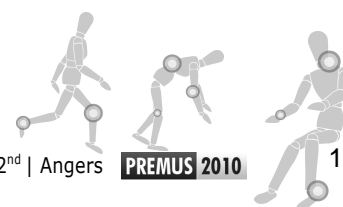


**PROGRAM AT A GLANCE**

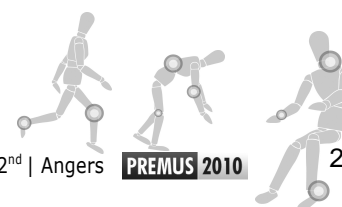
**Monday, 30 August 2010**

Time	<b>BODIN</b> (ground floor) <i>Traduit en français</i>	<b>VOLNEY</b> (ground floor) <i>Traduit en français</i>	<b>LAGON</b> (third floor)	<b>TAMARIS</b> (third floor)	<b>AMANDE</b> (third floor)
8.00 - 8.45	<b>Check-In and Registration</b>				
8.45 - 9.15	<b>Opening Session, Official Welcome</b>	<b>Broadcast of the BODIN amphitheater</b> <i>(Retransmission non traduite)</i>			
9.15 - 10.45	<b>Morning plenary</b> Two keynotes: Vézina, Amick				
10.45 - 11.15	<b>Coffee/Tea Break</b>				
11.15 - 12.45	<b>Epidemiology of the neck and upper limb (1)</b> EVANOFF BOOCOCK FRANZBLAU ROSECRANCE SHIRI NYMAN	<b>Rationalization trends in working life: challenges and opportunities to create sustainable production systems (part I)</b> WESTGAARD ARMSTRONG ANDERSEN ROLANDER JONKER	<b>Dynamics of work-related musculoskeletal disorders (MSDs): long-term trends and life course approach</b> LEIJON STEENSTRA FRILANDER MIRANDA KRISTENSEN	<b>Economic aspects</b> IRVIN UEGAKI SPEKLÉ LIPSCOMB MOORE DAVIS	<b>Exposure measurement methods (1)</b> ØSTENSVIK MEYER HOEHNE- HUECKSTAEDT DALE ATAIN-KOUADIO FORSMAN
12.45 - 14.15	<b>Lunch</b>				
14.15 - 15.45	<b>Surveillance and prevention policies</b> BLATTER SOMVILLE OCHSMANN PARK STOCK SILVERSTEIN	<b>Rationalization trends in working life: challenges and opportunities to create sustainable production systems (part II)</b> ARVIDSSON FORSMAN JAREBRANT CAROLY	<b>Health and safety in the construction industry - Part 1</b> BOSCHMAN KIRKESKOV LIPSCOMB GOUTTEBERGE DALE	<b>Prevention: education, training, lifestyle</b> CHRISTENSEN GRAM ZEBIS GROSS CIRIELLO SIMONET	<b>Exposure measurement methods (2)</b> MATHIASSEN LIV KUROWSKI SEMBAJWE TAYLOR-GARDNER BAKER
15.45 - 16.00	<b>Coffee/Tea Break</b>				
16.00 - 16.45	<b>Poster Session I</b>				
16.45 - 18.15	<b>Health care sector (1)</b> BOYER GARG GROOTEN MYERS PRAIRIE CARRASQUILLO	<b>Early prevention, work organization and participative approaches</b> OUELLET DRIESSEN DUGUE BUCHMANN KRAMER	<b>Health and safety in the construction industry - Part 2</b> OUDE-HENGEL REMPEL VAN DER MOLEN WELCH LAHIRI	<b>Computer work (1)</b> ODELL RICHTER GOLD HAN DELISLE WANG	<b>Oxygenation and hemodynamics for repetitive work and muscle pain</b> ELCADI JENSEN HALLMAN STRØM CRENSHAW MAIKALA
19.00	<b>Aperitif at Jean Lurçat Museum</b>				



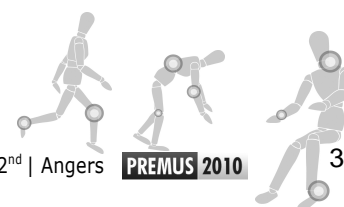
**Tuesday, 31 August 2010**

Time	<b>BODIN</b> (ground floor) <i>Traduit en français</i>	<b>VOLNEY</b> (ground floor) <i>Traduit en français</i>	<b>LAGON</b> (third floor)	<b>TAMARIS</b> (third floor)	<b>AMANDE</b> (third floor)
8.30 - 10.00	<b>Morning plenary</b> Two keynotes: Silverstein, Sjogaard	<b>Broadcast of the BODIN amphitheater</b> (Retransmission non traduite)			
10.00 - 10.10	<b>Supporters' speeches</b>				
10.10 - 10.30	<b>Coffee/Tea Break</b>				
10.30 - 12.00	<b>Epidemiology of the neck and upper limb (2)</b> PALMER GOLD JAEGER FROST SVENDSEN SEIDLER	<b>NIOSH Upper Extremity Musculoskeletal Disorder Consortium Studies</b> BURT SILVERSTEIN HARRIS HEGMANN GARG EVANOFF	<b>Pain and Movement</b> VEIERSTED COTE MADELEINE VOLLENBROEK- HUTTEN HOLTERMANN	<b>Prevention in various sectors</b> TAKALA KAPELLUSCH IRVIN ROBERTSON LINDEGÅRD	<b>Physical exposure</b> STEVENSON PLAMONDON HANSSON MARSHALL YOON
12.00 - 13.30	<b>Lunch</b>				
13.30 - 15.00	<b>Surveillance of work-related musculoskeletal disorders: How? By and for whom? How is it linked to prevention?</b> STOCK SILVERSTEIN HA	<b>Methods for risk analysis in practice</b> HERMANS DOUWES STEINBERG GRAY FERREIRA WATERS	<b>Health care sector (2)</b> JÄGER NYANTUMBU KOPPELAAR SCHOENFISCH FRAY SZETO	<b>Computer work (2)</b> WAERSTED HUYSMANS VAN EERD SPEKLÉ BRUNO ASUNDI	<b>Round table discussion part I. Classification of musculoskeletal disorders in occupational health practice and research</b> SLUITER
15.00 - 15.15	<b>Coffee/Tea Break</b>				
15.15 - 16.00	<b>Poster Session II</b>				<b>Round table: Mobilization / participation of stakeholders for sustainable MSD prevention</b> CAROLY
16.00 - 17.30	<b>Evaluation of interventions designed to prevent MSDs: Theories and strategies</b> COUTAREL WELLS DURAND VAN DER BEEK BERTHELETTE	<b>Work ability, physical fitness</b> ÖBERG SOER KUIJER PLAT KIM	<b>Biomechanics</b> FISCHER LEWIS TOMATIS VEIERSTED LIN HANVOLD	<b>Musculoskeletal disorders in specific sectors</b> BALOGH DOUPHRAE SANDFELD GARRABE WAHLSTRÖM MAJOR	<b>Round table discussion part II. Classification of musculoskeletal disorders in occupational health practice and research</b> SLUITER
17.30 - 19.30			<b>Annual meeting ICOH PREMUS scientific committee</b>	<b>Workshop: How to read and write Cochrane Systematic Reviews?</b> VERBEEK	
18.00 - 20.00	<b>Angers Guided Tour (Optional, € 6)</b>				



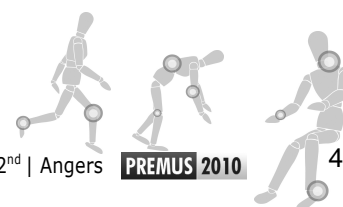
**Wednesday, 1 September 2010**

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



**Thursday, 2 September 2010**

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



## DETAILED PROGRAM

Sunday, 29 August 2010

9.00 – 12.00 Parallel workshops:

**Lecture room 312 (Third floor)****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

**Lecture room 313 (Third floor)**

**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, Jérôme CHARDEYRON, Alain PIETTE, Rose-Ange PROTEAU, Adnene HENCHI, Ana Maria GUTIERREZ STRAUSS.

