Welcome to PREMUS 2010

Welcome to the Seventh International Scientific Conference on Prevention of Work-Related Musculoskeletal Disorders PREMUS 2010! After six successful PREMUS conferences since 1992, it is our pleasure to welcome you to the first PREMUS conference to be held in France.

Over the four days of the conference, PREMUS aims to:

- bring together scientists, students, practitioners in occupational health and safety, ergonomists, industrial engineers and policymakers, with the express intent of promoting cross-disciplinary, trans-disciplinary, and translational research into the etiology and prevention of work-related MSDs;
- provide an international platform for the exchange of knowledge and expertise in musculoskeletal research and intervention practice related to prevention of work-related MSDs, with special attention to the recently industrialized countries and developing countries; and
- further research into and dissemination of state-of-the-art interventions aimed at the prevention of musculoskeletal disorders at work in all its aspects.

PREMUS 2010 is one of the largest meetings to date, with more than 500 attendees. For the first time, PREMUS is combining with WDPI 2010, the joint meeting organized by the Work Disability Prevention and Integration scientific committee, to enhance the relationships between researchers and practitioners working in the fields of work-related MSD, prevention of work disability and the return to work process.

PREMUS 2010 has over 370 presenters from 37 countries and five continents providing the foundation for an exciting conference. The program includes seven keynote discussions of state-of-the-art issues in work-related musculoskeletal research and intervention, and 22 symposium sessions organized by participating researchers and practitioners. There are 25 other parallel sessions with podium presentations and poster sessions each day. Several abstracts have been submitted by new researchers and students, and this demonstrates the vitality of the research on work-related musculoskeletal disorders around the world.

The Scandinavian Journal of Work and Environmental Medicine is sponsoring a competition for the best paper to be presented at PREMUS 2010. In addition, an election will be organized to select the best poster presentation at the end of the conference. Over the next few days we invite you to participate in as many sessions as you can, especially poster session discussions. The poster sessions provide a unique opportunity for researchers to exchange ideas and cover topics without the time constraints of the podium presentations.

We are happy to host the conference here in the city of Angers, a World Heritage Site recognized by UNESCO and well known for its quality of life. In addition to the Premus evening wine tour, we have organized several visits and events in the historic town.

If you have any questions, please do not hesitate to ask us or stop by the information desk. Once again, welcome to PREMUS 2010 and we look forward to your participation.

For the Premus 2010 Organizing Committee
Yves Roquelaure
Catherine Ha
Natacha Fouquet
Isabelle Richard

For the PREMUS 2010 Scientific Committee
Annette Leclerc
Bradley Evanoff
Alexis d’Escatha
Anna Ozguler
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The University of Angers is in the heart of the historic Loire Valley in western France. It has three campuses in Angers (Belle-Beille, St Serge, and Santé), and branches in the nearby towns of Cholet and Saumur. Of its 17,781 students, 11% (1956) are international students. The University of Angers has 8 major faculties: the School of Law, the School of Economics and Management, in which the PREMUS 2010 conference is being held, the Faculty of Languages, Humanities and Social Sciences, the Faculty of Science, the School of Medicine, one of the oldest in France, created in 1433, the School of Pharmacy, ESTHUA (School of Tourism and Hospitality Management), ISTIA (School for Chartered Engineers in Sciences and Technology) and IUT (Institute of Technology: professionally-oriented courses and degrees). The University of Angers is internationally and nationally renowned for research in a wide range of fields, from pure science and technology to the social sciences and humanities. The University structures its research around three nationally accredited fields of excellence (health sciences, plant sciences and material sciences).

The Laboratory of Ergonomics and Epidemiology in Occupational Health, a research unit of the University of Angers associated with the French Institute for Public Health Surveillance, aims to study the work-related MSDs. Two main research programs using an interdisciplinary approach combining clinics, epidemiology, ergonomics, biomechanics and psychology have been developed:

- Epidemiology and surveillance of MSDs of the upper limb and back in the general and working population
- Conception and assessment of interventions for the prevention of MSDs including research on the rehabilitation and return to work strategies for workers suffering from chronic MSDs and research on the implementation and assessment of in-plant intervention programs for the prevention of MSDs and disability.

The French Institute for Public Health Surveillance (Institut de veille sanitaire, InVS), a public administrative body placed under the Ministry of Health, is responsible for surveillance and alert in all domains of public health. Created by Law 98-535 dated 1 July 1998, to reinforce health surveillance and the safety of products intended for human use, its mandate was enlarged by the Public Health Policy Act of 2004, in order to meet the challenges highlighted by recent emerging health threats. Its main missions are:

- Monitoring the health status of the population
  InVS contributes to the collection and analysis of population health data for epidemiological purposes. InVS contributes to the production of health indicators, in particular to assess the objectives of the Public Health Policy Act of 2004 and in several national public health plans (Cancer, Quality of Life, Health at work, HIV, rare diseases...).
- Health surveillance
  InVS coordinates surveillance networks in all areas of public health either in-house or operated by external partners. These networks gather and analyze health information data including health risk factors and social determinants. InVS is in charge of reviewing knowledge related to health risks and their determinants, of the analysis of trends and identification of vulnerable groups. InVS also coordinates large health surveys in all domains of surveillance (population surveys with health examination, sero-epidemiological surveys, surveys in vulnerable groups...).
- Health alert and support to decision making in the management of health crises
  InVS is in charge of the detection of health threats whatever their origin and nature. InVS has the duty to inform the Minister of Health as soon as possible of any threat to the health of the population (or any population group) and to issue recommendations regarding all appropriate measures or actions for containment, mitigation and prevention of its impact.
- Contribution to European and international networks in the area of surveillance and alert
  Since the ECDC (European Centre for Disease Control and Prevention) was created in 2004, InVS contributes to the implementation of the Centre’s activities in the area of threat detection, surveillance, scientific advice, training and communication. InVS is also involved in international networks under the umbrella of WHO-HQ or WHO regional offices.
The International Commission on Occupational Health (ICOH) is an international non-governmental professional society whose aims are to foster the scientific progress, knowledge and development of occupational health and safety in all its aspects. It was founded in 1906 in Milan as the Permanent Commission on Occupational Health.

Today, the ICOH is the world’s leading international scientific society in the field of occupational health, with a membership of about 2,000 professionals from almost 100 countries. The ICOH is recognized by the United Nations as a non-governmental organization (NGO) and has close working relationships with ILO, WHO, UNEP and ISSA. Its official languages are English and French.

The most visible activities of ICOH are the triennial World Congresses on Occupational Health, which are usually attended by some 3,000 participants, as in Milan in 2006 and Capetown in 2009. The 2012 Congress venue will be Monterey, Mexico.

ICOH has 33 Scientific Committees, most if which have regular symposia, produce scientific monographs, and review the abstracts submitted to the International Congresses. The Scientific Committees form the sponsoring committee of the triennial PREMUS conference.

**SUPPORTERS**

**ADDITIONAL FINANCIAL SUPPORT**

The organizing committee thanks the Scandinavian Journal of Work and Environmental Health for sponsoring the competition for the best paper to be presented at PREMUS 2010. We especially thank Antoine Devillé and Yves Delamarre for their gift to the conference organization.
COMMITTEES

LOCAL ORGANIZING COMMITTEE

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David Rempel, University of California, San Francisco, CA, USA
Lys Esther Rocha, School of Medicine, University of Sao Paulo, BRAZIL
Eira Viikari-Juntura, Finnish Institute of Occupational Health, Helsinki, FINLAND

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François Cail
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Clarisse Gaudez
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Nicole Vezina
Francesco Violante
Morten Waersted
David Wegman
Eva Wigaeux Tornqvist
Kim Young-ki
Marie Zins
GENERAL INFORMATION

The conference is being held at:
University of Economics and Law
Faculté de Droit, d'Economie et de Gestion
13 allée François Mitterrand
49000 ANGERS, France

Public transportation

Location / transportation
The university is located downtown, close to the railway station, the castle of Angers with its tapestries from the Middle Age, hotels and restaurants. Although Angers is served by efficient bus services, we plan to organize the PREMUS Congress, including the social program, so that all activities will be within easy walking distance.

Taxi services
Please call 10 minutes ahead.
Taxi Angevin  02 41 34 96 52
Parking
Visitors are strongly encouraged to walk or to use public transportation.
Des places sont souvent disponibles sur le parking François Mitterand, near the University (100m with feet).
Ce parking est payant.

Language
The official language during the conference is English. All plenary sessions and two parallel sessions are translated in French.

Registration/Information Desk
Registration/Information desk is located on the ground floor of the University of Law and Economics (see map p. XX).
The registration desk will be open from 8:00-18:30 on 30 August, 2010 for the entire conference.

Name badges
Upon registration you will receive a name badge and other conference information. The name badge will grant you access to the university for the duration of the program, as well as allow program staff and your fellow participants to identify you. Please wear it when entering the university and at all times while in the university campus. For reasons of safety, do not wear the badge outside the university campus.

Speakers
All speakers are responsible for loading their presentations onto the laptop in their assigner lecture room.
Presentations may be loaded in lecture rooms at the following times:
- 30 August, 2010 from 8:30-9:30 and from 13:30-14:00
- 31 August – 2 September, 2010 from 8:30-9:30 and from 13:30-14:00
- Presentations may also be loaded 30 minutes prior the start of a speaker’s parallel session.
  Please note: Only speakers involved in an upcoming parallel session will be allowed to load their presentations during this time.

There is a speaker ready room located on the ground floor of the University.
Ti is the speakers’ responsibility to check their presentations at the speaker ready room well in advance of their sessions. Presentations may not be reviewed in the lecture room.

