



DANISH  
ramazzini  
CENTRE  
research in occupational  
and environmental medicine

Department of Public Health, Aarhus University  
Occupational Medicine, Aarhus University Hospital  
Occupational and Environmental Medicine, Aalborg University Hospital  
Occupational Medicine – University Research Clinic, Goedstrup Hospital

REPORT 2022

Front cover: Recycling workers sorting waste at a company in Denmark. Photo by Karoline Kærgaard Hansen, 2021.

Danish recycling workers participate in the RECYCLE Project: Exposure levels and early health effects when recycling domestic waste.

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## Preface

October 10–11 2022, 40 participants gathered at Sandbjerg Manor for the 11th Annual Ramazzini Seminar. Karoline Kærgaard Hansen, Vivi Just-Nørregaard, Theresa Møller Kynde, Jakob Bønløkke, and Kirsten Pugdahl organized the seminar. The overarching theme was research communication – and why it matters. Different aspects of the theme ranging from SoMe strategies over publication in trade journals to measuring societal impact of research was excellently covered by presentations given by Ole Sørensen, the National Research Centre for the Working Environment (NFA), Asger Westh and Jonas Højlund from "Fagbladet 3F", Steffen Hyldborg, The Danish Working Environment Research Fund (AMFF), Peter Friis Jeppesen, Aalborg University Hospital. According to the tradition, a young researcher from each of the centre's four departments presented ongoing projects. The seminar received financial support from Aarhus University Research Fund.

Birgitte Laustsen Hamann, Mia Klinkvort Kempel, Søren Mose, and Cecilie Rud Budtz defended their PhD theses and five new PhD students were enrolled. In total, 21 PhD students were attached to Danish Ramazzini Centre in 2022. Since 2008 when the Danish Ramazzini centre was established, 48 candidates have received their PhD degrees.

Aarhus, Aalborg and Herning, January 20, 2023

Danish Ramazzini Centre Coordination Board:

Henrik Kolstad, professor

Vivi Schlünssen, professor

Johan Hviid Andersen, professor

Jakob Hjort Bønløkke, consultant

Torben Sigsgaard, professor

Occupational Medicine, Aarhus University Hospital

Department of Public Health, Aarhus University

Occupational Medicine – University Research Clinic, Goedstrup Hospital

Occupational and Environmental Medicine, Aalborg University Hospital

Department of Public Health, Aarhus University

Ninety-five peer-reviewed publications were published. The publications covered a wide range of topics, for example: airborne exposures and asthma, work stress, mental and other health problems following electric and other injuries, microbiome and health, risk factors for dermatitis, asbestos exposure and cancer risk, violence and psychosocial work factors; employment and mental health, transgenerational effects; mechanical exposures and orthopaedic disorders; drinking water contaminants and air pollution related health effect; and occupational SARS-CoV-2 infection.

Karin Broberg, Lund University and Karolinska Institutet and visiting professor at Danish Ramazzini Center is now deeply involved in establishing the Danish Ramazzini Centre Biobank, a research infrastructure compiling nine Ramazzini cohorts with biobanked material with the objective to delineate work life exposures, biological mechanisms and chronic diseases.

At eight online Ramazzini Forum meetings, several participants discussed ongoing projects, serving as an excellent example of the strength of online meetings for a geographically dispersed centre.

## Board of directors

### Danish Ramazzini Center

Medical Director Claus Thomsen  
Aarhus University Hospital

Chief Medical Officer Jens Friis Bak  
Gødstrup Hospital

Medical Director Michael Braüner Schmidt  
Aalborg University Hospital

Head of Department Jørgen Frøkiær  
Department of Clinical Medicine  
Aarhus University

Head of Department Ole Bækgaard Nielsen  
Department of Public Health  
Aarhus University

Working Environment Responsible Leif Vestbjerg-Nielsen  
FOA Nordjylland

Kredsformand Anja Laursen  
Dansk Sygeplejeråd Midtjylland

Professor Henrik A. Kolstad  
Occupational Medicine  
Aarhus University Hospital

Figure 1: Annual Publications 2008-2022

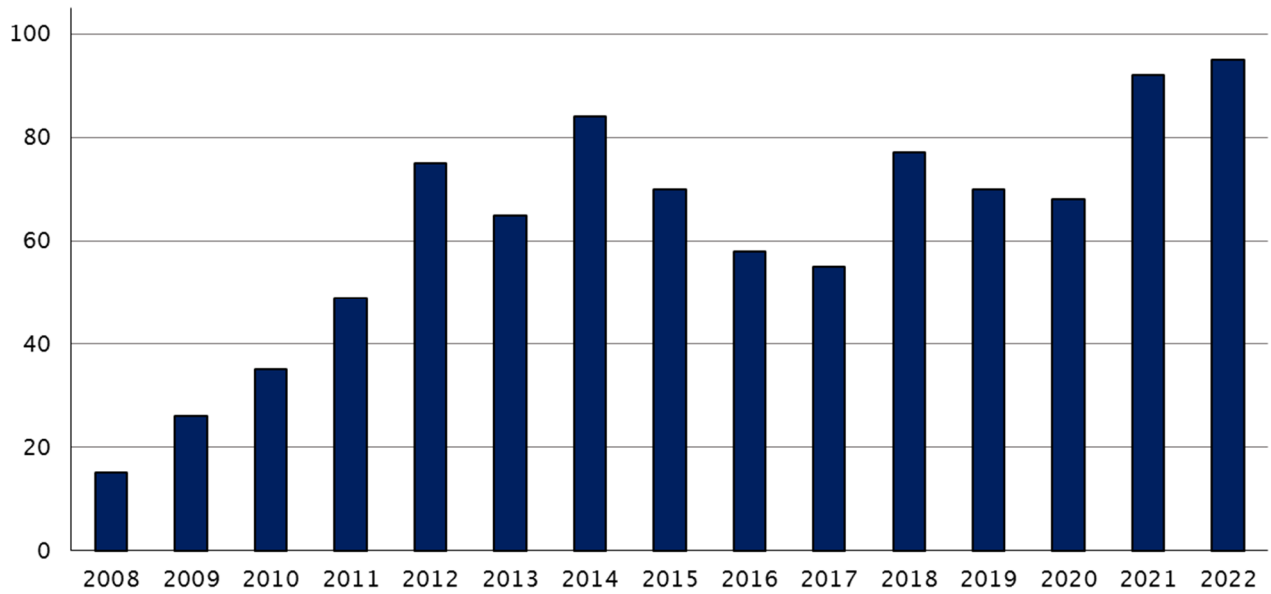
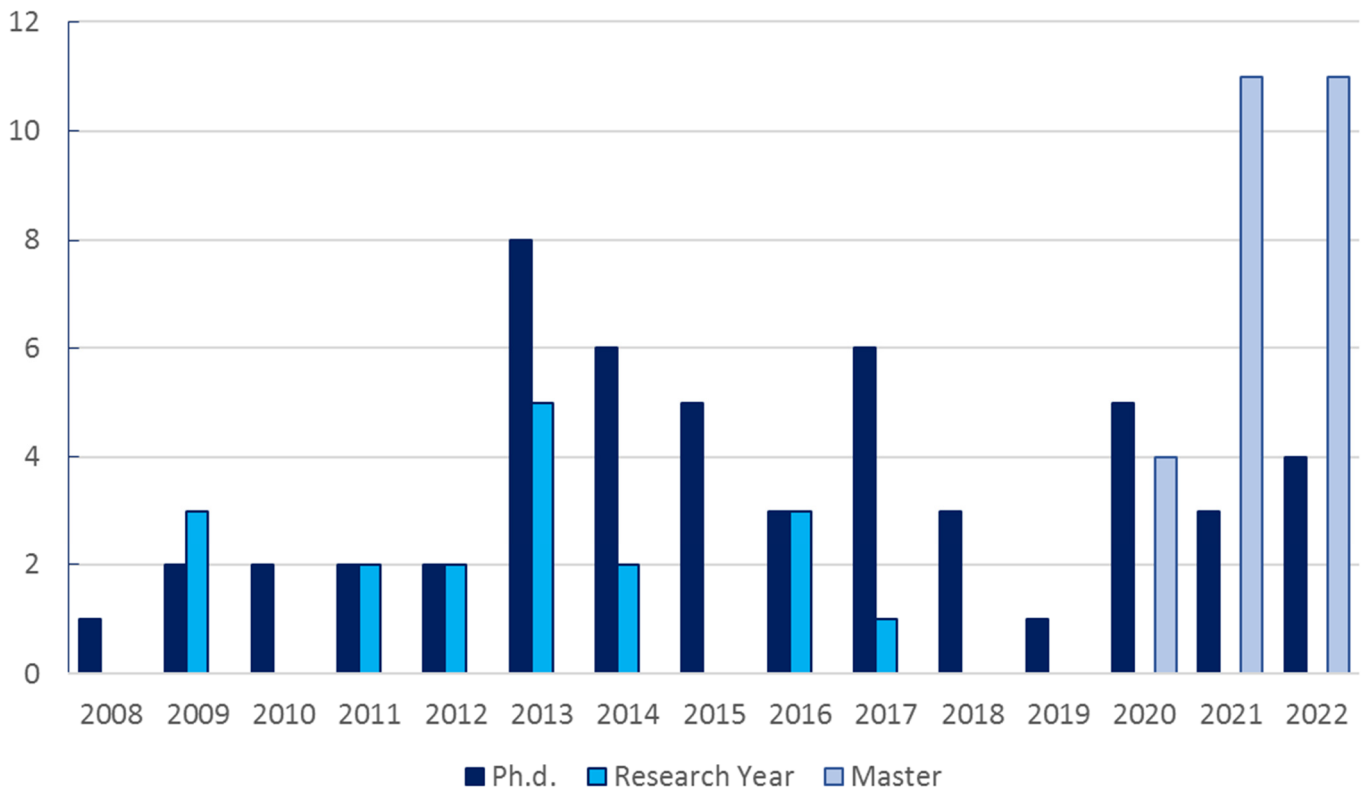


