



Université Lille 2
Droit et Santé



CHILDREN AND EXERCISE XXV

**Physical Activity and Exercise for
Disabled and Healthy children**

*XXVth International Symposium of Pediatric
Physiological Work*
Le Touquet Paris Plage
29th September - 3rd October
2009

PROGRAM

Tuesday September 29th

10:15 a.m., 2:00 p.m. and 6:30 p.m.

Buses from Boulogne train station TGV to Le Touquet

11:00 a.m.-8:00 p.m.

Welcome

6:30-7:15 p.m.: Inauguration

Inaugural conference: The 2009 Rutenfranz memorial lecture

Chairmen: Mark Tremblay (Canada) – Thomas Rowland (USA)

7:15-8:00 p.m.

Conference - Pr Emmanuel Van Praagh, France

" Child as a Source of Mechanical Power "

8:00-9:30 p.m.

Dinner

Wednesday September 30th

7:30-8:30 a.m. Welcome breakfast

Thematic sessions 1 – Cardiovascular responses to exercise

Chairmen: Bruce Alpert (USA) – Philippe Obert (France)

8:30-9:15 a.m. Conference - Pr Daniel Green, United Kingdom

" Cardiovascular Adaptations in Response to Exercise, Training and Physical Activity in Children"

9:15-10:30 a.m. Oral presentations

9:15-9:30 a.m. Exercise Capacity and Pulmonary Function Following Repair of Transposition of the Great Vessels: Atrial Baffle Versus Arterial Switch

L. Sterrett, T. Cordes, E. Ebenroth, G. Montgomery, and M. Schamberger

9:30-9:45 a.m. Cardiac Function During Exercise in Obese Prepubertal Boys: Effect of Degree of Obesity

A. Vinet, L. Karpoff, A. Perez-Martin, C. Oudot, P. Obert, and I. Schuster

9:45-10:00 a.m. Association Between High Intensity Physical Activity and Vascular Function in 9-11 Year Olds.

N. Hopkins, G. Stratton, T.M. Tinken, N. McWhannell, N. Ridgers, L.E.F. Graves, N.T. Cable, and D.J. Green

10:00-10:15 a.m. Pacemaker Optimization in Patients after Fontan Surgery

J.E. Schneiderman, S. Thomas, C. Chiu, G. Smith, C. Slorach, T.J. Bradley, J. Goodman, and R. Hamilton

10:15-10:30 a.m. Gender Influence on Myocardial Function During Maximal Cycle Exercise in Youth

T. Rowland, V. Unnithan, M. Garrard, D. Roche, K. Holloway, S. Marwood, and J. Sandoval

10:30-11:00 a.m. Coffee break

Free presentations 1

Chairmen: Keith Tolfrey (UK) – Nathalie Farpour-Lambert (Switzerland)

11:00-12:30 a.m. Oral presentations

11:00-11:15 a.m. **The Test/re-Test Reliability of a Field-Based Fitness Test Battery in 9-10 Year Old Schoolchildren**

L.M. Boddy, G. Stratton, and A.F. Hackett

11:15-11:30 a.m. **Repeated Sprint Test Performance Indices and Aerobic Fitness in Normal Weight and Overweight Children**

Y. Meckel, S. Lougassi, Y. Sitbon, D. Nemet, and A. Eliakim

11:30-11:45 a.m. **Contributing Factors to Performance on the Leger Shuttle Run Among Children.**

J. Hay, J. Cairney, B. Faught, N. Tjepkema, and U. Huh

11:45-12:00 a.m. **Muscle Deoxygenation Response at the Onset of Moderate-Intensity Exercise in Children and Adults**

E. Leclair, S. Berthoin, B. Borel, H. Carter, F. Prieur, G. Baquet, and P. Mucci

12:00-12:15 a.m. **Effect of Pedal Rate on Pulmonary Oxygen Uptake Kinetics during High-Intensity Exercise in Trained Adolescent Cyclists**

B.C. Breese, C.A. Williams, A.R. Barker, and N. Armstrong

12:15-12:30 a.m. **Arm Cranking and Cycloergometer Wingate Test Performed by Differently Matured Swimmers: what is the Importance of Power Results Normalization?**

S. Soares, R. Fernandes, J. Maia, and J. P. Vilas-Boas

12:30-2:00 p.m. Lunch and poster session 1

Thematic sessions 2 – Genetics and physical activity

Chairmen: Lars Bo Andersen (Denmark) – Daniel Courteix (France)

