

PhD theses and scientific articles

NRCWE Anniversary Conference

“Working environment in a changing world”



**Celebrating 70 years of research
in Occupational Safety and Health**

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Eigtveds Pakhus
Asiatisk Plads 2G
1448 Copenhagen
Denmark

Forord

Som et led i fejringen af NFA's 70-års fødselsdag har vi valgt at udarbejde en oversigt over forskningscentrets videnskabelige artikler og ph.d.-afhandlinger gennem de seneste 5 år – 2011-2015.

Oversigten dokumenterer på udmærket vis dels den indholdsmæssige spændvidde i forskningscentrets arbejde, dels bredden i samarbejdet med arbejdsmiljøinstitutter og universiteter i Danmark, Norden, Europa og den øvrige verden, især USA.

Forskningsområderne har i 5-årsperioden i høj grad afspejlet den nationale arbejdsmiljøstrategi og har således fortrinsvist omfattet psykosocialt arbejdsmiljø, muskelskelet besvær og arbejdsulykker samt toksikologi, nanosikkerhed og mikrobiologi.

Artiklerne er baseret på forskning og på den survey- og registerbaserede overvågning af arbejdsmiljø og helbred, som led i NFA's myndighedsunderstøttende opgaver.

NFA sikrer kvaliteten af sin forskning gennem publicering af forskningsresultaterne i internationale videnskabelige tidsskrifter med peer review. Hvert 4-5 år evalueres kvalitet og relevans af forskning og formidling desuden af et uafhængigt, internationalt panel af fageksperter. Forskningen nyttiggøres til rådgivning af myndighederne, formidling til arbejdsmarkedets parter og rådgivere samt til undervisning og uddannelse af fremtidens arbejdsmiljøforskere på universiteterne. Desuden formidles til ledere og medarbejdere i virksomhederne.

Preface

As part of the celebration of the NRCWE's 70-years' anniversary, we have prepared an overview of the scientific articles and PhD theses published through the past 5 years (2011 – 2015).

The span with respect to the scientific content of the NRCWE's work is well documented in the overview. So is the broadness in the research co-operation with occupational safety and health institutes and universities in Denmark, the Nordic countries, Europe and the rest of the world, particularly the USA.

Through the past 5 years, the research areas have reflected the national working environment strategy with a research focus primarily on the psychosocial working environment, musculoskeletal disorders, occupational accidents, toxicology, nanosafety and microbiology. The articles are based on research and on the survey and register-based surveillance of the working environment and health as part of the NRCWE's counselling of authorities.

The NRCWE ensures the quality of its research by publishing its research results in international scientific and peer-reviewed journals. Every 4 – 5 years, the quality and relevance of its research and dissemination of research results are evaluated by an independent and international panel of scientific experts. The research is utilized for counselling authorities, dissemination of research results to the social partners and consultants, and for teaching and education purposes of future working environment researchers at the universities. Furthermore, research results are disseminated to managers and employees at enterprises.

PhD theses 2011-2015

Andersen CH. Effect of different training regimes on musculoskeletal pain in neck and shoulder. National Research Centre for Working Environment, 2012.

Andersen MF. Sygemeldte med Common Mental Disorders. En kvalitativ analyse af Tilbagevenden til Arbejdet-processen samt working mechanisms i Det Store TTA-projekt. Københavns Universitet; Det Nationale Forskningscenter for Arbejdsmiljø, 2014.

Chhoden T. Interaction between nanoparticles and lung surfactant investigated using MALDI-TOF-MS. University of Southern Denmark; National Research Centre for the Working Environment, 2015.

Frankel M. Exposure to indoor microorganisms and their inflammatory potential as affected by sampling methods, season and aerosolization. University of Copenhagen; National Research Centre for the Working Environment, 2012.

Hansen AF. Physical capacity: The interplay between job type, physical capacities and future health sickness absence and job status among Danish employees. National Research Centre for the Working Environment, 2011.

Hjarsbech PU. Depressive symptoms, psychosocial work environment and long-term sickness absence. University of Copenhagen; National Research Centre for the Working Environment, 2013.

Jackson P. Pulmonary exposure to nanoparticles during pregnancy: Effects in prenatally exposed offspring. Roskilde University; National Research Centre for the Working Environment, 2011.

Jakobsen LM. Psychosocial working conditions within eldercare and depressive symptoms among care workers. A mixed method study of care workers working in 10 Danish care homes. University of Copenhagen; National Research Centre for the Working Environment, 2015.

Jakobsen MD. Effect of workplace- versus home-based physical exercise on musculoskeletal pain, perceived exertion and physical function among healthcare workers - a cluster randomised controlled trial including a reliability study. National Research Centre for the Working Environment, 2015.

Jensen MA. Working in the "Middle of the night". The psychological effects of consecutive night shifts. University of Copenhagen; National Research Centre for the Working Environment, 2015.

Jørgensen MB. Physical and behavioural training among cleaners. Effects of a randomised controlled workplace intervention trial. University of Copenhagen; National Research Centre for the Working Environment, 2011.

Korshøj M. Physical work demands and fitness - Effects on risk factors for cardiovascular disease from a randomized controlled trial among cleaners. University of Copenhagen; National Research Centre for the Working Environment, 2015.

Kvorning LKV. En realistisk evaluering af forebyggelsespakkerne - En arbejdsmiljøindsats målrettet små virksomheder i auto- og bygge- og anlægsbrancherne. Københavns Universitet; Det Nationale Forskningscenter for Arbejdsmiljø, 2015.

Larsen AD. The effect of maternal exposure to psychosocial job strain on pregnancy outcomes and child development. Aarhus University; National Research Centre for the Working Environment, 2014.

