Program Wednesday, December 12, 2018

Keynote Lectures & Oral Presentations are in the ‘Blauwe Zaal’ (Blue Room) in the UMCG.
Breaks and exhibitions are in the ‘Fonteinpatio’ in the UMCG.
Poster Boards are in the ‘Engelse Patio’ of the UMCG.
Registration Desk and Speakers Upload Desk are situated next to the Fonteinpatio.
Abstracts via http://www.rehabmove.nl

08.00 Registration with coffee & tea
Speakers Upload Desk Open

09.00 Opening
Dr. Riemer Vegter, Congress Chair
Prof. M. Joëls, Dean of the University Medical Center Groningen

Theme: Man-Machine Interfacing
Chair: Dr. Raoul Bongers
09.15 Keynote Lecture ‘Man-machine interfacing for the control of upper limb prostheses’
Prof. Dario Farina

Session 1: Powered assistive technology
Chairs: Dr. Casper van Koppenhagen & Dr. Helco van Keeken
10.00 Oral presentations (3)

A-1: MYOELECTRIC ASSISTIVE DEVICES: DOES EMG PATTERN DISTINCTNESS REFLECT CONTROL ABILITY
AW Franzke, MB Kristoffersen, CK Van der Sluis, RM Bongers, A Murgia
University of Groningen, GRONINGEN, Netherlands

A-2: CAN LOW-COST MOTION CAPTURE SYSTEMS BE USED TO MEASURE ACCURATELY JOINT REACTION IN POWERED-EXOSKELETON USERS?
ML Lancini, FA Fornaser, PS Pasinetti
¹University of Brescia, BRESCIA, Italy; ²University of Trento, TRENTO, Italy

A-3: A FRAMEWORK OF EXOSKELETON-SKILL-TESTS IN PATIENTS WITH COMPLETE SPINAL CORD INJURY
R.B. van Dijsseldonk, I.J.W. van Nes, H. Rijken, H. van de Meent, N.L.W. Keijser
¹Sint Maartensklinik, NIJMEGEN, Netherlands

10.45 Coffee break & Exhibition & Posters
### Session 2: Daily Mobility Optimization

**Chairs:** Prof. DirkJan Veeger & Dr. Rienk Dekker

11.15 Oral presentations (4)

<table>
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<th>A-4: OPTIMIZING MANUAL WHEELCHAIR SETTINGS USING NUMERICAL SIMULATION TO IMPROVE MOBILITY IN VARIOUS DAILY-LIFE ACTIVITIES</th>
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<tbody>
<tr>
<td>S. Hybois¹, J. Bascou¹, F. Lavaste³, H. Pillet³, C. Sauret³</td>
</tr>
<tr>
<td>¹Institut de Biomécanique Humaine Georges, Arts et Métiers ParisTech, PARIS, France; ³Centre d'Etudes et de Recherche sur l'Appareillage des Handicapés, CRÉTEIL, France</td>
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<th>A-5: FACTORS ASSOCIATED WITH TRANSFER INDEPENDENCE IN MEN WITH PARAPLEGIA</th>
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<tbody>
<tr>
<td>R.E. Cowan¹, A.A. Guccione², R.E. Keyser², D. Murray², C.S. Fitzmaurice³, A. Rounds³, I. Ljungberg³, S. Groah³</td>
</tr>
<tr>
<td>¹University of Miami Miller School of Medicine, MIAMI, FL, United States of America; ²George Mason University, FAIRFAX, VA, United States of America; ³MedStar Health Research Institute, HYATTSVILLE, MD, United States of America</td>
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<tr>
<th>A-6: WHEELCHAIR USERS’ SUPRASPINATUS TENDONS CHANGE WITH LOADING: RELATIONSHIP WITH THE SUBACROMIAL SPACE AND SUBJECT CHARACTERISTICS</th>
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</thead>
<tbody>
<tr>
<td>FM Bossuyt¹, U Arnet¹, A Cools², ML Boninger³</td>
</tr>
<tr>
<td>¹Swiss Paraplegic Research and University of Luzern, NOTTWIL, Switzerland; ²University of Ghent and University of Copenhagen, GHENT, Belgium; ³Department of Veterans Affairs and University of Pittsburgh, PITTSBURGH, United States of America</td>
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<th>A-7: THE ROLL-OVER SHAPE WHILE WALKING WITH AND WITHOUT ANKLE-FOOT ORTHOSES IN CHILDREN WITH CEREBRAL PALSY</th>
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<tbody>
<tr>
<td>YL Kerkum¹, H Houdijk², MA Brehm³, AI Buizer⁴, J Harlaar⁵</td>
</tr>
<tr>
<td>¹OIM Orthopedie, ASSEN, Netherlands; ²Amsterdam Movement Sciences- VU University, Human Movement Science, AMSTERDAM, Netherlands; ³Amsterdam Movement Sciences- Academic Medical Center, dept. Rehabilitation, AMSTERDAM, Netherlands; ⁴Amsterdam Movement Sciences- VU University medical center, dept Rehab. medicine, AMSTERDAM, Netherlands; ⁵Delft University of Technology, Department of Biomechanical Engineering, DELFT, Netherlands</td>
</tr>
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12.15 Lunch break & Exhibition & Posters