- 2:00-2:45 p.m. Conference - Pr P Froguel, France**
- 2:45-4:30 p.m. Oral presentations**
- 2:45-3:00 p.m. Familiarity in Metabolic Syndrome Indicators, A Study with Azorean Families.**
J.A.R. Maia, M.A.O.A. Campos, A.F. Seabra, R.M.G. Silva, A. Prista, and S. Abreu
- 3:00-3:15 p.m. Ace I/D Genotype Does Not Modify The Longitudinal Relationship Between Physical Activity And Blood Pressure During Childhood**
J.C. Eisenmann, A.D.G. Baxter-Jones, G. Welk, and K. Heelan
- 3:15-3:30 p.m. Metabolic Syndrome and its Genetic Factors: A Study of Twins from Madeira And Porto Santo Islands, Portugal**
P.J. Gonçalves, J.A. Maia, G.P. Beunen, M.A. Carvalho, A.M. Brehm, M.J. Almeida, E.R. Gouveia, M.A. Thomis, and D.L. Freitas
- 3:30-3:45 p.m. Effect of Continuous and Intermittent Exercise on Immune Cell Responses in Children With and Without a Chronic Inflammatory Disease**
J. Obeid, H.E. Ploeger, T. Nguyen, T. Takken, and B.W. Timmons
- 3:45-4:00 p.m. Anabolic Hormones and Inflammatory Markers in Elite Male and Female Adolescent Payers Following a Volleyball Practice**
A. Eliakim, S. Portal, Z.Zadik, J. Rabinowitz, D. Adler-Portal, D.M. Cooper, F.Zaldivar, and D. Nemet
- 4:00-4:15 p.m. Components of the Metabolic Syndrome and Cytokines in Adolescents**
D.A. Rubin, R.G. McMurray, J.S.Harrell, and A.C. Hackney
- 4:15-4:30 p.m. Acute Hormonal Response of Male and Female Adolescents to a Taekwondo Fights Simulation Day**
R. Pilz-Burstein, Y. Ashkenazi, N. Shamash, M. Epstein, I. Sela, and L. Zigel, Y. Cohen, A. Eliakim

4:30-5:00 p.m. Coffee break

Free presentations 2

Chairmen: Karin Pfeiffer (USA) - Tim Takken (The Netherlands)

5:00-6:30 p.m. Oral presentations

5:00-5:15 p.m. Gender Specific Associations Between Components of Sedentary Behaviour, Physical Activity and Body Fatness In 8-10 Year Old Children Reporting High Media Usage

L.E.F. Graves, N.D. Ridgers, and G. Stratton

5:15-5:30 p.m. The Influence of Maturity Status on Primary School Children's Physical Activity and Physical Self-Perceptions

S. J. Fairclough, and N. D. Ridgers

5:30-5:45 p.m. Exploring the Contribution of Multidimensional Correlates to Adolescents' Physical Activity

T. A. Hilland, S. J. Fairclough, N. D. Ridgers, and G. Stratton

5:45-6:00 p.m. Comparing Physical Activity Levels of Hungarian Boys and Girls during Weekdays

M. Uvacsek, M. Tóth, and N. D. Ridgers

6:00-6:15 p.m. Empirical Evidence to Inform Decisions Regarding Identification of Non-Wear Periods from Accelerometer Habitual Physical Activity Data

A.V. Rowlands, D.W. Esliger, J. Eady, and R.G. Eston

6:15-6:30 p.m. Sources of Stress in Young Athletes

P. Gaspar, D. Melo, and J.P. Ferreira

8:00-10:00 p.m. Dinner in Le Touquet (Flavio)

Thursday October 1st

7:30-8:30 a.m. Welcome breakfast

Thematic sessions 3 – Limiting factors of muscle exercise

Chairmen: Sebastien Ratel (France) – Vish Unnithan (Israel)

8:30-9:15 a.m. Conference - Pr Craig Williams, UK

"Fatigue mechanisms in children"

9:15-10:30 a.m. Oral presentations

9:15-9:30 a.m. HCO_3^- and non-Respiratory HCO_3^- Buffering in Boys and Male Adolescents

R. Beneke, M. Hütler, and R.M. Leithäuser

9:30-9:45 a.m. Effect of Maturation on the Relationship Between Muscle Size and Force Production