Figure 2: Annual Defences 2008-2022



\* The number of Master's Theses before 2020 are not stated.

## PhD dissertations

**Birgitte Hamann Laustsen (Cand. med.)**

### Occupational asthma and allergy in the Greenlandic fish processing industry

This joint PhD project between Aalborg University and Ilisimatusarfik, Greenland investigated the extent to which occupational diseases and accidents occur in the Greenlandic seafood-processing industry with a primary focus on occupational asthma and allergy.

The seafood-processing industry is the largest industrial sector in Greenland. Former studies have shown a high prevalence of sensitisation to seafood, occupational asthma and allergy among seafood-processing workers in other countries. However, only a few occupational diseases are reported each year in Greenland and underreporting of occupational diseases is suspected. The prevalence of occupational diseases and accidents in Greenland has never been investigated before.

The project concluded that selenium levels appear to continue to decline in Greenland, probably due to a more Westernised lifestyle. Workers in the seafood-processing industry in Greenland showed a high prevalence of sensitisation to snow crab, shrimp and *Anisakis simplex*; a high prevalence of occupational asthma and rhino conjunctivitis and a high incidence of occupational accidents. High exposure levels were measured in the factories. Hence, this indicates a considerable degree of underreporting of occupational diseases in Greenland. Lung function declined markedly during a two-year follow-up concurrently with workers continuing their employment in the seafood-processing industry in spite of having health problems. Thus, preventive measures are required.



**Date of defence:** Juni 27, 2022

#### **Assessment Committee:**

Professor Lene Seibæk  
(Chairman and moderator of the defence)  
Institute of Health & Nature  
University of Greenland  
Greenland

PhD Randi Jacobsen Bertelsen  
Dept. of Clinical Science  
University of Bergen  
Norway

Professor Monika Raulf  
Research Institute for Prevention and  
Occupational Medicine  
University of Bochum  
Germany

PhD Jakob Hjort Bønløkke  
(main supervisor)  
Dept. of Occupational and Environmental  
Medicine  
Aalborg University Hospital and Aalborg  
University

Mia Klinkvort Kempel (Cand. med.)

**The impact of social inequality on cardiometabolic disease risk in young adults**

How do conditions in childhood affect the risk of later cardiometabolic disease? This subject is treated in a PhD project from Aarhus University, Health and Dept. of Occupational Medicine, Goedstrup Hospital.

The project examined early markers of cardiometabolic disease in 264 young adults. Furthermore, the project studied the association between social status, mental and physical health by use of questionnaires, register information and clinical examinations.

The findings in the four studies in this dissertation provided further insight into the intertwined mechanisms of biological, behavioral, psychological and social factors in relation to social inequalities in cardiometabolic disease risk.

The findings support a multidisciplinary and holistic approach in childhood and youth to support the continuing health of all children, including those growing up in families with a lower socioeconomic position.



**Date of defence:** September 23, 2022

**Assessment Committee:**

Associate professor Henriette Nørmølle Buttenschøn (Chairwoman and moderator of the defence)

NIDO | Centre for Research and Education  
Gødstrup Regional Hospital  
Department of Clinical Medicine, Health,  
Aarhus University

Associate professor Erik Hemmingson  
The Swedish School of Sport and Health  
Science  
Stockholm, Sweden

Professor Rikke Lund  
Institute of Public Health  
University of Copenhagen

Professor Johan Hviid Andersen  
(main supervisor)  
Occupational Medicine  
Gødstrup Regional Hospital



Søren Mose (Cand. scient. san., PT)

### Use of healthcare services for people with pain

Chronic pain negatively impacts the lives of millions worldwide and chronic pain has major consequences for the individual, for the healthcare system, and for the society. Not all with chronic pain seek healthcare, but chronic pain is still one of the most common causes of healthcare seeking and people with chronic pain use the healthcare system more frequently than people without pain. Chronic pain management is a challenge, and people with chronic pain often report unsatisfactory healthcare courses.

The overall purpose of this project PhD projects is to explore how and why people with chronic pain use healthcare, as well as to explore what defines and modifies healthcare seeking behavior. The project is a sequential mixed method project based on 3 studies, each with its own design and data sources.

The results obtained in the project suggest that expectations, beliefs, and clinical pathways can be altered into a more guideline-concordant management strategy if the patient is approached in an appropriate way.

Future projects could aim to explore and understand the mechanisms behind such change and design/test initiatives and strategies to modify healthcare trajectories for potential over-users of pain-related healthcare. This could include exploring the clinical encounter, communication, and potential for acknowledging the patient's story and situation. It could also be relevant to explore whether healthcare-seeking behavior can be modified in the long term.