Langue : Français

12.00 – 13.00 Break (lunch not provided)

13.00 – 16.00 Parallel workshops:

**Lecture room 312 (Third floor)**

**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, Alexis DESCATHA

Language: English

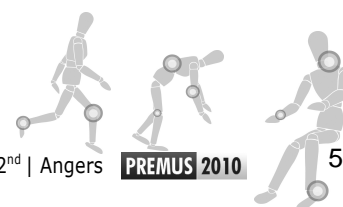
**Lecture room 313 (Third floor)**

**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

**BODIN Amphitheater (Ground floor – Traduit en français)**8.45 - 9.15 **Opening Session, Official Welcome**

Plenary chair(s): *Dr Paul KUIJER, secretary of the Musculoskeletal scientific committee of the ICOH*

*Prof Yves ROQUELAURE, PREMUS 2010 Organizing Committee*

*Prof Jean-Louis FERRIER, Vice – President of the University of Angers*

*Prof Jean-Paul SAINT-ANDRE, Dean of the Faculty of Medicine of Angers*

*Mr Yvonnick MORICE, Director of the University Hospital of Angers*

*Dr Françoise WEBER, Director of the French Institute for Public Health surveillance*

9.15 - 10.45 **Morning Plenary: Two Keynotes**

Plenary chair(s): *MAIRIAUX P.*

**Nicole VÉZINA:** The evolution of our representations of WMSDs: 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:**

**BODIN Amphitheater (Ground floor – Traduit en français)****Epidemiology of the neck and upper limb (1)**

Open session chair(s): *LEINO-ARJAS P., NAKATA M.*

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., HELIÖVAARA M., MOILANEN L., VIKARI J., LIIRA H., VIKARI-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.*

**VOLNEY Amphitheater (Ground floor – Traduit en français)****Rationalization trends in working life: challenges and opportunities to create sustainable production systems (part I)**

Symposium organizer(s): *WINKEL J.*

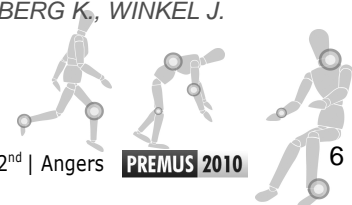
Occupational musculoskeletal and mental health: significance of rationalization and opportunities to create sustainable production systems – a systematic review  
*WESTGAARD R.H., WINKEL J.*

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.*



**LAGON Amphitheater (Third floor)****Dynamics of work-related musculoskeletal disorders (MSDs): long-term trends and life course approach***Symposium 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 L., 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., VIIKARI-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., VIIKARI-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.**TAMARIN Amphitheater (Third floor)****Economic aspects***Open session chair(s): BURDORF A., DANIELLOU F.*

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

SPEKLÉ E.M., HEINRICH J., HOOZEMANS M.J.M., BLATTER B.M., VAN DER BEEK A.J., VAN DIEËN J.H., VAN TULDER M.

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

LIPSCOMB H.J., SCHOENFISCH A.L., MYERS D.J., POMPEII L.A., DEMENT J.M.

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.**AMANDE Amphitheater (Third floor)****Exposure measurement methods (1)***Open session chair(s): LAUBLI T., COUTAREL F.*

Long periods with sustained trapezius muscle activity and neck pain

ØSTENSVIK 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.

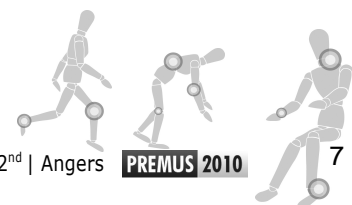
Variability of observed upper extremity physical exposures among different job types

DALE A.M., JAEGER L.A., EVANOFF B.A.

Operational validity of CAPTMS design tool for assessing musculoskeletal disorder risk

ATAIN KOUADIO J.J., AUBLET-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:**

### **BODIN Amphitheater (Ground floor – Traduit en français)**

#### **Surveillance and prevention policies.**

*Open session 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., EECKELAERT L.E., TREUTLEIN D., KRAKER H., PAWLOWSKA Z., ROMAN-LIU D., HOLLANDER A.

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 insureds of the statutory health insurances in Germany

OCHSMANN E.B., ESCOBAR L.C., KRAUS T., LETZEL S., MUENSTER 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.

WMSD Surveillance using WC data

SILVERSTEIN B., ADAMS D.

### **VOLNEY Amphitheater (Ground floor – Traduit en français)**

#### **Rationalization trends in working life: challenges and opportunities to create sustainable production systems (part II).**

*Symposium 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.

### **LAGON Amphitheater (Third floor)**

#### **Health and safety in the construction industry - Part 1: work demands and related health problems.**

*Symposium 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.

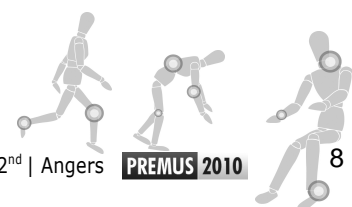
Factors associated with delayed return to work after back injury among residential union carpenters.

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.



**TAMARIN Amphitheater (Third floor)****Prevention: education, training, lifestyle**

Oral session chair(s): VAN DER BEEK A., RAAB GLINA D.M.

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.

GRAMB., 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., SAVESCU A., GAUDEZ C., AUBLET-CUVELIER A.

**AMANDE Amphitheater (Third floor)****Exposure measurement methods (2)**

Open session chair(s): TAKALA E.P., D'ERRICO A.

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

TAYLOR-GARDNER B.T., LOMBARDI D.A., DALE A.M., FRANZBLAU A., EVANOFF B.A.

The accuracy of self-report in determining computer use duration

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

15.45 - 16.00 Coffee/Tea Break

16.00 - 16.45 **Poster Session I**

16.45 - 18.15 **Parallel sessions:**

**BODIN Amphitheater (Ground floor – Traduit en français)****Health care sector (1)**

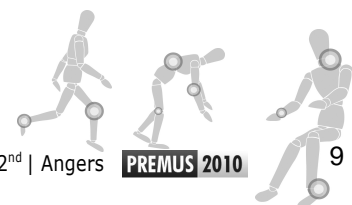
Open session chair(s): PALMER K., BONFIGLIOLA R.

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

BOYER J., TESSLER J., PARK J., PUNNETT L. and the promoting healthy and safe employment in healthcare team.

Work-related musculoskeletal disorders and prevention among home healthcare workers

GARG A., HEGMANN K., KAPELLUSCH 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.

### **VOLNEY Amphitheater (Ground floor – Traduit en français)**

#### **Early prevention, work organization and participative approaches**

*Symposium chair(s):* EVANOFF B., 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.  
DRIESSEN 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 WMSDs 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 (MSDs).  
KRAMER D.M., CARLAN N., WELLS R.P., BIGELOW P., VI P., GARRITANO E.

### **LAGON Amphitheater (Third floor)**

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

*Symposium 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.

### **TAMARIN Amphitheater (Third floor)**

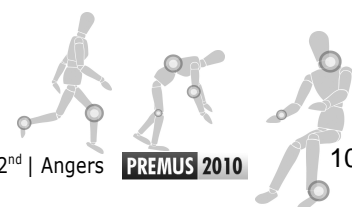
#### **Computer work (1)**

*Open session chair(s):* VEIERSTED M., CAIL F.

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., SLIJPER H.P., FRENS 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.

#### AMANDE Amphitheater (Third floor)

##### Oxygenation and hemodynamics for repetitive work and muscle pain.

Symposium organizer(s): CRENSHAW A.G.

Gender differences in the forearm for the oxygenation and myoelectric activity relation, muscle blood flow and oxygen consumption

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.

STRØM V., KNARDAHL S.

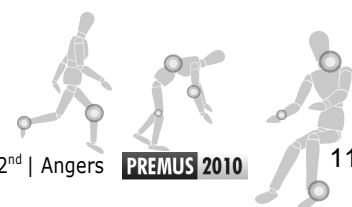
Forearm oxygen delivery, consumption and blood flow before and after fatigue in subjects experiencing work related muscle pain and healthy controls

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.