A. Tonson, S. Ratel, Y. Le Fur, P. Cozonne, and D. Bendahan

9:45-10:00 a.m. The Effect of a Stretch-Shortening Cycle Fatigue Test on the Acute (0-30 minutes) Neuromuscular Function of Lower Limbs in Untrained Boys and Men

C. Ftikas, S. Lazaridis, D. Patikas, E. Bassa, I. Parashos, and C. Kotzamanidis

10:00-10:15 a.m. Recovery from Brief Isometric Calf Exercise in Young and Adult Females Measured with ^{31}P -MRS

R.J. Willcocks, J. Fulford, A.R. Barker, and C.A. Williams

10:15-10:30 a.m. Muscle Activation in Pre- and Early-Pubertal Male Power and Endurance Athletes

B. Falk, R. Cohen, C. Mitchell, R. Dotan, P. Klentrou, and D. Gabriel

10:30-11:00 a.m. Coffee break

Thematic sessions 4 – Respiratory responses to exercise

Chairmen: Patrick Mucci (France) – Gareth Stratton (UK)

11:00-11:45 a.m. Conference - Pr S Matecki, France

"Respiratory responses to exercise in healthy and with respiratory disease children"

11:45-12:45 p.m. Oral presentations

11:45-12:00 a.m. Obesity Modifies Ventilatory Responses to Exercise in Youth

R.G. McMurray, and J.S. Harrell

12:00-12:15 a.m. Effects of Antenatal Steroid Exposure on Pulmonary Function and Aerobic Fitness in Adolescents Born Prematurely with Very Low Birth Weight

P. Nixon, L. Washburn, and M. O'Shea

12:15-12:30 a.m. Effects of Exercise Modality on Ventilatory Parameters in Prepubescent Children with Cystic Fibrosis

B. Borel, E. Leclair, D. Thevenet, L. Béghin, F. Gottrand, D. Turck, and C. Fabre

12:30-12:45 a.m. Limiting Factors in Peak Oxygen Uptake in Ambulatory Children with Spina Bifida

J.F. De Groot, T. Takken, M.A.G.C. Schoenmakers, L. Vanhees, and P.J.M. Helders

12:45-2:00 p.m. Lunch and poster session 2

2:00-7:00 p.m. Social program (a walk in Marquenterre)

Coach departure at 2:00 p.m.

8:00-10:00 p.m. Dinner in Le Touquet

Friday October 2nd

7:30-8:30 a.m. Welcome breakfast

Thematic sessions 5 – Epidemiology in physical activity and obesity

Chairmen: Pascal Duché (France) – Karsten Froberg (Denmark)

8:30-9:15 a.m. Conference - Pr Jean Michel Oppert, France

9:15-10:30 a.m. Oral presentations

9:15-9:30 a.m. 1 year Intervention on Clustered Cardiovascular Risk in Overweight and Obese 11-13 year Old Children in Denmark

M. Ried-Larsen, A. Grøntved, N.C. Møller, P.L. Kristensen, K. Froberg, and L.B. Andersen

9:30-9:45 a.m. Canada's 2009 Report Card on Physical Activity for Children and Youth

R.C. Colley, M. Brownrigg, and M.S. Tremblay

9:45-10:00 a.m. Comparison of Approaches for Evaluating Change in BMI in Youth

G. Welk, and M. Ihmels

10:00-10:15 a.m. Long Term Leisure Time Physical Activity has Effect on Peak Bone Mass Gain in Girls

E. Völgyi, A. Lyytikäinen¹, FA. Tylavsky, H. Suominen¹, M. Alén, and S. Cheng

10:15-10:30 a.m. Secular Trends in Established and Novel Cardiovascular Risk Factors in Welsh 12-13 Year Olds: a Comparison Between 2002 and 2007.

N.E. Thomas, R. Williams, D.A. Rowe, B. Davies, and J.S Baker

10:30-11:00 a.m. Coffee break

Thematic sessions 6: Physical Activity interventions

Chairmen: Gregory Welk (USA) – Ann Rowlands (UK)

11:00-12:30 a.m. Oral presentations

11:00-11:15 a.m. **The Success of a General School-Based Physical Activity Intervention on Bone Mineral Content Depends on Pubertal Stage but not on Gender**

U. Meyer, L. Zahner, J. Puder, R. Rizzoli, and S. Kriemler

11:15-11:30 a.m. **Children's Physical Activity and Behaviour during School Recess over Time: The A-CLASS Project**

