J. Završnik, J. Strel (Slovenia)

*Poster Session 5***Physical Activity, Health & Fitness**

Dickhuth H.H. (Germany), Ring S. (Austria)

*PP5-1 YIA*

Different walking techniques improve cardiovascular risk profile in dyslipidaemic postmenopausal women: The postmenopausal exercise prevention programme (PEPP)

Laqué M., S. Becker, H. Knigge, G. Montiel, K. Stromann, H.G. Predel (Germany)

## PP5-2

Effect of the aqua-exercise in floating position  
Asao H., U. Tomoyuki, K. Hideyuki, Y. Kaori,  
S. Yoshikazu (Japan)

## PP5-3

Theoretical-systems approach to developing health model  
Kovalenko T. (Russia)

## PP5-4

Comparisons of heart rate and blood pressure at heart sounds breaking point between young and middle-aged men  
Obara S., S. Shirakawa (Japan)

## PP5-5

The sport activities of Latvian students (boys and girls) of various age  
Porozovs J. (Latvia)

## PP5-6

Effects of 3-months exercise training on arterial compliance and plasma lipoprotein profiles in frail elderly people  
Takahashi H., M. Tsuboyama, K. Sato, T. Kumagai,  
K. Sugawara, R. Takita, H. Itoh (Japan)

## PP5-7

Body composition and physical fitness in active male adults  
Olivan Nasarre S., J.A. Casajus, J. Zaragoza, I. Ara (Spain)

## PP5-8

Table tennis – lifetime sport for middle-age people  
Zhukov A. (Russia)

## PP5-9

Characterization of the physical work capacity in the old age  
Däpp C., R. Steiner, V. Michael, S. Klossner,  
F. Lötscher, T. Löffel, H. Hoppele (Switzerland)

## PP5-10

Leg extension power asymmetry and recurrent injurious falls in healthy older women  
Portegijs E., S. Sipilä, S. Pajala, T. Rantanen (Finland)

## PP5-11

Recreational sport games for people of mature age  
Lihachev O. (Russia)

## PP5-12

The effects of sauna on pain relief and range of motion in rheumatoid arthritis patients  
Tabatabaee A. (Iran)

## PP5-13

Prescription and modeling of programmed physical activity in an integrated CVD and other NCD risk management  
Simovska V., M. Pecelj-Gec, V. Jorga, S. Zivanic, M. Vidin (Rep. of Macedonia)

## PP5-14

Morph functional and psycho physiological status of the lyceum pupils -teenagers who are not engaged in sports and of sports specialization (judo)  
Rapoport L., V. Baronenko, A. Shishkina (Russia)

## PP5-15

Body composition and physical fitness in urban and rural young girls  
Ara I., J.A. Casajus, J.A. Ferrando, M.T. Leiva, M.T. Aragones (Spain)

## PP5-16

Associations among functional measures and health related variables in Greek older men  
Kalapotharakos V., V. Stamou, A. Tripinioti, K. Karteroliotis (Greece)

## PP5-17

Six minute walk in elderly: influence of health status  
Mets T., I. Bautmans, M. Lambert (Belgium)

## PP5-18

Effects of general program of physical aquatic activity on fibromyalgia syndrome in middle-aged women  
Munguía D., D. Moliner, A. Legaz (Spain)

## Poster Session 6

**Management & Sport Law**

G. van der Lippe (Norway)

## PP6-1

The importance of the knowledge about sport management and legislation for undergraduate senior students of physical education  
Stanganelli P., A. Youssef (Brazil)

## PP6-2

Building functional model for management of automatic information fund concerning the physical fitness of the employees in the Ministry of Internal Affairs  
Georgiev P., B. Vihren (Bulgaria)

## PP6-3

The prevention of accidents in the water by the development of a life saving service  
Manojlovic D., A. Giuseppe (SCG)

## Poster Session 7

**Genetics & Molecular Biology**

Klarund-Pedersen B. (Denmark)

## PP7-1 YIA

Increased mRNA expression of angiogenic CCN1/Cyr61 and CCN2/CTGF but no change in lymphangiogenic vascular endothelial growth factors (VEGF)-C or-D in human skeletal muscle after fatiguing jumping exercise  
Kivelä R., H. Kyröläinen, H. Selänne, P.V. Komi, V. Vihko (Finland)

*PP7-2 YIA*

Alfa-actinin-3 gene (ACTN3) polymorphism in power-oriented athletes  
Druzhevskaya A., I. Astratenkova (Russia)

*PP7-3*

Effect of gender on collagen expression after acute eccentric loading in rat skeletal muscle  
Koskinen S., K.M. Heinemeier, P. Schjerling, T.E.S. Takala, J. Komulainen, M. Kjaer (Denmark)

*PP7-4*

PPAR- $\alpha$  intron 7 polymorphism and response to power training  
Ahmetov I., I. Astratenkova, A. Komkova, V. Rogozkin (Russia)

*PP7-5*

Molecular adaptations of voltage-gated sodium channel (NaCh),  $\alpha$ -syntrophin and dystrophin after fatiguing stretch-shortening cycle (SSC) exercise  
Piitulainen H., H. Kyröläinen, R. Kivelä, P.V. Komi (Finland)

*PP7-6*

Immunohistochemical evidence of satellite cells in human muscle biopsies from training studies – an investigation into the reliability of antibodies known from non-human mammalian studies  
Stieger C., P. Steinbacher, S. Ring-Dimitriou, W. Stoiber, A.M. Sängler (Austria)

*PP7-7*

Oxidative stress in marathon runners: interest of antioxidant supplementation  
Gomez-Cabrera M., M. Romagnoli, A. Alessandro, A. Martinez, G. Santangelo, E. Domenech, J. Viña (Spain)

*Poster Session 8***Motor Control & Learning**

Helsen W. (Belgium)

*PP8-1*

Surface electromyogram spectra of the lower limb with MemCalc Frequency Analysis during running exercise of human  
Nagata A., T. Tajima (Japan)

*PP8-2*

Importance of learning model in process of learning dances  
Spasic Z., M. Spasic, Đ. Miletic (Croatia)

*PP8-3*

Analysis of muscular activation during different leg press exercises with maximum and submaximum effort levels  
Silva E., A.P. Almeida, E.L. Cadore, P. Morouço, R.F. Silva, M.A. Brentano, L.F. Krueel (Brazil)

*PP8-4*

The connection between morphological and motor dimensions and the successfulness in alpine skiing  
Zvan M., B. Lešnik, M. Coh (Slovenia)

*PP8-5*

Assessment of the coincidence-anticipation timing with different stimulus speed in young swimmers and sedentaries  
Fernandes R., A. Pinho, I. Santos, M. Cardoso, R. Alves, P. Morouço, O. Vasconcelos (Portugal)

*Poster Session 9***Nutrition & Exercise**

Febbraio M. (Austria), Mora R. (Spain)

*PP9-1 YIA*

Knowledge, use and awareness of caffeine in elite athletes  
Anderson S., B. Desbrow (Australia)

*PP9-2*

Individualisation of young bicyclists nutrition in view of metabolic and genetic factors  
Dondukovskaya R., N.D. Golberg, A.A. Topanova, I.V. Astratenkova, D.A. Prusakova, V.A. Rogozkin (Russia)

*PP9-3*

Carbohydrate and protein gel increases finishing success during slalom ski race training  
Kipp R.W., J.G. Seifert, D.W. Bachrach (USA)

*PP9-4*

Muscle damage, hydration and energy supplementation during recreational alpine skiing  
Seifert G J., R.W. Kipp, M. Amann, O. Gazal (USA)

*PP9-5*

Carbohydrate, but not caffeine or other stimulants improves intermittent exercise performance in elite male cyclists  
Beades M., B. Donne, S. Warmington, N. Mahony (Ireland)

*PP9-6*

Effect of acute exercise at different intensities on gastric emptying after food intake in rats  
Nagamatsu T., A. Takashi, M. Kyoko (Japan)

*PP9-7*

Increased sodium concentration of a carbohydrate electrolyte solution does not preclude the benefits of rehydration on core temperature  
Lozano Calderon R., E. Estévez García, J. Del Coso Garrigós, A. López Dávila, R. Mora-Rodríguez (Spain)

*PP9-8*

The effect of six weeks supplementation of Oolong tea extracts on body composition and physical performance in wrestling athletes  
Bajerska-Jarzebowska J., J. Jeszka, A. Gramza, M. Remiszewski, E. Korbas, A. Jacek (Poland)

## PP9-9

Short-term effects of carbohydrate versus carbohydrate protein ingestion on subsequent resistance training performance in male rugby players

Coyle C., B. Donne, L. Hennessy, N. Mahony (Ireland)

## PP9-10

The effect of carbohydrate vs. protein supplementations on muscle in elderly after 12 weeks of resistance training

Esmarck-Meibom B., M. Kongsgaard, A. Sylvestersen, J. Just, G. Jensen, T. Oehenslaeger, M. Kjaer (Denmark)

## PP9-11

Importance of a brief questionnaire to assess calcium intake in young female athletes

Suzic S., Lj. Scepanovic, V. Vuckovic, S. Mazic, G. Ristic, J. Suzic (SCG)

## PP9-12

Effect of iron supplementation on body iron status and aerobic capacity

Raden S., S. Radakovic, M. Milivojevic, A. Jovelic (SCG)

## PP9-13

Physical activity and nutritional status in children of 4 and 7 years

Milivojevic M., S. Radjen, S.S. Radakovic, M. Surbatovic (SCG)

## PP9-14

Review of some parameters of nourishment in adolescent athletes

Maksimovic M., K. Paunovic, N. Vasiljevic, S. Stojanovic, I. Gajic, G. Ristic (SCG)

## PP9-15

Fluid retention properties of carbohydrate/protein and carbohydrate-only sports drinks

Seifert G J., J. Harmon, P. DeClercq (USA)

## Poster Session 10

**Sports Pedagogy**

Theeboom M. (Belgium)

## PP10-1

The pupils, physical education and stereotypes

Cankar F. (Slovenia)

## PP10-2

Investigation on content of Hungarian school physical education in European comparison

Hamar P., E. Leibinger, C. Bartha, I. Soós (Hungary)

## PP10-3

The peculiarities of perceiving their own body by female volleyball players

Laskiene S., S. Alseikaite (Lithuania)

## PP10-4

Women artistic gymnastics - the evolution of the technical elements of the uneven bars – A comparative study among the technical elements of high bar and uneven bars

Corte-Real A., J. Carvalho, M. Botelho, T. Lacerda (Portugal)

## PP10-5

Students' attitudes towards physical culture

Rokita A., A. Surynt (Poland)

## PP10-6

Learning efficiency in closed motor skills, a follow-up study of different teaching methods

Balazs F., G. Lacza, J. Bognár, L. Honfi (Hungary)

## PP10-7

Pedagogical values reflected in elite sports: The case of talent

Revesz L., J. Bognár, G. Gécz (Hungary)

## PP10-8

Opinion of Hungarian physical education teachers regarding current questions of physical education learning and teaching methods

Leibinger E., A. Huszár, P. Hamar (Hungary)

## PP10-9

Analysis of the elements in floor exercises in women artistic gymnastics - A study in national and international junior gymnasts

Corte-Real C., E. Lebre, A. Côrte-Real (Portugal)

## Poster Session 11

**Physiology**

Harridge S. (United Kingdom), Dela F. (Denmark),

Manchado-Lopez C. (Germany),

Terrados N. (Spain), Faina M. (Italy),

Hoffman U. (Germany)

## PP11-1 YIA

The effect of high-intensity interval training on stroke volume and endurance performance in trained endurance athletes

McGillivray M., D.J. Smith, S.R. Norris, J.V. Tyberg (Canada)

## PP11-2 YIA

Impact of endurance training on endothelial dependent and independent vasodilation of the cutaneous circulation in post-menopausal females

Hodges G., K.P. George, T.N. Cable (United Kingdom)

## PP11-3 YIA

Heart rate and blood lactate during a motorcycling competition

D'Artibale E., A. Tessitore, M. Tiberi, L. Capranica (Italy)

## PP11-4 YIA

Examination of multiple fatigue models during prolonged cycling in hot versus cold climates

Abbiss C., A. Burnett, K. Nosaka, P. Laursen (Australia)

*PP11-5 YIA*

Fatigue is different among quadriceps muscles after submaximal isometric contractions  
Desbrosses K., N. Babault, J.P. Meyer, M. Pousson (France)