**Theme: Motor learning**

**Chair:** Dr. Helco van Keeken

13.30 Keynote Lecture ‘Motor learning in neurological rehabilitation’

**Prof. Mindy Levin**

### Session 3: Biomechanics & Motor Control

**Chairs:** Dr. Han Houdijk & Dr. Aline Vrieling

14.15 Oral presentations (5)

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<tr>
<th>A-8: BIOMECHANICAL EFFECTS OF TWO DIFFERENT CHOPART PROSTHESES DURING LEVEL GROUND WALKING</th>
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<tr>
<td>TK Kaib¹, JB Block², DH Heitzmann², AM Alimusaj³, SW Wolf³</td>
</tr>
<tr>
<td>¹HEIDELBERG, Germany; ²University Hospital, HEIDELBERG, Germany</td>
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<tr>
<th>A-9: WALKING ADAPTABILITY TRAINING IN PEOPLE AFTER STROKE: A RANDOMIZED CONTROLLED TRIAL</th>
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<tbody>
<tr>
<td>CTimmermans¹, M Roerdink¹, CGM Meskers¹, PJ Beek¹, TWJ Janssen¹</td>
</tr>
<tr>
<td>¹Vrije Universiteit Amsterdam, AMSTERDAM, Nederland</td>
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<tr>
<th>A-10: MOTOR LEARNING OUTCOMES OF WHEELCHAIR PROPULSION DURING SPINAL CORD INJURY REHABILITATION AND IN EXPERIENCED USERS</th>
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<tr>
<td>M.T. Leving¹, S. De Groot¹, R.J.K. Vegter¹, F.A.B. Woldring², M. Tepper², L.H.V. Van der Woude¹</td>
</tr>
<tr>
<td>¹GRONINGEN, Netherlands; ²University Medical Center Goningen, GRONINGEN, Netherlands</td>
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### A-11: Are Individuals with Unilateral Transtibial Amputation Able to Adapt to an Acute Prosthetic Intervention?
AR De Asha¹, RJ Foster², T Skervin³, CT Barnett³
¹C-Motion Inc., GERMANTOWN, United States of America; ²Liverpool John Moores University, LIVERPOOL, United Kingdom; ³Nottingham Trent University, NOTTINGHAM, United Kingdom

### A-12: Propulsion Biomechanics During Wheelchair Turning Manoeuvres in Young Able-Bodied Men and Women
D. Chaikhot¹, M.J.D. Taylor², F.J. Hettinga³
¹University of Essex, School of Sports, Colchester, United Kingdom; ²University of Essex - School of Sports, Colchester, United Kingdom; ³University of Essex, School of Sport, Rehabilitation and Exercise Sciences, COLCHESTER, United Kingdom