**Date of defence:** October 28, 2022

**Assessment Committee:**

Professor Nanna Brix Finnerup  
(Chairman and moderator of the defence)  
Dept. of Clinical Medicine – The Danish  
Pain Research Center  
Aarhus University Hospital

Professor Danielle van der Windt  
Primary Care & Health Sciences  
Keele University, Staffordshire  
United Kingdom

Professor Michael Skovdal Rathleff  
Dept. of Health Science and Technology  
and Faculty of Medicine Musculoskeletal  
Health Center for General Practice  
Aalborg University

Associate professor David Høyrup  
Christiansen (main supervisor)  
Research, Regional Hospital Central  
Jutland, Viborg  
Dept. of Clinical Medicine, Health  
Aarhus University

Cecilie Rud Budtz (Cand. scient. san., PT)

Detection of patients with serious pathology  
in Danish primary care

Primary care physiotherapists' ability to screen their patients for serious pathology is vital for patient safety.

A new PhD-project from the Department of Occupational Medicine, Goedstrup Hospital and the Department of Clinical Medicine, Aarhus University aimed to explore and describe how primary care physiotherapists' ability to screen for serious pathology could be improved.

This included two phases; the first was to gain a deeper understanding of the problems and insecurities physiotherapists are faced with during screening for serious pathology, and the second to prioritise the problems, choosing aspects of the problems amendable to change, and present a possible solution to the problems.



**Date of defence:** December 9, 2022

**Assessment Committee:**

Associate professor Rasmus Østergaard Nielsen (Chairman and moderator of the defence)

Dept. of Public Health, Aarhus University

Professor James Selfe  
Dept. of Health Professions  
Manchester Metropolitan University  
UK

Associate professor Merethe Kirstine Kousgaard Andersen  
Dept. of Public Health  
University of Southern Denmark

Associate professor David Høyrup Christiansen (main supervisor)  
Research, Regional Hospital Central Jutland, Viborg  
Dept. of Clinical Medicine, Health Aarhus University

## Ramazzini Forum 2022

Ramazzini Forum was initiated in 2021. The aim is to gather the entire centre once a month for a one-hour virtual meeting. The topic is decided by the organising department and can cover all aspects of research, from discussion of project ideas to the presentation of final results.

### Programme

14.01.2022: Lars Peter Sønderbo Andersen and Dorte Raaby Andersen, Occupational Medicine – University Research Clinic, Goedstrup Hospital

"Integreret voldsforebyggelse – Et interventionsstudie til forebyggelse af vold og trusler i psykiatrien og Kriminalforsorgen"

11.02.2022: Mattias Sjöström, Dept. of Environmental Medicine, Karolinska Institute

"En Yrkeshygienikers vardag/Everyday life of an Occupational hygienist"

11.03.2022: Katrine Agergård Kaspersen, Dept of Clinical Medicine, AU.

"Exposures and Health Consequences associated with common respiratory tract infections"

08.04.2022: Alexandra Golabek Christiansen, Occupational Medicine, AUH

"Synligt og sikkert arbejde med epoxy: Forebyggelse af eksem med visualisering"

10.06.2022: Jakob Hjort Bønløkke, Occupational and Environmental Medicine, AAUH

"Nye resultater fra aldringsprojektet ALFA i Aalborg"

09.09.2022: Mia K. Kempel, Occupational Medicine – University Research Clinic, Goedstrup Hospital

"The impact of social inequality on cardiometabolic disease risk in young adults"

11.11.2022: Eva Bonefeld-Jørgensen, Manhai Long and Maria Wielsøe, Dept. of Public Health, AU

"Research projects in CAH-ME (Center for Arctic Health and Molecular Epidemiology)"

09.12.2022: Alexander Jahn Jensen, Occupational Medicine, AUH

"Association between occupational mechanical exposures and chronic low back pain: A systematic review and metaanalysis"

## 11th Annual Ramazzini Seminar

Topic: Research Communication

### Program

#### Mandag den 10. oktober 2022

- 09.30–10.00 Registrering og kaffe
- 10.00–10.15 Velkomst og praktisk info
- 10.15–10.45 **Epoxy Vision**  
Alexandra Golabek Christiansen  
Arbejdsmedicin,  
Aarhus Universitetshospital
- 10.45–11.15 **Asbestose–hvor meget asbest skal der egentlig til?**  
Jakob Bønløkke  
Arbejds- og Miljømedicinsk Afdeling,  
Aalborg Universitetshospital
- 11.15–11.45 **SPRINT: Sustainable plant protection transition**  
Anne Vested  
Institut for Folkesundhed,  
Aarhus Universitet
- 11.45–12.45 Frokost
- 12.45–14.00 Fælles gåtur
- 14.00–15.15 **Formidling i fagblade**  
Journalist Asger Westh og  
redaktør Jonas Højlund  
Fagbladet 3F
- 15.15–15.45 Kaffepause
- 15.45–17.00 **Forskningens samfundsmæssige aftryk**  
Ole Sørensen  
Det Nationale Forskningscenter for  
Arbejds miljø
- 17.00–18.30 Pause
- 18.30–19.00 Dry Ramazzini
- 19.00–? Middag

#### Tirsdag den 11. oktober 2022

- 07.00–08.30 Morgenmad og tjæk-ud
- 08.30–09.00 **Bedre mental sundhed i ungdommen**  
Christine Leonhard Birk Sørensen  
Arbejdsmedicin,  
Regionshospitalet Gødstrup
- 09.00–10.15 **Arbejds miljøforskningsfondens krav til formidling**  
Steffen Hyldborg,  
Arbejds miljøforskningsfondens
- 10.15–10.30 Kaffepause
- 10.30–11.45 **Profilering på sociale medier**  
Peter Friis Jøppesen  
Kommunikation,  
Aalborg Universitetshospital
- 11.45–12.00 Afrunding
- 12.00– Frokost

#### Tilmeldingsfrist 8. juli 2022

Kirsten Pugdahl: [kirpuq@rm.dk](mailto:kirpuq@rm.dk)

#### Dansk Ramazzini Center

Arbejds- og Miljømedicinsk Afdeling  
Aalborg Universitetshospital

Sektion for Miljø, Arbejde og Sundhed  
Institut for Folkesundhed, Aarhus Universitet