*PP11-6 YIA*

Reduced cortical activity in bilateral contractions: An fMRI Study  
Post M., H. van Duinen, A. Steens, B.M. Kuipers, I. Zijdwind (Holland)

*PP11-7 YIA*

Heart rate deflection point as a strategy to defend stroke volume during incremental exercise  
Lepretre P., C. Foster, J.P. Koralsztein, V. Bilat (France)

*PP11-8 YIA*

Differences in oxygen pulse values between physically active versus sedentary adolescents during maximal exercise testing  
Igracki-Turudic I., D. Mitrovic, S.D. Mazic, S.F. Malicevic (SCG)

*PP11-9 YIA*

Assessment of exercise induced changes of the microcirculation by wavelet transformation  
Hübscher M., A. Bernjak, A. Stefanovska, L. Vogt, W. Banzer (Germany)

*PP11-10 YIA*

The effect of recovery time between two bouts of exercise on leukocyte, lymphocyte and lymphocyte subset counts and their activity status  
Zeller J., C. Bongarth, K. Bühlmeier, B. Laube, C. Peters, M. Schönfelder, T. Schulz, H. Michna (Germany)

*PP11-11 YIA*

Effect of posture on the measurement of resting cardiac output by open circuit acetylene breathing technique  
Farra S., E.M. Groves, R. Neil, S.R. Norris (Canada)

*PP11-12 YIA*

Methodological considerations for measuring resting cardiac output by open circuit acetylene breathing technique  
Groves E., S.D. Farra, R. Neil, S.R. Norris (Canada)

*PP11-13 YIA*

Heart rate behaviour in Brazilian elite target archers during competitions – a case study  
Kraguljac M., S. Leszek (Brazil)

*PP11-14 YIA*

Changes of anthropometric parameters of upper-leg during a programmed power training  
Barak O., M. Drapsin, J. Popadic-Gacesa, D. Karaba-Jakovljevic, D. Lukac (SCG)

*PP11-15 YIA*

Work economy in assessment of relationship between aerobic capacity and performance in elite basketball players  
Suzic J., S. Mazic, S. Velkovski, S. Ostojic, N. Dikic, D. Nestic, S. Suzic, D. Mitrovic (SCG)

*PP11-16 YIA*

Comparison of the hematology analysis: elderly women practicing yoga exercises vs. control group consisting of elderly women occupied with painting  
Đokovic J., S. Mazic, S. Velkovski, J. Suzic, M. Nedeljkovic (SCG)

*PP11-17 YIA*

Peripheral dual energy X-ray absorptiometry-comparison between forearm bone mineral density (BMD) and spine BMD in patients with habitual physical activities  
Letic M., O. Ilic-Stojanovic, G. Popovic (SCG)

*PP11-18 YIA*

Analysis of the physical conditioning and the use of new technologies in the trainings of the top-level Spanish teams of collective sports  
Moliner D., D. Munguía, A. Legaz (Spain)

*PP11-19*

Gymnastic training and proportionality in girls: a longitudinal study  
Claessens A., K. Van Aken, G. Beunen, J. Lefevre, V. Pennemans, R. Philippaerts, M. Thomis (Belgium)

*PP11-20*

Effect of sexual maturity status on current and mature stature estimated with and without skeletal age as a predictor  
Coelho e Silva M., V. Nunes, A. Figueiredo, R.M. Malina (Portugal)

*PP11-21*

Whole-body energy consumption map constructed by PET during some movement in daily life  
Fujimoto T., I. Kenji, I. Masatoshi, S. Hiroomi, O. Yusuke, T. Rodrigues dos Santos, T. Manabu, T. Koji, T. Hiroaki, N. Ryoichi (Japan)

*PP11-22*

The height hypoxia and aerobic efficiency in alpine skiers  
Gabrys T., K. Ficek, U. Szmatlan-Gabrys (Poland)

*PP11-23*

Adiponectin and stress hormone responses to maximal sculling in rowers  
Jürimäe J., P. Purge, T. Jürimäe (Estonia)

*PP11-24*

Bone density in young females practising different physical activities: effects of plasma leptin and body composition  
Jürimäe T., T. Sööt, J. Jürimäe (Estonia)

*PP11-25*

Anaerobic capacity of the upper arms in top-level team handball players  
Kounalakis S., M. Koskolou, I. Bayios, N. Geladas (Greece)

## PP11-26

Physiological correlates of 20-km race in high level race-walkers

La Torre A., E. Rampinini, A. Bosio, A. Arcelli, F.M. Impellizzeri (Italy)

## PP11-27

High volume training period reflects the recovery-stress state in male rowers

Mäestu J., J. Jürimäe, T. Jürimäe (Estonia)

## PP11-28

Effects of the intensity of aquatic exercise under a hypobaric hypoxic condition on cardiovascular functions

Ogita F., K. Naoki, W. Akira, T. Hiroyuki (Japan)

## PP11-29

Age differences of the morphological and functional characteristics in basketball players

Olm T., K. Thomson, K. Baskin, K. Herde (Estonia)

## PP11-30

The effects of eccentrically induced muscle damage on physiological parameters of running economy

Paschalis V., Y. Koutedakis, V. Baltzopoulos, V. Mougios, V. Theoharis, A. Jamurtas (Greece)

## PP11-31

Influence of aldosterone on aerobic metabolism during middle- and short-term jumping exercise

Skipka W., C. Stoia-Djeska (Germany)

## PP11-32

Influence of aldosterone on aerobic metabolism during increasing bicycle ergometer exercise

Stoia-Djeska C., W. Skipka (Romania)

## PP11-33

Functional significance of enhanced physiological tremor during prolonged static muscle contractions

Tamaki H., F. Ogita, H. Takekura, K. Saito (Japan)

## PP11-34

Effect of an aerobic maximal test on the nitric oxide production in sprinters and endurance runners

Tavares P., I. Anjos, G. Ribeiro, J. Parada, A. Jacinto, A.M. Carvalho, C. Piedade, F. Rosado, A.C. Santos, C.A. Fontes Ribeiro (Portugal)

## PP11-35

Quantification of physical loads by using the criterions of exercise pulse cost

Volkov N., O.I. Popov, T. Gabrys, U. Szmatlan-Gabrys (Russia)

## PP11-36

Effects of cold stimulation of the skin on strength gain during lower intensity isometric training

Yona M., C. Tadano, K. Kamibayashi, M. Muro (Japan)

## PP11-37

Evaluate the change of %SpO<sub>2</sub> (saturation percent oxygen) and heart rate at lactate threshold in male elite athletes during sport until exhaustion

Tabatabaei H. (Iran)

## PP11-38

Analysis of the stroke frequency and stroke length in the 100 m crawl with young Italian competitive swimmers, as index of their technique evolution

Michielon G., R. Scurati, G. Roione, E. Limonta, P.L. Invernizzi (Italy)

## PP11-39

Measurement of muscle cross-sectional area using ultrasonography

Hoffren M., M. Ishikawa, P.V. Komi (Finland)

## PP11-40

Steady-state acid-base response at exercise levels close to maximum lactate steady state (MLSS)

Benito Peinado P.J., M. Vidal Rosa, A.B. Peinado, A.I. Paz, F.J. Calderón (Spain)

## PP11-41

Effects of Vespa Amino Acid Mixture (VAAM) intake on urine components during the ascent of Mt. Daisen in summer

Kazutoshi S., N. Kazuki, O. Kumiko, K. Hiroshi, O. Takeshi, N. Daisuke, O. Sho (Japan)

## PP11-42

Heat accumulation is directly correlated to sweat rate and skin blood flow responses during exercise in the heat del Coso Garrigos J., R. Peñaloza Méndez, R. Lozano Calderón, R. Aguado Jiménez, R. Mora-Rodríguez (Spain)

## PP11-43

Comparative analyses of physiological tension of game activity in basketball and streetball

Korshkov V., O. Lihachev, A. Mazurina (Russia)

## PP11-44

The effects of unilateral velocities-specifics concentric strength training

Kofotolis N., A. Gkratzios, M. Sambanis, M. Palazi, I. Kalogeropoulos (Greece)

## PP11-45

The effect of training on certain anthropometric and physiological characteristics, as well as on handball players' kinetic abilities

Sambanis M., P. Sambanis, N. Kofotolis, G. Noussios, I. Kalogeropoulos (Greece)

## PP11-46

Influence of standard out of season training program upon aerobic capacity of high performance soccer players of different playing position

Przybylski W., M. Kalinski (Poland)

## PP11-47

Isometric strength training increases acetylcholine-induced relaxation in ovariectomized female rats

Figard H., V. Gaueme, F. Mougins, A. Berthelot (France)

*PP11-48*

Stress hormones and perceived recovery-stress state in elite male rowers during prolonged training  
Purge P., J. Jürimäe, T. Jürimäe (Estonia)

*PP11-49*

Maximal oxygen uptake in rural Tanzanian children -A comparison between running and cycling  
Berntsen S., R. Hageberg, A. Aandstad, S.A. Anderssen (Norway)

*PP11-50*

The effect of leg vibration on exercise performance  
Takeda M., T. Koizumi (Japan)

*PP11-51*

Heat stress suppresses skeletal muscle damage after downhill running  
Mikami T., S. Ohota (Japan)

*PP11-52*

Vascular characteristics: approach with the segmental weighing table  
Arbez L., M. Fabrice, M. Laurent, T. Nicolas, W. Jean-Pierre, R. Jacques (France)

*PP11-53*

Significance of the respiratory kinetics in relation to the endurance performance  
Vardaxoglou K., N. Stuke, N. Maassen (Germany)

*PP11-54*

Morphological characteristics of elite women sprinters  
Coh M., M. Žvan, K. Tomažin, B. Lešnik (Slovenia)

*PP11-55*

Aerobic requirements in volleyball - revisited  
Barroso R., M.J. Valamatos, M.J. Valamatos, P. Ronei, J. Rasoilo, P.M.H. Santos (Portugal)

*PP11-56*

The effects of fatigue on anticipation in low and high-skill performers  
Al-Nakeeb Y., M. Lyons, A. Nevill, M. Duncan (United Kingdom)

*PP11-57*

Heart rate patterns during the preparation period of an acrobatic element on the balance beam: a case study  
Cottyn J., D. De Clercq, G. Crombez, J.L. Pannier, M. Lenoir Matthieu (Belgium)

*PP11-58*

The influence of height on the quantity the parameters related to levels the metabolic thresholds (LT and AT) into the groups of the alpine skier, juniors and adults  
Gabrys T., K. Ficek, U. Szmatlan-Gabrys (Poland)

*PP11-59*

Resting metabolic rate changes in response to 16 weeks resistance and aerobic exercises rehabilitation training programs of overweight women  
Mishchenko V., T. Kuehne (Poland)

*PP11-60*

Workload characteristic and condition performance of water polo players (longitudinal study of the German national team in different ages)  
Nowoisky H., R. Knoeller (Germany)

*PP11-61*

Sports specific athletes' cardiorespiratory system responsiveness for short, middle and long distance running events  
Mishchenko V., E. Lysenko, T. Tomiak (Poland)

*Poster Session 12***Sports Psychology**

Williams M. (United Kingdom)

*PP12-1 YIA*

Is work-induced arousal manipulation a catastrophe for investigating the arousal-performance relationship?  
Cottyn J., D. De Clercq, G. Crombez, J.L. Pannier, M. Lenoir (Belgium)

*PP12-2 YIA*

Coaches' behaviour, social support and athletes' self-talk  
Zourbanos N., Y. Theodorakis, A. Hatzigeorgiadis (Greece)

*PP12-3*

The change of the BMI and the psychological and quality change of life before and after hip prosthesis operation  
Sándor K., A. Barabas, L. Solyom, T. Szilagy, J. Tihanyi (Hungary)

*PP12-4*

Pedagogical and psychological aspects of gymnasts' mental training  
Honfi L., L. Tóth, J. Bognár, B. Fügedi (Hungary)

*PP12-5*

The effect of pre-shot routine on putting performance in golf  
Myers A., M. Reid (United Kingdom)

*PP12-6*

Study on some personal characteristics of female basketball players  
Mileva E., T. Tzankov, B. Peneva (Bulgaria)

*PP12-7*

Exploratory and confirmatory factor analysis of the Task and Ego Orientation in Sport Questionnaire (TEOSQ) among Portuguese 13-to 16-year-old athletes  
Goncalves C., M. Coelho e Silva, J. Cruz (Portugal)