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**Session 4: Motor Skill Acquisition**

**Chairs: Dr. Astrid Balemans & Dr. Marina Schoemaker**

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<tr>
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<tr>
<td>16.00</td>
<td>Oral presentations (4)</td>
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### A-13: The Effectiveness of Video Game-Based Balance Training in Children with Cerebral Palsy
P. Meyns¹, C. Bras¹, J. Harlaar¹, L. Van de Poel¹, F. Barkhof¹, A.J. Buizer²
¹Hasselt University, DIEPENBEEK, Belgium; ²VU University Medical Center, AMSTERDAM, Nederland

### A-14: Handrail Holding on a Split-Belt Treadmill Reduces Locomotor Learning
TJW Buurke, CJC Lamoth, D Vervoort, LHV van der Woude, AR den Otter
University of Groningen, University Medical Center Groningen, GRONINGEN, Nederland

### A-15: Training Movements for Distinct Electromyogram Patterns Using Serious Gaming
MB Kristoffersen¹, AW Franzke¹, A Murgia², RM Bongers², CK van der Sluis³
¹University of Groningen, UMCG, Department of Rehabilitation Medicine, GRONINGEN, Netherlands; ²University of Groningen, UMCG, Center for Human Movement Sciences, GRONINGEN, Netherlands

### A-16: Intensive Wheeled Mobility Workshops for Physiotherapists and Occupational Therapists - A Lesson to Be Learned
Osnat Fliess Douer¹, Amos Pollack², Dalit Romem³, Elisheva Daube³
¹Sylvan Adams Sport Institute at Tel Aviv University, TEL AVIV, Israel; ²The Academic College at Wingate Institute, NETANYA, Israel; ³Rehabilitation and Mobility Unit, Ministry of Health, Israel Government, TEL AVIV, Israel

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17.00 Welcome Reception with refreshments and snacks

*The Drinks are offered to you by the University of Groningen, the Municipality of Groningen and the Province of Groningen*

**Theme: Data & Society**

**Chair: Prof. Thomas Janssen**

**Keynote Lecture is sponsored by the city of Groningen**

18.00 **Keynote Lecture ‘The future of rehabilitation: digital infrastructure empowers networks of patients and professionals’**
Dr. Bert Mulder

18.45 Ability Battle Hackathon

19.30 – 21.30 Buffet and awards Ability Battle Hackathon

*Restaurant of the University Medical Center Groningen*
Program Thursday, December 13, 2018

Exercise

08.00  Registration with coffee & tea
       Upload Desk Open

Theme: Adapted Physical Activity
Chair: Dr. Sonja de Groot

08.30  Keynote Lecture ‘From Guidelines to Practice: The Development and Implementation of Disability-Specific Exercise Guidelines in Rehabilitation and Community Settings’
       Prof. Kathleen Martin Ginis

Session 5: Adapted Physical Activity
Chairs: Dr. Karin Gerrits & Dr. Noor Mouton

09.15  Oral presentations (4)

B-17: RE-AIM ANALYSIS OF A CANADIAN PEER MENTORING PROGRAM THAT PROMOTES PHYSICAL ACTIVITY
       RB Shaw¹, SN Sweet², KR Todd², WK Adair², CB McBride³, HL Flaro³, KA Martin-Ginis³
       ¹The University of British Columbia, KELOWNA, Canada; ²McGill University, MONTREAL, Canada
       ³SCI Canada, TORONTO, Canada;

B-18: INTERRATER AND INTRARATER RELIABILITY OF VENTILATORY THRESHOLDS DETERMINED IN PEOPLE WITH SPINAL CORD INJURY
       I Kouwijzer¹, R.E. Cowan², J.L. Maher², F. Groot³, F. Riedstra³, L.J.M. Valent³, L.H.V. Van der Woude³, S. De Groot³
       ¹Heliomare Rehabilitation Center, WJK AAN ZEE, Netherlands; ²University of Miami, MIAMI, United States of America;
       ³Sport-en Beweegkliniek, HAARLEM, Nederland;