19.00 *Aperitif at Jean Lurçat Museum (Optional, free)*



## Tuesday, 31 August 2010

**BODIN Amphitheater (Ground floor – Traduit en français)**8.30 - 10.00 **Morning Plenary: Two Keynotes***Plenary chair(s): VIIKARI-JUNTURA E.***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 SJOGAARD:** Mechanisms in muscle activity: contrasting effects on health10.00 - 10.10 **Supporters' speeches****Mr Stéphane PIMBERT,** Director of the National Institute of Safety and Health at Work10.10 - 10.30 *Coffee/Tea Break*10.30 - 12.00 **Parallel sessions:****BODIN Amphitheater (Ground floor – Traduit en français)****Epidemiology of the neck and upper limb (2)***Open session chair(s): LEIJON O., SHIRI R.*

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., SVENDSEN S.W., JOHNSEN B., FUGLSANG-FREDERIKSEN A.*

Ulnar neuropathy in relation to mechanical exposures assessed by a job exposure matrix: case-referent study

*SVENDSEN S.W., FROST P., JOHNSEN 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.***VOLNEY Amphitheater (Ground floor – Traduit en français)****NIOSH Upper Extremity Musculoskeletal Disorder Consortium Studies***Symposium organizer(s): BURT S.*

Carpal tunnel syndrome at 3 workplaces – job and individual factors

*BURT S., CROMBIE K., RAMSEY J., WURZELBACHER S., JIN Y., DEDDENS J.*

Prospective study of rotator cuff, epicondylitis and carpal tunnel syndrome in 12 US workplaces

*SILVERSTEIN B.A., FAN Z.J., BAO S.S., SMITH C.K., BONAUTO D.K., HOWARD N., VIIKARI-JUNTURA E.*

Workplace and individual factors and wrist tendonitis: the San Francisco Study

*HARRIS C., EISEN E., GOLDBERG R., KRAUSE N., REMPEL D.*

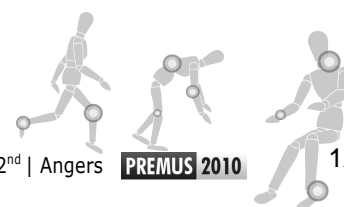
Risk factors for lateral epicondylalgia from a 7-year prospective cohort study

*HEGMANN K.T., GARG A., THIESE M.S., KAPELLUSCH J., WOOD E., DECKOW-SCHAEFER G., BLOSWICK D., MERRYWEATHER A., MOORE J.S.*

Individual, psychosocial and job physical risk factors for CTS: results from a 7-year prospective cohort study

*GARG A., HEGMANN K., WERTSCH J., KAPELLUSCH 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.*

**LAGON Amphitheater (Third floor)****Pain and Movement**

Symposium 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.

**TAMARIN Amphitheater (Third floor)****Prevention in various sectors**

Open session chair(s): GIL COURY H., SAINT-VINCENT M.

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

IRVIN E.L., KENNEDY C.A., AMICK B.C., DENNERLEIN J.T., BREWER S., SERRA C., GERR F., FRANZBLAU A., VAN EERD D., MAHOOD Q., WILLIAMS R., EVANOFF B., REMPEL D.

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.Å.

**AMANDE Amphitheater (Third floor)****Physical exposure**

Open session chair(s): LIPSCOMB H., PIETTE A.

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.Å., BALOGH I., OHLSSON K., GRANQVIST L., NORDANDER C., ARVIDSSON I., ÅKESSON 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

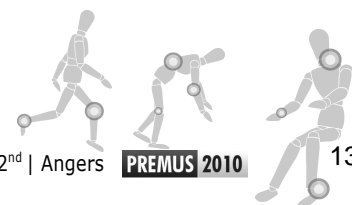
YOON J.

12.00 - 13.30 Lunch

13.30 - 15.00 **Parallel sessions:**

**BODIN Amphitheater (Ground floor – Traduit en français)****Surveillance of work-related musculoskeletal disorders: How? By and for whom? How is it linked to prevention?**

Symposium 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.

Roundtable on the use of surveillance data to orient prevention activities

SILVERSTEIN B., ROQUELAURE Y., ÉTIENNE P., OCHSMANN E., VOGEL L.

### **VOLNEY Amphitheater (Ground floor – Traduit en français)**

#### **Methods for risk analysis in practice**

*Symposium 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.

### **LAGON Amphitheater (Third floor)**

#### **Health care sector (2).**

*Open session chair(s): STEENSTRA I., BERTHELETTE D.*

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.

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.

### **TAMARIN Amphitheater (Third floor)**

#### **Computer work (2)**

*Open session chair(s): GOLD J., BLATTER B.*

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 Quicksan in computer workers

SPEKLÉ 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.

#### AMANDE Amphitheater (Third floor)

**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.

15.00 - 15.15 Coffee/Tea Break

15.15 - 16.00 **Poster Session II**

#### AMANDE Amphitheater (Third floor)

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

16.00 - 17.30 **Parallel sessions:**

#### BODIN Amphitheater (Ground floor – Traduit en français)

**Evaluation of interventions designed to prevent MSD: Theories and strategies**

Symposium 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.

#### VOLNEY Amphitheater (Ground floor – Traduit en français)

**Work ability, physical fitness**

Open session chair(s): KANG D., RICHARD I.

What explains return to work and work ability- an analysis of expectations, health and disability variables

ÖBERG B., BENRFORT L., WÅHLIN 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

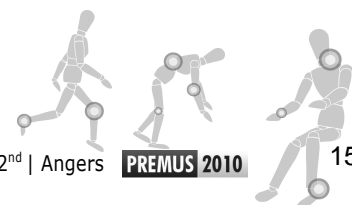
KUIJER P.P.F.M., GOUTTEBARGE V., WIND H., SLUITER J.K., FRINGS-DRESEN M.H.W.

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

KIM Y.H., YANG D.J., KANG D.M., KIM Y.K., MOON J.I.



**LAGON Amphitheater (Third floor)****Biomechanics**

Open session chair(s): SOGAARD K., APTEL M.

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., MÜLLER C., NAKASEKO M., LÄUBLI T.

Comparison of time and level based EMG parameters for assessments of muscle activity patterns

VEIERSTED K.B., FORSMAN 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.

**TAMARIN Amphitheater (Third floor)****Musculoskeletal disorders in specific sectors**

Open session chair(s): ROCHA L., SZETO G.

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.

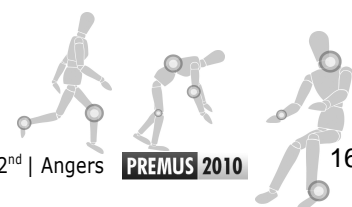
**AMANDE Amphitheater (Third floor)****Round table discussion part II. Classification of musculoskeletal disorders in occupational health practice and research: needed in the future to address sustainable musculoskeletal health and related work ability?**

Organizer: SLUITER J.

17.30 - 19.30 **LAGON Amphitheater (Third floor)**  
**Annual meeting ICOH PREMUS scientific committee**

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

18.00 - 20.00 Angers Guided Tour (Optional, € 6)



## Wednesday, 1 September 2010

**BODIN Amphitheater (Ground floor – Traduit en français)**8.30 - 10.00 **Morning Plenary: Two Keynotes***Plenary chair(s): KUIJER P.***Eira VIIKARI-JUNTURA:** Lifestyle factors in musculoskeletal disorders (MSDs) – Implications for research**David REMPEL:** Prevention of carpal tunnel syndrome: lessons from physiologic studies10.00 - 10.10 **Supporters' speeches**10.10 - 10.30 *Coffee/Tea Break*10.30 - 12.00 **Parallel sessions:****BODIN Amphitheater (Ground floor – Traduit en français)****Measuring effects of interventions***Open session chair(s): CHARDEYRON J., BURDORF A.*

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.*

Workplace interventions for neck pain in workers. a systematic review

*AAS R.W., TUNTLAND H., HOLTE K.A., RØE C., LUND T., MARKLUND S., MOLLER A., LABRIOLA M., SKAUGEN B.H.*

Participatory ergonomics: evidence on effectiveness and implementation

*VAN EERD D., COLE D.C., KEOWN K., IRVIN E.***VOLNEY Amphitheater (Ground floor – Traduit en français)****Low back pain: effect of work exposures, lifestyle and individual factors***Symposium 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.*

Does obesity cause low back pain?

*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

*HUNG Y.J., SHIH T.T.F., CHEN B.B., CHEN C.H., MA L.P., HWANG Y.H., YANG S.H., HSU H.C., WANG T.M., LIOU S.H., GUO Y.L.***LAGON Amphitheater (Third floor)****Return to work / Tertiary prevention (1)***Open session chair(s): FASSIER J.B., BULTMANN U.*

Developing a guide for measuring the concept of margin of manoeuvre

*DURAND M.J., VÉZINA 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., LANCMAN S.*

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

*KLIPSTEIN A., LAEUBLI T., CANJUGA M., JORONEN H., NORBERG M., DANUSER B.*

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.

### TAMARIN Amphitheater (Third floor)

#### Musculoskeletal disorders at a population level

Open session chair(s): PARK J., FRINGS-DRESEN M.

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.

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., KRIEG E.F.

Towards a consolidated measure of the physical, organisational and psychosocial risk factors for work-related musculoskeletal disorders.