N.D. Ridgers, L.M. Carter, G. Stratton, and T.L. McKenzie

11:30-11:45 a.m. **Comparison of Physical Activity Level during Structured and Unstructured Activities in Children and Adolescents**

K.A. Pfeiffer, L. Vielbig, R. Moore, D. Sutton, A. Aubrey, and S. Trost

11:45-12:00 a.m. **Changes in Fundamental Movement Skills, Physical Activity, and Percent Body Fat Following a Group-Randomised Trial in 9-10 Year Old Children: The A-CLASS Project**

L. Fowweather, N. McWhannell, N.D. Ridgers, L. Graves, J. Henaghan, J. Hepples, and G. Stratton

12:00-12:15 a.m. **A School-Based Physical Activity Program Increases Fitness and Decreases Adiposity in Primary School Children (KISS): A Cluster-Randomized Trial**

S. Kriemler, L. Zahner, U. Meyer, C. Schindler, and J. Puder

12:15-12:30 a.m. **Moving Hong Kong: An Uphill Struggle**

A McManus, F. Ling, F. Eves, C. Yu, C. Sit, and J.O. Hill

12:30-2:00 p.m. Lunch and poster session 3

Thematic sessions 7 – Physical activity and nutrition

Chairmen: Brian Timmons (Canada) – Suzie Kriemler (Switzerland)

2:00-2:45 p.m. Conference – Pr Angelo Tremblay, Canada

" Daily activities and body weight stability in children: the unfortunate influence of modernity "

2:45-4:30 p.m. Oral presentations

2:45-3:00 p.m. The Exercise Intensity at Lactate Threshold and Maximal Fat Oxidation (Fatmax) do not Coincide in Adolescent Boys or Girls

K. Tolfrey

3:00-3:15 p.m. Relationship between Metabolic Dysfunctions with Physical Activity and Dietary Intake in Late Pubertal Adolescent Girls with Type 1 Diabetes

E. Heyman, P. Berthon, H. Youssef, D. Briard, P. Delamarche, and M. DeKerdanet

3:15-3:30 p.m. Immediate Post Exercise Effects on Caloric Intake and Macronutrient Preferences in Normal Weight and Overweight pre-Pubertal Children

D. Nemet, R. Arieli, Y. Meckel, and A. Eliakim

3:30-3:45 p.m. Physical Activity, but not Dietary Calcium, is Positively Associated with a Bone Microstructure and Strength in Adolescents: An HR-pQCT Study

Braid SA, Burrows M, Liu D, and McKay HA

3:45-4:00 p.m. Bone Mineral Accrual from Childhood to Young Adulthood

A.D.G. Baxter-Jones, R.A. Faulkner, D.A. Bailey, M.R. Forwood, and R.L. Mirwald

4:00-4:30 p.m. Coffee break

Thematic sessions 8 –

Chairmen: Colin Boreham (Ireland) - Wilhem Van Mechelen (The Netherlands)

4:30-6:15 p.m. Oral presentations

4:30-4:45 p.m. Clinical Exercise Testing in Children with Metabolic Disease and other Neuromuscular Disorders

T. Takken, C. Ernsting, P. van Hasselt, B. Prinsen, H. Hulzebos, P. Helders, and G. Visser

4:45-5:00 p.m. Physical Fitness among Children with Intellectual Disabilities

L. Salaun, and S. Berthouze-Aranda

5:00-5:15 p.m. Aerobic Capacity is Decreased in Children and Adolescents with Cerebral Palsy

O. Verschuren, and T. Takken

5:15-5:30 p.m. Association between Fitness, Different Indicators of Fatness, and Clustered Cardiovascular Diseases Risk Factors in Portuguese Children and Adolescents

C. Martins, LB. Andersen, L. Aires, J. Ribeiro, and J. Mota

5:30-5:45 p.m. Cardiopulmonary Exercise Test Characteristics of Children with End-Stage Renal Disease: Signs of an Acquired Myopathy?

T. Takken, R. Engelbert, M. van Bergen, J. Groothoff, J. Nauta, K. van Hoeck, M. Lilien, and P. Helders

5:45-6:00 p.m. Skeletal Age Assessed With Fels and TW3-RUS Methods Among Adolescent Basketball Players

A.J. Figueiredo, I. Rêgo, H. Moreira Carvalho, M.E. Pena Reyes, R.M. Malina, and M.J. Coelho e Silva

6:00-6:15 p.m. Influence of Pubertal Development on Ghrelin in Young Swimmers: a Longitudinal Study

T. Jürimäe, E. Lätt, K. Haljaste, P. Purge, A. Cicchella, and J. Jürimäe

6:15-6:30 p.m. Impact of The Home Environment on Metabolic Syndrome and Other Physiological Variables

D.R. Dengel, M.O. Hearst, J.H. Harmon, J.R. Sirard, C.D. Heitzler, and L.A. Lytle.