B-19: CARDIOVASCULAR RISK FACTORS AND LEISURE TIME PHYSICAL ACTIVITY AMONG OLDER ADULTS WITH SPINAL CORD INJURY
       S.J. Jörgensen¹, LS Magnusson¹, SS Svedevall¹, KMG Martin Ginis⁵, J.L. Lexell³
       ¹Lund University, Skåne University Hospital, LUND, Sweden; ²School of Health and Exercise Sciences, University of British Columbia, KELOWNA, Canada; ³Lund University, Skåne University Hospital/Uppsala University, LUND, Sweden;

B-20: ADAPTED PHYSICAL ACTIVITY AND FUNCTIONAL CAPACITY OF ADULTS WITH INTELLECTUAL DISABILITY OVER 40 YEARS-OLD
       SS Santos, JR Ramos, ME Estevens, ES Sousa, FG Gomes
       CRUZ QUEBRADA, Portugal

10.15  Coffee break & Exhibition & Posters

Session 6: ADL Implementation Guidelines
Chairs: Dr. Janneke Stolwijk & Dr. Monique Berger

10.45  Oral presentations (4)

B-21: PHYSICAL ACTIVITY AMONG PEOPLE WITH SPINAL CORD INJURY: A COMPARISON BETWEEN THE NETHERLANDS AND CANADA
       F. Hoekstra¹, S. de Groot², J. Bruin³, L.H.V. van der Woude⁴, T. Hoekstra⁴, M.W.M. Post⁵, K.A. Martin Ginis⁵
       ¹University of British Columbia, KELOWNA, Canada; ²Amsterdam Rehabilitation Research Centre, Reade, AMSTERDAM, Netherlands;
       ³Vrije Universiteit Amsterdam, AMSTERDAM, Netherlands; ⁴University of Groningen, University Medical Center Groningen, GRONINGEN, Netherlands; ⁵UMCG/Rug/Kenniscentrum Revalidatiegeneeskunde Utrecht, GRONINGEN, Netherlands
### Poster session 1

11.45  Poster session

**Abstracts with even code numbers (P2, P4, etc.)**

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<td>P22</td>
<td>A PARTICIPANT-LED PHYSICAL ACTIVITY PROGRAMME FOR DISABLED PEOPLE WHO ARE READY TO BECOME PHYSICALLY ACTIVE</td>
<td>E.A. Jaarsma, B. Smith</td>
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<td>P23</td>
<td>DEVELOPMENT AND VALIDATION OF PHYSICAL ACTIVITY PRACTICE GUIDES FOR AMPUTEES</td>
<td>MPL Pacheco Lopes, LMP Moniz-Pereira</td>
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<td>P24</td>
<td>LONGITUDINAL ASSOCIATIONS BETWEEN ACTIVITY PACING, FATIGUE, AND PHYSICAL ACTIVITY IN ADULTS WITH MULTIPLE SCLEROSIS</td>
<td>US Abonie, S Bregie, F Hoekstra, T Hoekstra, CP Van der Schans, R Dekker, LHV Van der Woude, FJ Hettinga</td>
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#### Theme: Exercise Physiology

**Chair: Dr. Han Houdijk**

13.45  Keynote Lecture ‘The Changing Landscape of Cardiac Rehabilitation; from early mobilization and reduced mortality to chronic multi-morbidity management’