Levin M. Influence of instrument performance and material properties on exposure assessment of airborne engineered nanomaterials. Technical University of Denmark; National Research Centre for the Working Environment, 2015.

Løngard K. Consequences of medically unexplained symptoms. University of Copenhagen; National Research Centre for the Working Environment, 2014.

Madsen IEH. Social work environment and mental health. An epidemiological study of interpersonal work environment factors as predictors of psychotropic treatment. National Research Centre for the Working Environment, 2012.

Martin MHT. Work-directed rehabilitation of sickness absence beneficiaries with mental health problems: evaluation of a complex intervention implemented in four settings. University of Copenhagen; National Research Centre for the Working Environment, 2014.

Mikkelsen EN. Making sense of organisational conflict. An empirical study of enacted sensemaking in everyday conflict at work. Copenhagen Business School; National Research Centre for the Working Environment, 2012.

Nabe-Nielsen K. Shift work, health, and well-being among eldercare workers. National Research Centre for the Working Environment, 2011.

Nexø MA. Work disability among people with benign thyroid diseases in Denmark. University of Copenhagen; National Research Centre for the Working Environment; 2014.

Olesen KG. Flertydig og emergerende ledelse i folkeskolen. Professionshøjskolen Metropol; Det Nationale Forskningscenter for Arbejdsmiljø, 2014.

Pedersen J. Longitudinal risk assessment tool for sickness absence, unemployment, return to work and early retirement from labour market. University of Copenhagen; National Research Centre for the Working Environment, 2014.

Poulsen SS. A toxicogenomic approach for toxicity assessment of pulmonary MWCNT exposure. Roskilde University; National Research Centre for the Working Environment, 2015.

Quist HG. Psychosocial work environment and personal lifestyle - A prospective study of psychosocial factors as predictors of lifestyle among Danish eldercare workers. University of Copenhagen; National Research Centre for the Working Environment, 2014.

Rasmussen CDN. A multi-faceted workplace intervention for prevention of low back pain. Effectiveness of a stepped wedge cluster randomised controlled trial among nurses' aides. University of Southern Denmark; National Centre for the Working Environment, 2015.

Tufte P. Time to care. Temporal conditions, work performance and meaning of work in the Danish home care sector. Roskilde University; National Research Centre for the Working Environment, 2013.

Vibenholt A. Measurements of selected air pollutants in Danish homes and ozone interaction with floor dust. University of Copenhagen; National Research Centre for the Working Environment, 2014.

Villumsen M. Forward bending of the trunk and low back pain among bluecollar workers. Aalborg University; National Research Centre for the Working Environment, 2015.

Scientific articles 2011-2015

Abildgaard A, Lund S & Hougaard KS. Chronic high-fat diet increases acute neuroendocrine stress response independently of prenatal dexamethasone treatment in male rats. *Acta Neuropsychiatrica* 2014;26(1):8-18.

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Afzal S, Gusella M, Vainer B, Vogel U, Andersen JT, Brødbæk K, Petersen M, Jimenez-Solem E, Bertolaso L, Barile C, Padriani R, Pasini F, Jensen SA & Poulsen H. Combinations of polymorphisms in genes involved in the 5-fluorouracil metabolism pathway are associated with gastrointestinal toxicity in chemotherapy-treated colorectal cancer patients. *Clinical Cancer Research* 2011;17(11):3822-3829.

Ajslev JZ, Lund HL, Møller JL, Persson R & Andersen LL. Habituating pain: questioning pain and physical strain as inextricable conditions in the construction industry. *Nordic Journal of Working Life Studies* 2013;3(3):195-218.

Ajslev JZ, Persson R & Andersen LL. Associations between wage system and risk factors for musculoskeletal disorders among construction workers. *Pain Research and Treatment* 2015:513903.

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Alberg T, Nilsen A, Hansen JS, Nygaard UC & Løvik M. Nitrogen dioxide: no influence on allergic sensitization in an intranasal mouse model with ovalbumin and diesel exhaust particles. *Inhalation Toxicology* 2011;23(5):268-276.

Albertsen K, Garde AH, Nabe-Nielsen K, Hansen ÅM, Lund H & Hvid H. Work-life balance among shift workers: results from an intervention study about self-rostering. *International Archives of Occupational and Environmental Health* 2014;87(3):265-274.

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Allesøe K, Holtermann A, Aadahl M, Thomsen JF, Hundrup YA & Sjøgaard K. High occupational physical activity and risk of ischaemic heart disease in women: The interplay with physical activity during leisure time. *European Journal of Preventive Cardiology* 2015;22(12):1601-1608.

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Anatchkova MD, Ware JEJ & Bjørner JB. Assessing the factor structure of a role functioning item bank. *Quality of Life Research* 2011;20(5):745-758.

Anatchkova MD, Rose M, Ware JE & Bjørner JB. Development of an item bank and computer adaptive test for role functioning. *Quality of Life Research* 2012;21(9):1625-1637.

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Andersen CH, Andersen LL, Mortensen OS, Zebis M & Sjøgaard G. Protocol for shoulder function training reducing musculoskeletal pain in shoulder and neck a randomized controlled trial. *BMC Musculoskeletal Disorders* 2011;12:14.

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Andersen LL & Garde AH. Sleep problems and computer use during work and leisure: Cross-sectional study among 7800 adults. *Chronobiology International* 2015;32(10):1367-1372.

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Andersen LL, Jakobsen MD, Pedersen MT, Mortensen OS, Sjøgaard G & Zebis MK. Effect of specific resistance training on forearm pain and work disability in industrial technicians: Cluster randomised controlled trial. *BMJ Open* 2012;2:e000412.

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