28th International Symposium on Epidemiology in Occupational Health

From the Workplace to the Population: Exposure and Prevention

October 25-28, 2021

@epicoh2021  
#epicoh2021

Symposia Presentations
SYMPOSIA PRESENTATIONS 1
MONDAY, OCTOBER 25, 2021
11:45 – 13:15 EDT

S1: Exposome Project for Health and Occupational Research

Chairs: Anjoeka Pronk (the Netherlands), Susan Peters (the Netherlands)

S1.1: Taking a working life exposome approach: why do we need it and which challenges are we facing?
Presenter: Susan Peters

S1.2: Applying the exposome concept to working-life health: The EU EPHOR project
Presenter: Anjoeka Pronk

S1.3: Sensing and sampling for the external exposome in occupational studies
Presenter: Miranda Loh

S1.4: Strategies for monitoring of the internal exposome using self-sampling methods in the context of EU EPHOR project
Presenter: Eline Verschueren

S1.5: Exposure methods in occupational epidemiology: Use of text mining for developing Job Exposure Matrices
Presenter: Martie Van Tongeren

S2: Epidemiology of Occupational Infectious Agents (OIA)

Chairs: Antoon DeSchryver (Belgium), Jerry Spiegel (Canada), Mary Ross (South Africa)

S2.1: Infectious disease risks associated with occupational exposure among non-healthcare workers: a systematic review of the literature
Presenter: Antoon De Schryver

S2.2: Incidence of COVID-19 by sector
Presenter: Lode Godderis

S2.3: Long term effects of COVID-19 in health workers and the assessment of the fatigue syndrome in compensation claims
Presenter: Albert Nienhaus

S2.4: Outbreak of Invasive Pneumococcal Disease among Workers at a Norwegian Shipyard.
Presenter: Tor Erik Danielsen

S2.5: A research program to provide a comparative contextualized analysis of occupational COVID-19 among health workers: Preliminary insights from a South African-Canadian Collaboration
Presenter: Jerry Spiegel

S3: Deaths of Despair & Job Loss

Chair: Jacqueline Ferguson (United States)

Discussant: Ellen Eisen

S3.1: Suicide and Job Loss in the Diesel Exhaust in Miners Study II (DEMS II)
Presenter: Jacqueline Ferguson

S3.2: The impact of job loss on self-injury mortality in a cohort of autoworkers: application of a novel causal approach
Presenter: Abbas Virji

S3.3: Death by Robots? Automation and Working-Age Mortality in the United States
Presenter: Atheendar Venkataramani

S3.4: Union burying ground: mortality, mortality inequalities, and sinking labor-union membership in the United States
Presenter: Jerzy Eisenberg-Guyot

S4: Respiratory Health Impacts of Occupational Cleaning and Disinfecting Exposures

Chair: Margaret Quinn (United States), Homero Harari (United States), Sherry Baron (United States)

S4.1: Mixed exposures to cleaning and disinfecting chemicals in healthcare occupations
Presenter: Abbas Virji

S4.2: Respiratory health impacts of cleaning and disinfecting exposures: does evidence support a link with COPD?
Presenter: Orianne Dumas

S4.3: Changes in respiratory symptoms, spirometry, and exhaled nitric oxide among home care aides performing cleaning and disinfecting using different products: a longitudinal repeated measures study
Presenter: Margaret Quinn

S4.4: Identification of Chemical and Disinfectants Products for Exposure and Epidemiological Studies
Presenter: Homero Harari

S4.5: Risk of asthma among professional cleaners in Denmark – results from a matched register-based cohort study
Presenter: Camilla Sandal Sejbæk

S5: Night Shift Work Research: What Do We Need to Know to Make a Difference?

Chair: Kyriaki Papantonioiu (Austria), Manolis Kogevinas (Spain)

Discussant: Roel Vermeulen

Stakeholders: Johannes Gardner, Bernhard Schwarz, David Newman

S5.1: Night shift work and cancer risk: where do we stand, where should we go?
Presenter: Kyriaki Papantonioiu

S5.2: Novel mechanisms underlying the carcinogenicity of night shift work
Presenter: Parveen Bhatti

S5.3: Using metabolomics to track biological clocks in shift work
Presenter: Debra J. Skene

S5.4: Night shift work interventions – what do we need to know to make a difference?
Presenter: Anne Helene Garde

S5.5: Shift work and the individual
Presenter: Thomas Kantermann

S6: Gender Intricacies and Occupational Health

Chairs: Vikki Ho (Canada), France Labrèche (Canada)

Discussant: Christopher McLeod

S6.1: Gender/sex differences in workers’ compensation for hearing loss, concussions and activity-related soft tissue disorder (ASTDs) in British Columbia, Canada
Presenter: Mieke Koeboe

S6.2: Gendered occupational inequalities and health over lifetime: how can we work them in?
Presenter: Emilie Council

S6.3: Sex and gender inequalities: segregation of OHS exposures and preventive avenues for a population of low-educated teenagers entering the labour force
Presenter: Marie Laberge