8:00-10:00 p.m. Gala Dinner in Le Touquet

Saturday October 3rd

7:30-8:30 a.m. Welcome breakfast

Free communications 3

Chairmen: Ralph Beneke (UK) – José Maia (Portugal)

8:30-10:15 a.m. Oral presentations

8:30-8:45 a.m. Physical Characteristics of Young Handball Player Girls

A. Farkas, A. Somogyi, M. Szmodis, and G. Szóts

8:45-9:00 a.m. Family and Lifestyle Influences on Physical Activity and Body Mass Index in grade 3 (8 yr-old) Australian boys and girls: a cross-sectional study

G. Naughton, J. Peat, K. Gibbons, J. Carlson, R.D. Telford, R.M. Telford, and G. Ducher

9:00-9:15 a.m. Neuromuscular and Kinematic Differences in Squat Jump Between Adults and Children

S. Lazaridis, F. Lazaridis, C. Ftikas, E. Bassa, D Patikas, and C. Kotzamanidis

9:15-9:30 a.m. Physiological and Perceptual Responses in Children during Variable-Intensity Exercise

A.D. Mahon, L.M. Guth, and K.A. Craf

9:30-9:45 a.m Early Phase Overshoot Strategy of Children when Self-Regulating Intermittent Walking and Running Intensity Using Target RPE

R. Robertson, F. Goss, E. Nagle, J. Andreacci, J. Dube, J. Rutkowski, and K. Crawford

9:45-10:00 a.m. Fitness Levels of Urban and Rural Kenyan Children: Emerging Evidence of the ‘Physical Activity Transition’?

M.S. Tremblay, K. Adamo, V. Onywera, A.W. Sheel, M. Boit, J. Waudu, and W. Wong

10:00-10:15 a.m. Establishing Maximal Oxygen Uptake in Young People during a Ramp Cycle Test to Exhaustion

A.R. Barker, and N. Armstrong

10:15-10:45 a.m. Coffee break

Closing ceremony

Chairman: Neil Armstrong (UK)

10:45-11:15 a.m. Awards ceremony

11:15-11:45 a.m. Presentation of the 26th PWP congress. Pr Craig Williams, University of Exeter, UK

12:00-1:30 p.m. Lunch

1:30 p.m. Coach departure for Boulogne train station TGV and Etaples-Le Touquet train station

Poster presentations - Session #1

Wednesday September 30th

12:30 a.m. – 2:00 p.m.

P1 The Anaerobic-to-Aerobic Power Ratio in Children With Juvenile Idiopathic Arthritis

M. van Brussel, L. van Doren, B. W. Timmons, J. Obeid, J. van der Net, P.J.M. Helders, and T. Takken

P2 Muscle Energetics Changes in Prepubescent Boys and Adults: a Quantitative ³¹P-MRS Analysis

A.Tonson, S. Ratel, Y. Lefur, P.J. Cozzone, and D. Bendahan

P3 Is there a Relative Age Phenomenon in Elite Female Ice Hockey?

C.A. Geithner, and M.R. Bracko

P4 Physical Activity Levels of Hungarian Children during School Recess

N.D. Ridgers, and M. Uvacsek

P5 Comparison of Physical Activity Pattern Obtained by Uni- or Tri-Axial Accelerometers

J. Vanhelst, L. Béghin, P. Bergman, M. Sjöström, and F. Gottrand

P6 Waist-to-Height Ratio and Body Mass Index as predictors of Cardiovascular Risk in Youth

D.J. Keefer

P7 Exercise Intensity During a Recreational Climbing Clinic for Youth 12-17 years of Age

S.R. Siegel, B.L. Haddock, L.D. Wilkin, and D.T. Atienza

P8 Reduced Physical Activity Level and Cardiorespiratory Fitness in Children with Chronic Diseases

A.B.R. Maggio, M.F. Hofer, X.E. Martin, L.M. Marchand, M. Beghetti, and N.J. Farpour-Lambert

P9 Differences in Perceived Environmental Features, Physical Activity, and BMI according to Socioeconomic Status.