LÄUBLI 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.

### AMANDE Amphitheater (Third floor)

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

Symposium 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.

SØGAARD K., JØRGENSEN M.B., GRAM B., CHRISTENSEN J.R., FABER A., OVERGAARD K., EKTOR-ANDERSEN J., MORTENSEN O.S., SJØGAARD G., HOLTERMANN A.

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.

12.00 - 13.30 Lunch

13.30 - 15.00 Parallel sessions:

### BODIN Amphitheater (Ground floor – Traduit en français)

#### Interventions for Reducing Work Absence for Workers with MSK Disorders Part I - Innovations and New Developments

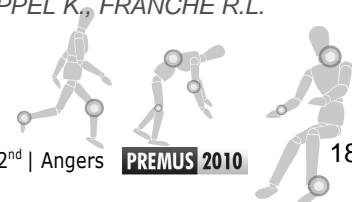
Symposium organizer(s): FRANCHE R.L., MACEACHEN E.

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.

### **VOLNEY Amphitheater (Ground floor – Traduit en français)**

#### **Psychosocial factors**

Open session chair(s): SEMBAJWE G., MIRANDA H.

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.

### **LAGON Amphitheater (Third floor)**

#### **Different aspect of the prognosis of musculoskeletal disorders in occupational settings: example of the carpal tunnel syndrome**

Symposium 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.

PAROT-SCHINKEL E., ROQUELAURE Y., HA C., LECLERC A., CHASTANG J.F., DESCATHA A., RAIMBEAU G., CHAISE F.

Prognosis for return to work in carpal tunnel syndrome: a north American perspective

PRANSKY G.

### **TAMARIN Amphitheater (Third floor)**

#### **Multisite pain: risk factors and consequences for work ability**

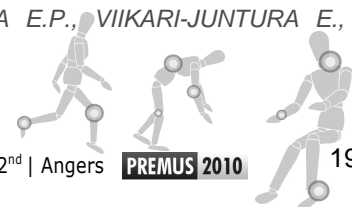
Symposium organizer(s): LEINO-ARJAS P.

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., TAANILA 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., TAKALA E.P., VIIKARI-JUNTURA E.



RIIHIMÄKI 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

MARKKULA R., KALSO E., HUUNAN-SEPPÄLÄ A., KOSKENVUO M., KOSKENVUO K., LEINO-ARJAS P., KAPRIO J.

### AMANDE Amphitheater (Third floor)

#### Biology and mechanisms

Open session chair(s): MADELEINE P., WAERSTED K.B.

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.

SHELL E., THEORELL T., HASSON D., ARNETZ B., SARASTE H.

15.00 - 15.15 Coffee/Tea Break

15.15 - 16.00 Poster Session III

16.00 - 17.30 Parallel sessions:

### BODIN Amphitheater (Ground floor – Traduit en français)

#### Gender differences

Open session chair(s): PUNNETT L., CAROLI 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.Å., STRÖMBERG U., RITTNER R., SKERFVING S.

Gender differences in computer use, musculoskeletal symptoms and perceived stress among young adult students

GUSTAFSSON E., LÖVE 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?

COTE J.N., RIVEST K., FULLER J.R., PEARSON I., EMERY 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

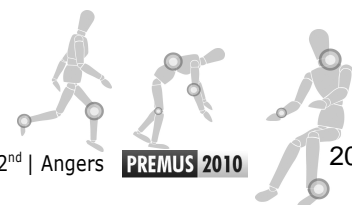
PROTEAU R.A.

Gender involvement in manual material handling (MMH) tasks in agriculture and resulting musculoskeletal disorders.

SINGH S., RATHORE H., SINWAL N.

### VOLNEY Amphitheater (Ground floor – Traduit en français)

#### The role of self-efficacy in the disability prevention framework and the return to work process



Symposium 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.*

### LAGON Amphitheater (Third floor)

#### Prognosis, recurrence

Open session chair(s): *REMPEL D., NYMANN T.*

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

*BOSTRÖM M., DELLVE 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.*

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

*SERAZIN C., BODIN J., HA C., TASSY V., TOURANCHET A., BIDRON P., MERITET F., LEDENVIC B., LEROUX F., MAZOYER A., IMBERNON E., ROQUELAURE Y.*

Recurrence of low back pain: injured workers' perspectives

*YOUNG A.E., WASIAK R., PHILLIPS L.A., GROSS D.P.*

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

*DUPREZ H.*

### TAMARIN Amphitheater (Third floor)

#### Musculoskeletal Disorders and Ergonomic Challenges in Modern Dairy Production: European and US Perspectives

Symposium 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., LUNDQVIST P., PINSKE S., STÅL M.*

Musculoskeletal symptoms among US and Swedish dairy workers

*KOLSTRUP C.L., DOUPHRATE D.I., PINZKE S., STÅL M., LUNDQVIST P., ROSECRANCE J.C., REYNOLDS S.J.*

Quantifying physical work load in different milking practices

*PINZKE S., KOLSTRUP C.*

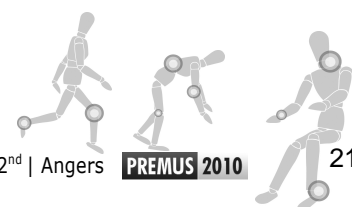
Median nerve entrapment at the elbow level – pronator syndrome - a follow up study after surgical release

*STÅL M., HAGERT C.G., ENGLUND J.E.*

Carpal tunnel syndrome among US dairy parlor workers

*ROSECRANCE J.C., DOUPHRATE D.I., PATIL A.*

18.00 Premus Evening (Optional, € 65)



## Thursday, 2 September 2010

**BODIN Amphitheater (Ground floor – Traduit en français)**8.30 - 10.00 **Morning Plenary: Two Keynotes***Plenary chair(s): VEZINA N.***François DANIELLOU:** MSD Prevention: the Organisational Challenge**Philippe MAIRIAUX:** Management of LBP and the working environment.10.00 - 10.30 *Breakfast PREMUS – WDPI*10.30 - 12.00 **Parallel sessions:****BODIN Amphitheater (Ground floor – Traduit en français)****Interventions for Reducing Work Absence for Workers with MSK Disorders Part II - Update on implementation aspects and on benefits of interventions***Symposium 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.***VOLNEY Amphitheater (Ground floor – Traduit en français)****Return to work / Tertiary prevention (2)***Open session chair(s): COGGON D., ALEXANDRE N.*

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.***LAGON Amphitheater (Third floor)****International perspectives in health-related work outcome measures***Symposium 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.*

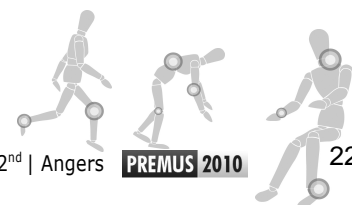
Work limitations among workers in a manufacturing company in Denmark

*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.***TAMARIN Amphitheater (Third floor)****Gender, work activity and MSD: what are the implications for intervention?***Symposium organizer(s): LABERGE M., CAROLY S., STOCK S.*

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

DE TROYER M. Panelists: VEZINA N., GLINA D.M.R., LEIJON O., DONIOL-SHAW G.

**AMANDE Amphitheater (Third floor)****Lower limb disorders**

Open session chair(s): BOOCOCK M., KIRKESKOV L.

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.**BODIN Amphitheater (Ground floor – Traduit en français)****12.00 - 12.40 Closing ceremony**

Plenary chair(s): Prof. Laura PUNNETT, President of the Musculoskeletal Scientific Committee of the ICOH

**Best poster Award****Winners of the SJWEH best paper competition****Closing Remarks**

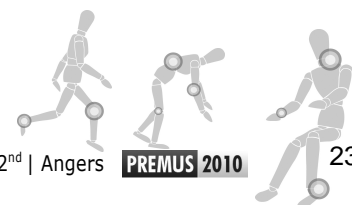
Mr Jean-Denis COMBEXELLE, General Director of Work, French Ministry of Work

Mrs Annette LECLERC, PREMUS 2010 Organizing Committee

**Next Premus Presentation**

Dr Dong Mug KANG, PREMUS 2013 Organizing Committee

12.40 Lunch basket



## Poster sessions

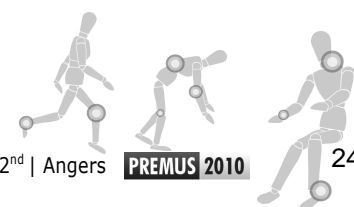
Posters will be on display from Monday morning till Wednesday afternoon; however, presenters will be standing next to their posters only at the three assigned times.