Posters

Security

Weather
Social Events
LOCATION OF THE PREMUS CONFERENCE IN THE TOWN CENTER
Conference check-in and registration will take place in the main hall. 
Please note that the University Center floors are labelled in the European fashion:
- US first floor = European ground floor
- US second floor = European first floor, etc.
The second floor is not used during Premus conference.
THIRD FLOOR (3)

LAGON
Amphitheater
Parallel sessions

TAMARIS
Amphitheater
Parallel sessions

AMANDE
Amphitheater
Parallel sessions

Main Hall

309 Posters
310 Posters
311 Posters

Elevators
Stairs
Stairs
Stairs

Floor plans
### PROGRAM AT A GLANCE

#### Monday, 30 August 2010

<table>
<thead>
<tr>
<th>Time</th>
<th>BODIN (ground floor)</th>
<th>VOLNEY (ground floor)</th>
<th>LAGON (third floor)</th>
<th>TAMARIS (third floor)</th>
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<tbody>
<tr>
<td>8.00 - 8.45</td>
<td>Check-In and Registration</td>
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<tr>
<td>8.45 - 9.15</td>
<td>Opening Session, Official Welcome</td>
<td>Broadcast of the BODIN amphitheater</td>
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<tr>
<td>9.15 - 10.45</td>
<td>Morning plenary</td>
<td>Two keynotes: Vézina, Amick</td>
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<tr>
<td>10.45 - 11.15</td>
<td>Coffee/Tea Break</td>
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<tr>
<td>11.15 - 12.45</td>
<td>Epidemiology of the neck and upper limb (1)</td>
<td>Rationalization trends in working life: challenges and opportunities to create sustainable production systems (part I)</td>
<td>Dynamics of work-related musculoskeletal disorders (MSD’s): long-term trends and life course approach</td>
<td>Economic aspects</td>
<td>Exposure measurement methods (1)</td>
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<tr>
<td>12.45 - 14.15</td>
<td>Lunch</td>
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<tr>
<td>14.15 - 15.45</td>
<td>Surveillance and prevention policies</td>
<td>Rationalization trends in working life: challenges and opportunities to create sustainable production systems (part II)</td>
<td>Health and safety in the construction industry - Part 1</td>
<td>Prevention: education, training, lifestyle</td>
<td>Exposure measurement methods (2)</td>
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<tr>
<td>15.45 - 16.00</td>
<td>Coffee/Tea Break</td>
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<tr>
<td>16.00 - 16.45</td>
<td>Poster Session I</td>
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<tr>
<td>16.45 - 18.15</td>
<td>Health care sector (1)</td>
<td>Early prevention, work organization and participative approaches</td>
<td>Health and safety in the construction industry - Part 2</td>
<td>Computer work (1)</td>
<td>Oxygenation and hemodynamics for repetitive work and muscle pain</td>
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<tr>
<td>19.00</td>
<td>Aperitif at Jean Lurçat Museum</td>
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<tr>
<td>8.30 - 10.00</td>
<td>Morning plenary Two keynotes: Silverstein, Sjogaard</td>
<td>Broadcast of the BODIN amphitheater (Retransmission non traduite)</td>
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<tr>
<td>10.00 - 10.10</td>
<td>Supporters' speeches</td>
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<td>10.10 - 10.30</td>
<td>Coffee/Tea Break</td>
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<tr>
<td>10.30 - 12.00</td>
<td>Epidemiology of the neck and upper limb (2)</td>
<td>NIOSH Upper Extremity Musculoskeletal Disorder Consortium Studies</td>
<td>Pain and Movement VEIERSTED COTE MADELEINE VOLLENBROEK-HUTTEN HOLTERMANN</td>
<td>Prevention in various sectors TAKALA KAPELLUSCH IRVIN ROBERTSON LINDEGÅRD</td>
<td>Physical exposure STEVENSON PLAMONDON HANSSON MARSHALL YOON</td>
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<tr>
<td>12.00 - 13.30</td>
<td>Lunch</td>
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<tr>
<td>13.30 - 15.00</td>
<td>Health care sector (2)</td>
<td>Methods for Risk Analysis in Practice HERMANS DOUVES STEINBERG GRAY FERREIRA WATERS</td>
<td>Surveillance of work-related musculoskeletal disorders: How? By and for whom? How is it linked to prevention? STOCK SILVERSTEIN HA</td>
<td>Computer work (2) WAERSTED HUYSMANS VAN EERD SPEKLE BRUNO ASUNDI</td>
<td>Round table discussion part I. Classification of musculoskeletal disorders in occupational health practice and research SLUITER</td>
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<tr>
<td>15.00 - 15.15</td>
<td>Coffee/Tea Break</td>
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<tr>
<td>15.15 - 16.00</td>
<td>Poster Session II</td>
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<tr>
<td>16.00 - 17.30</td>
<td>Evaluation of interventions designed to prevent MSD: Theories and strategies</td>
<td>Work ability, physical fitness OBERG SOER KUJER PLAT KIM</td>
<td>Biomechanics FISCHER LEWIS TOMATIS VEIERSTED LIN HANVOLD</td>
<td>Musculoskeletal disorders in specific sectors BALOGH DOUPHRATE SANDFELD GARRABE WAHLSTRÖM MAJOR</td>
<td>Round table discussion part II. Classification of musculoskeletal disorders in occupational health practice and research SLUITER</td>
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<tr>
<td>17.30 - 19.30</td>
<td>Annual meeting ICOH PREMUS scientific committee</td>
<td>Workshop: How to read and write Cochrane Systematic Reviews? VERBEEK</td>
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<td>18.00 - 20.00</td>
<td>Angers Guided Tour (Optional, € 6)</td>
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### Program at a glance

**Wednesday, 1 September 2010**

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<tbody>
<tr>
<td>8.30 - 10.00</td>
<td>Morning plenary Two keynotes: Viikari-Juntura, Rempel</td>
<td>Broadcast of the BODIN amphitheater (Retransmission non traduite)</td>
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<td>10.00 - 10.10</td>
<td>Supporters’ speeches</td>
<td>Coffee/Tea Break</td>
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<td>10.10 - 10.30</td>
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<tr>
<td>10.30 - 12.00</td>
<td>Measuring effects of interventions</td>
<td>Low back pain: effect of work exposures, lifestyle and individual factors</td>
<td>Return to work / Tertiary prevention (1)</td>
<td>Musculoskeletal disorders at a population level</td>
<td>The worksite as arena for health enhancing interventions</td>
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<td>WUK WEBER ROTHMORE AAS VAN EERD</td>
<td>SHIRI SOLOVIEVA HUNG</td>
<td>DURAND SCHULTZ MENDES KLIPSTEIN SCHAAFSMA</td>
<td>JENSEN TEKAVEC ANDERSEN WATERS LÄUBLI PERKÖ-MÄKELÄ</td>
<td>TVEITO VOLENBOEK-VOLLENBOEK-VOLLENBOEK-HUTTEN SÖGARD PUNNETT</td>
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<tr>
<td>12.00 - 13.30</td>
<td>Lunch</td>
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<tr>
<td>13.30 - 15.00</td>
<td>Interventions for Reducing Work Absence for Workers with MSK Disorders Part I</td>
<td>Psychosocial factors</td>
<td>Different aspect of the prognosis of musculoskeletal disorders in occupational settings</td>
<td>Multisite pain: risk factors and consequences for work ability</td>
<td>Biology and mechanisms</td>
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<td></td>
<td>SHAW MACEACHEN FRANCHE MUIJER TREMBLAY-BOUDREAULT</td>
<td>MATSUDAIRA ENBERG BURGEL ROCHA KRISTMAN D’ERRICO</td>
<td>COGGON CESARI DESCATHA PAROT-SCHINKEL PRANSKY</td>
<td>PAANANEN HAUUKA NATVIG KÄÄRIÄ LEINO-ARJAS MARKKULA</td>
<td>FALLENTIN BARBE JØRGENSEN OKSA SCHELL</td>
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<td>15.00 - 15.15</td>
<td>Coffee/Tea Break</td>
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<tr>
<td>15.15 - 16.00</td>
<td>Poster Session III</td>
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<tr>
<td>16.00 - 17.30</td>
<td>Gender differences</td>
<td>The role of self-efficacy in the disability prevention framework and the return to work process</td>
<td>Prognosis, recurrence</td>
<td>Musculoskeletal Disorders and Ergonomic Challenges in Modern Dairy Production</td>
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<td>NORDANDER GUSTAFSSON COTE LATZA PROTEAU SINGH</td>
<td>SHAW RENEMAN BROUWER AMICK</td>
<td>RAMOND BOSTRÖM NAKATA SERAZIN YOUNG DUPREZ</td>
<td>DOUPHRATE KOLSTRUP PINZKE STÅL ROSECRANCE</td>
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<tr>
<td>18.00</td>
<td>Premus Evening (Optional, € 65)</td>
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### Thursday, 2 September 2010