Prof. John Buckley

#### Session 7: Clinical Exercise Physiology

**Chairs: Dr. Nicole Voet & Dr. Noël Keijser**

14.30  Oral presentations (4)

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<td>P26</td>
<td>PEAK OXYGEN UPTAKE IN DIFFERENT UPPER-BODY EXERCISE MODES - A META-ANALYSIS</td>
<td>JK Baumgart, B Brurok, Ø Sandbakk</td>
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<td>P27</td>
<td>DIFFERENCES IN EXERCISE EFFECTS FROM STATIC VERSUS DYNAMIC STANDING IN NON-AMBULATORY CHILDREN WITH CEREBRAL PALSY</td>
<td>ÅB Tornberg, V Hansson, A Jakobsson, K Lauruschuk</td>
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<td>P28</td>
<td>EFFECT OF RESPIRATORY MUSCLE TRAINING ON EXERCISE CAPACITY AND RESPIRATORY MECHANICS IN ATHLETES WITH TETRAPLEGIA</td>
<td>C.B. West, C.M. Gee, A.M. Williams, A.W. Sheel, N.D. Eves</td>
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15.30  Tea break & Exhibition & Posters
Session 8: Measurement during daily life

Chair: Dr. Rita van den Berg & Dr. Rienk van der Slikke

16.00 Oral presentations (5)

B-29: ACTIVITY AND MOBILITY USING TECHNOLOGY (AMOUNT) REHABILITATION TRIAL- DESCRIPTION OF COMMUNITY PHASE INTERVENTION

LM Hassett1, MEL Van den Berg2, H Weber3, S Chagpar3, S Wong4, A Rabie5, K Schurr5, MA McCluskey6, R Lindley6, M Crotty2, C Sherrington7

1School of Public Health/Faculty of Health Sciences, University of Sydney, SYDNEY, Australia; 2Department of Rehabilitation, Aged and Extended Care, Flinders University, ADELAIDE, Australia; 3School of Public Health, University of Sydney, SYDNEY, Australia; 4South Western Sydney Local Health District, SYDNEY, Australia; 5Faculty of Health Sciences, University of Sydney, SYDNEY, Australia; 6Westmead Clinical School, University of Sydney, SYDNEY, Australia

B-30: RECOVERY OF EXERCISE CAPACITY IN PEDIATRIC BURN PATIENTS: A PRELIMINARY INVESTIGATION


1Association of Dutch Burn Centres, GRONINGEN, Netherlands; 2Center for Human Movement Sciences, University of Groningen, UMCG, GRONINGEN, Netherlands; 3Amsterdam Rehabilitation Research Center | Reade, AMSTERDAM, Netherlands; 4Martini Academy, Martini Hospital, GRONINGEN, Netherlands; 5Association of Dutch Burn Centres, Burn Centre Martini Hospital, GRONINGEN, Netherlands; 6Association of Dutch Burn Centres, Burn Centre Maasstad Hospital, ROTTERDAM, Netherlands; 7Association of Dutch Burn Centres, Burn Centre Red Cross Hospital, BEVERWIJK, Netherlands

B-31: ECOLOGICAL MOMENTARY ASSESSMENT OF EXERCISE AND NEUROPATHIC PAIN EXPERIENCED BY MEN WITH SCI: PARTICIPANT PERCEPTIONS

K.R. Todd, R.B. Shaw, K.A. Martin Ginis

University of British Columbia, KELOWNA, Canada

B-32: ARE AMBULATORY PEOPLE WITH SPINAL CORD INJURY ‘AT RISK’ FOR INACTIVITY AFTER REHABILITATION?

K Postma1, H.J.G. van den Berg-Emons2, J.B.J Bussmann3, T. van Diemen3, M.W.M. Post4

1Erasmus MC, ROTTERDAM, Nederland; 2Erasmus MC, University Medical Center Rotterdam, ROTTERDAM, Nederland; 3ErasmusMC, ROTTERDAM, Netherlands; 4Sint Maartenskliniek/De Hoogstraat/UMCG, Nederland

B-33: HIGH-INTENSITY INTERVAL TRAINING IN YOUTH WITH PHYSICAL DISABILITIES

M. Zwinkels1, T Takken2, J.M.A. Visser-Meily3, O Verschuren4

1UMC Utrecht and De Hoogstraat Rehabilitation, UTRECHT, Nederland; 2Child Development and Exercise Center, UMC Utrecht, UTRECHT, Nederland; 3Department of Rehabilitation, Physical Therapy Science & Sports, UMC Utrecht, UTRECHT, Nederland; 4Center of Excellence for Rehabilitation Medicine, UMC Utrecht and De Hoogstraat, UTRECHT, Nederland