### 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  
BARRERO L.H., RODRÍGUEZ L.E., SUAREZ N., CAMACHO A.M., CEBALLOS C., QUINTANA L.A., DENNERLEIN J.T.
- 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 torsionometric sensors accuracy with usage.  
CARNAZ L., MORIGUCHI C.S., GIL COURRY 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., LARIVIÈRE C., ST-VINCENT M., NASTASIA I.
- PA09 Can we identify workers at risk of developing knee OA using gait kinematic parameters?  
GAUDREAULT N., VILLALOBOS E., HAGEMEISTER N., DEGUISE J.
- PA10 Comprehensive analysis of the painful trapezius muscle using a proteomic method  
HADREVI J., GHAFOURI B., GERDLE 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., HAMAOU I.
- 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  
SANDÉN 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 COURRY 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., ROSECRANCE J.C., DOUPHRATE D.I.
- PA21 Effect of lifting condition on the box trajectory variability  
YOON J.

### Exposure measurement methods

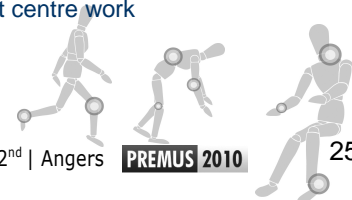
- PB01 OREGÉ, a relevant analysis tool for evaluating biomechanical stresses in various work situations  
CAIL F., AUBLET-CUVELIER A., RENO G.



- 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., MARSOT J.*
- PB04 Work related shoulder loads: establishment of a job exposure matrix  
*ANDERSEN A.D., SVENDSEN S.W., FROST P., HANSSON G.Å., 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)  
*GHAEMKHANDI 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.*
- PB11 Development of a workstyle questionnaire - a part of an instrument for assessment of cash-register work (BASIK)  
*KJELLBERG K., PALM P., JOHANSSON E., JOSEPHSON M.*
- PB12 Validation of the german key indicator method "manual operations" regarding identification of musculoskeletal health risks  
*LIEBERS F., STEINBERG U.*
- PB13 MSD risk factors in rodworking: a task based analysis  
*MOORE A.E., SHANAHAN C., VI P., SALAS E.A., GARRITANO E.*
- PB14 The feasibility of using video tracking for studying arm movements in cash-register work, a pilot field study  
*PALM P., HELGESSON M., LAMPA E., KJELLBERG K., JOHANSSON E., JOSEPHSON M.*
- PB15 Exposure assessment of musculoskeletal disorder risk factors in non-routinized work: a newly revised path tool  
*PARK J.K., HAN Y.S.*
- PB16 Risk assessment of upper limb work-related musculoskeletal disorders (UL-WMSDS) in repetitive tasks by OCRA method  
*POURMAHABADIAN M., RAZZAGHINIA N., POURMAHABADIAN H.*
- PB17 Risk evaluation of developing distal upper extremity disorders by strain index method in an assembling electronic industry.  
*POURMAHABADIAN M., SADEGHI-NAEENI H.*
- PB18 Prevention of MSDs: self-perception in time and space with digital simulation of work.  
*NAHON P., GUILLOUX V., FORTINEAU E.*
- PB19 Occupational repetitive actions index (OCRA) application for a job rotation plan  
*SATO T.O., KOMATSU M.O., MARTINS K.C., FRANCISCO K.R., ALEM M.E.R.*
- PB20 WRULMSDs risk factors identification: risk assessment contributes in an automotive plant  
*SERRANHEIRA F., SOUSA-UVA A.*

## Physical exposure

- PC01 The impact of muscular and cardiovascular changes on the development of self-reported physical discomfort during a simulated standing work task  
*ANTLE D.M., CÔTÉ J.N., VÉZINA N., MESSING K.*
- PC02 Comparing whole body vibration exposures between a cab-over and conventional truck  
*BLOOD R.P., RYNELL P.W., JOHNSON P.W.*
- PC03 The development of a stage-I risk fil for physical workload  
*KRAKER de H., DOUWES M., COMMISSARIS D.A.C.M.*
- PC04 Pushing and pulling: a review of different work situations  
*DESBROSSES K., MEYER J.P., DIDRY G.*
- PC05 Body weight influences lifting performance  
*HANDRIGAN G.A., PLAMONDON A., SIMONEAU M., TEASDALE N., CORBEIL P.*
- PC06 Supports against static work in bending position – an EMG-study  
*HARTMANN B., BRADL I., GÜTSCHOW S.*
- PC07 Determinants of variation in gross physical activity during customer contact centre work



HEIDEN M., TOOMINGAS A., MATHIASSEN S.E., FORSMAN M.

PC08 Evaluation of pushing and pulling at the workplace using a web-based push-pull-calculator

HOOZEMANS M.J.M., VISSER B., VAN DIEËN J.H.

PC09 The effects of the upper limbs' pulling and pushing work in standing posture within the maximum work area on plantar pressure distribution

KANG J.W., KOO J.W.

PC10 Assessment by experimented trainers of a tool designed to characterize manual material handling situations

LORTIE M., GONELLA M., ST-VINCENT M., DENIS D.

PC11 Physical activity and cardiovascular regulation during clinical work in female students with and without musculoskeletal pain. method study.

FANI A., TZEMPARILIDIS N., UTTERSTRÖM K., HALLMAN D., WANMAN A., ERIKSSON P.O., LYSKOV E.

PC12 The effects of posture and fatigue on lumbar motion and erector spinae muscle activation during high frequency lifting and lowering.

MAWSTON G.A., BOOCOOCK M.G., MCNAIR P.J.

PC13 A tool for the assessment of handling of loads - the hut-calculator

MUEHLEMEYER C., NEUMANN B., SCHAEFER A., LANG K.H.

PC14 Physical workload, low back pain and neck-shoulder pain - a Swedish twin study

NYMAN T., MULDER M., ILIADOU A., SVARTENGREN M., WIKTORIN C.

PC15 Ergonomics intervention using movement analysis system and 3D modeling techniques: a case from industrially developing country (IDC).

TORRES Y., RODRIGUEZ Y., VIÑA S.

PC16 Price versus precision: cost efficiency in trunk posture observation

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PC17 Maximum isometric forces of the whole-body in not upright postures and hand-finger-forces for the assembly-specific force atlas

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PC18 Influence of handling items on the main determinants of risk factors for msd during cashing activity in mass market retailing

ALVES H., ZANA J.P., MUZEAU B., PORTERO P.

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PD01 The role of psychosocial factors and sleep quality for work-related musculoskeletal pain in the subway workers by shift work

CHOI S.J., JEON H.J., NOH S.K., SHIN D.H., LEE M.Y.

PD02 Interactions of biomechanics and psychosocial stressors in relation to the development of MSDs in the modern office: the 'proof' study protocol

EIJCKELHOF B.H.W., HUYSMANS M.A., BLATTER B.M., BRUNO J.L., JOHNSON P.W., VAN DER BEEK A.J., VAN DIEËN J.H., DENNERLEIN J.T.

PD03 Role of psychosocial factors in musculoskeletal disorders in the tunisian textile industry workers

HENCHI M.A., AMRI C., MAHFOUDHI A., BOUZGARROU L., MERCHAOUI I., CHEIKH MHAMED A., KRAIEM R., GAALICHE A., AKROUT M., KHALFALLAH T.

PD04 Is emotional demands a risk factor for musculoskeletal complaints among health care workers?

HOLTE K.A., LABRIOLA M., LUND T., KNARDAHL S.

PD05 The predictive effect of fear-avoidance beliefs on low back pain among newly qualified health care workers with and without previous low back pain: a prospective cohort study

JENSEN J.N., ALBERTSEN K., BORG V., NABE-NIELSEN K.

PD06 Which job constraints are linked to 'trouble in work' among employees suffering from back pain?

LEROYER A., MOLINIE A.F., POMMIER J.L., AL KADIRI K., VOLKOFF S. and the Evrest National Project Team members

PD07 Sense of coherence, health behaviors, family stress and back pain among students

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PD08 The associations between work and family psychosocial factors and musculoskeletal pain among nurses

MALINAUSKIENE V., DACKUTE A.