Arbejdsmedicin, universitets klinik,  
Regionshospitalet Gødstrup

Arbejdsmedicin,  
Aarhus Universitetshospital

# Ramazzini Group at Sandbjerg Gods

October 10, 2022



## Projects

### Ongoing PhD Projects 2022

PhD student	Project title	Main supervisor	Department	Enrolled	Funding
Mathias Moselund Rønnow	Occupational mechanical exposures and severe low back disease	Johan Hviid Andersen	RHG	01.12.2022	AMFF
Pernille Bach Steen	The trajectory of stress from adolescence to young adulthood	Karin Biering	RHG	01.08 2022	Sygeforsikringen "danmark"
Christine Leonhard Birk Sørensen	Better mental health in adolescence	Karin Biering	RHG	02.02 2022	Sygeforsikringen "danmark" og KV fonden
Theresa Møller Kynde	Working-life exposome and the association with lung function and obstructive lung disease among men and women	Vivi Schlünssen.	AU	01.02 2022	EPHOR (Exposome Project for Health and Occupational Research)
Jesper Medom Vestergaard	Shift work and risk of cardiovascular disease, breast cancer and depression, a 14-year follow-up study on payroll data	Henrik Kolstad	AUH	01.01 2022	AMFF
Jane Bjerregaard Lauridsen	Systematic evaluation of working conditions and organisation of individual work – a model to decrease sick leave during pregnancy	Rikke Damkjær Maimburg	AUH	01.05 2021	Sundhedsstyrelsen, Arbejds miljøforskningsfonden og Region Midtjylland
Karoline Kjærgaard Hansen	The chemical and biological work environment when recycling municipal waste: The RECYCLE-project	Henrik Kolstad	AUH	01.12 2020	AMFF
Vivi Just-Nørregaard	The role of psychosocial stressors and social inequality in adolescence and young adulthood and later risk of prediabetes or type 2 diabetes	Johan Hviid Andersen	RHG	01.09 2020	IKM, AU
Inge Brosbøl Iversen	Occupational dust exposure and early pulmonary diseases. A study of dust levels and CT findings, the EkSACT-study	Henrik Kolstad	AUH	01.06 2020	AMFF
Signe Frederiksen	Effects of ambient air pollution on birth outcomes and risk of non-communicable diseases – A nationwide register-based study.	Torben Sigsgaard	AU	01.06 2020	Novo Grand Challenges, BERTHA
Asbjørn Kloppenborg	How to synchronize Big Data in health care research in an ethically acceptable manner?	Torben Sigsgaard	AU	01.09 2019	Novo Grand Challenges, BERTHA

PhD student	Project title	Main supervisor	Department	Enrolled	Funding
Christine Cramer	AiRMA – the Airborne and the Respiratory Microbiome and Allergic Diseases	Vivi Schlünssen	AU, AUH	01.07 2019	AU Health
Birgith Engelst Grove	Anvendelse af patientens egne oplysninger (PRO) til ambulant opfølgning hos patienter med kronisk nedsat nyrefunktion	Niels Henrik Hjøllund	RHG	01.09 2018	Karen Elise Jensens Fond, Trygfonden, Helsefonden
Alexandra Golabek Christiansen	Sikkert arbejde med epoxy – kan visualisering reducere hudkontakten og risikoen for eksem?	Henrik Kolstad	AUH	01.05 2018	AMFF
Charlotte Gabel	Health effects from dwelling retrofitting projects in Denmark – A real-life longitudinal intervention study in an interdisciplinary framework.	Torben Sigsgaard	AU	01.06 2017	Innovationsfonden, Realdania
Mette Jørgine Kirkeby	Unge introduktion på arbejdsmarkedet og arbejdsmarkedstilknytning – betydningen af sårbarhed, arbejdsmiljø og arbejde-privatliv konflikter.	Johan Hviid Andersen	RHG	01.04 2014	AMFF
Linda Christie Andrea	Impingement-related shoulder disorders – prognosis and choice of treatment: a prospective cohort study	Susanne Wulff Svendsen	RHG	01.08 2012	AMFF

## Completed PhD Projects 2009-2022

Candidate	Thesis title	Main supervisor	Department	Defence	Funding
Cecilie Rud Budtz	Physiotherapists' use of red flags as a screening method for detection of serious pathology in primary care	David Høyrup Christiansen	RHG	09.12 2022	Danske Fysioterapeuters Fond for forskning, uddannelse og praksisudvikling, Fysioterapi-praksisfonden, RMs Praksis-forskningsfond, Forskningsfond Hospitalsenheden Vest og Aarhus Universitet
Søren Mose	Trajectories of health care service utilisation in people with musculoskeletal disorders in Denmark	Johan Hviid Andersen	RHG	28.10 2022	VIA University College, Gigtforeningen, NIDO, RHG
Mia Klinkvort Kempel	The impact of social inequality and insecurity on the risk of early signs of cardiovascular and metabolic disease in young adults	Johan Hviid Andersen	RHG	23.09 2022	Karen Elise Jensens Fond, RMs sundhedsvidenskabelige forskningsfond
Birgitte Hamann Laustsen	Occupational asthma and allergy in the Greenlandic fish processing industry	Jakob Bønløkke	AAUH	27.06 2022	Polar Seafood, Royal Greenland, Grønlands Sundhedsvidenskabelige Forskningsråd, Arbejdsmarkedets parter, Arbejds miljørådet, Grønlandsbanken, AMFF
Karin Rosenkilde Laursen	Acute health effects of fine and ultrafine particles in indoor air – A human exposure study among vulnerable population subgroups	Torben Sigsgaard	AU	10.12 2021	Realdania, AU
Signe Hjuler Boudigaard	Occupational Exposure to Respirable Crystalline Silica, Styrene and risk of Autoimmune Rheumatic Diseases.	Henrik Kolstad	AUH	24.02 2021	AMFF
Signe Timm	Asthma and farm exposure in early life and across generations.	Vivi Schlünssen	AU	29.01 2021	Sektion for Miljø, Arbejde og Sundhed, AU
Martin Rune Hansen	VEctor Control, Asthma and Diabetes in Uganda (VECADU)	Vivi Schlünssen	AU	16.06 2020	AU, NFA
Kristoffer Norheim	Physical fitness among older manual workers	Pascal Madeleine	AAUH, AAU	12.06 2020	AMFF



Candidate	Thesis title	Main supervisor	Department	Defence	Funding
Liv Marit Valen Schougaard	Liv efter apopleksi	Niels Henrik Hjöllund	RHG	04.06 2020	RM
Kathrine Pape	Stress faktorer på arbejde og i privatliv hos gravide kvinder: Betydning for astma og andre allergiske sygdomme hos børnene	Vivi Schlünssen	AU	15.05 2020	AMFF
Per Høgh Poulsen	Social inequality in childhood and later effects on mental health and overweight	Johan Hvid Andersen	RHG	24.02 2020	Karen Elise Jensens fond og Herning kommune
Sofie Büneman Dalsgaard	Environmental Asbestos Exposure During Childhood and Cancer Risk Later in Life – A Long-term Register-based Cohort Study.	Øyvind Omland	AAUH	30.04 2019	Health, AU
Sorosh Tabatabaeifar	Carpal tunnel syndrome and work: time course of nerve impairment, incidence rates as sentinels of harmful occupational exposure, and prognosis	Poul Frost	AUH	30.11. 2018	AMFF
Marie Vestergaard Vad	Predictors of inguinal hernia repair and chronic postoperative pain – impact of occupational mechanical exposures	Poul Frost	AUH	29.10. 2018	AMFF
Dorte Raaby Andersen	Fængselsbetjentes håndtering af følelsesmæssige krav og belastninger i arbejdet	Thomas Lund	RHG	18.04 2018	AMFF
Stine Daugaard	Occupational light exposure, melatonin, and vitamin D	Henrik Kolstad	AUH	15.12 2017	KI
Pia Viuf Ørby	Cross-Disciplinary studies on pollen in health and environmental sciences	Vivi Schlünssen	AU	13.12 2017	AU
Anita Eskildsen	Work-related stress and cognitive impairments – a longitudinal clinical study	Johan Hviid Andersen	RHG	05.05 2017	AMFF
Ligaya Dalgaard	Treating patients on sick leave due to work-related stress – Two randomized controlled trials of a stress-management intervention	Johan Hviid Andersen	RHG	07.04 2017	AMFF
Thomas Winther Frederiksen	Occupational Noise Exposure and Individual Risk Factors for Hearing Loss and Tinnitus	Henrik Kolstad	AUH	24.03 2017	AMFF
Anneli Clea Bolund	Change in lung function – The impact of organic dust exposure as well as associations with DNA methylation signatures	Vivi Schlünssen	AU	20.01 2017	AU