17.15 Break with refreshments

Theme: Big data / Machine Learning

Chair: Dr. Riemer Vegter

Keynote Lecture is sponsored by Össur

18.00 Keynote Lecture ‘Big data, big buzzwords, and big challenges’

Prof. Andreas Daffertshofer

18.45 Closing

Walk to the Academy Building

19.00 Buffet at the Academy Building (University of Groningen)

22.00 - Pub Tour
Program Friday, December 14, 2018

**Sports**

08.00  
Registration with coffee & tea  
Upload Desk Open

**Theme: Paralympic research future**

Chair: Dr. Rienk Dekker  
Keynote Lecture is sponsored by Lode

08.30  
Keynote Lecture ‘Paralympic Research: Past, Present, Future’  
Prof. Walter Thompson

Session 9: Technological performance enhancement

Chairs: Prof. Coen van Bennekom & Dr. Monique Berger

09.15  
Oral presentations (4)

| Session 9: Technological performance enhancement |  
| --- | --- |
| C-34: KINEMATICS, KINETICS AND MUSCULAR ACTIVITY OF 15-S ALL-OUT HANDCYCLING EXERCISE IN ABLE-BODIED PARTICIPANTS |  
O.J. Quittmann, T. Abel, K. Albracht, H.-K. Strüder  
1German Sport University Cologne, COLOGNE, Germany  
2FH Aachen University of Applied Sciences, AACHEN, Germany

| Session 9: Technological performance enhancement |  
| --- | --- |
| C-35: ANALYSIS OF GROUND REACTION FORCES BY FOREARM CRUTCHES DURING INSTEP KICK IN AMPUTEE FOOTBALL |  
T.K Kobayashi, Y.U Urabe, H.F. Fujishita, J.S Sasada, N.M Maeda  
1Hiroshima University, HIROSHIMA, Japan  
2Hiroshima University Hospital, HIROSHIMA, Japan

| Session 9: Technological performance enhancement |  
| --- | --- |
| C-36: HOW DO WHEELCHAIR COURT SPORTS COMPARE REGARDING WHEELCHAIR MOBILITY PERFORMANCE? |  
R.M.A. van der Slikke, M.A.M. Berger, D.J.J. Bregman, H. E.J. Veeger  
1The Hague University of Applied Sciences, DEN HAAG, Netherlands  
2Delft University of Technology, DELFT, Nederland

| Session 9: Technological performance enhancement |  
| --- | --- |
| C-37: THE NEED FOR PARA-CYCLING CLASSIFICATION RESEARCH |  
C.F.J. Nooijen, J. Liljedahl, A. Bjerkefors, T. Arndt  
Swedish School of Sport and Health Sciences (GIH), STOCKHOLM, Sweden

10.15  
Coffee break & Exhibition & Posters

Session 10: Physical performance enhancement

Chairs: Dr. Sonja de Groot & Prof. Dirkjan Veeger

10.45  
Oral presentations (4)

| Session 10: Physical performance enhancement |  
| --- | --- |
| C-38: PERIOD PREVALENCE AND POINT PREVALENCE OF SPORTS-RELATED INJURIES AND ILLNESSES IN SWEDISH PARALYMPIC ATHLETES |  
KF Fagher, OD Dahlström, JJ Jacobsson, TT Timpka, JL Lexell  
1Rehabilitation Medicine Research Group, Lund University, LUND, Sweden  
2Athletics Research Center, Linköping University, LINKÖPING, Sweden

| Session 10: Physical performance enhancement |  
| --- | --- |
| C-39: EFFECT OF RESPIRATORY MUSCLE TRAINING ON PULMONARY AND CARDIOVASCULAR FUNCTION IN ATHLETES WITH TETRAPLEGIA |  
CM Gee, AM Williams, AW Sheel, ND Eves, CR West  
VANCOUVER, Canada