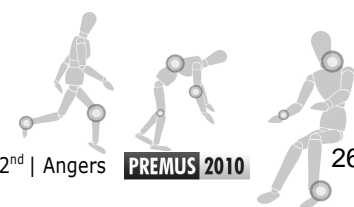
PD09 Application of a comprehensive model (MODSI) for the risk assessment of musculoskeletal disorders

MANERO R., SOTO L., RODRIGUEZ T.

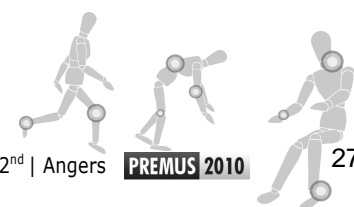
PD10 Does the work style contribute to musculoskeletal symptoms in Indian computer professionals?

SHARAN D., AJEESH P.S., RAMESHKUMAR R., JEENA J., MATHANKUMAR M.

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- PE01 Effects of workstation configuration on typing force, wrist postures and wrist dynamics  
*ASUNDI K., JOHNSON P., DENNERLEIN J.T.*
- PE02 Differences in wrist postural dynamics across office workers during computer and non-computer tasks  
*ASUNDI K., JOHNSON P., DENNERLEIN J.T.*
- PE03 Associations between discomfort and discrepancies in anthropometrics and workstation setup  
*BAKER N.A., MOEHLING K., XIU K.H.*
- PE04 Time distribution of transverse metacarpal arch during computer keyboard typing  
*BAKER N.A., XIU K.H., MOEHLING K., LI Z.M.*
- PE05 Can accelerometer measurements of the head differentiate between two visually similar computer work tasks?  
*BERNMARK E., FORSMAN M., WIKTORIN C.*
- PE06 A video-based postural assessment system to measure rotation of the shoulder during computer use  
*BRUNO J.L., LI Z., TRUDEAU M., RAINA S., DENNERLEIN J.T.*
- PE07 A comparison of wrist ROM and the prevalence of wrist abnormalities identified with MRI between symptomatic and asymptomatic computer users  
*BURGESS R.A., PAVLOSKY W.F., THOMPSON R.T.*
- PE08 A survey of computer usage and ergonomic practices among faculty at a university with a mandatory mobile PC program  
*COOPER K., CAMPBELL-KYUREGHYAN N., SOMMERICH C.*
- PE09 Place of musculoskeletal disorders in laptop use and their prevention with stretch break exercises.  
*DEPARIS P., FAUCHEUX D., PETITPAS C.*
- PE10 Musculoskeletal symptoms in children using computers at home - a proposed model  
*HARRIS C., STRAKER L., SMITH A., POLLOCK C.*
- PE11 Musculoskeletal and visual discomfort among middle school notebook computer users  
*JACOBS K., KALDENBERG J., MARKOWITZ J., WUEST E., HELLMAN M., LELAND-WIATROWSKI N., ARSENAULT M., WALKER B., HALL V.*
- PE12 Health and performance benefits for children when using child-proportional mice and keyboards  
*JOHNSON P.W., CUI L.*
- PE13 Change of interkeypress intervals during 90-minute chinese typing with two input methods  
*LIANG H.W., HWANG Y.H.*
- PE14 Using EMG to evaluate ergonomic problems among the hand of mouse operators  
*LIN P.H., LU C.W., SU S.B.*
- PE15 A pilot for a randomized controlled trial into the effectiveness of an alternative mouse on pain/discomfort, results on feasibility and effectiveness  
*STEENSTRA I., KING T., VAN EERD D., AMICK B.C.*
- PE16 Guidelines to prevent computer-related musculoskeletal disorders in children  
*STRAKER L., JOHNSON P., DENNERLEIN J.T., BURGESS-LIMERICK R.*
- PE17 Adolescent spinal pain: a key target for multidisciplinary prevention of musculoskeletal disorders  
*STRAKER, O'SULLIVAN, SMITH, BEALES, CAMPBELL, BEAR*
- PE18 Perceived effort whilst using mobile computing devices of different types  
*HOGG N., WELLS R.*
- PE19 Muscle rest patterns in the upper trapezius and neck extensor muscles during two computer-based tasks in experimental and idiopathic neck pain  
*WONG T.L., JOHNSTON V., SOUVLIS T.*

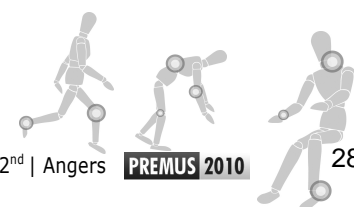


**Health care sector**

- PF01 Evaluation of the body gestures and posture constraints among medical care staff.  
*AKROUT M., CHAARI N., GHRAM R., AMRI C., MERCHAOU I., KHALFALLAH T.*
- PF02 Strategies used by paramedics to protect their back; the focus on preventive competences involved in prehospital emergency interventions  
*ARIAL M., BENOÎT D., WILD P., PICHONNAZ L., DANUSER B.*
- PF03 The musculoskeletal and mental disorders in Brazilian nursing workers: proposal for action  
*BAPTISTA P.C.P., FELLI V.E.A., MARTINS A.C.*
- PF04 Ergonomic study of musculo-skeletal disorders in Monastir hospital (Tunisia)  
*AMRI C., KHALFALLAH T., RASSAS I., CHAARI N., MERCHAOU I., AKROUT M., ADNENE HENCHI M.*
- PF05 Validation and adaptation of a questionnaire to identify musculoskeletal symptoms linked to work.  
*CHEVEREZ-RODRIGUEZ N.E., ORTA-ANÉS L., ELÍAS-BONETA A., VELEZ-SANTORI C.N.*
- PF06 Changes in ergonomic exposures of nursing assistants following a no-lift program in nursing homes  
*KUROWSKI A., BOYER J., FULMER S., PUNNETT L.*
- PF07 Predictors for effective prevention of low back pain in nurses  
*MICHAELIS M., HERMANN S.*
- PF08 Using a work systems analysis to redesign computer task exposures in radiologists  
*ROBERTSON M.M., CHANG J.C., DAINOFF M., GARABET A., DENNERLEIN J.T.*
- PF09 Work demands, constraints and musculoskeletal impacts among dishing cleaning workers of a cardiologic hospital in São Paulo, Brazil.  
*ROCHA L.E., GLINA D.M.R., SIQUEIRA A.R., ISOSAKI M.*
- PF10 Fatigue induced loading on the lumbar spine: an investigation of intra-shift variation in manual handling performance amongst physiotherapists  
*ROTHMORE P., HEWITT A., NGUYEN T., GUNN S.*
- PF11 Musculoskeletal injuries among hospital patient care staff before and after implementation of patient lift and transfer equipment  
*SCHOENFISCH A.L., MYERS D.J., POMPEII L.A., DEMENT J.M., LIPSCOMB H.J.*
- PF12 Validity and reliability of the "job factors questionnaire" for physical therapist tasks  
*SHIMABUKURO V.G.P., ALEXANDRE N.M.C.*
- PF13 Development of an observational walkthrough checklist used to evaluate hospital worker safety within a patient care unit  
*UDTAMADILOK T., BRUNO J.L., O'DAY E., HOPCIA K., DENNERLEIN J.T.*

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- PG02 Chronic pain and employee experience as a starting point for ergonomic evaluations  
*CAMPBELL-KYUREGHYAN N., AHMED M.*
- PG03 Life style, work environment factors and musculoskeletal disorders in carpet handling occupation  
*CHAARI N., AKROUT M., BEN KHADIJA J., AMRI C., KHALFALLAH T.*
- PG04 Playing-related musculoskeletal disorders and stress-related health among percussionists  
*FJELLMAN-WIKLUND A., SANDELL C., FRYKMAN M., CHESKY K.*
- PG05 Prevalence of musculoskeletal symptoms among call center operators in São Paulo, Brazil  
*GLINA D.M.R., ROCHA L.E., GALASSO L.*
- PG06 Prevalence of muscular-skeletal disorders among manual material handling workers in dairy product industry  
*HABIBI E.*
- PG07 Determining the degree of disability in workers with upper limb musculoskeletal disorders using DASH  
*KIM K.S.*
- PG08 Work-related musculoskeletal disorders among Taiwanese flight attendants  
*LEE K.H., STEWART M.H.*
- PG09 Risk of cervical and lumbar intervertebral disc herniation (HIVD) among male bus drivers  
*LIQU S.H., WANG G.H., TSAI S., LEE H.J., SHIH T.S.*
- PG10 Determination of working conditions, musculoskeletal complaints and muscular activity during office work  
*LUTTMANN A., SCHMIDT K.H., JÄGER M.*
- PG11 Work related factors of back pain among garment factory workers in Indonesia  
*MANSYUR M., LUTAM B., JANNIS J.*
- PG12 Musculoskeletal symptoms and risk factors for musculoskeletal disorders among call center operators in Brazil  
*JANUÁRIO L. B., MIRANDA L.C.J., OLIVEIRA A.B.*
- PG13 Prevalence of musculoskeletal disorders and physical risk factors among metal workers  
*ÖZCAN E., ALPTEKIN K., UYSAL B., ISSEVER H.*



PG14 Musculoskeletal complaints among classical musicians in Denmark

PAARUP H.M., HOLM J.C.W., WEDDERKOPP N., MANNICHE C., BÆLUM J.