*PP12-8*

Exploring children's health related behaviours: A theoretical rationale for a mixed methodological approach  
Archbold V., D. Richardson, L. Dugdill, D. MacLaren (United Kingdom)

*PP12-9*

Exploring the development of emotional intelligence within English Premier League football academies  
Triggs C., D. Gilbourne, D. Richardson, M. Eubank (United Kingdom)



## PP12-10

Achievement goals in Portuguese trained swimmers  
Morouco P., L. Ramos, R. Fernandes (Portugal)

## PP12-11

The effects of gender, context (school vs club) and type of sport (individual vs team) on the achievement goal orientations among young Portuguese athletes  
Goncalves C., M. Coelho e Silva, J. Cruz (Portugal)

## Poster Session 13

**Rehabilitation**

Bulley C. (United Kingdom)

## PP13-1

Role of mobilization and stretching in shoulder impingement syndrome  
Rusu L., M. Vasilescu, D. Ciocanescu, S. Cataneanu (Romania)

## PP13-2

The incidence of wave-like structure by the immobilization in a lengthened position in mouse soleus muscles  
Sakamoto M., T. Harada, T. Futami, K.K. Oka (Japan)

## PP13-3

Practicing water exercise for the children with autism spectrum disorders  
Fujisawa T., N. Kazuki, O. Kumiko, K. Hiroshi, S. Natsuki, K. Tomiaki, N. Youhei, O. Takeshi, S. Kazutoshi, N. Daisuke, O. Eri, I. Kyouko, H. Takeshi, J. Yong-In, W. Baik, N. Masahiro, O. Sho (Japan)

## PP13-4

Development of a web-based decision support system for acupuncture treatment -The selection of acupuncture points based on a web-based 3-D computer graphic model of the movement used to evaluate motion-induced pain  
Amano K., R. Kanda, T. Shimoda, Y. Mukaino (Japan)

## PP13-5

The influence of electrophoresis of ketoprofen gel with other procedures of physical therapy in patients with the distortion of the ankle  
Letic Đ., Đ. Adamov (SCG)

## PP13-6

Physical and kinetic rehabilitation in rotator cuff tendonitis  
Mirela C., L. Rusu, S. Cataneanu (Romania)

## PP13-7

Static balance control and ankle muscles strength in elderly  
Amiridis I., P. Violaris (Greece)

## PP13-8

The rapidity of return for ADL and training activities at the athletes with soft injuries of ankle in depend from moment of application PEMF and exercises  
Šćepanovic Lj., S. Vermezovic, Z. Kojic, V. Šćepanovic (SCG)

## PP13-9

The early application PEMF and exercises - influence on the strength and amplitude of movement after soft tissue injuries of the ankle into athletes  
Vermezovic S., Lj. Šćepanovic, V. Vuckovic, S. Slavica, Z. Kojic, D. Nešic, R. Šćepanovic (SCG)

## PP13-10

The role of physical exercises in rehabilitation of patients with cerebrovascular accident (CVA)  
Rusu L., M. Vasilescu, D. Ortanescu, D. Ciocanescu (Romania)

## Poster Session 14

**Sports Medicine**

Ergen E. (Turkey)

## PP14-1 YIA

Simulation of hip load during the walking motion  
Mitkovic M., B. Zivkovic, M. Mitkovic (SCG)

## PP14-2

Computerized diagnostic electric-puncture indicators in relation to gender and age of athletes  
Sukhov S., A. Kulnazarov, A. Ivanov (Rep. of Kazakhstan)

## PP14-3

Safety measures of golf courses - Fact-finding survey on golf courses in Germany, in Spain on questionnaire  
Yoshihara S., A. Hareo, M. Misako, M. Kunihiko, N. Kuniko, A. Kiyoshi, N. Kiyoshi, K. Zojiro, N. Yoshio, Y. Hong, O. Ree Kyoug (Japan)

## PP14-4

Trial for developing a new indicator for preventing knee extensor mechanism disturbance using a tissue stiffness meter: a preliminary report  
Kinoshita H., S. Miyakawa, N. Mukai, I. Kono (Japan)

## PP14-5

Echocardiographic and ergospirometric assessment of cardiac function in elite male basketball players of national level  
Popovic D., S. Mazic, A. Djordjevic-Dikic, M. Dekleva, S. Velkovski, S. Stojiljkovic, N. Dikic, D. Mitrovic, M.C. Ostojic (SCG)

## PP14-6

Physical treatment of traumatic injuries of achilles tendon in athletes  
Nešic D., S. Mazic, S. Stoilkovic, G. Dragovic, J. Trbojevic, J. Suzic, S. Velkovski, D. Mitrovic (SCG)

*PP14-7*

Relation between physical activity and deformities of the spinal column and feet in the students of Belgrade University  
Arsic M. (SCG)

*PP14-8*

A-V block II type Wenckebach at athletes  
Eric M., N. Antic, G. Ilic (SCG)

*PP14-9*

Comparative analysis of treatment of hondromalation of knee  
Lukic I. (SCG)

*PP14-10*

Electro-vectorcardiographic profile of the eccentric left ventricular hypertrophy in trained swimmers compared to pathology  
Stoia-Djeska C., C. Băra, N. Neagu, A. Cociorvei (Romania)

*PP14-11*

Doping with the anabolic steroid Stanozolol: experimental evaluation of the side effects in tendons  
Michna H., W. Kühnel (Germany)

*PP14-12*

Some characteristics of treatment bone fracture of top athletes  
Lukic I., B. Kovacevic, M. Damjanov, Z Đurdev (SCG)

*PP14-13*

Endocrine pharmacological characterization of the "designer drug" tetrahydrogestrinone (THG)  
Michna H., S. Peter-Johannes, N. Tsuyuki (Germany)

*Poster Session 15***Coaching & Performance**

Schwameder H. (Austria), Balague N. (Spain), Hartmann U. (Germany), Cardinale M. (United Kingdom)

*PP15-1 YIA*

Effects of dynamic resistance training on muscle architecture and jump performance  
Alegre L.M., X. Aguado (Spain)

*PP15-2 YIA*

A comparison of the effects of two different drop jump training method modalities on jumping performance and muscle strength  
Nedeljkovic A., D. Suzovic, D.M. Mirkov (SCG)

*PP15-3 YIA*

Direct versus indirect measurement of power with jump tests in female volleyball  
Lara A., J. Abián, L. Alegre, L. Jiménez, X. Aguado (Spain)

*PP15-4*

Effects of squat jump training with normal vs fast eccentric phase velocity on muscular strength and power  
Alberti G., F. Sartor, E. Limonta, N. Silvaggi (Italy)

*PP15-5*

Morphological characteristics of Greek female handball players in relation to playing position  
Bayios I., K. Noutsos (Greece)

*PP15-6*

Handball players' cyclic movements among quarters of the game  
Bon M., S. Kovacic, M. Šibila, P. Pori, J. Perš (Slovenia)

*PP15-7*

Relationship between load at Dmax and interpolated lactate profile data in assessing training responses and performance in elite male rowers  
Donne B., N. Mahony (Ireland)

*PP15-8*

Impact of speed of alternating leg movements and take-off power on acceleration speed in young basketball players  
Erculj F. (Slovenia)

*PP15-9*

Seasonal variations in efficiency and physiological parameters of aerobic fitness in off-road cyclists  
Impellizzeri F., E. Rampinini, S.M. Marcora, A. Sassi (Italy)

*PP15-10*

Goal scoring analysis of the national teams participating in the EURO 2004  
Mitrotasios M., G. Kroustalakis, C. Siskos, C. Zelenitsas, M. Sentelidis (Greece)

*PP15-11*

Metabolic and mechanical parameters during female Spinning®  
Piacentini M.F., A. Gianfelici, M. Faina (Italy)

*PP15-12*

Assessment of energy cost of training loads in marathon workout  
Ratkowski W., G. Raczak (Poland)

*PP15-13*

Dynamic model of the match outcome estimation in handball using the attack and defence team efficiency  
Volossovitch A., D. Montezuma (Portugal)

*PP15-14*

Position error analysis of Sagit/squash system in manual stroke annotation  
Vuckovic G., B. Dežman, S. Kovacic, J. Perš (Slovenia)

*PP15-15*

Goal – a result of planned or unforeseen events in the soccer game?

Szwarc A., J. Czerwinski (Poland)

*PP15-16*

The role of Sports Vision in high performance programmes

Ferreira J., N. Venter, A. Ludeke, W. Voorhout (South Africa)

*PP15-17*

Validation of two submaximal tests for the prediction of VO<sub>2</sub>max in patients with systemic lupus erythematosus (SLE)

Casanova F., S. Marcora, P. Maddison (United Kingdom)

*PP15-18*

Individual anaerobic threshold assessment in a swimming incremental test for VO<sub>2</sub>max evaluation

Fernandes R., M. Almeida, P. Morais, L. Machado, S. Soares, A. Ascensão, P. Colaço, P. Morouço, J.P. Vilas-Boas (Portugal)

*PP15-19*

The effects of different methods of interval training on cardiorespiratory fitness and running economy

Voutselas V., A. Zalavras, D. Soulas (Greece)

*PP15-20*

Ecological validity of a repeated sprint ability test and its reproducibility in soccer

Duccio F.B., E. Rampinini, R. Sassi, D. Bishop, A. Sassi, A. Tibaudi, F.M. Impellizzeri (Italy)

*PP15-21*

The indicative components of specific training loads of high performance gymnasts

Savchin S., M. Zasada (Poland)

*PP15-22*

Comparison of European soccer referees' conditional abilities

Bartha C., S. Puhl, P. Hamar (Hungary)

*PP15-23*

Quantitative and qualitative changes in mobility with young handball players after the period of competitions

Stankovic V., D. Popovic (SCG)

*PP15-24*

Bodily adaptation peculiarities in young female basketball players

Tubelis L., A. Vilkas, R. Dadeliene (Lithuania)

*PP15-25*

Basic endurance performance is highly correlated to mean heart rate during international matches in female top level handball players

Manchado-Lopez C., P. Platen (Germany)

*PP15-26*

Training of Lithuanian modern pentathletes in the fourth year of the Olympic Cycle

Milasius K., A. Raslanas, J. Skernevicius (Lithuania)

*PP15-27*

Changes in maximal strength after time-specific heavy resistance training

Sedliak M., T. Finni, S. Cheng, T. Haikarainen, K. Hakkinen (Finland)

*PP15-28*

Specific program of endurance training in elite soccer

Ilic D. (SCG)

*PP15-29*

Effect of interval training on aerobic power of cyclists

Vukovic J. (SCG)

*PP15-30*

Development of strength in junior judo athletes

Rancic V. (SCG)

*PP15-31*

The effect of coordination skills on the success in standard sports dancing

Uzunovic S., R. Kostic, M. Zagorc, G. Oreb, D. Jovic (SCG)

*PP15-32*

Monitoring of biceps femoris activation pattern changes between maximal and supramaximal sprints

Đorđević S., S. Rozman, R. Pišot (Slovenia)

*PP15-33*

Impact of arm swing on height of take-off in young basketball players

Erculj F. (Slovenia)

*PP15-34*

Comparison of the effectiveness of the final attacking action between the national soccer teams of Portugal and Greece on their first game for EURO 2004

Mitrotasios M., N. Topoliatis, A. Tourounoglou, C. Zelenitsas, A. Sotiropoulos (Greece)

*PP15-35*

Habitual physical activity, physical fitness and heart rate variability in adolescents

Buchheit M., C. Klein, M. Oujaa, C. Simon (France)

*PP15-36*

The frequency of sport injuries according to sex, age, sport experience, the nature of sport activity and training process

Bacanac Lj., A. Veskovc, M. Radovic (SCG)

## Poster Session 16

**Biochemistry**

Fischer C. (Denmark)

*PP16-1*

The relationship between plasma MDA-LDL concentrations and anti-oxidative capacity in elderly women

Itoh H., T. Ohkuwa, Y. Yamazaki, T. Shimoda, H. Takahashi, K. Shimaoka (Japan)

*PP16-2*

Changes in metabolic parameters of cancer bearing animals submitted to exercise training and HMB supplementation

Caperuto E.C., R.V.T. Santos, L.F.B.P. Costa Rosa (Brazil)

*PP16-3*

Changes in the steroid profile after a women's handball match

Corvillo M., A. Ballesteros, G. Olcina, D. Muñoz, R. Timón, M. Maynar-Mariño, J.I. Maynar-Mariño (Spain)

*PP16-4*

Plasma glutamine, cytokines and antioxidant capacity before and after the London Marathon