J. Mota, R. Santos, M. Pereira, L. Teixeira, and M.P. Santos,

P10 Relations between Academic Achievement and Physical Fitness Level in Portuguese School Children

L. Lopes, R. Santos , C. Moreira, V. Lopes, and B. Pereira

- P11 Effects of Attending Elevated Level School Physical Education in 7-to-11-year-old Boys**
Zs. Mészáros, M. Zsidegh, and J. Mészáros
- P12 Association between Fitness, Physical Activity Components and Percent Body Fat in Liverpool Schoolchildren Aged 9-10 Years: The A-CLASS Project**
L.E.F. Graves, N.D. Ridgers, N. McWhannell, J.Henaghan, L. Foweather, and G. Stratton
- P13 Normalization of Stroke Volume for Body Composition During Maximal Cycle Exercise in Highly Trained Adolescents**
V. Unnithan, T. Rowland, K. Holloway, M. Garrard, D. Roche, S. Marwood and J. Sandoval
- P14 The Effect of Early Childhood Gymnastics on Subsequent Bone Density and Strength**
M. Erlandson, S. Kontulainen, S. Jackowski, and A.D.G. Baxter-Jones
- P15 Physique, Body Composition and Running Performance in 6- and 7-Year-Old Cypriot and Hungarian Boys**
P. Pampakas, Zs. Mészáros, and F. Ihász
- P16 Relationship of Socio-Cultural Factors with Physical Activity, Body Fat and Physical Fitness in Preschool Children**
F. Bürgi, U. Meyer, I. Niederer, V. Ebenegger, L. Zahner, U. Granacher, S. Kriemler, and J.J.Puder
- P17 Differences in Eating Habits between Swiss and Migrant Preschool Children**
V. Ebenegger, P. Marques-Vidal, A. Nydegger, I. Niederer, F. Bürgi, S. Kriemler, and J.J. Puder
- P18 Bone Mineral Values, Insulin-Like Growth Factor-1, and Sex Hormones in Adolescent Female Athletes**
R. Gruodytė, J. Jürimäe, M. Saar, and T. Jürimäe
- P19 Sibling Clustering in Physical Fitness. A Study in Calanga, A Rural Region of Mozambique**
J. Maia, S. Saranga, L. Nhantumbo, A. Prista, G. Beunen, J. Rocha, A. Seabra, and S. Williams-Blangero
- P20 Oxygen Uptake Efficiency Slope (Oues) in Children: A Narrative Review**
H.J. Hulzebos, M. Akkerman, M van Brussel, P.J.M. Helders, and T Takken

P21 Insulin Sensitivity Predicts the Blood Pressure Response During Acute Exercise in Children and Adolescents: The European Youth Heart Study

N.C. Møller, A. Grøntved, N. Wedderkopp, M. Ried-Larsen, P.L. Kristensen, L.B. Andersen, and K. Froberg

P22 Differences Between Self-Reported vs Objectively Measured Weight and Height, among Azorean Adolescents.

R. Santos, L. Miranda, S. Vale, C. Moreira, P. Moreira, and J. Mota

P23 Comparison of Different VO_{2max} Equations in the Prediction of the Metabolic Syndrome in Portuguese Adolescents

C. Moreira, R. Santos, S. Vale, L. Miranda, and J. Mota

P24 The CEMHaVi Program: Control, Evaluation, and Modification Lifestyles in Obese Children.

J. Vanhelst, F. Marchand, P. Fardy, G. Zunquin, GA. Loeuille, H. Renaut, J. Mikulovic, R. Hurdiel, L. Béghin, and D. Theunynck

Poster presentations - Session #2

Thursday October 1st

12:45 a.m. – 2:00 p.m.

P25 Calibration of the Actiheart Accelerometer for the Prediction of Activity Energy Expenditure in Children with Chronic Disease

T. Takken, A. Balemans, S. Stephens, M. Hendricks, J. van der Net, M. Tremblay, D. Esliger, J. Schneiderman, A. Coates, B. McCrindle, P. Longmuir, V. Wright, D. Biggar, J. de Koning, B. Banwell, J. Beyene, A. Abad, P. Govan, D. Cooper, and B.M. Feldman

P26 Effect of the SocioEconomic Status on Preschool daily Life

S. Vale, R. Santos, L. Miranda, P. Silva, and J. Mota

P27 Relevance of Social-Support and Enjoyment in the Amount of Physical Activity of Portuguese Students