| Session 10: Physical performance enhancement |  
| --- | --- |
| C-40: ONABOTULINUMTOXIN A INJECTION FOR NEUROGENIC DETRUSOR OVERACTIVITY AND UPPER BODY EXERCISE PERFORMANCE IN WHEELCHAIR ATHLETES |  
C Perret, J Pannek  
Swiss Paraplegic Centre, NOTTWIL, Switzerland
**Poster session 2**
11.45 Poster session

**Abstracts with odd code numbers (P1, P3, etc.)**

- **C-41:** THE INFLAMMATORY RESPONSE TO EXERCISE IN SPINAL CORD INJURED INDIVIDUALS - THE INFLUENCE OF AUTONOMIC FUNCTION
  SP Hoekstra, CA Leicht, YI Kamijo, T Kinoshita, BT Stephenson, VL Goosey-Tolffrey, NC Bishop, F Tajima
  *Loughborough University, LOUGHBOROUGH, United Kingdom\*  
  *Wakayama Medical University, WAKAYAMA, Japan*  

- **C-42:** UNDERSTANDING THE TRANSITION INTO ELITE DISABILITY SPORT
  A Papathomas, T Paulson
  *Loughborough University, LOUGHBOROUGH, United Kingdom*  
  *English Institute of Sport, MANCHESTER, United Kingdom*  

- **C-43:** SCAPULA CLUSTER AND MULTYBODY OPTIMIZATION FOR SCAPULAR TRACKING DURING WHEELCHAIR OVERHEAD SPORTS
  *ENSAM, PARIS, France*  
  *Institut de Biomécanique Humaine Georges Charpak, PARIS, France*  
  *CERAH, CRÉTEIL, France*  

- **C-44:** OXYGEN SATURATION PROFILE OF PARTICIPANTS OF THE 2017 BRAZILIAN SCHOLARSHIP PARALYMPIC GAMES
  JIG Gorla, JFF Fernandes Filho, AACS Costa e Silva, JRB Buratti, NC Souza, DRC Callegari, CDN Nogueira, IBV Vieira, AC Cliquet Junior
  *University of Campinas, CAMPINAS, Brazil*  
  *Federal University of Rio de Janeiro, RIO DE JANEIRO, Brazil*  
  *Federal University of Pará, BELEM, Brazil*  
  *State University of Maringá, MARINGÁ, Brazil*  
  *Universidade Castelo Branco, RIO JANEIRO, Brazil*  
  *San Antonio University of Murcia, MURCIA, Spain*  
  *Faculty of Medical Sciences - University of Campinas, CAMPINAS, Brazil*  

- **C-45:** SPORTS PARTICIPATION, PHYSICAL ACTIVITY AND HEALTH-RELATED FITNESS IN YOUTH WITH CHRONIC DISEASES OR PHYSICAL DISABILITIES
  *University of Applied Sciences Utrecht, Utrecht, NEDERLAND*  
  *Wilhelmina Children's Hospital, UTRECHT, NEDERLAND*  
  *University Medical Center Utrecht, UTRECHT, NEDERLAND*  

12.30 Lunch break & Exhibition & Posters

**Theme: Active Living / Recreational sports**

*Chair: Dr. Noor Mouton*  

13.45 Keynote Lecture ‘Promoting active living for disabled adults: Some modest suggestions’
  Prof. Brett Smith

**Session 11: Recreational Sports**

*Chairs: Dr. Marina Schoemaker & Dr. Noel Keijsers*

14.30 Oral presentations (4)

15.30 Tea break & Exhibition & Posters

**Theme: Athlete’s perspective**

*Chair: Prof. Thomas Janssen*  

16.00 Keynote Lecture ‘Athlete’s perspective’
  Esther Vergeer

16.45 Closing session
  Dr. Riemer Vegter