PG15 WRMD: a comparison between office and production personnel.

SERRATOS-PÉREZ J.N., HERNÁNDEZ-ARELLANO J.L., NEGRETE-GARCÍA M.C., SANCHEZ-OBREGÓN R.A.

PG16 Musculoskeletal disorders among women farmers: a comparison of traditional and improved tools

SINGH S., RATHORE H., SINWAL N.

PG17 Musculoskeletal alterations and complaints among guitar and piano students.

SOTELO-BARROSO F., PODZHAROVA E., VOLKHINA G., MONTENEGRO-VIDAL J., SERRATOS-PÉREZ J.N., RANGEL-SALAZAR R.

PG18 Prevalence of musculoskeletal disorders among female office workers from a medical university

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PG19 Risk factors for plantar fasciitis among assembly plant workers

WERNER R., GELL N., HARTIGAN A., WIGGERMAN N., KEYSERLING W.M.

## Epidemiology of the neck and upper limb

PH01 Mechanical determinants of carpal tunnel syndrome in a population of the Colombian flower industry

BARRERO L.H., QUINTANA L.A., CEBALLOS C., VILLALOBOS G., PIEDRAHITA H.H., PULIDO J.A., NOKHBEZAIM M., HOEHNE-HUECKSTAEDT U., ELLEGAST R.P.

PH02 Musculoskeletal symptoms among mobile hand held device users and their relationship to device use: a preliminary study in a Canadian university population

BEROLO S., WELLS R., AMICK B.C.

PH03 Has manual repetitive work an acute effect on median and ulnar nerve conduction parameters?

BONFIGLIOLI R., CALABRESE M., GRAZIOSI F., MARINELLI F., MUSSONI P., VIOLANTE F.S.

PH04 Associations between 3-month prevalence of neck pain and risk factors among undergraduate students

KANCHANOMAI S., JANWANTANAKUL P., PENSRI P., JIAMJARASRANGSI W.

PH05 An experimental pain model for lateral epicondylalgia to assess its sensory-motor aspects

SAMANI A., FERNÁNDEZ-CARNERO J., BINDERUP A.T., ARENDT-NIELSEN L., MADELEINE P.

PH06 Performance of simplified scoring systems for hand diagrams in carpal tunnel syndrome screening

CALFEE R.P., DALE A.M., DESCATHA A., FRANZBLAU A., EVANOFF B.

## Prevention in various sectors

PI01 Painfulness at the workstation and prevention of exposure to MSD risk factors in a car manufacturer

MORAIS A., ARABI F.H.

PI02 Using Nordic style questionnaire in a multidisciplinary and participative approach for prevention of musculoskeletal disorders, a sustainable occupational prevention tool?

BEAUMONT D., STERDYNYIAK J.M., DOUBRE S., PARISE F.

PI03 Musculoskeletal symptoms and job-related factors among workers from an industrial sector

COLUCI M.Z.O., ALEXANDRE N.M.C.

PI04 Adjustable carts: an effective intervention for reducing the low back injury risk for grocery stockers

DAVIS K.G., ORTA-ANÉS L.

PI05 Does statistically significant reduction in pain lead to relevant improvements in functional outcomes after workplace exercise for controlling pain? A systematic review.

MOREIRA R.F.C., DIAS N.B., COURY H.J.C.G.

PI06 Reducing musculoskeletal disorders among dentist operators: an ergonomic intervention approach to improve working conditions

DEHDASHTI A.R., KHAVANIN A., MORTAZAVI S.B.

PI07 Strategies for prevention of MSD in a large French occupational health department

DESARMENIEN A., BIDRON P.

PI08 Ergodistrib: a national, multidisciplinary study for the prevention of musculoskeletal disorders of the upper limbs and spine in partnership with management representatives of the main French food distributors

VISSAT M., BOITEL L., BOULOT M., INCORVAIA A.M., JEANCOLAS B., RAT DE COQUARD M., DESARMENIEN A., DUPERY M.

PI09 The effect of a shoulder pad on shoulder complaints and productivity in scaffolders

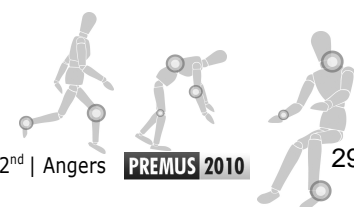
VAN DEN BERG T.I.J., ELDERS L.A.M., BURDORF A.

PI10 The development of "MUSKA" as tool to support a long lasting MSD prevention in the workplace

ESCRIVA E., MERLIN X., THIBAUT J.F.

PI11 Hand tool design and ergonomics: design of a new hammer for slaters

GOUBAUD S., ASSELIN A.



PI12 A macro-ergonomic approach to injury prevention

HOFFMEISTER K., SCHWATKA N.V., ROSECRANCE J.C.

PI13 Effective dissemination of an ergonomically-modified blueberry rake

MAY J., HAWKES L., WYCKOFF S., GINLEY B., ROWLAND M.

PI14 Intervention against work-related musculoskeletal disorders (WRMD) among office workers from public sector

OLIVEIRA A.B., GIL COURY H.J.C., VINGÅRD E.

PI15 Load carriage: minimizing soldier injuries through physical conditioning – a narrative review

ORR R.M., POPE R., JOHNSTON V., COYLE J.

PI16 Biomechanical metrology: a support in occupational controversies

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

PI17 Surveillance for mitigation of occupational health hazards and musculoskeletal problems of agricultural workers through educational intervention

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PJ01 The profile fitness mapping questionnaire for the neck - reliability and validity of a new questionnaire for symptoms and functional limitations in subjects with neck pain

BJÖRKLUND M., HAMBERG J., HEIDEN M., BARNEKOW-BERGKVIST M.

PJ02 Use of job-specific functional capacity evaluation to predict the employment status of patients with nonspecific low back pain

CHENG A.S.K., CHENG S.W.C.

PJ03 The work role functioning questionnaire and chronic musculoskeletal disorders: has it a clinical study (results from a prospective study of 539 workers)?

FOUQUET B., BADAOUI S., PELLIEUX S., METIVIER J.C., BORIE-MALAVIEILLE M.J.

PJ04 Work ability among senior workers (50+) in a construction company

JEBENS E., MEDBØ J.I., KNUITSEN O., MAMEN A., VEIERSTED K.B.

PJ05 Elderly workers in physically demanding jobs: how do they manage?

MEDBØ J.I., JEBENS E., MAMEN A., KNUITSEN O., VEIERSTED K.B.

PJ06 Strength and lumbar range of motion related to low back pain (LBP) and age

MEYER J.P., FLENGHI D.

PJ07 Does functional capacity decline in healthy ageing workers?

SOER R., BROUWER S., GEERTZEN J.H.B., GROOTHOFF J.W., RENEMAN M.F.

PJ08 Working despite chronic nonspecific musculoskeletal pain: a qualitative study

VRIES de H.J., BROUWER S., GROOTHOFF J.W., GEERTZEN J.H.B., RENEMAN M.F.

PJ09 Professional based classification versus self reported measures as a basis for choice of intervention - patients with musculoskeletal and mental disorders

WÄHLIN NORRGREN C., EKBERG K., ÖBERG B.

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PK01 Psychometric evaluation of the questionnaire "the pain disability questionnaire - PDQ" – Brazilian Portuguese version

GIORDANO P.C.M., ALEXANDRE N.M.C.

PK02 Open versus endoscopic carpal tunnel release: using quickdash (a shortened disabilities of the arm-shoulder-hand questionnaire) in Bouches-du-Rhône, France, April 2008 to December 2009 (preliminary results)

BACKX A., SILLAM F., HA C.

PK03 Permanence of musculoskeletal disorders at construction workers – a follow-up

HARTMANN B., SEIDEL D.