P. Silva, R. Lott, K. Wickrama, R.Santos, J. Mota, and G. Welk

P28 Body Composition and Nutrition in Active and Non-active Pre-school Children

M. Szmodis, G. Jekkel, A. Farkas

P29 Anaerobic and Aerobic Abilities of Children Between the Ages of 7 and 15 Years from a Rural Area, in the Light of Research from the Years 1986, 1996 and 2006

J. Janowski, R. Strzelczyk, J. Konarski, and K. Karpowicz

P30 Walking Levels of Portuguese Youngsters. A Multilevel Analysis

S. Pereira, A. Seabra, A.F. Seabra, R. Silva, and J. Maia

P31 Does Maturation Timing Compromise Bone Mineral Content in Adulthood?

S. A. Jackowski, R.L. Mirwald, R.A., R.A. Faulkner, D.A. Bailey, and A.D.G. Baxter-Jones

P32 Profiling Physical Fitness of Children and Adolescents as a Function of Sports Participation

S. Silva, J. Maia, and G. Beunen

P33 Perceptions of Physical Activity and Parental Role Modelling in Muslim Families- A Qualitative Approach

M. Minou, G. Stratton, and R. Murphy

P34 Characterization of Short Running Intermittent Exercises at Maximal and Supramaximal Velocities and Continuous Running Exercises at Moderate Velocities in Children

Georges Baquet, François-Xavier Gamelin, Aurélie Blaes, Benoît Borel, Delphine Thévenet, Emmanuel Van Praagh, Serge Berthoin

P35 Positively Impacting Children's Physical Self-Perceptions - but how? Results from the A-CLASS Project: A Group-Randomised Trial in Primary School children

L. Foweather, N. McWhannell, N.D. Ridgers, L.E.F. Graves, J. Henaghan, J. Hepples and G. Stratton

P36 Comparing Physical Activity Levels between Multi-Skills Games and Exergaming in an After-School Club

L.E.F. Graves, K.H. Eccles, R.A. Yarwood, N.D. Ridgers, and G. Stratton

P37 Validation of Accelerometry as a Measure of Physical Activity Energy Expenditure in Children with Chronic Disease

S. Stephens, T. Takken, M. Tremblay, D. Esliger, J.E. Schneiderman, D. Biggar, B. Banwell, P. Longmuir, V. Wright, B. McCrindle, A. Coates, M. Hendricks, J. Beyene, A. Abad, P. Govan, D. Ignas, A. Balemans, D. Cooper, J. van der Net, and B.M. Feldman.

P38 Contribution of Anaerobic Tests to Distinguish Late Adolescent Basketball Players by Competitive Level

M.J. Coelho e Silva¹, I. Rêgo¹, H. Moreira Carvalho¹, C.E. Gonçalves¹, A.J. Figueiredo¹, K.A. Lemmink², R. Philippaerts³, and R.M. Malina⁴

P39 Skeletal Maturation and Body Size of 14-15 Years-Old Portuguese Male Basketball Players

H.M. Carvalho, A.F. Figueiredo, A. Fonte, R.S. Santos, R.M. Malina, R. Philippaerts, and M.J. Coelho e Silva

P40 Endurance Performance and HRV Data of Young Swimmers

J. Faludi, E. Csajáji, M. Petrekanits, and M. Zsidegh

Poster presentations - Session #3

Friday October 2nd

12:30 a.m. – 2:00 p.m.

P41 Bone Responses to a Ten-Month Season of Soccer Training in Adolescent Girls: Effect of Menstrual Status

B. Ferry, M. Gerbaix, M. Duclos, C. Jaffré, J.C. Souberbielle, C. Carling, F. Le Gall, and D. Courteix

P42 Physical Development and Prevalence of Obesity of Latvian Children in the 20th and at the Beginning of the 21st Century

H. Karklina, D. Krumina, G. Knipse, I. Kokare, J. Valeinis, and R. Latvia

P43 Comparing Several Regression Equations That Predict VO_{2peak} Using the 20-m MSRT in Lisbon Elementary School Children

P.X. Castanheira, H. Santa-Clara, P.M. Bruno, J.P. Almeida, E. Carnero, L.B. Sardinha, and B. Fernhall

P44 Effects of a Physical Activity Intervention Study in Obese/Overweight Children Adipose Tissue