Dimitriou L., C. Sharp, G. Whyte, L. Castell (United Kingdom)

*PP16-5*

Effect of repeated exercise training on phosphorylation of enzymes in the protein signalling pathway in human skeletal muscle

Mascher H., J. Eliasson, T. Elfegoun, B. Ekblom, E. Blomstrand (Sweden)

*PP16-6*

Intensive and moderated exercise on the blood biochemistry indicators of streptozotocin diabetic rats and rats fed a very high fat diet

Neiva C., D. Santos, D. Oliveira, M. Bendasoli-Silva, R. Deus (Brazil)

*PP16-7*

Post-competition blood lactate measured in master swimmers

Benelli P., C. Castagna, M. Del Sal, M. Ditroilo, E. Fernandez-Peña, R. Forte, A. Freddo, E. Grassi, M. Tiberi, V. Stocchi (Italy)

*PP16-8*

Physical exercise influence the serum level of growth factors: TGF-beta, PDGF and VEGF

Czarkowska-Paczek B., I. Bartłomiejczyk, T. Gabrys, J. Przybylski, K. Mucha, B. Foroniewicz, L. Paczek (Poland)

## Poster Session 17

**Biomechanics**

Virmavirta M. (Finland)

*PP17-1*

Torque-velocity characteristics and contractile rate of force development in elite badminton players

Andersen L., B. Larsson, H. Overgaard, P. Aagaard (Denmark)

*PP17-2*

Electromyography study of the lumbar iliocostal and maximum gluteus muscles during locomotion

Bankoff A. (Brazil)

*PP17-3*

Gender differences of muscle size and muscle function in sprinter, middle and long distance speed skater

Kumagawa D., N. Tsunoda (Japan)

*PP17-4*

Power capabilities of young athletes and their realisation in rowing

Petriaev A., I. Kleshnev, V. Kleshnev (Russia)

*PP17-5*

Ground reaction force and knee flexion degree during basic step in step aerobic exercises

Rutkowska-Kucharska A., A. Szpala (Poland)

*PP17-6*

Visualization of dolphin-kicking wake using 3C-PIV method

Takahiro M., K. Matsuuchi, J. Sakakibara, H. Shintani, E. Kamata, T. Nomura (Japan)

*PP17-7*

Estimation of propulsive force during underwater dolphin kick using Swimming Human Simulation Model "SWUM"

Sugimoto S., M. Nakashima, H. Ichikawa, T. Nomura (Japan)

*PP17-8*

Research about the measurement of the torque - Comparative study of student and the middle aged

Yamamoto T., O. Mitsugi, N. Kuniko, A. Kiyoshi, M. Kunihiro, A. Hareo, R.K. Ok (Japan)

*PP17-9*

Isokinetic strength ratios of the shoulder rotator muscles in Portuguese male and female junior tennis players from national teams under 16 and under 18

Pezarat-Correia P., J. Valamatos, F. Alves, M. José Valamatos, R. Pinto, A. Nunes, P. Mil-Homens Santos (Portugal)

*PP17-10*

Electromyographic study of the flexor muscles of the elbow articulation, in weightlifting trained subjects

Bankoff A., M.S. Gushi (Brazil)

*PP17-11*

Histochemical and tensiomyographical analysis of sedentary men and sprinters biceps femoris

Đorđević S., R. Dahmane, B. Šimunic, R. Pišot, V.L. Kropej (Slovenia)

## Poster Session 18

**Growth & Development**

Twisk J. (Holland)

## PP18-1

A muscular working capacity of mentally retarded children

Marinov E. (Bulgaria)

## PP18-2

A comparison of estimated maximal oxygen uptake in nine and ten year old schoolchildren in Tanzania and Norway  
Aandstad A., S. Berntsen, R. Hageberg, L. Klason-Heggebø, S.A. Anderssen (Norway)

## PP18-3

Growth and body composition of Brazilian adolescents as a function of age, training, gender and time of measurement

Silveira Böhme M.T., L.P. Bojikian, R. Uezu, A.N. Ré, M.C. Sandoval (Brazil)

## PP18-4

Cardiovascular risk factors in adolescents from Oporto: a comparison among its frequency in two different moments

Martins C., F. Martins, J. Ribeiro, M. Santos, J. Mota (Portugal)

## PP18-5

Specificity of motor skills to talent identification in soccer: necessary, but not enough

Ré A.H.N., B.M.T. Silveira (Brazil)

## PP18-6

Evaluation of the sport and exercise programme for the children and the young people in Finland

Lämsä J. (Finland)

## PP18-7

Correlation between morphological and motor characteristics in young soccer players during the period of puberty

Antic N., D. Ugarkovic (SCG)

## PP18-8

Influence of water polo training on body composition and functional abilities in prepubescent boys

Aleksandrovic M., D. Radovanovic (SCG)

## PP18-9

Influence of general training on increasing aerobic abilities i.e. general persistence in female archers aged 13 to 16

Đorđević-Šaranović S., S. Stjepanović-Bogdanović, D. Cubrilo, B. Suzić-Todorović, N. Stajić (SCG)

## PP18-10

Physical activity patterns in children of 4 and 7 years

Marjanović M., S.S. Radaković, S. Radjen, M. Milivojević (SCG)

## PP18-11

Relationship between anthropometric and physiological parameters in young soccer players of different ages

Gil S., J. Gil, A. Irazusta, F. Ruiz, E. Diaz, J. Irazusta (Spain)

## PP18-12

Selection criteria of the forerunners girls at faculties of kindergarten in Egypt

Zeinab A. (Egypt)

## Poster Session 19

**Computer science in elite sport**

Mester J. (Germany)

## PP19-1

Changes of field structure

Bonacin D., I. Rado, S. Blažević (Croatia)

## PP19-2

Using information and communication technologies for golf learning: experimental study of the swing technique

Nascimento R.J., J.C. Botti, F. Marchessou (Brazil)

## PP19-3

Neural network as a new tool for performance modelation in swimming

Costa A., N. Garrido, V. Reis, J. Campaniço, P. Oliveira (Portugal)

## PP19-4

Medial tibial stress syndrome: a prospective epidemiologic study for intrinsic risk factors with a computerized static and dynamic evaluation (DartTrainer®)

Ryckaert P., E. Cumps, R. Meeusen (Belgium)

## PP19-5

The influence of "Fastskin" swimming suit on physical load

Tiozzo E., G. Leko, L. Ruzic (Croatia)

## PP19-6

The presentation of the European Football Championships 2004 in the Austrian press

Sattlecker G., M. Dimitriou, E. Müller (Austria)

## Poster Session 20

**Physical Activity, Health & Fitness**

Haskell W.L. (USA), Reer R. (Germany)

## PP20-1

Effects of a physical activity program on lipoprotein profile of elderly subjects

Carvalho J., M.C. Soares José, O. Meireles, L. Pereira, F. Marques (Portugal)

## PP20-2

Functional capacity and neuromotor profile of the longitudinal study of aging and physical fitness from a developing country (1997-2003)

Matsudo S.M., T. Araújo, V. Matsudo (Brazil)

*PP20-3*

Parents' opinion about the importance and the roll of the health enhancing physical activity for their children  
Pišot R., J. Zurc, G. Jelovcan, T. Volmut, J. Planinšec (Slovenia)

*PP20-4*

Evaluation of physical activities of cadets  
Plavina L. (Latvia)

*PP20-5*

Are physical and occupational activity during pregnancy related to type of delivery?  
Barakat-Carballo R., M. Rodriguez Cabrero, J.J. Rojo Gonzalez (Spain)

*PP20-6*

The physical exercise, an alternative in the treatment of the gestational diabetes  
Rojo Gonzalez J.J., R. Barakat-Caraballo, M. Rodrigez Cabrero (Spain)

*PP20-7*

Do living styles have any effects on physical fitness level of physical education students?  
Pinar S., A. Pehlivan, F. Çamliguney, S. Uzun (Turkey)

*PP20-8*

Changes of lifestyles and clusters of lifestyle variables during a period of 4-5 years The North-Troendelag Health Study (Young-HUNT 1995-97 UH 1, 2000-2001 UH 2)  
Gundersen K.T., T.V. Sundt (Norway)

*PP20-9*

Physical activity level in adults from two Brazilian areas: similarities and differences  
Hallal P., A.C. Marques, S.M. Matsudo, V.R. Matsudo, T.L. Araújo, D.R. Andrade, A.D. Bertoldi (Brazil)

*PP20-10*

Participation in sport and physical activity in Ireland  
Liston K. (United Kingdom)

*PP20-11*

Fitness level and overweight and obesity risk in adolescents  
Nardo Jr. N.N.N.J, J.J.T. Tirapegui (Brazil)

*PP20-12*

Assessment of the level and determinants of physical activity in a group of employees  
Palas N.A., J. Breda, E. Nunes, R. Taveira, T. Nobre (Portugal)

*PP20-13*

Portuguese adolescents' physical activity levels and socioeconomic status  
Santos P., R.J. Carlos, M.M. Gaspar, M. Jorge (Portugal)

*PP20-14*

Body mass index as a predictor of body fat in athletes  
Srdic B., D. Karaba-Jakovljevic, E. Stokic (SCG)

*PP20-15*

Sport and physical education classes in Belgrade schools  
Ilic J., I. Jovanic, G. Sbutega-Milošević, S. Mazic, S. Ostojic (SCG)

*PP20-16*

Proper way of losing weight in physical activity is helpful with pulsmeters usage  
Cvejic J. (SCG)

*PP20-17*

Age and sport activity influences on body fat content and body mass index  
Hajder N., S. Ostojic (SCG)

*PP20-18*

Is there a levelling-off point for the beneficial effect of leisure-time physical activity on biomarkers of CHD risk and weight measures?  
von Huth Smith L., T. Jorgensen (Denmark)

*PP20-19*

Who, when and how much? Epidemiology of walking in a middle income country  
Hallal P., A.C. Marques, M.R. Azevedo Jr., F. Reichert, F. Siqueira (Brazil)

*Poster Session 21***Genetics & Molecular Biology**

Michna H. (Germany)

*PP21-1*

Functional fitness and C-reactive protein in older people  
Martins R., N. Sousa, A.P. Ferreira, V. Ribeiro, M. Graça, A.M. Martins, E. Rebelo, L.Fernandes, A. Santo, M. Teixeira-Veríssimo, A.M. Teixeira (Portugal)

*PP21-2*

Comparison of the fatty acid composition of individual mitochondrial phospholipids from rat gastrocnemius muscle and heart  
Karaoglanidis D., G. Theofilidis, C. Argyrou, S. Tsalouhidou, A. Petridou, G. Nikolaidis Michalis, V. Mougios (Greece)

*PP21-3*

Analysis of immunoglobulin a response to aerobic and anaerobic swimming effort  
Matos N., A. Teixeira, L. Rama (United Kingdom)

*PP21-4*

The impact of prolonged strenuous endurance exercise on Interleukin 18 and Interleukin 18 binding protein in recreational cyclists  
Neumayr G., O. Ludwiczek, H. Hoertnagl, R. Pfister, G. Mitterbauer, A. Moschen, D. Novick, M. Rubinstein, H. Tilg (Austria)

*PP21-5*

The bradykinin  $\beta$ 2 receptor (BDKB2R) gene and endurance performance during the South African Ironman Triathlons  
Collins M., C. Saunders, T.D. Noakes (South Africa)

## PP21-6

Effect of competitive marathon cycling on plasma N-terminal pro-brain natriuretic peptide and cardiac troponin T in healthy recreational cyclists  
Neumayr G., R. Pfister, G. Mitterbauer, G. Eibl, H. Hoernagl (Austria)

## PP21-7

Influence of high intensity physical training on stress indicators in experimental diabetic rats  
Rogatto G.P., R.J. Gomes, E. Luciano (Brazil)

## Poster Session 22

**Motor Control & Learning**

Jaric S. (USA)

## PP22-1

Choice neuro-motor reaction time (CNMRT) and relevant speed of movement (CVM) in children aged 6 to 11  
Casolo F., E. Minelli, M. Mondoni, P. Vago, F. Cereda, C. Galvani (Italy)

## PP22-2

Additional-hierarchical pattern of education in motorical learning. Limits and advantages  
Ortanesu D. (Romania)

## PP22-3

The effect of visual and kinesthesia feedback in learning school boys basketball dribble  
Ramezani A. (Iran)