PK04 Lumbar bone mass predicts low back pain in males

HOOZEMANS M.J.M., KOPPES L.L.J., TWISK J.W.R., VAN DIEËN J.H.

PK05 Pain attenuation and its relationship to function in a longitudinal low back pain cohort

MCGORRY R.W., SHAW W.S., LIN J.H.

PK06 High need for recovery and absences for musculoskeletal disorders

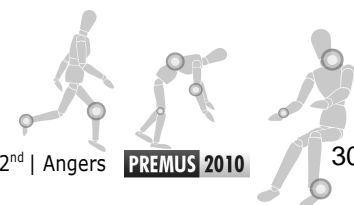
MORIGUCHI C.S., ALEM M.E.R., VAN VELDHOVEN M., GIL COURY H.J.C.

PK07 Profile of the Sao Francisco university employees accomplished physiotherapy service in occupational health and ergonomics

PADULA R.S., LIMA, L.B., LIMA N.

PK08 Sick leaves in the two years following intervention for low back pain: a randomized controlled study comparing multidisciplinary functional restoration and ambulatory physiotherapy

ROCHE-LEBOUCHER G., BONTOUX L., DUBUS V., PETIT LE MANAC'H A., RICHARD I.



PK09 Effectiveness of a new sequenced multi-disciplinary rehabilitation protocol for thoracic outlet syndrome in Indian computer professionals

MOHAN BABU R., SHARAN D., RAMESHKUMAR R., AJEESH P.S.

PK10 Predicting injured workers' experience of "absenteeism ↔ at-work productivity loss" over one year after WSIB specialty clinic attendance

BEATON D.E., JIANG D., TANG K., MACDERMID J., RICHARDS R.R., FRANCHE R.L., CÔTÉ P., HOGG-JOHNSON S., BOMBARDIER C.

PK11 "Work instability" predicts greater work disability and downward transitions in work status for injured workers with upper-limb disorders after one-year attendance at a WSIB specialty clinic

TANG K., BEATON D.E., GIGNAC M.A.M., BOMBARDIER C.

PK12 Can internationally recommended outcome domains capture aspects that are prominent for the health experiences of women with neck- and shoulder pain? - a factor analysis.

WIITAVAARA B., BJÖRKLUND M., DJUPSJÖBACKA M., NILSSON A.

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PL01 Effectiveness of a global posture reeducation program for patients with low back pain

BONETTI F., CURTI S., CURTI M., FERRARI C., PASANISI C., VIOLANTE F.S., MATTIOLI S., PILLASTRINI P.

PL02 Rooms for manoeuvre and difficulties met by foremen and their role for a sustainable MSD prevention

BUCHMANN W., ARCHAMBAULT C., VOLKOFF S.

PL03 Evaluation of a physiotherapy care with a multidisciplinary intervention including medical and ergonomic approach

DEVARENNE V., TARIN C., PRECHAC A., WINCKEL M.

PL04 The benefits of physical therapy training for low back pain at work.

DELORE-MILLES E., BROSSET N., BUCHHOLZ F., TOUSSAINT J.F., HASSIF H., ANDLAUER C., BRIQUET-WAGNER A., SCHOHN M.

PL05 The management of sickness absence in the transport industry - a 10 year experience

FARRAND D.J.E.

PL06 Disputed chronic neurogenic thoracic outlet syndromes: results of a multidisciplinary approach of the return to work

FOUQUET B., BORIE-MALAVIEILLE M.J., BADAOUI S., METIVIER J.C., PELLIEUX S., LAULAN J.

PL07 The fear avoidance model relationships with the readiness for return to work scale in different musculoskeletal disorders

FOUQUET B., BADAOUI S., BORIE-MALAVIEILLE M.J., METIVIER J.C., PELLIEUX S.

PL08 Back to work after dorsal musculoskeletal disorders: the role of the company

KERN F., GONIK V., DANUSER B.

PL09 Difficulties and obstacles in the return to work of workers affected by occupational diseases attended to in a reference center for the worker's health in Sao Paulo – Brazil

DALDON M.T.B., SANTOS M.C., TOLDRÁ R.C.

PL10 Contributions of group physical therapy sessions to the return to work of patients with work related musculoskeletal disorders (WRMD)

MENDES L.F.

PL11 Validation of the 11-item organizational policies & practices scale (OPPS) for injured workers recovering from work-related upper-limb disorders

TANG K., AMICK B.C., MACDERMID J., BEATON D.E.

## Musculoskeletal disorders at a population level

PM01 Risk factors for rotator cuff syndrome and shoulder pain in the working population

BODIN J., HA C., CHASTANG J.F., DESCATHA A., LECLERC A., ROQUELAURE Y., GOLDBERG M., IMBERNON E.

PM02 Population attributable risk of lumbar disc surgery according to occupation: a study in a french general population

FOUQUET N., ROQUELAURE Y., HA C., BORD E., SURER N., PETIT LE MANAC'H A., LECLERC A., LOMBRAIL P., GOLDBERG M., IMBERNON E.

PM03 Economic sectors and occupations at risk for the development of lumbar spine diseases – results of the German spine study

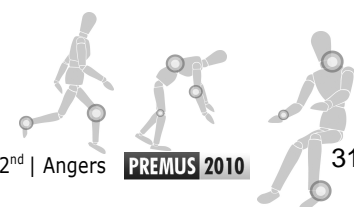
MICHAELIS M., HOFMANN F., BOLM-AUDORFF U., BERGMANN A., DITCHEN D.M., ELLEGAST R.P., ELSNER G., GRIFKA J., HAERTING J., JÄGER M., LINHARDT O., LUTTMANN A., PETEREIT-HAACK G., SEIDLER A.

PM04 Musculoskeletal disorders subjectively enhance the cooling induced decrease in mental and fine motor performance

PIENIMAKI T., RINTAMÄKI H., NAYHA S., LAATIKAINEN T.

PM05 Lifestyle and metabolic factors in relation to shoulder pain and rotator cuff tendinitis: a population-based study

RECHARDT M., SHIRI R., KARPPINEN J., JULA A., HELIÖVAARA M., VIKARI-JUNTURA E.



## Gender differences

PN01 Work in forward bent position in assistant nurses

AHLGREN C., WAHLSTRÖM J.

PN02 A study of gender-based work organization among sanitation and maintenance employees at a Québec hospital

CALVET B., RIEL J., MESSING K.

PN03 The relationship between physical fitness, physical work intensity, and work ability index (WAI)

KIM Y.K., KANG D.M., YANG D.J., KIM Y.H.

PN04 Women's perception of risk from occupational musculoskeletal exposures

LANDRY L.

PN05 Gender in expectations before visits to primary care for neck and back patients

STENBERG G., FJELLMAN-WIKLUND A., AHLGREN C.

PN06 Gender differences in size and structure of variability

SVENDSEN J.H., MADELEINE P.

PN07 The effect of cognition improvement program on work ability

YANG D.J., YANG Y.A.

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PP01 A more objective evaluation of the repetitiveness in the compensation of musculoskeletal disorders: the case of Tunisia

AMRI C., BOUZGAROU L., MAHFOUDHI A., ADNENE HENCHI M., CHAARI N., AKROUT M., KHALFALLAH T.

PP02 Conditions for implementing a sustainable MSD prevention in the workplaces, a study cases of 30 French companies

ESCRIVA E., COUTAREL F., CAROLY S., DANIELLOU F., ROQUELAURE Y., SCHWEITZER J.M.

PP03 Epidemiological surveillance of upper limb musculoskeletal disorders (ULMSDs) in occupational setting in a west region of Algeria.

GHOMARI O., BEGHADLI B., TALEB M., KANDOUCCI A.B., DESCATHA A., FANELLO S., ROQUELAURE Y.

PP04 An assessment methodology for ergonomic chair quality and competency in the workplace

HELLER-ONO A.R.

PP05 Standard to prevention of musculoskeletal disorders among call center operators in Brazil.

PERES C.C., ROCHA L.E., BARREIRA T.H.C., MARINHO-SILVA A., MATSMOTO R., CAVALCANTE E.

PP06 Ergonomic risks and musculoskeletal disorders prevention

IORDACHE R., GRIGORIU I., SERACIN M.

PP07 Low back pain and stratified management: a necessity

PETIT LE MANAC'H A., ROQUELAURE Y., HA C., RICHARD I.

PP08 Determining work-relatedness of musculoskeletal injuries- plantar fasciitis as a case example.

WONG R.C.K., NAQVI S.