V.P. Lopes, C.M.S. Vasques, D.C. Gomes, and T.I. Correia

P45 The Copenhagen School Child Intervention Study (CoSCIS). Effect on Physical Activity, Physical Fitness and Motor Performance

A. Bugge, B. Hermansen, K. Froberg, and L.B. Andersen

P46 Correlations of Motor Skills and Measurement of Fitness and Fatness. The Copenhagen School Child Intervention Study

B. El-Naaman Hermansen, A. Bugge, K. Froberg, and L.B. Andersen

P47 Investigating Multidimensional Correlates of Adolescents' Health-Related Exercise Knowledge and Understanding

T. A. Hilland, S. J. Fairclough, N. D. Ridgers, and G. Stratton

P48 Changes in Spontaneous Food Intake Following a 6-month Training Program in Children Accompanied or not by a Calcium Supplementation

D. Ianc, B. Ferry, I. Hantiu, and D. Courteix

P49 Introducing the Canadian Assessment of Physical Literacy

M.S. Tremblay, and M. Lloyd

P50 Age, Sex and Body Mass Index Differences in Health-Related Physical Fitness in Portuguese Children. Preliminary Results from the Maia County Study

M. Roriz, A. Santos, M. Trigueiro, D. Santos, A. Seabra, R. Garganta, and J. Maia

P51 Physical Activity Levels of Portuguese Children. An Analysis Based on Hierarchical Linear Modeling

D. Santos, R. Chaves, M. Sousa, S. Pereira, A. Seabra, R. Garganta, and J. Maia

P52 Assessment of Muscular Performance in Teenagers after a Lower Extremity Fracture.

D. Ceroni, X.E. Martin, V. De Rosa, G. De Coulon, C. Delhumeau, A. Kaelin, and N.J. Farpour-Lambert

P53 On the Determinants of an Active Lifestyle for The Adolescents of Madrid

C.A. Cordente Martinez, P. Garcia Soidan, M. Sillero Quintana, and J. Stirling

P54 Dose Related Association of Total Physical Activity and Health-Related Physical Fitness in Adolescent Boys

R. Gruodytė, V. Volbekienė, R. Rutkauskaitė, and A. Emeljanovas

P55 Implications of obesity on postural development in primary school children

M.J. Trigueiro, S. Souza, M. Roriz, A. Santos, A. Seabra, J. Maia, L. Massada, and R. Garganta

P56 Exercise Capacity in Pediatric Patients with Inflammatory Bowel Disease: A Pilot Study

H.E. Ploeger, T. Takken, S. Suri, B. Wilk, B. Issenman, and B.W. Timmons

P57 Effect of Combined Exercise and Dietary Intervention on Metabolic Risk Factors in Obese Adolescents

D. Thivel, R.M. Malina, L. Isacco, J. Aucouturier, M. Meyer, and P. Duché

P58 Effect of Age on the Energetic Cost of Walking in Obese Females

L. Isacco, D. Thivel, N. Peyrot, J. Aucouturier, M. Taillardat, A. Belli, and P. Duché

P59 Determining Calcaneal Broadband Ultrasound Attenuation in Elite Youth Soccer Players

S. Atkins, and C. Hesketh

P60 Hip Geometry in Prepubertal Active Girls under Calcium Supplementation: a One Year of Follow-Up Study

C. Jaffré, C.L. Benhamou, E.L. Lespessailles, and D. Courteix

P61 The Effect of Anaerobic Exercise on Salivary Cortisol, Testosterone and Immunoglobulin (A) in Boys Aged 15- 16 years

J.S Baker, A. Leyshon, M.G. Hughes, B. Davies, M. Graham, and N.E. Thomas

P62 Lipoprotein(a) in healthy Welsh schoolchildren aged 12-13 years

N.E. Thomas, B. Davies, and J.S. Baker

P63 The Influence of Training and Exercise Mode on the Oxygen Uptake Kinetics of Prepubertal Girls

M.A. Winlove, A.M. Jones, and J.R. Welsman

P64 What Anthropometric Index is the Best Predictor for Clustered Metabolic Risk in Children?

G.K. Resaland, A. Mamen, S.A. Anderssen, L.B. Andersen

P65 Associations Between Physical Activity Level, Cardiorespiratory Fitness and Cardiovascular Diseases Risk factors among Obese Children and Their Mother

N.J. Farpour-Lambert, A. Maggio, X.E. Martin, Y. Aggoun, F. Mach, and M. Beghetti