<table>
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<tr>
<td>8.30 - 10.00</td>
<td>Morning plenary Two keynotes: Daniellou, Mairiaux</td>
<td>Broadcast of the BODIN amphitheater (Retransmission non traduite)</td>
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<tr>
<td>10.00 - 10.30</td>
<td>Breakfast PREMUS - WDPI</td>
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<tr>
<td>10.30 - 12.00</td>
<td>Interventions for Reducing Work Absence for Workers with MSK Disorders Part II VAN OOSTROM TOMPA KILSGAARD</td>
<td>Return to work / Tertiary prevention (2) VRIES DE LINDBERG NILSING HIMMELSTEIN FASSIER</td>
<td>International perspectives in health-related work outcome measures AMICB AMICK BÜLTMANN GALLASCH</td>
<td>Gender, work activity and MSD: what are the implications for intervention? AUTHIER LABERGE CAROLY DE TROYER</td>
<td>Lower limb disorders GOUTTEBARGE RIEGER DITCHEN BIELEMAN KLUSSMANN RYTTER</td>
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<td>12.00 - 12.15</td>
<td>Best poster Award Winners of the SJWEH best paper competition</td>
<td>Broadcast of the BODIN amphitheater (Retransmission non traduite)</td>
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<td>12.15 - 12.40</td>
<td>Closing Remarks Next Premus Presentation</td>
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<td>12.40</td>
<td>Lunch basket</td>
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**DETAILED PROGRAM**

**Sunday, 29 August 2010**

9.00 – 12.00 **Parallel workshops:**
*Associating biomechanics and verbalisation methods.*
*Speakers and discussion leaders: Agnès Aublet-Cuvelier, Yves Clot, Gabriel Fernandez, Clarisse Gaudez, Martine Gilles, Adriana Savescu, Pascal Simonnet, Lien Wioland*
*Language: English*

Promouvoir la prévention des TMS auprès des petites entreprises, l'influence des commandes institutionnelles dans les pratiques d'intervention qui visent la mobilisation des acteurs des entreprises.
*Conférenciers: René Brunet*
*Langue: Français*

12.00 – 13.00 **Break (lunch not provided)**

13.00 – 16.00 **Parallel workshops:**
*Thoracic outlet syndrome: from suspicion to a reasonable conviction.* (How to suspect it; how to assess the patient and to establish the diagnosis)
*Instructors: Jacky Laulan, Bernard Fouquet*
*Language: English*

Comment mieux planifier le retour au travail en milieu ordinaire de personnes en absences prolongées reliées à des troubles musculo-squelettique ou de santé mentale commun ?
*Conférenciers: Marie José Durand, Nicole Charpentier, Jean Baptiste Fassier*
*Langue: Français*

17.00 – 21.00 **Welcome Reception at Medieval Fortress of Angers (Optional, free)**
Monday, 30 August 2010

8.45 - 9.15 Opening Session, Official Welcome
9.15 - 10.45 Morning Plenary: Two Keynotes
   Nicole Vézina: The evolution of our representations of WMSD: Integrating knowledge and ensuring concerted preventive action
   Benjamin Amick: The Economics of Work-Related Musculoskeletal Disorders: What Exactly Do We Want?

10.45 - 11.15 Coffee/Tea Break

11.15 - 12.45 Parallel sessions:

   Symposia:
   Rationalization trends in working life: challenges and opportunities to create sustainable production systems (part I). Traduit en français
   Organizer(s): WINKEL J.
   Occupational musculoskeletal and mental health: significance of rationalization and opportunities to create sustainable production systems – a systematic review
   WESTGAARD R.H., WINKEL J.
   Lean production and work-related musculoskeletal disorders, WMSDs
   ARMSTRONG T.J.
   Workplace intervention effects: organizational level discrepancies and interferences?
   Preliminary results from a study of 6 units within the home care services in Trondheim, Norway.
   ANDERSEN G.R., WESTGAARD R.H.
   Impact on working conditions, productivity and health of dentists – a prospective study during rationalizations in public dental care
   ROLANDER B., JONKER D., BALOGH I., SANDSJÖ L., WINKEL J., SVENSSON E., EKBERG K.
   Rationalization in public dental care and impact on biomechanical exposures for dentists – a prospective study
   JONKER D., ROLANDER B., BALOGH I., SANDSJÖ L., EKBERG K., WINKEL J.

   Dynamics of work-related musculoskeletal disorders (MSD’s): long-term trends and life course approach
   Organizer(s): MIRANDA H.
   Time trends of musculoskeletal pain in a working age population
   LEIJON O., WAHLSTRÖM J., MULDER M.
   Changes in the incidence of occupational disability as a result of back and neck pain in the Netherlands and Ontario, Canada after legislative changes.
   STEENSTRA I., DAVILMAR A., HOGG-JOHNSON S., VERBEEK J.
   Musculoskeletal symptoms during young adulthood predict future unemployment. Results from a 30-year follow-up among Finnish conscripts
   FRILANDER H., MIRANDA H., MUTANEN P., KAILA-KANGAS L., PIHLAJAMÄKI H., VIKARI-JUNTURA E.
   Do health behaviours, social exposures or musculoskeletal health before entering work life predict later musculoskeletal morbidity or sickness absence?
   MIRANDA H., FRILANDER H., KAILA-KANGAS L., VIKARI-JUNTURA E.
   Physical fitness in adolescence and musculoskeletal sickness absence 5-15 years later: cohort study of 227,201 male employees born in Norway 1967-1976
   KRISTENSEN P., MEHLUM I.S., BJERKEDAL T.

   Open sessions:
   Epidemiology of the neck and upper limb (1). Traduit en français
   Chair(s):
   Measured agreement between different research case definitions for carpal tunnel syndrome
   EVANOFF B., DESCATHA A., DALE A.M., COOMES J., FRANZBLAU A.
Determining the level of evidence associated with risk factors for carpal tunnel syndrome: a systematic review
BOOCOCK M.G., TREVELYAN F., TAPPIN D., MCNAIR P.J., LARMER P.J., GRIFFITHS R.F., SIMMONDS M., TILSON T., MILLER C.

Predictors of carpal tunnel syndrome (CTS) among newly hired workers
FRANZBLAU A., DALE A.M., D’ARCY H., EVANOFF B.

Prevalence of carpal tunnel syndrome and abnormal median nerve conduction at time of hire
ROSECRANCE J.

The associations of cardiovascular risk factors, carotid intima-media thickness and manifest atherosclerotic vascular disease with carpal tunnel syndrome
SHIRI R., HELIOVAARA M., MOILANEN L., VIIKARI J., LIIRA H., VIIKARI-JUNTURA E.

High heritability for concurrent low back and neck-shoulder pain – a study of twins
NYMAN T., MULDER M., ILIADOU A., SVARTENGREN M., WIKTORIN C.

Economic aspects
Chair(s):
Workplace ergonomic interventions with economic analyses: a systematic review
IRVIN E.L., TOMPA E., DOLINSCHI R., DE OLIVEIRA C., AMICK B.C.

Economic evaluations of occupational health interventions from a company’s perspective: a systematic review of methods to estimate the cost of health-related productivity loss
UEGAKI K., DE BRUIJNE M.C., VAN DER BEEK A.J., VAN MECHELEN W., VAN TULDER M.W.

Economic evaluation of an intervention program on exposure to risk factors, prevalence of arm, shoulder and neck symptoms, and sick leave in computer workers

Direct workers’ compensation costs for patient handling injuries surrounding a hospital-wide policy change to minimal manual lifting of patients

An economic justification for the implementation of interventions that reduce knee injuries in underground mining
MOORE S.M., POLLARD J.P.

Musculoskeletal disorders compensation costs as a function of age and industry
DAVIS K.G., DUNNING K.K., KOTOWSKI S.E., HAMRICK C., LOCKEY J.

Exposure measurement methods (1)
Chair(s):
Long periods with sustained trapezius muscle activity and neck pain
OSTENSVIK T., VEIERSTED K.B.

Relations between work strain recording methods and clinical outcomes of WRULMSDs
MEYER J.P., TURPIN-LEGENDRE E., DIDRY G.

Designing a methodology of capturing and assessing work-related risk factors for the carpal tunnel syndrome (CTS)
HOEHNE-HUECKSTAEDT U.M., ELLEGAST R.P.

Variability of observed upper extremity physical exposures among different job types
DALE A.M., JAEGERS L.A., EVANOFF B.A.

Operational validity of CAPTMS design tool for assessing musculoskeletal disorder risk
ATAIN KOUADIO J.J., AUBLLET-CUVELIER A., CLAUDON L., MOCHEL J.L., MUTH D.

A risk index focusing the time pattern of work and recovery
FORSMAN M., TOOMINGAS A., VEIERSTED K.B., MATHIASSEN S.E.

12.45 - 14.15 Lunch

14.15 - 15.45 Parallel sessions:

Symposia:

Rationalization trends in working life: challenges and opportunities to create sustainable production systems (part II).
Traduit en français
Organizer(s): WINKEL J.
Consequences on physical workload of rationalization in meat cutting
ARVIDSSON I., BALOGH I., HANSSON G.A., OHLSSON K., SKERFVING S., NORDANDER C.
Rationalization as a determinant of mechanical exposure — case studies of parallel and serial flow production in two auto branches at different levels of industrialization
FORSMAN M., PALMERUD G., NEUMANN W.P., WINKEL J.
A tool for development of sustainable health care systems by integrating considerations for performance and job content
JAREBRANT C., DUDAS K., HARLIN U., JOHANSSON HANSE J., WINKEL J.
Sustainable MSD prevention: management for continuous improvement between prevention and production. ergonomic intervention in two assembly line companies
CAROLY S., COUTAREL F., LANDRY A., CHERAY I.

Health and safety in the construction industry - Part 1: work demands and related health problems.
Organizer(s): GOUTTEBARGE V.
Physical demands and musculoskeletal health for bricklayers and construction supervisors — a systematic review
BOSCHMAN J.S., VAN DER MOLEN H.F., SLUITER J.K., FRINGS-DRESEN M.H.W.
Exposure to kneeling work tasks and knee disorders in floor layers
KIRKESKOV L., RYTTER S.
Factors associated with delayed return to work after back injury among residential union carpenters.
LIPSCOMB H.J., MIRKA G.A., NOLAN J., PATTERSON D., DEMENT J.M.
Specific job demands in the construction industry for a pre-employment medical examination
GOUTTEBARGE V., VAN DER MOLEN H.F., SLUITER J.K., FRINGS-DRESEN M.H.W.
Work exposures and carpal tunnel syndrome among construction workers.
DALE A.M., JAEGERS L.A., EVANOFF B.A.