S6.4: Challenges of integrating gender theoretical concepts into epidemiological health research
Presenter: Gabriele Bolte
<table>
<thead>
<tr>
<th>SYMPOSIA PRESENTATIONS 2</th>
<th>THURSDAY, OCTOBER 28, 2021</th>
<th>11:15 – 12:45 EDT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>S7:</strong> Occupational Health from a Life Course Perspective</td>
<td><strong>S8:</strong> A Roadmap for Artificial Intelligence and Occupational Health in the 21st Century</td>
<td><strong>S9:</strong> Key Characteristics of Carcinogens: Effective Use of Mechanistic Evidence from Occupational Epidemiology Studies in Cancer Hazard Identification</td>
</tr>
<tr>
<td><strong>S10:</strong> Occupation &amp; COVID-19</td>
<td><strong>S11:</strong> Coordination and Harmonization of Occupational Cohorts, the International OMEGA-NET Network</td>
<td><strong>S12:</strong> AGRICOH: A Consortium of Agricultural Cohorts</td>
</tr>
</tbody>
</table>

**Chair:** Anjum Hajat (United States)

**S7.1:** Young people’s depressive symptom trajectories and their education and employment. Comparing Canada and the United States

**Presenter:** Anita Minh

**S7.2:** The working lives of Generation Y: Approach and challenges

**Presenter:** Karin Veldman

**S7.3:** Multidimensional employment quality, retirement trajectories and cardiometabolic health in later life in the US

**Presenter:** Sarah Andrea

**S7.4:** Are early working life patterns related to the course of future sickness absence due to common mental disorders?

**Presenter:** Amaya Ayala-Garcia

**Chairs:** Ellen Sweeney (Canada)

**S8.1:** Introduction to the challenges of occupational coding

**Presenter:** Cheryl Peters

**S8.2:** The application of artificial intelligence in the coding of occupational information

**Presenters:** Anil Adisesh, Chris Baker

**S8.3:** Automated Occupational Encoding to the Canadian National Occupation Classification using an Ensemble Classifier from TF-IDF and Doc2Vec Embeddings

**Presenter:** Cesar Augusto Suarez Garcia

**S8.4:** SOCCer 2.0 and SOCCer in the Field: Moving from coding occupation after data collection to coding in real time by study subjects

**Presenter:** Melissa Friesen

**S8.5:** An Integrated Database of Occupational Information From O’NET-SOC and the Canadian Career Handbook

**Presenter:** Vadym Babliuk

**S8.6:** Artificial intelligence and Occupational Health

**Presenter:** Roel Vermeulen

**Chairs:** Mary K. Schubauer-Berigan (France)

**S9.1:** Use of mechanistic evidence from occupational studies in cancer hazard identification: the experience of the IARC Monographs Programme

**Presenter:** Mary Schubauer-Berigan

**S9.2:** Introduction to the key characteristics approach to interpreting mechanistic data

**Presenter:** Martyn Smith

**S9.3:** Mechanistic evidence from population studies of welding fume exposure and cancer risk

**Presenter:** David Christiani

**S9.4:** Mechanistic evidence in population studies on night shift and cancer

**Presenter:** Manolis Kogevinas

**Chairs:** Martie van Tongeren (United Kingdom), Neil Pearce (United Kingdom)

**S10.1:** The role of environmental assessment in workplace COVID-19 outbreak investigation to understand SARS-CoV-2 transmission

**Presenter:** Chris Keen

**S10.2:** Methodological issues in studying occupational differences in risk of Covid-19

**Presenter:** Neil Pearce

**S10.3:** Risk of exposure to a SARS-CoV-2 infection at work: development of a Job Exposure Matrix (COVID-19-JEM) for Denmark, the Netherlands and the United Kingdom

**Presenter:** Karen Oude Hengel

**S10.4:** Occupation and COVID-19 mortality in England: a national linked data study of 14.3 million adults

**Presenter:** Martie Van Tongeren

**S10.5:** Comparison of reported relative risks for health care, transport, and food processing workers

**Presenter:** Sarah Rhodes

**Chairs:** Ingrid Sivesind-Mehlum (Norway), Michelle C. Turner (Spain)

**S11.1:** OMEGA-NET inventory of occupational cohorts

**Presenter:** Michelle Turner

**S11.2:** OMEGA-NET Inventory of Occupational Exposure Assessment Tools

**Presenter:** Susan Peters

**S11.3:** Working life, health and well-being of parents: a joint effort to uncover hidden treasures in birth cohorts

**Presenter:** Milena Maule

**S11.4:** Occupational Burnout: Definition, Measure and Predictors

**Presenter:** Irina Guseva Canu

**S11.5:** COVID-19 and the Workplace

**Presenter:** Lode Godderis

**Chairs:** Laura Beane Freeman (United States), Pierre Lebailly (France)

**S12.1:** Exposure assessment for pooling projects within the AGRICOH consortium

**Presenter:** Hans Kromhout

**S12.2:** Cancer incidence in agricultural workers: an international consortium of agricultural cohort studies (AGRICOH)

**Presenter:** Kayo Togawa

**S12.3:** Exposure to pesticides and cancer of the lymphohematopoietic system in the AGRICOH cohort consortium

**Presenter:** Karl-Christian Nordby

**S12.4:** Neurological diseases in farmers: opportunities within the AGRICOH consortium

**Presenter:** Isabelle Baldi

**S12.5:** Respiratory Disease in the AGRICOH Consortium from six continents

**Presenter:** Isabella Annesi-Maesano