## PP22-4

Motor ability at youth practising and not practising karate shotokan  
Witkowski K., T. Stefaniak, M. Slowinska-Lisowska (Poland)

## PP22-5

Neuromuscular coupling of the hamstrings and viscoelastic properties of the knee are not impaired after transient cold therapy  
Melnyk M., M. Faist, A. Gollhofer, F. Benedikt (Germany)

## PP22-6

The level of visual and mobile coordination with girls and boys aged 6 and 7  
Surynt A., A. Rokita (Poland)

## PP22-7

Self-evaluate personality – a condition for performance progress  
Ortanesu D., C. Ortanesu (Romania)

## Poster Session 23

**Nutrition & Exercise**

Gleeson M. (United Kingdom), Bülow J. (Denmark)

## PP23-1

New approach to sport – food supplements in Iran  
Berahmandpour F., S.A. Hejazi (Iran)

## PP23-2

The effect of nutritional supplementation on endurance performance  
Sesboué B. (France)

## PP23-3

Fluid needs of athletes  
Samadi M. (Iran)

## PP23-4

Acute creatine supplementation and water polo performance  
Cort M., I. Mujika, L. Burke, K. Royal (Australia)

## PP23-5

Effect of zinc supplementation on erythrocyte metallothionein in an elite swimmer: a case study  
Koury J., O. Cyntia, P. Emilson Souza, D. Carmen (Brazil)

## PP23-6

Effect of exercise training and dietary restriction on whole blood fluidity in obese middle-aged women  
Nakagaichi M., Y. Katayama, K. Tanaka (Japan)

## PP23-7

The effect of antioxidant supplementation on physical exercise-induced oxidative stress in elderly subjects  
Sgadari A., B. Tavazzi, E. Chierici, M. Pittaluga, R. Bernabei (Italy)

## PP23-8

The influence of doping preparations on increasing sport condition of professional boxers  
Marjanovic N. (SCG)

## PP23-9

Use of nutritional supplement among recreational bodybuilders  
Jovanic I., J. Ilic, G. Sbutega-Milošević, S. Mazic, S. Ostojic (SCG)

## PP23-10

Possible role of coffee consumption on physical capacity in humans  
Mraovic T., S. Radakovic, S. Radjen, M. Milivojevic (SCG)

## PP23-11

How much are the athletes informed about the significance of the nutrition needs in process of training and competition?  
Mitric S., M. Ratkovic, M. Maksimovic (SCG)

## PP23-12

Importance of planned nutrition for the health of female basketball players  
Nikolic M., I. Mitic, K. Lazarevic (SCG)

## PP23-13

Use of dietary supplements with creatine among Belgrade athletes  
Šobajic S., I. Đuricic, I. Miletic, K. Jovanovic (SCG)

## PP23-14

High altitude nutrition  
Samadi M. (Iran)

*PP23-15*

A caffeine-containing blend of ingredients stimulates post-exercise fat oxidation moderately, without or with L-carnitine

Decombaz J., D. Grathwohl, Y. Shahkhalili (Switzerland)

*PP23-16*

Survey of dietary supplementation practices among Belgrade athletes

Šobajic S., I. Đuricic, K. Jovanovic, B. Đordevic, I. Stankovic (SCG)

*Poster Session 24***Sports Pedagogy**

Walseth K. (Norway)

*PP24-1*

Laterality and the practice of rhythmic gymnastics

Meléndez A., P. Plou, A. Pérez, A. Sánchez, M. Templado, A. Verdejo (Spain)

*PP24-2*

What about young people? Meaning of their preferences - implications for sport pedagogy

Matos Z., P. Batista, P. Queiros (Portugal)

*PP24-3*

Active involvement in sport activities among high school pupils

Stojanovic S., N. Vasiljevic, M. Maksimovic (SCG)

*PP24-4*

The influence of sport-recreative competitions in orienteering on the interests of the pupils of Belgrade schools for activities in nature

Stevanovic M. (SCG)

*PP24-5*

Health and motor abilities of school children in innovated physical education curriculum

Kocic J., R. Popovic, E. Lomen, S. Tomic (SCG)

*PP24-6*

Rhythmic gymnastics – sport of the best music and motion unity and gymnasts personal style as the mean of artistic communication across judges and audience

Popovic R., I. Djordjevic (SCG)

*PP24-7*

Teachers perceptions about students' misbehaviours in physical education

Mesquita I., P. Tavares, A. Rosado (Portugal)

*PP24-8*

Comparison of teacher and student opinions about teacher qualities

Demirhan G., Y. Bulca, B. Güven, M. Kangalgil, C. Koca, D. Hunuk, C. Acikada (Turkey)

*PP24-9*

Recreational involvement in sport activities among high school pupils

Stojanovic S., N. Vasiljevic, M. Maksimovic (SCG)

*PP24-10*

Coaches' conceptions and values about youth sport competition

Mesquita I., A. Graça, F. Pereira, M. Cardoso (Portugal)

*Poster Session 25***Physiology**

Klarund-Pedersen B. (Denmark),

Fischer C. (Denmark),

Jackson M.J. (United Kingdom),

Morton H. (New Zealand)

*PP25-1*

Association between the changes in left ventricular and human performance induced by intense athletic conditioning over a 2-year period in elite endurance trained-runners

Munguía D., D. Moliner, A. Legaz (Spain)

*PP25-2*

Does running technique affect economy of running

Dolenec A., N. Sarabon, R. Milic, K. Tomazin, S. Vojko (Slovenia)

*PP25-3*

Is the decline in exercise capacity in elderly people depending on central or peripheral factors?

Ferri A., M. Longaretti, S. Adamo, F. Lanfranconi, M. Marzorati, A. Colombini, B. Grassi (Italy)

*PP25-4*

Body composition, strength, aerobic power and specific anaerobic capacity do not differ among top judo players

Franchini E., A.V. Nunes, J.M. Moraes (Brazil)

*PP25-5*

The influence of reduced breathing during the front crawl training on endurance swimming performance

Kapus J., A. Ušaj, V. Kapus, B. Štrumbelj (Slovenia)

*PP25-6*

Body composition and somatotype characteristics of elite Greek female volleyball and handball players

Noutsos K., N. Bergeles, G. Malousaris, I. Bayios (Greece)

*PP25-7*

Increased number of satellite cells after high intensity eccentric exercise

Raastad T., G. Paulsen, F. Kadi, J. Hallen (Norway)

*PP25-8*

Short and long term adaptation in anaerobic peak power in Brazilian soccer players

Stanganelli L.C.R., L.R. Cirillo Everton, A. Frisselli, A.C. Dourado (Brazil)

*PP25-9*

Information anthropometrical parameters of the male high jumpers for the different basic qualification

Khanikyants O., V. Konestyapin, I. Zaniwski (Ukraine)



## PP25-10

Comparison of patterns of fatigue complaints from lecture and judo in day and night school students  
Sakamoto N., K. Sakamoto (Japan)

## PP25-11

The effects of the dehydration over precision and cognitive factors in water-polo  
Saez Saez de Villarreal E. (Spain)

## PP25-12

The effect of sprint and endurance training on lactate threshold, peak lactate and velocity in swimming  
Soultanaki E., M. Mandaloufas, G. Nikolopoulos, T. Platanou (Greece)

## PP25-13

Physiological, hormonal, and match analysis aspects of futsal matches  
Pagano R., A. Tessitore, C. Benvenuti, R. Meeusen, L. Capranica (Italy)

## PP25-14

The VO<sub>2</sub> response profile in severe intensity upper body and lower body exercise  
Amano S., D.W. Hill (USA)

## PP25-15

Concurrent changes in forearm reactive hyperemic blood flow and venous compliance with handgrip exercise training  
Alomari M.A., M.A. Welsch (USA)

## PP25-16

Is the VO<sub>2</sub>/Power relation linear in elite cyclists?  
Campion F., J. Lounana, J.J. Menuet, J. Medelli (France)

## PP25-17

The relationship between VO<sub>2</sub>max and repeated sprint ability in young soccer players  
Castagna C., S. D'Ottavio, V. Manzi, R. Colli, G. Annino, E. Padua, R. Belardinelli, F. Lacalaprice (Italy)

## PP25-18

Mechanical efficiency and pulmonary gas exchange variables in graded test  
Pavlova E., L. Mladenov (Bulgaria)

## PP25-19

The effect of muscle damaging exercise on sprint running and agility performance  
Twist C., R. Eston, K. Williams, N. Gleeson (United Kingdom)

## PP25-20

Analysis of differences in heart rate frequency in female aerobics instructors  
Zaletel P., G. Furjan Mandic, M. Zagorac (Slovenia)

## PP25-21

Changes to the rest time interval in circuit weight training and effects on aerobic power  
Duffield R., S. Hill-Haas, J. Edge, D. Bishop (Australia)

## PP25-22

Evolution of physiological parameters with training load in elite cyclists and triathletes  
Garcia Zapico A., F.J. Calderón, P.J. Benito, B. González Coral (Spain)

## PP25-23

The effects of an acute bout of exercise on plasma adiponectin levels and insulin sensitivity in healthy obese males  
Theoharis V., A.Z. Jamurtas, G. Koukoulis, N. Stakias, I.G. Fatouros, Y. Koutedakis (Greece)

## PP25-24

A longitudinal assessment of skinfold thickness after long-term athletic training in sprint- and endurance-trained elite runners  
Moliner D.U., D. Munguía, A. Legaz (Spain)

## PP25-25

Evolution of haematological and iron-related parameters with training load in elite cyclists and triathletes  
González Barbera C., A.G. Zapico, F.J. Calderon, P.J. Benito (Spain)

## PP25-26

Investigation of the combinatory effects of estrogens, phytoestrogens and physical activity in an animal model - Influence on movement drive, body weight, and bone density

Hertrampf T., A. Friedel, A. Ait Kaid Rabi, J. Seibel, G.H. Degen, A.L. Di Virgilio, U. Laudenschlager, P. Diel (Germany)

## PP25-27

Acid-base balance before and after maximal exercise in untrained mails  
Pencheva N., C. Kotcevska, E. Nikolova, A. Mladenova, M. Genova (Bulgaria)

## PP25-28

The changes in serum ferritin concentration after long lasting activities  
Saaremets I., E. Pihl, A. Normak, K. Karelson, V. Oopik (Estonia)

## PP25-29

Bone mineral status of martial art practitioners compared to physically active and sedentary controls  
Salmi J., J. Pylkkanen, E. Vanninen, J.S. Jurvelin, H. Pekkarinen (Finland)

## PP25-30

Oral contraceptives and sprint performance and metabolism  
Sunderland C., V. Tunaley (United Kingdom)

## PP25-31

The importance of magnesium in activities of athletes  
Brkic P., T. Jovanovic, A. Mitrovic, N. Jovanovic (SCG)

## PP25-32

Aerobic efficiency of preadolescent basketball players  
Macura M., D. Mitrovic, M. Djordjevic-Nikic, A. Popovic (SCG)

*PP25-33*

Relations of oxygen consumption between selected sportswomen and population in general as well as differences within the group according to sport type  
Stjepanovic-Bogdanovic S., S. Đorđević-Šaranovic, B. Suzic-Todorovic, D. Cubrilo, S.Savic (SCG)

*PP25-34*

One more reason why a talent is not enough  
Milojkovic B. (SCG)

*PP25-35*

Metabolic adaptation of skeletal muscles through strength training  
Drapsin M., O. Barak, J. Gacesa, D. Lukac, D. Karaba (SCG)

*PP25-36*

Motorical and anthropometrical status as factor of success in judo  
Atanasov D., M. Bratic, M. Nurkic, R. Djuraskovic (SCG)

*PP25-37*

Preparation of the organism for the work before the start of the competition  
Kozomara M., D. Drobnjak (SCG)

*PP25-38*

Influence of intensive physical training on blood pH value  
Đorđević V., I. Ilic (SCG)

*PP25-39*

Changes in pulse during bicycle ergometer test  
Popovic J., M. Drapšin (SCG)

*PP25-40*

Influence of physical exertion on hormonal status  
Smiljic S., D. Radovic, Z. Milanovic, M. Parlic, D. Stevanovic (SCG)

*PP25-41*

Rates of force development in master swimmers aged 40-96 years and young sedentary individuals  
Ditroilo M., P. Benelli, M. Del Sal, G. De Vito, E. Fernandez-Peña, R. Forte, A. Freddo, D. Gambarara, E. Grassi, V. Stocchi (Italy)

*PP25-42*

The relationship between jump height, isometric strength and force-velocity  
Schantz P., A. Lundh, J. Salier-Eriksson (Sweden)