Open sessions:
Surveillance and prevention policies. Traduit en français
Chair(s): HA C., SLUITER J.
Health and socioeconomic impact study of European initiatives on the prevention of work-related MSDs in Europe
BLATTER B.M., OPDEBEECK R., VAN DEN HEUVEL S.G., EECCKEALERT L.E., TREUTLEIN D., KRAKER H., PAWLWSKA Z., ROMAN-LIU D., HOLLANDER A.
WMSD Surveillance using WC data
SILVERSTEIN B., ADAMS D.
Strategies for MSD prevention – a new model proposed by a Belgian task force
SOMVILLE P.R., MAIRIAUX P.
Epidemiology of upper limb musculoskeletal disorders and work disability in 2.300.980 insurants of the statutory health insurances in Germany
OCHSMANN E.B., ESCOBAR L.C., KRAUS T., LETZEL S., MUNSTER E.
Ergonomic factors of traumatic low back pain approved in 2006-2008 workers’ compensation claims
PARK J.K., LEE H.K., JANG S.H.
Underreporting of non-traumatic work-related musculoskeletal disorder work absences to workers’ compensation: Results of a 2007-2008 population survey
STOCK S.R., FUNES A., DELISLE A., TURCOT A., MESSING K.

Exposure measurement methods (2)
Chair(s):
Cost-efficiency of adding another subject or another day to an exposure data set
MATHIASSEN S.E., TRASK C.M.
The effect of sampling strategy on the accuracy and precision of variance component estimates
LIV P., MATHIASSEN S.E.
An index of physical workload to evaluate an ergonomics program in nursing homes
KUROWSKI A., BUCHHOLZ B., PUNNETT L.
A comparison between worksite walkthrough assessments and self-reported musculoskeletal exposure and symptoms

SEMBAJWE G., QUINN M., KRIEBEL D., STODDARD A., BARBEAU E.

Reliability of job-title physical work exposures for the upper extremity: comparison to self-reported and observed exposure estimates


The accuracy of self-report in determining computer use duration

BAKER N.A., MOEHLING K., XIU K.H.

Prevention: education, training, lifestyle

Chair(s):

Physical activity, diet and cognitive behavioral training as a combined worksite-based lifestyle intervention to reduce weight and musculoskeletal disorders in health care workers

CHRISTENSEN J.R., OVERGAARD K., HOLTERMANN A., SØGAARD K.

Effects of health check based work site physical exercise. intervention among employees with physically heavy work. a randomized controlled study.

GRAM B., BACHMANN R.H., HOLTERMANN A., SØGAARD K., SJØGAARD G.

Effect of specific strength training on neck/shoulder pain: a randomized controlled trial among industrial workers

ZEBIS M.K., ANDERSEN L.L., PEDERSEN M.T., MORTENSEN P., ANDERSEN C.H., PEDERSEN M.M., BOYSEN M., ROESSLER K.K., HANNERZ H., SJØGAARD G.

Evaluation of a Canadian mass media campaign aimed at preventing disability from back pain

GROSS D.P., RUSSELL A.S., FERRARI R., BATTIE M.C., SCHOPFLOCHER D., HU R., WADDELL G., BUCHBINDER R.

Dynamic training on the lumbar musculature to prevent recurrence of acute low back pain: a randomized control trial using a daily pain recall for one year

CIRIELLO V.M., SHAW W.S., RIVARD A.J., WOISZWILLO M.

A multidisciplinary prevention of work-related musculo-skeletal disorders of gravediggers: confrontation with biomechanical analyses using the methodology of the clinic of activity theory.

SIMONET P., FERNANDEZ G., CLOT Y., VAN TRIER M., SAVEŞCU A., GAÚDEZ C., AUBLET-CUVELIER A.

15.45 - 16.00  Coffee/Tea Break

16.00 - 16.45  Poster Session I

16.45 - 18.15  Parallel sessions:

Symposia:

Health and safety in the construction industry - Part 2: intervention studies.

Organizer(s): GOUTTEBARGE V.

A health promotion program at the workplace for construction workers: a feasibility evaluation within a randomized controlled trial

OUDE HENGEL K.M., JOLING C.I., PROPER K.I., BONGERS P.M.

An intervention for overhead drilling to reduce upper extremity musculoskeletal risk factors

REMPEL D.M., BARR A., STAR D., JANOWITZ I.

Impact of ergonomic measures on productivity, task demands and workload – examples of two construction jobs.

VAN DER MOLEN H.F., KUIJER P.P.F.M., FRINGS-DRESEN M.H.W.

Masonry ergonomics best practices

WELCH L.S., ANTON D., HESS J.

Economic evaluation of interventions to reduce ergonomic injuries in construction

LAHIRI S., WELCH L.S.

Oxygennation and hemodynamics for repetitive work and muscle pain.

Organizer(s): CRENSHAW A.G.

Gender differences in the forearm for the oxygenation and myoelectric activity relation, muscle blood flow and oxygen consumption
Detailed program – Monday, 30 August 2010

ELCADI G.H., FORSMAN M., CRENSHAW A.G.
Significance of muscle oxygenation levels for fatigue development during submaximal contractions.

JENSEN B.R., HAMMER C., HVITVED M.
Circulatory and electromyographic responses to physical effort and experimental pain in subjects with trapezius myalgia

HALLMAN D., LYSKOV E., GÖRAN LINDBERG L.
Pain during office work: neck/shoulder pain and trapezius muscle blood flux during an experimental work session.

STROM V., KNARDAHL S.
Forearm oxygen delivery, consumption and blood flow before and after fatigue in subjects experiencing work related muscle pain and healthy controls

CRENSHAW A.G., ELCADI G.H.
Optical spectroscopy derived oxygen saturation responses of forearm muscles in healthy male workers during an eight hour exposure to a repetitive ulnar deviation task

MAIKALA R.V., CIRIELLO V.M., O'BRIEN N.V., BANKS J.J., RIVARD A.J.

Early prevention, work organization and participative approaches. Traduit en français
Chair(s): REMPEL D., AUBLET-CUVELIER A.
Ergonomic intervention research for MSD prevention: blending of two action frameworks towards a common goal
QUELLET S., VEZINA N.
The effectiveness of participatory ergonomics to reduce psychosocial and physical risk factors for low back pain and neck pain; results of a cluster randomised trial.
DRIESEN M.T., PROPER K.I., ANEMA J.R., KNOL D.L., BONGERS P.M., VAN DER BEEK A.J.

WMSD prevention: assessment of an ergonomic intervention six years later
DUGUE B., CHASSAING K., COUTAREL F.

Which possibilities for sustainable prevention of WMSD within lean manufacturing production methods?

BUCHMANN W., BELLIES L., VOLKOFF S.
Encouraging the adoption of ergonomic innovations: examining the effect of knowledge transfer techniques on construction companies’ decisions to adopt innovations to reduce the risk of musculoskeletal disorders (MSD).

KRAMER D.M., CARLAN N., WELLS R.P., BIGELOW P., VI P., GARRITANO E.

Open sessions:

Computer work (1)
Chair(s):

Redesigning the keyboard spacebar can improve wrist posture while typing
ODELL D.L., LEE D.L.

Differences in muscle load between computer and non-computer work among office workers
RICHTER J.M., MATHIASSEN S.E., SLUPER H.P., FREN M.A.

Postures and typing strategies in mobile device usage as characterized through an observational instrument
GOLD J.E., THOMAS N., DRIBAN J., CHANNELL T., CHAKRAVARTY T.

Keystroke duration shortens over the day during intensive computer use: a potential measure of keyboard related fatigue
HAN C., DENNERLEIN J., JOHNSON P., WANG Y.

The influence of perceived work demands on trapezius activity among emergency call-centre workers
DELISLE A., TOULOUSE G., SALAZAR E., DUHALDE D., COMTOIS A.-S.

Differential effects of physical and mental tasks on cervical muscle activity and cardiovascular responses
WANG Y.L., SZETO G.P.Y., CHAN C.C.

Health care sector (1). Traduit en français
Chair(s):

Traduit en français
Ergonomic exposures to back disorder risk factors among healthcare workers: a description and comparison of hospitals and nursing homes

Work-related musculoskeletal disorders and prevention among home healthcare workers
GARG A., HEGMANN K., KAPELUSCH J., THIESE M.

Work-Related Musculoskeletal Disorders in Female Swedish Physical Therapists with more than 15 Years of Job Experience: Prevalence and Associations with Work Exposures
GROOTEN W., WERNSTEDT P., CAMPO M.

The cultures of caring among healthcare professions and worker safety in acute care patient handling
MYERS D.J., SCHOENFISCH A.L., LIPSCOMB H.J.

Paramedics on the job: a biomechanical and physiological workplace analysis
PRAIRIE J., CORBEIL P.

Process variations, ergonomic stresses and quality
CARRASQUILLO V., ARMSTRONG T.J., HU J., LEY K., RIGGS R., YU D.