Candidate	Thesis title	Main supervisor	Department	Defence	Funding
Mette Skovgaard Christensen	Styrene exposure and cancer risk in reinforced plastics workers – A long-term cohort study	Henrik Kolstad	AUH	02.9 2016	AMFF
Mette Lausten Hansen	Sick leave in pregnancy – risk factors and prognosis – Studies among Danish employed women	Cecilia Ramlau-Hansen	AUH	23.05 2016	Ramazzini, AU
Louise Pape Larsen	Life after Stroke – Self-rated health and return to work in a Danish cohort following stroke	Niels Henrik Hjöllund	RHG	02.03 2016	AU
Helene Tilma Vistisen	Short term effects of night shift work on risk of overall breast cancer and breast cancer classified by oestrogen and HER2 receptor status	Henrik Kolstad	AUH	18.12 2015	AMFF
Charlotte Rasmussen	Interpersonal behaviour and risk of workplace violence and threats	Annie Høegh	RHG	17.11 2015	AMFF
Annett Dalbøge	Occupational cumulative mechanical exposures as risk factors for surgery for subacromial impingement syndrome	Johan Hviid Andersen	AUH	25.04 2015	Ramazzini, AMFF, GRASPH, Gigtforeningen, Forsknings-Apparatur-fonden
Else Toft Würtz	Occupational Exposure and COPD – A Danish population-based study	Øyvind Omland	AAUH	24.03 2015	Region Nordjylland
Tanja Kirkegaard	Stress as a sociocultural phenomenon – Exploring the distributed nature of stress in an organizational context	Svend Brinkmann	RHG	06.01 2015	AMFF
Susanne Lund Kristensen	Reproductive function of young Danish women – Long-term effects of prenatal exposure to persistent environmental pollutants	Erik Ernst	AUH	17.11 2014	DSF, Beckett-Fonden, Div. legater og fonde
Birgit Bjerre Høyer	Prenatal exposure to persistent organic pollutants and physical, mental and motor development in young children	Gunnar Toft	AUH	31.10 2014	Ramazzini, AU, FP7
David Høyrup Christiansen	Physiotherapy and shoulder surgery – Exercise treatment before and after decompression surgery in patients with subacromial impingement syndrome	Susanne Wulff Svendsen	RHG	28.10 2014	Ramazzini, DSF
Trine Nøhr Winding	The transition from school to work life – Educational attainment and work environment in a Danish youth cohort	Johan Hviid Andersen	RHG	10.10 2014	AMFF

Candidate	Thesis title	Main supervisor	Department	Defence	Funding
Zara Ann Stokholm	Occupational Noise Exposure, Physiological Stress, and Cardiovascular Health	Henrik Kolstad	AUH	21.02 2014	AMFF
Anne Vested	Reproductive health of young Danish men following prenatal exposure to persistent organic pollutants	Gunnar Toft	AUH	29.01 2014	FSS
Regine Grytnes	Tryghed i nuet - Arbejdssikkerhed blandt tømrerlærlinge i Danmark	Anne Line Dalsgård	RHG	22.10 2013	AMFF
Matias Grynderup	Psychosocial working conditions, physiological stress, and the risk of depression	Henrik Kolstad	AUH	20.08 2013	Ramazzini, Lundbeck A/S
Grethe Elholm	The Effect of Farming Exposure on Allergy and Atopy	Øyvind Omland	AU	10.07 2013	Ramazzini, AU
Simon Grandjean Bamberger	Globalization, pressure to change and psychosocial work environment: the implication of management on mental health	Øyvind Omland	AAUH	25.06 2013	AMFF
Stine Yde Nielsen	Q fever in pregnancy and fetal health: Epidemiological studies	Niels Henrik Hjöllund	RHG	21.06 2013	Ramazzini, AMFF
Louise Møller Pedersen	Integreret ulykkesforebyggelse, delprojekt C	Peter Nielsen	RHG	05.06 2013	AMFF
Berit Hvass Christensen	Maternal occupational exposure during pregnancy and the risk of allergic disease in the children	Vivi Schlünssen	AU	03.06 2013	AAMF, AU
Karin Biering	Life after Heart Disease - Patient-reported health measures and prognosis following PCI treatment	Niels Henrik Hjöllund	RHG	31.05 2013	AMFF, Hjerteforeningen
Jens Christian Jensen	Predictors of care-seeking in general practice for back pain and upper extremity pain - A Danish population-based study	Johan Hviid Andersen	RHG	09.11 2012	AMFF
Morten Søndergaard Jensen	Cryptorchidism in Denmark: Studies of Registry Validity, Disease Etiology, and Timing of Corrective Surgery	Ane Marie Thulstrup	AUH	17.08 2012	AU
Ioannis Basinas	Dust and endotoxin exposure in animal farming populations - Formulating the basis for a model-based exposure assessment approach	Torben Sigsgaard	AU	01.11 2011	AU, GRASPH

Candidate	Thesis title	Main supervisor	Department	Defence	Funding
Morten Vejs Willert	Measures against work-related stress – results from a randomized, wait-list controlled trial of a group-based, cognitive behavioural stress management intervention	Ane Marie Thulstrup	AUH	01.10 2011	AMFF
Tine Rubak	Cumulative physical exposure in the work environment as a risk factor for primary osteoarthritis leading to total hip replacement	Poul Frost	AUH	28.05 2010	AMFF
Claus Dalsgaard Hansen	En sociologisk fortælling om sygefravær	Lisbeth B. Knudsen	RHG	09.04 2010	AMFF
Tine Halsen Malling	Glutathione Peroxidase 1 and asthma. A cross-sectional analysis of associations between genetic polymorphism, enzymatic activity, selenium concentration, oxidative stress and inflammatory disease in a population sample	Øyvind Omland	AAUH	29.06 2009	
Torsten Munch-Hansen	Prevention of Sickness Absence – A study of associations between psychosocial work conditions and health outcomes in a large public services population	Jens Peter Bonde	AUH	12.02 2009	AMFF

## Completed Master Projects 2022

Candidate	Faculty	Thesis title	Supervisors	Department
Emilie Ø. Larsen	Medicine	How does physical activity during youth affect the development of multisite musculoskeletal pain in young adults?	Trine Nøhr Winding	RHG
Emmeli Christensen	Public Health	Is there a dose-response effect of wood dust exposure and development of hand eczema?	Vivi Schlünssen	AU
Heidi Simonsen	Public Health	The association between mental health and gaming in Danish ninth grade students	Karin Biering, Christine L.B. Sørensen	RHG
Ivana Dzabic	Medicine	Occupational exposures and risk of idiopathic interstitial pneumonias: a systematic review	Inge Brosbøl Iversen, Henrik Kolstad	AUH
Maria S. Rasmussen	Public Health	The relationship between Subjective Social Status (SSS) and physical activity for adolescents in 9th grade – a cross-sectional study	Karin Biering	RHG
Marie K. Lange	Public Health	How does subjective social status at age 15 affect the risk of depressive symptoms in young adulthood?	Trine Nøhr Winding, Vivi Just-Nørregaard	RHG
Oliver J. Abildtrup	Medicine	Association between emotional and physical triggers and Takotsubo cardiomyopathy: A systematic review	Alexandra G. Christiansen, Henrik Kolstad	AUH
Sebastian R. Torstensen	Public Health	Occupational noise and ischaemic heart disease	Zara A. Stokholm, Henrik Kolstad	AUH
Sofie B. Damgren	Psychology	Skolelederes indsatser mod følelsesmæssigt høje krav og negative helbreds-konsekvenser	Lars Peter Sønderbo Andersen	RHG
Stine M. Søndergaard	Public Health	The association between sustained physical activity during adolescence and cardiometabolic risk markers in early adulthood: a 15-year prospective cohort study	Trine Nøhr Winding, Mia Klinkvort Kempel	RHG
Tanja L. Barslev	Public Health	The association between number of pain sites and MSK-HQ score in a general population – a Danish cross sectional study	Søren Mose, David H. Christiansen	RHG