*PP25-43*

Relationship between laboratory-measured variables and performance during a stochastic 100-km time trial  
Abbiss C., P. Laursen (Australia)

*PP25-44*

Changes in catecholamine responses after Brazilian professional basketball season: Influence of time played during the season  
Batista Jr. M.L., R.T. Santos, F. Romero, R. Marrelli, L.R.F. Costa (Brazil)

*PP25-45*

Changes in left ventricular morphology during a season in sub-elite endurance trainer runners  
Moliner D.U., D. Munguía, A. Legaz (Spain)

*PP25-46*

Effects of different levels of leg external pressure application on local and systemic responses during upright cycling  
Anastassopoulos S., G. Nassis, M. Koskolou, S. Kounalakis, N. Geladas (Greece)

*PP25-47*

Bone mineral density of calcaneus and dominant lower limb  
Obradovic B., B. Kovacev (SCG)

*PP25-48*

Changes of ergometric parameters of anaerobic power during programmed strength training  
Galic V., R. Savic, M. Drapsin, O. Barak (SCG)

*PP25-49*

Effect of passive and active recovery on repeated sprint ability in basketball players  
Castagna C., S. D'Ottavio, V. Manzi, G. Annino, R. Colli, E. Padua, L. Bartoloni, R. Belardinelli, F. Lacalaprice (Italy)

*PP25-50*

Maximal oxygen uptake associated with distance running performance in homogeneous groups of top athletes  
Munguía D., D. Moliner, A. Legaz (Spain)

*PP25-51*

Heart rate, oxygen consumption and blood lactate concentration responses to repeated sprinting in youth soccer players  
Castagna C., S. D'Ottavio, V. Manzi, R. Colli, G. Annino, L. Bartoloni, R. Belardinelli, F. Lacalaprice (Italy)

*PP25-52*

Implications of the association between VO<sub>2</sub>max and left ventricular volume on the central and peripheral limitations of VO<sub>2</sub>max  
Munguía D., D. Moliner, A. Legaz (Spain)

*Poster Session 26***Sports Psychology**

Breivik G. (Norway)

*PP26-1*

Analysis of some perceptive skills in national level junior basketball players  
Sillero Quintana M., A. Melendez, J. Sampedro (Spain)

## PP26-2

Working rhythm and memory during the tracking task of Advance Trail Making Test (ATMT) of elderly humans  
Tajima T., N. Akira, U. Katuyuki (Japan)

## PP26-3

The effect of physical and mental fatigue on cognitive processes  
Kreegipuu K., M. Tamm, T. Jürimäe (Estonia)

## PP26-4

The differences at levels of cognitive abilities and personality characteristics with grammar school and medical high school pupils  
Popovic D., V. Stankovic (SCG)

## PP26-5

Self-determination and stage of readiness to change for exercise in young people  
Daley A., J.L. Duda (United Kingdom)

## PP26-6

"http://www.bisp-sportpsychologie.de": The sport psychology internet platform for top level sports  
Neumann G. (Germany)

## PP26-7

The specific characteristics of the profile of young athletes of Serbia  
Bacanac Lj., A. Veskovic, M. Radovic (SCG)

## PP26-8

Family attitude towards children's sport activity  
Radovic M., A. Veskovic, Lj. Bacanac (SCG)

## PP26-9

Stressful situations in professional basketball players  
Rosado A., A. Santos (Portugal)

## PP26-10

Bibliometrical analysis of published papers in field of sport psychology - an selective review for the period between 1971-1990  
Popovic R., D. Radisavljevic, A. Milojevic (SCG)

## PP26-11

Didactic and methodological conceptions on surfing teaching  
Rosado A., M. Correia, I. Mesquita (Portugal)

## Poster Session 27

**Sports Medicine**

Bärtsch P. (Germany)

## PP27-1

The reasons of sports injuries prevalence of physical education high schools students  
Kashef M., A. Bonyan (Iran)

## PP27-2

Lumbar support reduces in-flight muscle strain in helicopter pilots  
Oksa J., V. Luoma (Finland)

## PP27-3

Densitometry analysis of bone scan results in chronic epicondylitis  
Pienimäki T., R. Takalo, J. Karppinen (Finland)

## PP27-4

Continuous subcutaneous glucose monitoring in diabetic patients after strength or endurance training  
Strasser B., E. Cauza, P. Haber (Austria)

## PP27-5

Differentiation between inside or outside origin of nandrolone  
Ballesteros A., M. Maynar-Muñoz, P. Vizueté, G. Olcina, J. Brazo, R. Timon, S. Padilla, M. Maynar-Mariño, J.I. Maynar-Mariño (Spain)

## PP27-6

Viral myocarditis with active athletes – diagnostics, therapy and prognosis  
Petrin R., Z.Kozlovacki (SCG)

## PP27-7

Continuous electrocardiography during physical activity  
Colak S. (SCG)

## PP27-8

Ambulatory blood pressure monitoring in individuals with exaggerated blood pressure response to exercise - influence of physical conditioning  
Džudžić Ž., R. Roglic (SCG)

## PP27-9

Prevention of injuries in a ring:role of a doctor, judge and coach  
Šćepanovic G. (SCG)

## PP27-10

Menstrual dysfunction and regional fat distribution  
Stokic E., B. Srdic (SCG)

## PP27-11

School desk influence on kifotic and lordotic bad body position in 5th grade school children  
Bogdanovic Z. (SCG)

## PP27-12

Non operative treatment of achilles tendon injuries  
Stanojkovic A., M.C. Stanojkovic, A. Kojic, O. Cucilovic (SCG)

## PP27-13

Operative treatment of achilles tendon injuries in athletes  
Stanojkovic M., A.M. Stanojkovic, A. Kojic, O. Cucilovic (SCG)

## Poster Session 28

**Sports history & Sports sociology**

Gems G. (USA)

*PP28-1*

Contribution of the artistic value to the aesthetic dimension of acrobatic gymnastics. Comparative study between Portuguese and international athletes

Lacerda T., A. Côte-Real, M. Botelho, M. Godinho, C. Côte-Real (Portugal)

*PP28-2*

School sports dropout

Rosado A., F. Mendes, I. Mesquita, N. Januário, H. Pereira, J. Grade (Portugal)

*PP28-3*

Culture and tacit knowledge in sport organizations

Kaiser S., R. Keiner, F. Engel (Germany)

*PP28-4*

Sport mobility: global dimensions

Sekot A. (Czech Republic)

*PP28-5*

Martial arts in the process of institutional and ideological change on the example of Aikijutsu

Cynarski W.J., K. Obodynski (Poland)

*PP28-6*

Physical culture and psycho-social aspects of the youth's health-saving

Malozemov O.Y. (Russia)

*PP28-7*

Relative age effect amongst 2811 professional footballers playing in England between 1990 and 2000

Littlewood M., D. Richardson, G. Atkinson (United Kingdom)

## Poster Session 29

**Coaching & Performance**

Spitzenpfeil P. (Germany),

Drust B. (United Kingdom), Hespel P. (Belgium),

Impellizzeri F.M. (Italy)

*PP29-1*

True race distance in swimming is dependent on body size and pool type

Kjendlie P., R.K. Stallman (Norway)

*PP29-2*

The influence of the defensive intervention of the libero in the organization of the counter-attack in high-level men's volleyball

Mesquita I., F. Manso (Portugal)

*PP29-3*

Development of flexibility through stretching-balistic method versus stretching-static method

Ortanesu C., D. Ortanesu, L. Rusu (Romania)

*PP29-4*

Heart rate and match analysis in older basketball matches

Tessitore A., M. Tiberi, R. Meeusen, E. Rapisarda, L. Capranica (Italy)

*PP29-5*

Setters and attackers best performance in proportion with performance in the preceding action of Complex I in male volleyball in the 2004 Olympic Games

Barzouka K., G. Malousaris, N. Bergeles (Greece)

*PP29-6*

Influence of training status on physiological responses during an easy indoor rock climbing

Bertuzzi R.C., E. Franchini, M. Kiss (Brazil)

*PP29-7*

The structure of training process for elite athletes for major competition (on the materials of modern pentathlon)

Driukov V., T. Mistulova, Y. Pavlenko (Ukraine)

*PP29-8*

Peculiarities and estimation of competitive activity of goalkeepers in field hockey

Fedotova E., V. Fedotova (Russia)

*PP29-9*

Ski skating force comparisons across techniques

Kvamme B., V.E. Jakobsen, G.A. Smith (Norway)

*PP29-10*

Setters and attackers best performance in proportion with performance in the preceding action of Complex II in male volleyball in the 2004 Olympic Games

Malousaris G., K. Barzouka, N. Bergeles (Greece)

*PP29-11*

The planning of training for highly qualified alpine ski racers: The philosophies of expert coaches

Reid R., H. Per (Norway)

*PP29-12*

Evaluation of three different training methods for the development of handball throwing velocity

Skoufa E., C. Efstathios, T. Christos, S. Dimitrios, P. Dimitrios (Greece)

*PP29-13*

Changes of body balance function of young gymnasts related to specific fatigue of training session

Zasada M., S. Savchin (Poland)

*PP29-14*

Shotput performance and muscular strength

Georgiadis G., G. Karampatsos, T. Kyriazis, G. Terzis (Greece)

*PP29-15*

Shotput performance and vastus lateralis fiber type composition

Terzis G., G. Stratakos, I. Voggiagis, S. Kavouras, G. Karampatsos, G. Georgiadis (Greece)

*PP29-16*

Acute effects of passive stretching after active and passive warm up of leg extensor muscles during vertical jump  
Margonato V., E. Cč, G. Merati, M. Casasco, A. Veicsteinas (Italy)

*PP29-17*

Acute effects of passive static stretching on fibres conduction velocity in biceps brachii muscle  
Ce E., S. Rampichini, G. Merati, A. Veicsteinas (Italy)

*PP29-18*

Differences in standard performance indicators between male and female basketball senior teams participating in the 2003 European Championships  
Nakic J., I. Jukic, S. Šimek, Z. Custonja, A. Bradic, E. Pašalic (Croatia)

*PP29-19*

Effect of six months' taiji training on balance in healthy elderly subjects  
Peng Y. (China)

*PP29-20*

Exploring policemen motoric capabilities using factor analysis  
Đorđević A. (SCG)

*PP29-21*

About rowing tactic  
Bachev V., S. Neykov (Bulgaria)

*PP29-22*

Effects of training volume on age of menarche in Turkish female athletes  
Mavili S., S. Zambak, K. Sevgi, H. Tahir, A. Caner (Turkey)

*PP29-23*

Effects of low volume sprint and plyometric training program in pre-season on aerobic and anaerobic performance in professional basketball players  
da Silva Fermino de Oliveira R., M.L. Batista Jr, E. Franchini, F. Romero, L.F.B.P. Costa (Brazil)

*PP29-24*

Bibliometrical analysis of the information course in the Pre-Olympic Congress "sport science through the ages" Thessaloniki/Hellas 2004  
Aleksic D. (SCG)

*PP29-25*

Supplement to the modeling of volleyball motorics of selected younger players in Serbia  
Stojanovic T., R. Kostic, D. Milkic (SCG)

*PP29-26*

Profiling in elite soccer - characteristics of elite players  
Dabetic M., S. Ostojic, N. Dikic, S. Mazic (SCG)

*PP29-27*

Analysis of morphometric and spirometric parameters in wrestlers and rowers  
Galic V., R. Savic, M. Drapsin, O. Barak (SCG)

*PP29-28*

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*PP30-4*

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Effect of increase in volume training upon glutamine metabolism in skeletal muscle  
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The DHEA-S concentration changes in athletes during the training cycles  
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*PP30-7*

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*PP30-8*

Comparison of the fatty acid composition of individual phospholipids from rat heart and its mitochondria  
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Changes in kinematic variables following maximal eccentric exercise  
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Emg study of the pectoralis major (sternal portion), teres major, latissimus dorsi and deltoid medial muscles in volleyball players  
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Place N., A. Martin, R. Lepers (France)

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Yumigeta R., T. Takanori, K. Daisuke, T. Shigeharu, T. Naoya (Japan)

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Acute effects of passive static stretching on explosive force output of leg extensor muscles  
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Amandio J., A. Vences Brito (Portugal)

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Harbili E., A. Serdar (Turkey)

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O'Halloran J., R. Anderson (Ireland)

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Shift in the angle-force relationship as an indirect indicator of exercise-induced muscle damage  
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Ratel S. (France)