19.00  Aperitif at Jean Lurçat Museum (Optional, free)
Tuesday, 31 August 2010

8.30 - 10.00 **Morning Plenary: Two Keynotes**
Barbara Silverstein: WMSDs: Knowledge, practice, policy. ("Asa Kilbom memorial", in memory of Asa Kilbom who was at the origin of the first PREMUS conference in Stockholm in 1992).
Gisela Sjøgaard: Mechanisms in muscle activity: contrasting effects on health

10.00 - 10.10 **Supporters’ speeches**

10.10 - 10.30 **Coffee/Tea Break**

10.30 - 12.00 **Parallel sessions:**

**Symposia:**

**NIOSH Upper Extremity Musculoskeletal Disorder Consortium Studies. Traduit en français**
Organizer(s): BURT S.
- Carpal tunnel syndrome at 3 workplaces – job and individual factors
  BURT S., CROMBIE K., RAMSEY J., WURZELBACHER S., JIN Y., DEDEENS J.
- Prospective study of rotator cuff, epicondylitis and carpal tunnel syndrome in 12 US workplaces
- Workplace and individual factors and wrist tendinitis: the San Francisco Study
  HARRIS C., EISEN E., GOLDBERG R., KRAUSE N., REMPEL D.
- Risk factors for lateral epicondylalgia from a 7-year prospective cohort study
- Individual, psychosocial and job physical risk factors for CTS: results from a 7-year prospective cohort study
  GARG A., HEGMANN K., WERTSCH J., KAPELUSCH J., MERRYWEATHER A., SCHAEFFER G., THIESE M., BLOSWICK D.
- Risk factors for incident carpal tunnel syndrome: results of a prospective cohort study of newly-hired workers
  EVANOFF B., DALE A.M., DEYCH E., FRANZBLAU A.

**Pain and Movement**
Organizer(s): MADELEINE P.
- A review of epidemiological evidence for relationship between physical work load and musculoskeletal disorders
  VEIERSTED K.B., KNARDAHL S.
- Work-work-work: individual joint- and whole-body changes associated with repetitive motion-induced fatigue
  COTE J.N., FULLER J.R., EMERY K.
- On the transition from acute to chronic neck-shoulder pain in repetitive work
  MADELEINE P.
- Motor performance in chronic low back pain
  VOLLENBROEK-HUTTEN M.M.R., HERMENS H.J., HULST VAN DER M., VAN WEERING M.
- Trapezius activity distribution: relevance for pain?
  HOLTERMANN P., WAKEFIELD E., JARLE MORK P.

**Open sessions:**

**Epidemiology of the neck and upper limb (2). Traduit en français**
Chair(s):
- Improving the classification of upper limb disorders
  PALMER K.T., COGGON D.
- Classifying non-specific upper extremity musculoskeletal disorders by cluster analysis: coming to a solution?
  GOLD J.E., PILIGIAN G., GLUTTING J.J., HANLON A., FRINGS-DRESEN M.H.W.,
SLUITER J.K.
Epicondylitis related to work exposures of force, repetition, and posture
JAEGERS L.A., DALE A.M., EVANOFF B.A.

Ulnar neuropathy-like symptoms with negative electroneurography in relation to mechanical exposures assessed by a job exposure matrix: case-referent study
FROST P., SVENSDSEN S.W., JOHNSON B., FUGLSANG-FREDERIKSEN A.

Ulnar neuropathy in relation to mechanical exposures assessed by a job exposure matrix: case-referent study
SVENSDSEN S.W., FROST P., JOHNSON B., FUGLSANG-FREDERIKSEN A.

Work-related lesions of the supraspinatus tendon – a case-control study
SEIDLER A., BOLM-AUDORFF U., PETEREIT-HAACK G., ELSNER G.

Prevention in various sectors
Chair(s):
Subgroup analysis of a randomized comparative trial on ergonomics in kitchen work
TAKALA E.P., PEHKONEN I.

Applying ergonomics and biomechanics to reduce injuries and increase productivity in a commercial lighting manufacturing facility: a case study
KAPELLUSCH J., SIEBERS S., GARG A.

Effect of workplace interventions on upper extremity MSDs: a systematic review

Enhancing musculoskeletal health and performance through training combined with a sit-stand workstation
ROBERTSON M.M., CIRIELLO V.M., GARABET A.

Effects of prismatic glasses, on postures, perceived exertion and comfort, during dental work.
LINDEGÅRD A., GUSTAFSSON M., HANSSON G.A.

Physical exposure
Chair(s):
The personal load assistive device (PLAD) works: a review of current findings
STEVENSON J.M., GRAHAM G.B., SADLER E.M., ABDOLI-E M., AGNEW M.J.

Manual materials handling: expert handlers use different lifting strategies than novices
PLAMONDON A., DELISLE A., DENIS D., LARIVIÈRE C., ST-VINCENT M., SALAZAR E., GAGNON D., NASTASIA I.

Physical workload on neck, shoulder and upper arm in various types of work
HANSSON G.A., BALOGH I., OHLSSON K., GRANQVIST L., NORDANDER C., ARVIDSSON I., ÅKESON I., UNGE J., RITTNER R., STRÖMBERG U., SKERFVING S.

Assessment of performance and physical demands when using a prototype courier delivery truck
MARSHALL J., HURLEY K., WELLS R.P.

Effect of lifting condition on the anticipatory muscle recruitment prior to lifting
YOON J.

12.00 - 13.30 Lunch

13.30 - 15.00 Parallel sessions:
Round table discussion:
Round table discussion part I. Classification of musculoskeletal disorders in occupational health practice and research: when is preventive action in OH required? Distinguishing between normal and serious symptoms
Organizer: SLUITER J.

Symposia:
Surveillance of work-related musculoskeletal disorders: How? By and for whom? How is it linked to prevention?
Organizer(s): STOCK S., HA C.
Work-related musculoskeletal disorders (WMSD) surveillance and Quebec’s public health strategy to prevent WMSD: realizations and challenges.

STOCK S.

Using workers compensation data for WMSD surveillance

SILVERSTEIN B., ADAMS D.

French epidemiological surveillance program of work-related musculoskeletal disorders: strengths and challenges

HA C., BRIERE J., PLAINE J., FOUQUET N., ROQUELAURE Y., IMBERNON E.

Methods for Risk Analysis in Practice. Traduit en français

Organizer(s): PIETTE A.

Ergonomic risk analysis and global company OSH analysis

HERMANS V., PIETTE A.

The hand arm risk assessment method (HARM), continued development

DOUWES M., DE KRAKER H.

The key indicator methods – status quo of a toolbox for risk assessment of physical workload on a screening level

STEINBERG U., LIEBERS F.

Promoting compliance with the European directive on manual handling – the use of the manual handling assessment charts (MAC) by regulators and duty holders

GRAY M.I., MONNINGTON S.C., QUARRIE C.

A practical inspection tool for assessment of repetitive tasks of the upper limbs (ART)

FERREIRA J.J., GRAY M.I., BIRTLES M.

Update on the revised NIOSH lifting equation

WATERS T.R.

Open sessions:

Computer work (2)

Chair(s):

Computer work and musculoskeletal disorders of the neck and upper extremity: a systematic review.

WAERSTED M., HANVOLD T.N., VEIERSTED K.B.

Perceived muscular tension is a risk factor for future neck-shoulder symptoms

HUYSMANS M.A., BLATTER B.M., VAN DER BEEK A.J.

A comparison of exposure assessment methods in computer workers

VAN EERD D., STEENSTRA I., KING T., SEVERIN C., COLE D.C., BIGELOW P., AMICK B.C., BEATON D.E.

Concurrent validity of the symptom questions of the internet-based RSI Quickscan in computer workers

SPEKLE E.M., HOOZEMANS M.J.M., VAN DIEËN J.H.

Accounting for individual variability improves estimates of biomechanical parameters in computer workers.

BRUNO J.L., HUYSMANS M.A., DENNERLEIN J.T.

Effect of sampling strategies on variance in exposure intensity metrics of typing force and wrist postural dynamics during computer work

ASUNDI K., JOHNSON P., DENNERLEIN J.

Health care sector (2). Traduit en français

Chair(s):

Lumbar-load quantification and overload-risk prevention for healthcare workers during patient-handling activities

JÄGER M., JORDAN C., THEILMEIER A., LUTTMANN A.

The occurrence of musculoskeletal symptoms in South African nurses

NYANTUMBU B.M., KIELKOWSKI D., REES D.

Ergonomic devices reduce physical load during patient handling activities in nursing homes

KOPPELAAR E., KNIBBE J.J., MIEDEMA H.S., BURDORF A.

Use of a lift assist team in an acute care hospital setting: prevention or transfer of risk of patient-handling injury?

SCHOENFISCH A.L., LIPSCOMB H.J., MYERS D.J.
Detailed program – Tuesday, 31 August 2010

The evaluation of a tool to measure the success of patient handling interventions; using field trials across the EU.  
**FRAY M., HIGNETT S.**

A study of surgeons’ postures and muscle activity during open, laparoscopic and endovascular surgery  
**SZETO G.P.Y., CHENG S.W.K., HO P., POON J.T.C., TING A.C.W., TSANG R.C.C.**

15.00 - 15.15 **Coffee/Tea Break**

15.15 - 16.00 **Poster Session II**

Round table: Mobilization/participation of stakeholders for sustainable MSD prevention. Organizer(s): CAROLY S.

16.00 - 17.30 **Parallel sessions:**

**Symposium:**

Evaluation of interventions designed to prevent MSD: Theories and strategies.  
*Traduit en français*  
Organizer(s): COUTAREL F.