## Ongoing Research Projects 2022

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
AiRMA: Airborne Microbiome and Allergic diseases	The study explores the relationship between the airborne and respiratory microbiome and their relation to the occurrence of respiratory allergy.	The study is designed as a cross-sectional study among 600 men; 200 homing pigeon breeders, 200 farmers, and 200 urbanites. From all, swaps from tonsils and nose and airborne dust from sleeping rooms are collected for microbiome analysis. They will also answer questionnaires and have a clinical exam.	AUH (Christine Cramer, Henrik Kolstad) AU (Christine Cramer, Vivi Schlünssen, Torben Sigsgaard, Grethe Elholm)	AU: Dept of Biology, Section for Microbiology. AUH: Dept of Otorhinolaryngology, Head and Neck Surgery.	AU. Ørelæge Hans Skouby's og Hustru Emma Skouby's Fond. 1.800.000	2019–2023
Arm elevation and shoulder complaints	The aim is to examine the relationship between work with arms elevated and the risk of shoulder disorders.	The project comprises four epidemiologic studies, that uses an existing cohort of app 2½ million Danes. The outcome is surgery for subacromial impingement syndrome. Data about work with elevated arms are obtained by linking individual job information (1993–now) to a validated shoulder database with exposure targets based on technical measurements. The exposure–response relationship is examined by logistic regression controlled for other risk factors.	AUH (Annett Dalbøge) RHG (Johan Hviid Andersen)	Bispebjerg Hospital: Dept of Occupational and Environmental Medicine. Washington University. IRSET. University of Angers.	AMFF. Gigtforeningen. 2.163.364	2020–2023
ARMIE: Arrhythmia, Myocardial infarction & the Environment	The main aim of ARMIE is to examine the effect of fluctuating levels in air pollution on cardiovascular patients' risk of various cardiovascular outcomes.	The studies are mainly conducted using the case–crossover method. We include two cohorts. The first one is a cohort of ICD patients with an outcome of arrhythmias. The other cohort includes 14.000 cases of acute myocardial infarction.	AU (Asbjørn Kloppenborg, Torben Sigsgaard, Rasmus Østergaard Nielsen)	AUH: Dept of Cardiology Christoffer Witt, Jens Cosedis, Michael Mæng)	Karen Elise Jensens Fond 3.170.000	2021–2024

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
ASBYG: Is there harmful exposure to asbestos in the building industry in Denmark? Optimised methods for quantification and health monitoring	Collect samples and measure asbestos exposure in a representative part of work tasks within demolition and renovation of buildings in Denmark. To optimise and if possible partly automatize measurement and registration methods. To estimate the occurrence of fibrosis on CT scans of construction workers.	Wearable and stationary measurements at the construction sites. Development of app and lab techniques.	AAUH (Jakob Bønløkke) AU (Vivi Schlünssen, Torben Sigsgaard) AUH (Henrik Kolstad, Inge Iversen)	Joblife Kolding. AMI.	AMFF 3.000.000	2019– 2023
Association between occupational exposures and hip arthritis: A systematic review	Identify and evaluate the current epidemiological knowledge on relation between development of hip arthritis and work related exposure.	Systematic review of existing literature.	AUH (Annett Dalbøge, Alexander Jahn Jensen) RHG (Johan Hviid Andersen, David Høyrup Christiansen)	Technische Universität Dresden (Prof. Andreas Seidler)	AMFF 738.299	2022– 2023
Occupational mechanical exposures and severe low back disease			RHG (Mathias Moselund Rønnow, Johan Hviid Andersen, David Høyrup Christiansen)		AMFF 2.200.000	2022– 2024
Association between occupational mechanical exposures and chronic low back pain: A systematic review and meta-analysis	Identify and evaluate the current epidemiological knowledge on relation between chronic low back pain and work-related exposure.	Systematic review of existing literature.	AUH (Annett Dalbøge, Alexander Jahn Jensen) RHG (Johan Hviid Andersen, David Høyrup Christiansen)	Technische Universität Dresden (Prof. Andreas Seidler)	AMFF 693.240	2021– 2022

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
BE-READY: Health, measured and felt indoor climate before and after renovation of social housing areas.	The study explores how environmental exposures affect the respiratory health of residents. In addition how housing renovation affects these conditions.	Prospective longitudinal natural experiment, where the participants are their own control and the renovation is done independently. The data collection is done in the heating and non-heating season. Self-reported data of demography, health, lifestyle and felt climate. Lung function test and indoor climate measurements over 14 days.	AU (Charlotte H Gabel, Grethe Elholm, Søren Kjærgaard)	Boligforeningen Ringgården. Helhedsplanen Trigeparken. Fyns Almennyttige boligselskab Institut. AU: Dept of Engineering.	Realdania 4.000.000	2015–2022
BERTHA (Big Data Centre for Environment and Health).	BERTHA aims to explore the environment's (air, water and soil) effect on somatic disorders.	Studies of the Danish population via registers, including health-, social-, and environmental registers.	AU (Vivi Schlünssen, Torben Sigsgaard, Signe Frandsen, Jörg Schullehner, Rasmus Østergaard, Asbjørn Kloppenborg)	AU: ENVS CIRRAU. AUH: DBDS, Heart. Utrecht University. Harvard School of Public Health.	Novo Nordisk Fonden 15.000.000	2019–2024
Better mental health in adolescence			RHG (Christine Leonhard Birk Sørensen, Karin Biering)		Sygeforsikringen "danmark", KV fonden	2022–2024
CANDLE (Candle Developed for Low Emission).	In the CANDLE project, we examine the health consequences of two different candles: a standard candle and a candle with low particle emission.	A randomised controlled double-blind, crossover study among 20 young asthmatics. The test persons are exposed to a standard candle and a low emission candle for 5 hours 14 days apart. Their health is measured before, after, and 24 hours following exposure.	AU (Søren Kjærgaard, Karin Rosenkilde Laursen, Torben Sigsgaard)	AU: Dept of Chemistry, KU: Dept of Public Health. Technological Institute, Aarhus, ASP Holmblad, Coop Danmark, Danwax, Lund University, Liljeholmens Stearinfabrik, Promol, European Candle Association.	Innovationsfonden 1.000.000	2019–2022



Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
CARDit: Shift work and risk of cardiovascular disease and breast cancer, a 10-year follow-up study based on daily work hour recordings.	To explore the relationship between shift work and cardiovascular disease and breast cancer, the importance of duration and intensity of work time patterns and potentially vulnerable groups of workers.	Follow-up study of 260.000 regional employers 2007–2015. Daily data about work time from Danish Working Hour Database, outcome data from the National Patient Register. Rate ratios are estimated in Poisson models adjusted for a series of covariates.	AUH (Jesper Medom Vestergaard, Annett Dalbøge, Henrik Kolstad)	Finnish Institute of Occupational Health. NFA. KU: Dept of Public Health. The Danish Cancer Society. AUH: Dept of Plastic and Breast Surgery. Bispebjerg Hospital: Dept of Occupational and Environmental Medicine.	AMFF 2.820.000	2019–2022
COBRA: COVID-19 among Regional Employers.	The aim is to identify risk factors for SARS-CoV-2 infection among hospital workers.	A longitudinal study with daily questionnaires linked to PCR and serology for SARS-CoV-2 and other register-based information of health and work.	AUH RHG AU	Bispebjerg Hospital: Dept of Occupational and Environmental Medicine. AUH: Depts of Infectious Diseases, Clinical Immunology, and Clinical Microbiology.	Region Midtjylland 525000. AMFF 1.800.000	2020–2025
Cross-organisational intervention against stress	The project aims to conduct and evaluate an intervention to prevent organisational stress.	The intervention is conducted at 3 large companies. The effect of the intervention is evaluated both quantitatively in an interrupted time-series design and qualitatively by interviews and observations.	RHG (Trine Nøhr Winding)	AU: Dept of Psychology and Behavioural Sciences. NFA.	AMFF 2.100.000	2019–2022
Detection of severe disease in physiotherapy practice.	The project aims to examine the knowledge of Danish practice physiotherapists regarding severe diseases, as this can be of major importance for patient safety.	The three studies in the project are designed as a cohort study, cross-sectional study, and comparative pre- and post-test study. Data are obtained from national health registers (Public Health Insurance Register, National Patient Register and the Cancer Register) and a questionnaire survey among practice physiotherapists.	RHG (Cecilie Rud Budtz, David Høyrup Christiansen)	AAU: Center for General Practice. Medical consultant and practice consultant for physiotherapy from Region Midt.	Fysioterapipraksisfonden, Danske Fysioterapeuters fond, AU, Hospitalsenheden Vest, RM Forskningsfond. 2.183.500	2019–2022

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
DOC*X DUST Working in dust and ischemic heart disease. A national register-based follow-up study from 1970–2020			AUH (Zara Ann Stokholm, Henrik Kolstad)¶AU (Vivi Schlünssen)	Bispebjerg Hospital: Dept of Occupational and Environmental Medicine.	AMFF 3.408.000	2022–2023
DWB: Drinking Water and Birth Outcomes.	DWB aims to explore the effect of drinking water on negative birth outcomes.	Studies of the Danish population via registers, including health-, social-, and environmental registers.	AU (Torben Sigsgaard, Jörg Schullehner)	AU: GEUS, CIRRAU. KU. UIC. NCI.	NIEHS R01 6.000.000	2018–2021
EkSACT: Occupational dust exposure and early pulmonary diseases.	The study aims to analyse the relationship between dust levels and early COLD and lung fibrosis and to determine the occurrence of early COLD and lung fibrosis in professions and fields in the Danish labour market.	A cross-sectional study of 25.000 employers who have had a lung CT scan. The extent of lung changes is decided by CT-analysis software. Dust exposure is estimated from the participants' work history and job exposure matrices.	AUH (Inge Brosbøl Iversen, Henrik Kolstad, Else Toft Würtz, Zara Ann Stokholm) AU (Vivi Schlünssen). AAUH (Jakob Bønløkke)	Bispebjerg Hospital AUH: Depts. of Radiology, Respiratory Diseases and Allergy, Medical Technology. Herlev and Gentofte Hospital Utrecht University: Institute for Risk Assessment Sciences.	AMFF 3.600.000	2020–2023
EPHOR: Exposome project for health and occupational research.	This EU project seeks to explore the relationship between all work related exposures (working life exposome) and chronic diseases. DRC is partner in more work packages, the most important being WP6 (Working life exposome, lung function and COPD), WP2 (Assessment of multiple exposures in large populations), and WP5 (EPHOR mega cohort).	EPHOR applies existing data from cohorts with occupational information in combination with the collection of new data of both exposure and outcome focusing on night work (WP7) and respiratory disease (WP6). JEMs are central in EPHOR, including the development of a EuroJEM.	AU (Anne Mette Lund Würtz, Theresa Kynde Møller, Kirsten Østergaard, Christine Cramer, Vibeke Heitmann Gutzke, Torben Sigsgaard, Vivi Schlünssen) AUH (Henrik Kolstad, Annett Dalbøge, Else Toft Würtz, Kirsten Pugdahl, Morten Vejs Willert, Mette Wulf Christensen).	18 European partners. The coordinating centre is TNO from Holland.	Horizon 2020. Sci-BHC-2018-2020 8.600.000	2020–2024

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
EPOXY VISION: Working safely with epoxy - can visualisation reduce skin contact and risk of eczema?	To examine if UV-visualisation of skin contact with epoxy can reduce the risk of skin exposure, epoxy sensitization, and eczema.	A randomised controlled study of 200 workers in the wind turbine industry. All participants have quantified epoxy-fluorescence, but only the intervention group gets to know the result. Outcomes are later epoxy-fluorescence and skin sensitization determined by a patch test.	AUH (Alexandra Golabek Christiansen, Henrik Kolstad) AU (Vivi Schlünssen) RHG (Ole Carstensen). AAUH (Jakob Bønløkke).	AUH: Dept of Dermatology. NFA. Lund University. Siemens-Gamesa.	AMFF 3.399.035	2018-2023
Importance of psychosocial stressors and social inequality in adolescence and early adulthood for the risk of developing prediabetes (PD) and type 2 diabetes (T2D).	1) To examine the relationship between psychosocial stress in adolescence and early adulthood and the risk of PD and T2D. 2) To examine the importance of loneliness and stigmatization for weight in adolescence and early adulthood. 3) To identify psychosocial risk factors in adolescence and early adulthood as predictors of PD and T2D.	All sub-studies in this ph.d.-project use data from the Vestliv cohort, including data from a new collection round in 2021. Register data will also be applied. Information of the participants' PD or T2D status is collected via blood tests, measuring the HbA1c level etc.	RHG (Vivi Just-Nørregaard, Trine Nøhr Winding, Johan Hviid Andersen)	AU: Dept of Psychology and Behavioural Sciences. Steno Diabetes Center Aarhus.	Klinisk medicin, AU 1.800.000	2020-2023
Intermittent sickness absence in two large organisations.	The aim is to identify patterns and reasons for repeated episodes of intermittent sickness absence in two large Danish organisations to develop guidelines for leaders/organisations to help them find a more appropriate approach for this type of sickness absence.	Questionnaires and qualitative interviews.	RHG (Regine Grytnes, Trine Nøhr Winding)	AU: Dept of Psychology and Behavioural Sciences. AAU: Dept of Sociology and Social Work	AMFF 2.600.000	2020-2023