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Alves F., C. Noronha, F. Vieira, I. Fragoso (Portugal)

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The survey and comparison level of health related fitness of Iranian students (girls &amp; boys) with ages of 9 to 17 with national norm

Azmoon J. (Iran)

## PP32-3

Effects of growth and development on ball kicking performance in male junior soccer players

Teshima T., Y. Ryosuke, K. Daisuke, T. Shigeharu, T. Naoya (Japan)

## PP32-4

Effect of a training programme on the development of the capacities of young volleyball players

Karim B. (Tunisia)

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Relationship between basketball skills and rhythmic accuracy in childhood

Mastrokalou A., C. Demetrios, D. Dionysios, K. Eirene (Greece)

## PP32-6

Morphological characteristics and body composition of tennis male and female players during growth

Anagnostopoulou N., T. Mavragani, A. Avloniti, H. Doua (Greece)

## PP32-7

An orientation on fundamental motor skills of pre-school children in Flanders

Cools W., C. Andries, C. Samaey, K. De Martelaer (Belgium)

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Selection and management of talent in ice hockey

Géczi G., L. Révész, J. Bognár (Hungary)

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Tracking of paediatric obesity: BMI, waist-circumference, waist-hip-ratio and adiposity rebound as diagnostic tests for fatness in young children

Lazaar N., J. Aucouturier, S. Ratel, M. Rance, M. Meyer, M. Bedu, P. Duché (France)

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A study of young people's, sport, leisure and health: some preliminary findings

Smith A., K. Green, K. Lamb (United Kingdom)

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Formulation of national pull up norm for 9 to 17ages (girls&amp; boys) of Iranian students

Azmoon J. (Iran)

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Growth, maturation and physical fitness – A comparative study among young volleyball players and young students without extracurricular sport participation

Carvalho A., F. Fidalgo, P. Mourão, R. Ângelo, C. Carvalho (Portugal)

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Narici M. (United Kingdom)

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Araujo T., S. Matsudo, V. Matsudo (Brazil)

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Cardiovascular risk, heart rate variability and endurance capacity in sedentary elderly

Bürklein M., L. Vogt, A. Rosenhagen, R. Hofstetter, W. Banzer (Germany)

## PP33-3

Assessment of exercise capacity: effects of age and pathology

Deley G., G. Kervio, B. Vergčs, J.M. Casillas (France)

## PP33-4

The effect of sport attendance and free-living physical activity on BMI in Italian school children

Ditroilo M., P. Benelli, R. Mancini, F. Giacomini, F. Colasanti, V. Stocchi (Italy)

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The enhancement of the quality of life of senior persons by strength training

Dilger E. (Germany)

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The YMCA's cycle ergometer test is valid to estimate the energy expenditure of the physical activity

Garatachea Vallejo N., E. Cavalcanti, J.A. de Paz (Spain)

## PP33-7

Impact of an active walking program on perceived health and its relationship with changes in fitness/fatness of sedentary healthy postmenopausal women

Garnier S., S. Lemoine, I. Sicre-Gaubert, S. Joffroy, M. Roussel, G. Auneau, P. Mauričge (France)

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Comparing physical activity in different countries, using response conversion

Hopman-Rock M., A.M.J. Chorus, G.W. Jacobusse, B. van Stef (Holland)

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Levels of recreational physical activity before, during and after pregnancy

Owe K.M., N. Wenche, B. Kari (Norway)

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Relation among physical activity and anthropometric parameters: BMI, % fat mass and triceps skinfold thickness

Sánchez Lopez M., M. Rodríguez Perea, C. Jiménez Roderó, A. Lumbreras Hortelano, J.L. Galiano Arenas, A. Tierno Patino (Spain)

*PP33-11*

Daily physical activity benefits in preventing postmenopausal women  
Simões A.T., M.P. Mota, M.G. Mota (Portugal)

*PP33-12*

Validity of physical activity measures: PAM versus CSA  
Slootmaker S., M. Chin A Paw, L. Koppes, W. Van Mechelen (Holland)

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Physical and functional evidence of risk factors of disease in employees  
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Fitness index and maximal oxygen uptake among people with active lifestyle in Serbia  
Mitic D., S. Stojiljkovic (SCG)

*PP33-15*

Physically active commuting between home and work/ study place in Greater Stockholm  
Schantz P., E. Stigell (Sweden)

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Pfister G. (Denmark)

*PP34-1*

Fitness and gymnasium. A development history  
Quiroga Macleimont S.R. (Italy)

*PP34-2*

New law and reorganisation of elementary schools in Croatia in 1874 – introduction of compulsory PE  
Custonja Z. (Croatia)

*PP34-3*

The use of drugs in early modern sport, 1870-1904  
Dimeo P. (United Kingdom)

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Organization “Pedestrian Race Valjevo-Jovanje-Valjevo, 10.5 km in 1906”  
Mijatovic S., V. Ilic (SCG)

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Audience’s image of Argentine sport journalism  
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Petersen N. (Denmark)

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Changes in knee extensor muscle size and neural activation during electromyostimulation training and detraining  
Gondin J., M. Guette, A. Martin (France)

*PP35-2*

Task- and time-dependent contralateral neural effects of a unilateral SSC fatiguing exercise  
Regueme S., J. Barthölemy, C. Nicol (France)

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Electromyographic activity and muscle power during and after a muscular hypertrophy resistance exercise protocol  
Smilios I., K. Häkkinen, S.P. Tokmakidis (Greece)

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The influence of experience and selective attention on the development of balance control  
DeOliveira A., J.D. Gallagher, A. Smiley-Oyen (Brazil)

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Kinematic, kinetics and neuromuscular comparative analysis of the “turn movement” between alpine skiing and a new ski simulator  
Pozzo R., P. Consuelo, S. Casasola, F. Grazzinao, E. Rejc, C. Cotelli, A. Canclini (Italy)

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Differences in brain activation between athletes and non-athletes during simple motor task  
Usami Y., H. Urata, H. Mizuhara, J. Kida, H. Hirasawa, Y. Takarada, S. Uchida (Japan)

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Gender differences in ankle musculoarticular stiffness in young humans  
Lambertz D., J.F. Grosset, C. Pérot (France)

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The development of internal representation of movements conveyed by dopamine  
Beck F. (Germany)

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Sobajic S. (SCG)

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Vaggelakoudi A., G. Bogdanis, M. Maridaki (Greece)

*PP36-2*

Food intake according to physical activity level among adolescents from a low socio-economic region  
Biassio L., S. Matsudo, V. Matsudo (Brazil)

*PP36-3*

Exercise performance and muscle contractile properties after creatine monohydrate supplementation in aerobic-anaerobic training rats  
Boyadjiev N., D. Popov, S. Deltchev (Bulgaria)

*PP36-4*

The effects of the creatine supplementation on urinary levels of creatinine  
Rosario W., C. Kemper, C. Marra, P.F. Sousa (Brazil)



## PP36-5

Effect of acute supplementation of carbohydrate during a session of intermittent exercises of high intensity  
Sousa M., J. Tiraepgui, I. Pires, L. Takayama, H.G. Simões (Brazil)

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Nutritional status and body weight changes of adventure racers during an indoor race  
Zalcman I., C.R. Juzwiak, H.K. Antunes, A. Piano, S. Tufik, M.T. Mello (Brazil)

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The first specific equation that estimates body fat in female gymnasts  
Silva M.R., B.M.P.M. Oliveira (Portugal)

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Theeboom M. (Belgium)

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Turkish young people's perceptions of school PE and physical activity: a study using Bourdieu's conceptual tools  
Koca C., G. Demirhan, N. Bulgu (Turkey)

## PP37-2

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Milanovic D., I. Jukic, Z. Custonja, S. Šimek (Croatia)

## PP37-3

Survey burnout rate in the faculty members of physical education and science in Iran  
Sadeghi Boroujerdi S. (Iran)

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Teachers' attitudes to combat sports in school  
Martins P., A. Rosado (Portugal)

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Rogaleva L., V. Malkin (Russia)

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Pereira A. (Portugal)

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What about the physical education curriculum?  
Botelho-Gomes P., A. Graça, P. Silva, P. Queirós (Portugal)

## PP37-8

A descriptive study of the leisure time of Iranian university medical student/with the emphasize on sport  
Zarai A. (Iran)

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"Suggest...make...test": a track and field's project in the primary school  
Paci G., M. Renziteli, S. Serrano (Italy)

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Body composition assessment in subjects involved in aerobic physical activities: a comparison between water-based and land-based exercise  
Benelli P., A. Attanasio, M. Rocchi, F. Giacomini, M. Ditroilo, V. Stocchi (Italy)

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Effect of female sex hormones on collagen synthesis in muscle and tendon in response to exercise  
Miller B., J.L. Olesen, M. Hansen, J.A. Barbraj, K. Smith, M.J. Rennie, M. Kjaer (Denmark)

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EMG evaluation of reproducibility of upper body motion of cross country ski on a custom-built ergometer  
Pellegri B., L. Bortolan, R. Zory, A. Rouard, F. Schena (Italy)

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A new protocol to assess the lactate threshold in water polo  
Platanou T. (Greece)

## PP38-5

Discriminant analysis of anthropometric and jumping performance characteristics among elite female adolescent athletes and untrained controls  
Rousanoglou E., M.E. Nikolaidou, E. Plessa, K. Boudolos (Greece)

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Santos A.M., S. Faustino, C.A. Fontes Ribeiro (Portugal)

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Endogenous anabolic hormonal responses to heavy resistance strength training in young males  
Sarmiento Ramos L., J. Garcia, F. Ortega (Spain)

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Semple S., L. Smith, A. McKune, B. Mokgethwa, A. Wadee (South Africa)

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Warm-up acid base imbalance in elite women-rowers  
Talaban M. (Romania)

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Assessment of energy demand in laser sailing: influences of exercise duration and performance level  
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Kalapotharakos V., M. Michalopoulos, N. Strimpakos, S. Tokmakidis (Greece)

*PP38-12*

The impact of moderate and high intensity total body fatigue on passing accuracy of experienced and novice basketball payers  
Lyons M., Y. Al-Nakeeb, A. Nevill (United Kingdom)

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The influence of anthropometric measures on performance of the straddle vault  
Pop-Petrovski V. (Rep. of Macedonia)

*PP38-14*

Influence of sub-maximal loads in training of muscle strength on the level of lower limbs power at representatives of combat sports  
Stefaniak T., K. Witkowski (Poland)

*PP38-15*

The effect of anthropometrical parameters on the speed and power of young and experienced male handball players  
Visnapuu M., K. Aasmäe, T. Jürimäe, M. Viru (Estonia)

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Prediction of 100 m freestyle performance adopting anthropometric parameters and hand grip strength in elite master swimmers aged 43-80 years  
Zampagni M.L., G. Doní, M. Motta, S. Martelli, P. Benelli, M. Marcacci, G. De Vito (Italy)

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Comparison between speed at lactate threshold and critical speed in elite swimmers  
Thanopoulos V., G. Bogdanis, M. Dopsaj (Greece)

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Physiological characteristics of the load on a training exercise "2X1" in soccer  
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Exercise responses and ventilatory breakpoints in boys and men of similar cardiorespiratory fitness  
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Ahmadizad S., P.M. MacLaren Donald (United Kingdom)

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Alkhatib A., R. Beneke (United Kingdom)

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Acute effects of soccer game on natural killer cells  
Avloniti A., H. Douda, A. Kortsaris, M. Spanoudakis, P.T. Savvas (Greece)

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The correlation of cardiac changes with motor performance and physical characteristics in young swimmers  
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The inflammatory and muscle soreness response after 48h an 800 km cycling race  
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Bortolan L., B. Pellegrini, G. Finizia, F. Schena (Italy)

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Comparison of walking energy expenditure on field tracks and on the treadmill  
Brito J., A. Moreira, V. M. Reis (Portugal)

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Morphology and body composition assessment in male adults. A comparative study among the national team, first and second league volleyball players  
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The effect of mechanical power output during resistance exercise on hormonal responses  
Christou M., S. Ilias, P. Theophilos, H. Keijo, P.T. Savvas (Cyprus)

*PP38-30*

Regional body composition & muscular strength in female endurance athletes with low and normal radius bone mineral density: preliminary findings  
Cooke K., L. Dimitriou, N. Smith, S. Lee, C. Pedlar (United Kingdom)

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Aerobic capacity in young basketball players  
Đelic M., J. Suzic, S. Mazic, D. Mitrovic (SCG)