How “intervention research” could contribute to knowledge on MSDs prevention?  
**COUTAREL F.**

Evaluation of interventions designed to prevent MSD: what can we learn from successes and failures  
**WELLS R.**

Lessons learned from evaluative research in the field of work rehabilitation  
**DURAND M.J., BERTHELETTE D., LOISEL P.**

Randomization, what is it good for?  
**VAN DER BEEK A.J.**

How could we improve the generalizability of evaluation results of programs designed to prevent back pain?  
**BERTHELETTE D., LEDUC N., BILODEAU H., DURAND M.J.**

Round table discussion:

Round table discussion part II. Classification of musculoskeletal disorders in occupational health practice and research: needed in the future to address sustainable musculoskeletal health and related work ability?  
Organizer: SLUITER J.

**Open sessions:**

**Biomechanics**

Chair(s):

A stochastic 3D static hand force prediction model for estimating maximum feasible hand forces during unilateral exertions  
**FISCHER S.L., DICKERSON C.R., WELLS R.P.**

Combined hand-arm and whole-body vibration exposure - the effect on muscular activity in the trapezius  
**LEWIS C., BURSTRÖM L., SUNDELIN G.**

Relationships between forearm and trapezius muscle activity during key tapping  
**TOMATIS L., MULLER C., NAKASEKO M., LAUBLI T.**

Comparison of time and level based EMG parameters for assessments of muscle activity patterns  
**VEIERSTED K.B., FORSMA M., MATHIASSEN S.E.**

Comparing power tool fastening and unfastening operations: exposures and physiological response  
**LIN J.H., MCGORRY R.W., BANKS J.**

Sustained trapezius muscle activity and development of neck pain in young workers  
**HANVOLD T.N., VEIERSTED K.B., WÆRSTED M.**
Detailed program – Tuesday, 31 August 2010

**Musculoskeletal disorders in specific sectors**
*Chair(s):*
Physical workload in different work tasks in female grocery store workers
BALOGH I., OHLSSON K., HANSSON G.Å.; NORDANDER C.

Full-shift upper extremity direct exposure assessment among US dairy parlor workers
DOUPHRATE D.I., ROSECRANCE J.C., FETHKE N.B., NONNENMANN M.W.

Compression and shear forces of the lower back in cabin attendants during pushing and pulling of meal carts
SANDFELD J., ROSGAARD C., JENSEN B.R.

Health risks of african and latin drumming: instrument specific injuries of the upper extremities in hand drum players.
GARRABE H.

Musculoskeletal symptoms and the effect of working in a cold environment among male construction workers
WAHLSTRÖM J., BURSTRÖM L., JÄRVHOLM B., NILSSON T.

Follow up of the evolution of seasonal workers’ pain and musculoskeletal symptoms: relevance of mixed methods approach
MAJOR M.E., VÉZINA N.

**Work ability, physical fitness. Traduit en français**
*Chair(s):*
What explains return to work and work ability- an analysis of expectations, health and disability variables
ÖBERG B., BENRFORT L., WÄHLIN NORGREN L., PERSSON J., EKBERG K.

Relevance of normative values for Functional Capacity Evaluation
SOER R., VAN DER SCHANS C.P., GEERTZEN J.H.B., BROUWER S., DIJKSTRA P.U., RENEMAN M.F.

Predictive validity of self-reported work ability and functional capacity evaluation lifting tests on durable return to work in construction workers
KUIJER P.P.F.M., GOUTTEBARGE V., WIND H., SLUITER J.K., FRINGS-DRESEN M.H.W.

Testing physical work ability of Dutch fire fighters in a job-specific way
PLAT M.J., FRINGS-DRESEN M.H.W., SLUITER J.K.

Physical fitness of korean workers by age, gender, and job character

17.30 - 19.30 **Workshop: How to read and write Cochrane Systematic Reviews?**
Organizer(s): VERBEEK J.

17.30 - 19.30 **Annual meeting ICOH PREMUS scientific committee**

18.00 - 20.00 **Angers Guided Tour (Optional, € 6)**
Wednesday, 1 September 2010

8.30 - 10.00 **Morning Plenary: Two Keynotes**

- Eira Viikari-Juntura: Lifestyle factors in musculoskeletal disorders (MSDs) – Implications for research
- David Rempel: Prevention of carpal tunnel syndrome: lessons from physiologic studies

10.00 - 10.10 **Supporters’ speeches**

10.10 - 10.30 **Coffee/Tea Break**

10.30 - 12.00 **Parallel sessions:**

**Symposia:**

1. **Low back pain: effect of work exposures, lifestyle and individual factors.**
   - Traduit en français
   - Organizer(s): SOLOVIEVA S.

   - Interrelationships between overweight, physical activity and low back pain
   - Shiri R., Solovieva S., HUsgafvel-Pursiainen K., Telama R., Viikari J., Raitakari O.T., Viikari-Juntura E.

2. **Does obesity cause low back pain?**
   - Organizer(s): SoLOVIEVA S., HUSGAfVEL-PURSIAINEN K., SHIRI R., VIIKARI J., KÄHÖNEN M., RAItAKARI O.T., LEHTIMÄKI T., VIIKARI-JUNTURA E.

   - The gene-work exposure interaction in causing lumbar herniated intervertebral disc (HIVD) in Taiwan

**The worksite as arena for health enhancing interventions. Lessons learnt from recent and current RCT studies.**

- Organizer(s): SjøGaarD G., SØGAARD K.

   - Integrated health programme: a workplace randomized controlled trial.
   - Tveito T.H., Eriksen H.R.

   - Telemedicine applications offering treatment in home/work situation for people with musculoskeletal pain
   - VollEnbroek-Hutten M.M.R., herMens H.J., huiS in ’t veld M.H.A., Van Weering M.

   - Interventions aiming at preserved work ability among employees in job groups with high physical demands, finale.

   - Musculoskeletal disorders and work organization: advantages and limitations of workplace RCTs vs. other study designs for research-to-practice.
   - Punnett L., CHERNIACK M., CPH-NEW RESEARCH TEAM.

**Open sessions:**

**Return to work / Tertiary prevention (1)**

- Chair(s):

   - Developing a guide for measuring the concept of margin of manoeuvre
   - Durand M.J., veZina N., LoiSeL P., rICHARD M.C.

   - Early intervention with low back injured workers in the workers’ compensation context
   - Schultz I., PrkachIn K.M., crook J.M., BerkowItz J., MIlner R.

   - Comparative study on the use of kinesiotherapy in groups and individually on patients with work-related musculoskeletal disorders (WRMSD)
   - Mendes L.F., Laeubli T., CanJuga M., JoroenN H., norBerG M., Danuser B.

Effects of a multidisciplinary intervention program in back and neck pain patients absent from work- baseline data and effects on subjective workability, lifting capacity and sickness absence over 12 months

Physical conditioning programs for improving work outcomes in workers with back pain: A Cochrane Systematic Review
SCHAAFSMA F., SCHONSTEIN E., WHELAN K.M., ULVESTAD E., KENNY D.T., VERBEEK J.H.

**Measuring effects of interventions. Traduit en français**

*Chair(s):*
Explicit and implicit change theories behind ergonomic interventions in working life; a systematic review
WIJK K., MATHIASSEN S.E.

Methods to evaluate the effectiveness of physical activity promotion measures at sedentary workplaces
WEBER B., MAHLBERG R., ELLEGAST R.

A randomized controlled trial of a tailored musculoskeletal disorder prevention intervention – preliminary results
ROTHMORE P., PISANIELLO D., STEWART S., DODA D.

*Methods to evaluate the effectiveness of physical activity promotion measures at sedentary workplaces*
WEBER B., MAHLBERG R., ELLEGAST R.

A randomized controlled trial of a tailored musculoskeletal disorder prevention intervention – preliminary results
ROTHMORE P., PISANIELLO D., STEWART S., DODA D.

A randomized controlled trial of a tailored musculoskeletal disorder prevention intervention – preliminary results
ROTHMORE P., PISANIELLO D., STEWART S., DODA D.

Workplace interventions for neck pain in workers. A systematic review

Participatory ergonomics: evidence on effectiveness and implementation
VAN EERD D., COLE D.C., KEOWN K., IRVIN E.

**Musculoskeletal disorders at a population level**

*Chair(s):*
Health beliefs and health worries: predictors of care-seeking with back pain or any musculoskeletal pain in a cohort of the general working population
JENSEN J.C., HAAHR J.P., ANDERSEN J.H.

In incidence of shoulder lesion diagnoses in southern Sweden – data from a population-based health care register
TEKAVEC E., JÖUD A., RITTNER R., MIKOCZY Z., NORDANDER C., PETTERSSON I.F., ENGLUND M.

Work-related predictors of medical care-seeking with neck and upper extremity pain and back pain in a cohort of the general working population
ANDERSEN J.H., JENSEN J.C., HAAHR J.P.

Assessment of work-related musculoskeletal disorders using quality of worklife data from the 2006 general social survey
WATERS T.R., DICK R.B., KRIGE E.F.

Towards a consolidated measure of the physical, organisational and psychosocial risk factors for work-related musculoskeletal disorders.
LAUBLI T.H., MÜLLER C.H., GRAF M.

Finnish workers’ opinions on continuing to work after the age of 63 and musculoskeletal disorders
PERKIÖ-MÄKELÄ M.M.

12.00 - 13.30  Lunch

13.30 - 15.00  Parallel sessions:

**Symposia:**

**Interventions for Reducing Work Absence for Workers with MSK Disorders Part I - Innovations and New Developments. Traduit en français**

*Organizer(s):* FRANCHE R.L., MACEACHEN E.

Development of the inventory of pain, recovery expectations, and concerns (IPREC): a patient-centered screening tool to match working adults to early intervention for low back pain
SHAW W.S., LINTON S.J., STEENSTRA I.A., PRANSKY G.

Re-integrating injured workers to the labour market and the problem of poor health
MACEACHEN E., KOSNY A., FERRIER S., NELSON C., LIPPEL K., FRANCHE R.L.

A multivariate analysis of factors associated with early offer and acceptance of a work accommodation following an occupational musculoskeletal injury
FRANCHE R.L., SEVERIN C., HOGG-JOHNSON S., LEE H., CÔTÉ P., KRAUSE N.
Assessment of the quality of the return-to-work process among sick-listed workers with low back pain: a focus group study
MUIJZER A., GEERTZEN J.H.B., DE BOER W.E.L., GROOTHOFF J.W., BROUWER S.
Combining disability prevention to return to work management: an innovative step towards better MSD management.
TREMBLAY-BOUDREAU V., VÉZINA N.

Different aspect of the prognosis of musculoskeletal disorders in occupational settings: example of the carpal tunnel syndrome.
Organizer(s): DESCATHA A.
Epidemiological investigation of prognosis.
COGGON D.
In a clinical point of view, what are the strongest predictors of the medical prognosis for carpal tunnel syndrome.
CESARI B., RAIMBEAU G., FOUQUE P.A., SAINT-CAST Y., RABARIN F., JEUDI J.
What are the strongest predictors of the medical prognosis of CTS? Results from a US population based study.
DESCATHA A., DALE A.M., FRANZBLAU A., CALFEE R., EVANOFF B.
What are the strongest predictors of the return to work for carpal tunnel syndrome? Results from a French population based study.
Prognosis for return to work in carpal tunnel syndrome: a north American perspective
PRANSKY G.

Multisite pain: risk factors and consequences for work ability.
Organizer(s): LEINO-ARJAS P.
Prevalence of multisite pain, their determinants, and impact on health-related quality of life among Finnish young adults.
PAANANEN M., TAIMELA S., AUVINEN J., TAMMELIN T., KANTOMAA M., EBELING H., TANILA A., ZITTING P., KARPPINEN J.
Reciprocal associations of psychosocial factors at work with multisite musculoskeletal pain: a two-year follow up study among kitchen workers
HAUKKA E., LEINO-ARJAS P., OJAJÄRVI A., TAKALKA E.P., VIIKARI-JUNTURA E., RIIMIKÄI H.
Multisite pain: risk factors and consequences for work ability.
NATVIG B., IHLEBÆK C.M., KAMALERI Y., BRUUSGAARD D.
Low back pain, neck pain and their co-occurrence as predictors of sickness absence among municipal employees
KÄÄRIÄ S., LAAKSONEN M., LEINO-ARJAS P., SAASTAMOINEN P., LAHELMA E.
Persistent multisite pain and incident disability pensions among municipal employees
LEINO-ARJAS P., PENTTI J., VAHTERA J.
Influence of fibromyalgia - like symptoms on early retirement and mortality: a twin cohort study

Open sessions:

Biology and mechanisms
Chair(s):
Back muscle injury: a cumulative trauma pathway
FALLENTIN N.
Conservative secondary interventions are effective at attenuating peripheral nerve inflammation and conduction velocity declines but not sensorimotor declines with high repetition high force task
BARBE M.F., ELLIOTT M.B., CLARK B.D., BARR A.E.
Neck pain and postural stability among workers with high postural demands
JØRGENSEN M.B., SKOTTE J., HOLTERMANN A., SOGAARD K.
Muscle recovery time from a single exhaustive work bout in the heat
OKSA J., RISSANEN S., MÄKINEN T., TAKATALO K., LUSA S., LINDHOLM H., RINTAMÄKI H.

Stress biomarkers’ associations to pain in the neck, shoulder and back in healthy media workers. 12-month prospective follow-up.
SCHELL E., THEORELL T., HASSON D., ARNETZ B., SARASTE H.

Psychosocial factors. Traduit en français
Chair(s):
Risk factors for onset of persistent back pain among Japanese workers; findings from a prospective study: the Japan epidemiological research of occupation-related back pain (JOB) study
MATSUDAIRA K., ARISAKA M., SAWADA T., ISOMURA T.

Work experiences in the beginning of the professional career – analyses among nurses and physicians using the effort-reward model.
ENBERG B., ÖHMAN A., SUNDELIN G.

Psychosocial work factors and shoulder pain in hotel room cleaners
BURGEL B.J., WHITE M., GILLEN M., KRAUSE N.

Risk factors for musculoskeletal symptoms among call center reservation and health managed care operators in São Paulo, Brazil.
ROCHA L.E., GLINA D.M.R., GIMENES M.J.F., FISCHER F.M.

Workplace social capital and work-related repetitive strain injury in Canada: a cross-sectional analysis
KRISTMAN V.L., VAFAEI A.

Exposure to workplace psychosocial factors and chronic low back pain in hospital workers
D’ERRICO A., VIOTTI S., BARATTI A., MOTTURA B., CONVERSO D.

15.00 - 15.15 Coffee/Tea Break
15.15 - 16.00 Poster Session III
16.00 - 17.30 Parallel sessions:

Symposia:
Musculoskeletal Disorders and Ergonomic Challenges in Modern Dairy Production: European and US Perspectives.
Organizer(s): DOUPHRATE D.I.

European and US dairy production: challenges of work-related musculoskeletal disorder prevention
DOUPHRATE D.I., KOLSTRUP C., ROSECRANCE J.C., REYNOLDS S.J., LUNDOVIST P., PINZKE S., STÅL M.

Musculoskeletal symptoms among US and Swedish dairy workers
KOLSTRUP C.L., DOUPHRATE D.I., PINZKE S., STÅL M., LUNDOVIST P., ROSECRANCE J.C., REYNOLDS S.J.

Quantifying physical work load in different milking practices
PINZKE S., KOLSTRUP C.

Median nerve entrapment at the elbow level – pronator syndrome - a follow up study after surgical release
STÅL M., HAGERT C.G., ENGLUND J.E.

Carpal tunnel syndrome among US dairy parlor workers
ROSECRANCE J.C., DOUPHRATE D.I., PATIL A.

The role of self-efficacy in the disability prevention framework and the return to work process. Traduit en français
Organizer(s): BROUWER S., BÜLTMANN U.

Development of the return-to-work self-efficacy (RTWSE) questionnaire: psychometric properties and predictive validity
SHAW W.S., LINTON S.J., HUANG Y.H., PRANSKY G.

General and specific self-efficacy reports of patients with chronic low back pain: are they...
related to performances in a functional capacity evaluation?
RENEMAN M.F., GEERTZEN J.H.B., GROOTHOFF J.W., BROUWER S.

Association between self-efficacy and readiness for return-to-work in a cohort of injured workers with work-related musculoskeletal conditions
BROUWER S., FRANCHE R.L., HOGG-JOHNSON S., LEE H., KRAUSE N., SHAW W.

The role of organizational policies and practices in effecting self-efficacy in return to work following carpal tunnel surgery
AMICK B.C., IHA S., KATZ J.

Open session:
Gender differences. Traduit en français
Chair(s):

Exposure-response relationships for work-related musculoskeletal disorders in elbows and hands
NORDANDER C., OHLSSON K., ÅKESSON I., ARVIDSSON I., BALOGH I., HANSSON G.A., STRÖMBERG U., RITTNER R., SKERFVING S.

Gender differences in computer use, musculoskeletal symptoms and perceived stress among young adult students
GUSTAFSSON E., LOVE J., THOMÉE S., EKMAN A., AHLSTRAND C., HAGBERG M.

Sex differences in neck and shoulder strength, muscle activity and responses to fatigue and pain: possible links with WMSD?
CÔTE J.N., RIVEST K., FULLER J.R., PEARSON I., EMMERY K., LOMOND K.V., DE SERRES S.J., DUMAS J.P.

Gender differences in occupational disc-related diseases of the lumbar spine caused by lifting, carrying or extreme trunk flexion in Germany
LATZA U., SEIDLER A., LIEBERS F.

Serious pain related to static work is twice as frequent in female dentists as in male dentist
PROTEAU R.A.

Gender involvement in manual material handling (MMH) tasks in agriculture and resulting musculoskeletal disorders.
SINGH S., RATHORE H., SINWAL N.

Prognosis, recurrence
Chair(s):

Psychosocial risk factors for transition from acute to chronic low back pain in primary health care. review of the literature
RAMOND A., BOUTON C., RICHARD I.

Risk factors for reduced productivity among young adults with musculoskeletal symptoms in neck or upper extremity – a prospective cohort study
BOSTROM M., DELVE L., THOMÉE S., HAGBERG M.

Pressure pain thresholds at different body regions in chronic musculo-skeletal disorders (MSD) vs healthy
NAKATA M., YOSHIZAWA M., YAMADA Y., KAGECHIKA K., ERIKSSON P.O.

Occupational outcome in 2007-2008 of workers suffering from musculoskeletal disorders in the French Pays de la Loire region

Recurrence of low back pain: injured workers’ perspectives
YOUNG A.E., WASIAC R., PHILLIPS J.A., GROSS D.P.

The "Vibrosense®": screening and follow-up of neurological damage by hand-arm vibrations
DUPREZ H.

18.00 Premus Evening (Optional, € 65)
Thursday, 2 September 2010

**Morning Plenary: Two Keynotes**
Francois Daniellou: MSD Prevention: the Organisational Challenge
Philippe Mairiaux: Management of LBP and the working environment.