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Anthropometrical, physical and physiological predictors of performance in rhythmic gymnastics  
Douda H., A. Avloniti, P.S. Tokmakidis (Greece)

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Effectiveness of complex training on some of physical variables and performance level for basketball players under the age of 16  
El Deeb H. (Egypt)

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Effect of Tai chi chuan exercise on some of physiological, physical variables and performance level in modern dance for female students  
Elgendy A., H. Muhammad, A. Hamza (Egypt)

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Severe hypoxemia during "static apnea" in well-trained breath-hold divers performing in field conditions  
Georgas G., M. Koskolou, S. Kounalakis, N. Geladas (Greece)

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Oxygen consumption among well trained athletes running at 10.5 % inclination  
Hem J.E., S. Leirstein (Norway)

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Effect of aerobic and anaerobic exercise on some immunological parameters and bone minerals density for female students  
Heshmat H., B. Mafias, A. Elgendy, H. Muhammad (Egypt)

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Energy cost of mountain snow-shoeing  
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A prediction model for peak power output obtained from different incremental exercise test protocols  
Luttikholt H., D.J. Bentley (Holland)

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Mechanisms of the cytosolic calcium increase during reoxygenation in microvascular endothelial cells of the heart  
Nagy M.A., S.C. Peters, H.M. Piper (Germany)

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Marina M., F.A. Rodríguez (Spain)

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Change in endurance performance after two different intermittent hypoxic training protocols  
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Relationship between body mass index and percent body fat estimated from girth and skinfolds measurements in Greek women  
Nassis G. (Greece)

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Heart rate responses and blood lactate concentration of goal ball players during the game  
Pilianidis T., A. Christodoulos, H. Douda, A. Anastos, P.S. Tokmakidis (Greece)

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Effect of strength training upon metaboreflex control of central haemodynamic and respiratory indices  
Popov D., A. Vdovina, Y. Bravyi (Russia)

## PP38-48

The effect of exercise training on oxygen kinetics in patients with CHF  
Roditis P., S. Dimopoulos, D.Sakellariou, I. Vogiatzis, S. Kapsimalakou, P. Vasiliadis, A. Karaseridis, P. Papazoglou, M. Anastasiou-Nana, S.Nanas (Greece)

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Intensive anaerobic exercise training and leucocyte cells changes in aloxan diabetic rats  
Santos D., C. Neiva, O. Davi, L. Lopes, M. Bendasoli-Silva, R. Deus (Brazil)

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The use of generic versus individualized power frequency parameters in the analysis of heart rate variability  
Seguin J., J.E. Hazzan, R. Neil, R. Norris Stephen, V. von Tscharnner (Canada)

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Early recovery oxygen kinetics is prolonged in patients with  $\beta$ -Thalassemia major  
Vassiliadis J., S. Nanas, A. Aessopos, S.Dimopoulos, D. Sakellariou, E. Karatzanos, S. Ardavani, S. Kapsimalakou, V. Ladis, G.A. Pangalis (Greece)

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Macrophages metabolism and function are not altered by a 50% increase in exercise intensity, a pilot study  
Velhote F.B., E.C. Caperuto, L.F.B.P Costa Rosa (Brazil)

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New proposal for anaerobic threshold and calory expenditure determination through espirometry in aquatic cycling  
Franca E., M. Kraguljac, L. Szmuchrowski (Brazil)

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Shuttle-run test for assessment of aerobic abilities  
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Sakellariou G., V. Voutselass, D. Soulas (Greece)

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Influence of different breathing frequencies upon inspiratory muscle fatigue induced by high intensity front crawl swimming  
Jakovljevic Đ., A. McConnell (United Kingdom)

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Hill D., S. Amano (USA)

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Comparing three different crawl style techniques in water polo in relation to age  
Platanou T., V. Thanopoulos (Greece)

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Autonomic nervous system, training load and performance in competitive swimming in monozygotic twin sisters  
Garet M., N. Tournaire, F. Roche, R. Laurent, J.R. Lacour, J.C. Barthélémy, V. Pichot (France)

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An animal model to study overtraining  
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The effects of intermittent and continuous endurance training on aerobic parameters and endurance performance in adolescent athletes  
Zafeiridis A., P. Zalogos, D. Soulas, V. Voutselas, S. Kellis (Greece)

*PP38-63*

Critical velocity in 14-year-old female football players  
Hill D. (USA)

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Duda J. (United Kingdom)

*PP39-1*

The effects of sleep deprivation on cognitive function in adventure racer's: results of a outdoor race and indoor simulation  
de Mello M.T., H.K.M. Antunes, R.F. Santos, S. Tufik (Brazil)

*PP39-2*

Thriving and non-thriving elite athletes: identifying markers using data triangulation  
Lemyre P., D.C. Treasure, G.C. Roberts, J. Stray-Gundersen, K. Kuczka, M. Kathy (Norway)

*PP39-3*

Judging bias in aesthetic sports: open feedback leads to nonperformance-based conformity  
Boen F., Y. Vanden Auweele, A. De Geest, J. Feys, E. Claes, B. De Cuyper (Belgium)

*PP39-4*

Perceived motivational climate and the role of coach in sport withdrawal  
Viviani F., S. Vian, C. Robazza (Italy)

*PP39-5*

Features of indications of the biological and psychological ages of women practicing fitness  
Ginzburg I. (Russia)

*PP39-6*

Sport psychologist and coach  
Malkin V., L. Rogaleva, A. Piratinskij (Russia)

*PP39-7*

Strategies for coping with stressful situations by professional basketball players  
Santos A., A. Rosado (Portugal)

*PP39-8*

The influence of some psychological and pedagogical factors on physical activity of youth  
Škof B., P. Marcina, D. Boben, S. Cecic Erpic, V. Zabukovec (Slovenia)

*PP39-9*

The improvement of the special preparation process of the cyclists in the simulating experiment  
Hovhannisyan S. (Armenia)

*PP39-10*

State anxiety following 25 minutes of cycle ergometer exercise at various aerobic exercise intensities  
Dabayeb I. (Jordan)

*PP39-11*

Mental skills and trait anxiety in Portuguese hockey players: an exploratory study with first division athletes  
Gaspar P., J. P. Ferreira, M. Nuno (Portugal)

*PP39-12*

Psychosocial correlates of physical activity among fifth and sixth graders in Greece  
Nakkou E., M. Polykratis, A. Christodoulos, C. Bouziotas (Greece)

*PP39-13*

Behaviour of top handball coaches during games and training sessions  
Sequeira P., J. Rodrigues (Portugal)

## Poster Session 40

**Sports Medicine**

Komulainen J. (Finland)

*PP40-1*

Differences in the echocardiographic characteristics of the athlete's heart

Vujin B., D. Benc, N. Grujic, S. Srdic, N. Cemerlic-Adjic, M. Kovac (SCG)

*PP40-2*

Hemodynamic and muscular adaptations after exercise training in patients with heart failure: two case studies

Kosmidou K., K. Volaklis, H. Douda, A. Panagiotidou, T. Savvopoulou, S. Tokmakidis (Greece)

*PP40-3*

Differences in injuries location and incidence between cadet, junior and senior Croatian basketball team

Trošt T., G. Sporiš, I. Jukic (Croatia)

*PP40-4*

Judo: prospective epidemiological study of both acute and overuse injuries

Boonen S., E. Cumpts, R. Meeusen (Belgium)

*PP40-5*Red blood cell and reticulocyte turn over with autologous blood transfusion: Implications for anti-doping strategies  
Damsgaard R., T. Munch, J. Moerkeberg, S.P.Mortensen, J. González-Alonso (Denmark)*PP40-6*

A study into the relative reliability of two different methods of measuring leg length discrepancy

Forster E., A. Hand, A. Lander, H. Potter, A. Downing (United Kingdom)

*PP40-7*

Injuries in professional athletes of ski and their effect in the development of musculoskeletal system chronic diseases

Giannoulis J., M. Iosifidis, L. Malioufas, P. Sarrigiannidis, S. Traios, C. Tomtsis (Greece)

*PP40-8*

The current use of magnetic therapy. Is there a place in sport injury management?

Micallef-Stafrace K., M. Stanislavjevic, N. Buttigieg, N. Camilleri, M. Aquilina (Malta)

*PP40-9*

Incidence and pattern of musculoskeletal injuries and physical fitness among Greek cadets during basic military training

Paxinos T., D. Kardaris, K. Havenetidis, A. Kanadiakis, A. Karamaroudis (Greece)

*PP40-10*

Synovial osteochondromatosis of the elbow in a basketball player: a case study and brief review

Pecotic G., K. Micallef-Stafrace, A. Bernard (Malta)

*PP40-11*

Case study : The effects of elevated forefoot shoes on the post-operative rehabilitation of a ruptured Achilles tendon

Yi K., Y.R. Kim, B.Y. Kwon, S.H. Kim, Y.S. Jin, E.K. Park (Korea, South)

## Poster Session 41

**Coaching & Performance**Cardinale M. (United Kingdom),  
Spitzenpfeil P. (Germany)*PP41-1*

Somatotype of Swiss elite and sub-top floorball (unihockey) athletes

Clarys P., J. Taeymans, R. Clijsen, W. Duquet (Belgium)

*PP41-2*

Evaluation of critical swimming speed in recreational swimmers

Minganti C., S. Demarie, M.F. Piacentini (Italy)

*PP41-3*

Technique alternatives in elite triple jumping: behaviour and influence of speed

Niessen M., A. Jürgens, U. Hartmann (Germany)

*PP41-4*

Study of a set of tests on rapidity as a mean of talent research in karate

Villani R., N. Dal Monte, A. Tomasso, M. Distaso (Italy)

*PP41-5*

Pacing within an ITU World Cup triathlon- a comparison of male and female competitors

Vleck V., A. Bürgi, G.P. Millet, D.J. Bentley (United Kingdom)

*PP41-6*

Effectiveness of training program by using of fins on some of physiological, physical variables and it relationships by technical performance level in swimming

Abd elaziz S., A. Hamza (Egypt)

*PP41-7*

Exercise intensity in tennis: training drills vs simulated match play

Fernández Fernández J., B. Fernández-García, A. Méndez-Villanueva, N. Terrados (Spain)

*PP41-8*

Specific incremental test in elite squash players

Girard O., P. Sciberras, M. Habrard, P. Hot, R. Chevalier, G. Millet (France)

*PP41-9*

Controlling for day to day variation in heart rate variability during testing

Hazzan J., J.E. Seguin, R. Neil, S.R. Norris, V. von Tscherner (Canada)

*PP41-10*

Study of the pass quality-association with followed attack's conditions and effect of the solution (quality of attack), whenever it is realized either by Líbero player or priority receivers' players

João P.V., I. Mesquita, C. Moutinho, M.P. Mota (Portugal)

*PP41-11*

A specific visual skills training programme improves fencing performance level, visual variables and static balance

Khatab A., M. Rashad, A. Hamza (Egypt)

*PP41-12*

Acrobatic lines in floor exercises in women artistic gymnastics – A study in Portuguese and International junior gymnasts

Lebre E., C. Corte-Real, A. Corte-Real (Portugal)

*PP41-13*

Coaches' stance towards tactical preparation within youth basketball teams

Pinto-Lopes A., A. Graca (Portugal)

*PP41-14*

Improve strategies and decision making in training interventions

Reis P., K. O'Hara (Portugal)

*PP41-15*

Tactical performance analysis in high-level handball teams

Santos L., F. Tavares, J. Garganta (Portugal)

*PP41-16*

Muscle size and force output characteristic on the upper limb in male Kendo players

Mitsuhiro K., K. Daisuke, T. Shigeharu, U. Michio, T. Naoya (Japan)

*PP41-17*

Methodological approach to scientific research on sport games

Milanovic D., D. Vuleta, S. Šimek (Croatia)

*PP41-18*

Reliability and validity of a specific upper body testing device and concept for the cross-country skiing Sprint

Stöggli T., S. Lindinger, E. Müller (Austria)

*PP41-19*

Organization of a circuit for the evaluation of the special endurance in Sanda

Villani R., M. Distaso (Italy)

*PP41-20*

Influence of recovery mode on the total oxygen uptake during a single intermittent session

Thevenet D., M. Tardieu-Berger, J. Prioux (France)

*PP41-21*

Increase of the specific rapidity in the Tae-Kwon-Do through a contrast method

Villani R., F. Ruggieri, A. Tomasso, M. Distaso (Italy)