**Breakfast PREMUS – WDPI**

**Parallel sessions:**

**Symposia:**

**Gender, work activity and MSD: what are the implications for intervention?**
Organizer(s): LABERGE M.
- Women in manual materials handling: a complex question
  AUTHIER M.
- Results and reflections on gender based ergonomic intervention from the Quebec working group of the IEA technical committee on gender and work (QTC)
  LABERGE M., MESSING K.
- Emergence of the theme of gender in ergonomics: overview of the activities and reflections of the European francophone network of the IEA technical committee on gender and work
  CAROLY S.
- Roundtable on gender-based ergonomic intervention to prevent MSD: issues and implications for implementing changes in the workplace
  Chair: DE TROYER M. Panelists: VEZINA N., GLINA D.M.R., LEIJON O., DONIOL-SHAW G.

**Interventions for Reducing Work Absence for Workers with MSK Disorders**
Part II - Update on implementation aspects and on benefits of interventions.
*Traduit en français*
Organizer(s): FRANCHE R.L., MACEACHEN E.
- Cochrane review about workplace interventions for preventing work disability
  VAN OOSTROM S.H., DRIESSEN M.T., DE VET H.C.W., FRANCHE R.L., SCHONSTEIN E., LOISEL P., VAN MECHELEN W., ANEMA J.R.
- A systematic review of disability management interventions with economic evaluations
  TOMPA E., DE OLIVEIRA C., DOLINSCHI R., IRVIN E.
- Coordinated and tailored work rehabilitation: challenges of implementing a cost effective program in an interorganisational setting
  KILSGAARD J., SHERSON D., OLSEN J., HANSEN C.L., LUND T., BÜLTMANN U.

**International perspectives in health-related work outcome measures**
Organizer(s): BÜLTMANN U., AMICK B.
- The cross cultural adaptation of the work role functioning questionnaire to Dutch
  ABMA F.I., AMICK B.C., BROUWER S., VAN DER KLINK J.J.L., BÜLTMANN U.
- The use of work role functioning in evaluating an ergonomic intervention
  AMICK B.C., BAZZANI L., ROBERTSON M., DE RANGO K.
- Work limitations among workers in a manufacturing company in Denmark
  BÜLTMANN U., AMICK B.C., SELL L., HOLTERMANN A., SØGAARD K.
- Measuring work limitations in Brazilian health care workers
  GALLASCH C.H., ALEXANDRE N.M.C.

**Open sessions:**

**Return to work / Tertiary prevention (2). Traduit en français**
Chair(s):
- Determinants for staying at work in people with chronic nonspecific musculoskeletal pain: a systematic review.
  VRIES DE H.J., RENEMAN M.F., GROOTHOFF J.W., GEERTZEN J.H.B., BROUWER S.
- Factors at work acting as buffers against neck/shoulder and low back disorders
  LINDBERG P., LEIJON O., JOSEPHSON M.
- Rehabilitation is seldom prescribed at the initiation of a new sick-leave period - a study on sickness certificates in Sweden
NILSING E., SÖDERBERG E., ÖBERG B.
The impact of health system coverage and benefit design on work incentives and disability prevention.
HIMMELSTEIN J.S., HENRY A.D., GETTENS J.W.
Implementing return to work interventions for workers with low back pain: a conceptual frame to identify barriers and facilitators
FASSIER J.B., DURAND M.J., LOISEL P.

Lower limb disorders
Chair(s):
Standing, kneeling and squatting at work associated with musculoskeletal disorders: meta-analyses.
GOUTTEBARGE V., BOUWMAN C., FRINGS-DRESEN M.H.W., VAN DIEËN J.H., VAN DER BEEK A.J., BURDORF A.
Correlation between different physical exposures and patterns of cartilage damage in the knee
RIEGER M.A., QUIROS PEREA E., GEBHARDT H., LIEBERS F., KLUSSMANN A.
Validity of self-assessed reports and measuring data on work-related knee straining activities – results of a cross sectional study
DITCHEN D.M., ELLEGAST R.P., HARTMANN B., RIEGER M.A.
Work participation, work adaptations, sick leave and self-reported health status in early osteoarthritis. a 2-year follow-up study in the cohort hip and cohort knee (check-study).
BIELEMAN H.J., RENEMAN M.F., DROSSAERS-BAKKER K.W., GROOTHOFF J.W., OOSTERVELD F.G.J.
Predictors for knee osteoarthritis - results of the case control study "ARGON"
KLUSSMANN A., GEBHARDT H., LIEBERS F., VON ENGELHARDT L.V., QUIROS E., DAVID A., BOUILLON B., RIEGER M.A.
Occupational physical activity and meniscal tears: a review of the epidemiological literature
RYTTER S., KIRKESKOV L.

12.00 - 12.15 Best poster Award
Winners of the SJWEH best paper competition

12.15 - 12.40 Closing Remarks
Next Premus Presentation

12.40 Lunch basket
Poster sessions

Posters will be on display from Monday morning till Wednesday afternoon; however, presenters will be standing next to their posters only at the three assigned times.

Biomechanics

PA01 Evaluating bicycle design using SEMG to study muscle fatigue
JAGANNATH M., ADALARASU K., BALASUBRAMANIAN V.

PA02 Upper-extremity muscle activity during flowers cutting and packing in a Colombian working population

PA03 EMG-ANT – A software package for analysis and comparison of surface electromyography data in occupational medicine
BORCH H., EINSIEDLER K., RIEGER M.A.

PA04 Change of electrogoniometric and torsiometric sensors accuracy with usage.
CARNAZ L., MORIGUCHI C.S., GIL COURY H.J.C.

PA05 Protocol for evaluating trunk movement during lifting tasks performed in real work situation
CASTILLO J.A., OROZCO A.

PA06 Effect of backpack weight on postural angles in Thai school children
CHAIKUMARN M.

PA07 Are experienced workers more stable when handling loads?
DELISLE A., PLAMONDON A., SALAZAR E., DENIS D. and THE MANU GROUP

PA08 Experienced manual materials handlers are more efficient to reduce lumbar spine loading
GAGNON D., PLAMONDON A., SALAZAR E., DELISLE A., DENIS D., LARIVIERE C., ST-VINCENT M., NASTASIA I.

PA09 Can we identify workers at risk of developing knee OA using gait kinematic parameters?
GAUDREAUT N., VILLALOBOS E., HAGEMEISTER N., DEGUISE J.

PA10 Comprehensive analysis of the painful trapezius muscle using a proteomic method
HADREVI J., GHAFOURI B., GERMEL B., LARSSON B., PEDROSA-DOMELLÖF F., HELLSTRÖM F.

PA11 Upper limb musculoskeletal disorder prevention: an application to wheelchair prescription and configuration
LOUIS N., GORCE P.

PA12 Changes in sitting posture during computer work
MADELEINE P., SVENDSEN J.H., SAMANI A.

PA13 Effect of ergonomic school furniture properties on the sitting posture of child
GERONIMI M., HAMAOUI A.

PA14 Evaluation of muscle activity, forces, stresses, and moments at the knee during kneeling and squatting tasks
MOORE S.M., POLLARD J.P., PORTER W.L., GALLAGHER S., MAYTON A.G.

PA15 Effect of four different gloves on maximal grip force of sugar cane cutters
SILVÉRIO O.L., OLIVEIRA A.B.

PA16 Development of low frequency fatigue in low-load repetitive wrist movements investigated with a servo-controlled motor system
TURTURICI M., D'ERRICO A., PIERRO M., ROATTA S.

PA17 Small influence of chronic pain and no influence of mood on vibrotactile perception thresholds among working women
SANDEN H., GUNNAR WALLIN B., HAGBERG M.

PA18 Evaluation of wrist, forearm and elbow range of motion during box handling at a regular and an ergonomically designed support
SILVA L.C.C.B., OLIVEIRA A.B., ALEM M.E.R., GIL COURY H.J.C.

PA19 Electrical assisted bicycle for postmen: consequences on physiological responses and cognitive performances.
THEUREL J., THEUREL A., LEPERS R.

PA20 Normalization techniques used in electromyographic evaluations of ergonomic interventions
WALLACE W.N., ROSECRAINE J.C., DOUPHRATE D.I.

PA21 Effect of lifting condition on the box trajectory variability
YOON J.
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Exposure measurement methods

PB01 OREGE, a relevant analysis tool for evaluating biomechanical stresses in various work situations
CAIL F., AUBLET-CUVELIER A., RENO G.

PB02 Validation of a general injury prediction algorithm
CAMPBELL-KYUREGHYAN N., AHMED M., COOPER K.

PB03 An approach to combining predetermined time analysis with ergonomic evaluation at assembly line design stage
CLAUDON L., MARSOJ.

PB04 Work related shoulder loads: establishment of a job exposure matrix
ANDERSEN A.D., SVENDSEN S.W., FROST P., HANSSON G.A., ANDERSEN J.H.

PB05 To increase the awareness of primary care physicians regarding the occupational part of some diseases. The example of MSD to improve their professional practices.
LANOT S., DELEPINE A., ZANA J.P.

PB06 Associating biomechanics and auto-confrontation for a better understanding of the movement made
AUBLET-CUVELIER A., GAUDEZ C., LEVESQUE S., WIOLAND L.

PB07 Evaluation of ergonomic postures of assembling unit workers by rapid upper limb assessment (RULA)
GHASEMKHANI M., AZAM K., ATEN S.

PB08 Integrated assessment of physical stress (IAD-BKB)
GHEZEL-AHMADI K., SCHAUB K., BRUDER R.

PB09 Ergonomics hazards evaluation of the visual inspection process in the light emitting diode industry
CHI-LING H., CHIH-WEI L.

PB10 Development of a workstyle observation protocol - a part of an instrument for assessment of cash-register work (BASIK)
JOHANSSON E., PALM P., KJELLBERG K., JOSEPHSON M.

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