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
Long-term health consequences of electrical shocks.	This study aims to explore the extent and severity of late complications after electrical shocks.	A retrospective register-based matched cohort study exploring permanent complications, disease, use of health services, and occupational prognosis following electrical shocks. A prospective cohort study exploring the incidence and characteristics of electrical injuries among 70.000 electricians, and consequent development of symptoms and diseases.	RHG (Anette Kærgaard, Karin Biering, Ole Carstensen, Kent Nielsen)	The Danish Union of Electricians.	AMFF 3.000.000	2017- 2022
Measuring precarious work among young Danish employees.	The overall aim is to develop and validate a Danish questionnaire to measure precarious work among young employees in the Danish labour market. The aim is also 1) to explore the organisational work environment and the mental health of precarious workers, and 2) to identify psychological and social risk factors in adolescence and early adulthood for precarious work among young employees.	Method: Literature search, Operationalisation and adaptation of the term precarious work via theoretical discussions with sociologists and the labour market parties, Formulation of questions and answer scales based on above and available validated measuring tools, a Pilot test of a new measurement tool, Distribution of a questionnaire in the existing cohort study VestLiv year 1983+1989. Examine the reliability and validity of the developed questionnaire.	RHG (Per Høgh Poulsen, Johan Hviid Andersen, Trine Nøhr Winding, Karin Biering)	AAU: Dept of Sociology and Social Work (Rasmus Juul Møbjerg)	Velliv Foreningen 2.385.136	2021- 2024

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
Mechanical exoskeletons to reduce shoulder strain in Danish slaughterhouses – a field study.	The aim is to examine the use of mechanical exoskeletons in industrial slaughterhouses, including the ability of the exoskeletons to reduce shoulder strain, as well as possible barriers for their use in the daily work at Danish slaughterhouses.	The project is conducted as a mixed-methods-study, where reduction in physical shoulder exposures and possible applications of exoskeletons are examined by both a quantitative study (EMG and accelerometer) and a qualitative sub-study (observations and interviews).	RHG (David Høyrup Christiansen, Regine Grytnes, Jeppe Frist Andersen) AUH (Annett Dalbøge)	Danish Crown Ringsted. Université Laval Canada.	AMFF 2.462.830	2020–2023
Mental wellbeing of young people in their first job. Impact of performance, work environment and temporariness.	The aim is to clarify how temporariness, performance culture and work environment impact the mental wellbeing of young people in their first job.	The youth cohort 'Vestliv' is used to explore the significance of mental health in the early working life, as well as the significance of temporary employment and work environment strain on the development of mental health problems. Additionally, 50 interviews of young people in their first job in professions characterised by temporariness, mental health problems and performance pressure.	RHG (Trine Nøhr Winding, Regine Grytnes, Luna Marie Nielsen, Mette Toft Rønberg)	Cefu. AAU.	Velliv Foreningen 2.194.654	2020–2022
Muscle- and skeletal problems – Impacted by the workplace culture?	The aim is to explore how the workplace culture affects the approach of muscle- and skeletal problems (MSP-culture), and how the MSB-culture impacts workability and sickness absence in professions with high physical work demands.	The project is conducted as a mixed-method study, where quantitative (questionnaires) and qualitative (observation and interview) methods are combined. The study is done among workers in two fields with high physical work demands: Slaughterhouse workers and employees in the nursing sector.	RHG (David Høyrup Christiansen, Johan Hviid Andersen, Dorte Raaby Andersen, Kent J. Nielsen)	Danish Crown. Tican. Ringkøbing-Skjern municipality.	AMFF 2.999.860	2018–2023

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
PASVAP: Acute health effects following exposure to passive vapour from e-cigarettes. A randomised controlled cross-over study among COLD patients.	PASVAP aims to examine if passive vapour from e-cigarettes affects the health of COLD patients.	A randomised controlled double-blind crossover study among 16 COLD patients was done at the climate chambers at Aarhus University. The subjects are exposed for respectively pure air and passive vapour for 4 hours with 14 days in between. Their health is measured before, after and 24 hours following exposure.	AU (Karin Rosenkilde Laursen, Torben Sigsgaard) AAUH (Jakob Bønløkke)	AU: Dept of Chemistry. AUH: Dept of Respiratory Diseases and Allergy. Göteborg Universitet.	-	2016-2022
PEXADU: Pesticide Exposure, Asthma and Diabetes in Uganda.	PEXADU aims to examine the possible relationship between exposure to specific pesticides, decreased lung function and increased blood sugar/diabetes.	A short-time cohort study among Ugandan smallholder farmers from Sept. 2018 to Feb. 2019.	AU (Martin Rune Hassan Hansen, Vivi Schlünssen, Erik Jørs, Anelli Sandbæk, Daniel Sekabojja, John Ssempebwa, Ruth Mubeezi, Philipp Staudacher, Samuel Fuhrmann)	AU, NFA, OUH, Steno Diabetes Center Aarhus, Makerere University School of Public Health, Uganda National Association of Community and Occupational Health, Swiss Federal Institute of Aquatic Science and Technology, Inst. of Biogeochemistry and Pollutant Dynamics	AU, NFA 2.300.000	2017-2022
Prevention of cattle handling related accidents - Development of measurable indicators.	This project aims to develop measurable indicators for safe work with dairy cattle in farming with a special focus on the physical environment, the behaviour of the animals, and interaction between humans and animals.	Analyses of earlier accidents, technology assessment, video recordings of the handling of cattle.	RHG (Kent Nielsen)	SEGES. AU: Dept of Engineering and Danish Centre For Food and Agriculture.	AMFF 2.300.000	2020-2023
PRO-MENTA: Consequences of organisational changes for productivity and mental health.	The project aims to examine the consequence of major organisational changes for employee sickness absence and mental health and	A cohort study based on all employees at Aarhus University Hospital in the period 2013-2020. The persons are embedded in their departments and the de-	AUH (Morten Vejs Willert, Lea Nørgaard Sørensen) RHG (Marianne Kyndi)	AU: Dept of Psychology and Behavioural Sciences. Bispebjerg Hospital: Dept of Occupational	Velliv Foreningen 2.120.134	2021-2023

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
PRO-RISK: Prognosis for future work life and health and identification of groups at risk for work-related disorders	workplace productivity and staff turnover to identify risk factors for negative consequences.  Aim: 1) To establish a national occupational medicine cohort. 2) To explore the long-term prognosis for the major patient groups. 3) To develop prognostic models for work and health for patients with occupational mental health problems.	partments are set equal at an index month 0 defined by moving time. The cohort is followed-up in regional and national registers from 2 years before and 2 years after the move. The exposure is divided into move, move+division, and move+merging.  The cohort is established in collaboration with DOC*X and includes app. 160.000 patients examined at the occupational medicine clinics from the year 2000 and forwards. Register data are obtained from 5 years before inclusion and forwards from the National Patient Register, the Public Health Insurance Register and DREAM and other registers. Furthermore, matrices of mental work environment, lifestyle etc. developed by DOC*X is used. The project is solely register-based.	AUH (Morten Vejs Willert) RHG (Marianne Kyndi)	and Environmental Medicine.  AU: Dept of Psychology and Behavioural Sciences.	AMFF 1.647.000	2019-2023
Ramazzini guest professor	To establish the Danish Ramazzini Centre Biobank, a research infrastructure compiling nine Ramazzini cohorts with biobanked material with the objective to delineate work life exposures, biological mechanisms and chronic diseases.	Close collaboration with Karin Broberg, Lund University and Karolinska Institutet as a visiting professor at Danish Ramazzini Center.	AUH, RHG, AU, AAUH	Lund University, Karolinska Institutet, NFA	AUFF 223.000	2022-2023

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
ReVALUE: Health measured and felt indoor climate before and after renovation of social housing areas	The study explores how indoor climate exposures affect the respiratory health of the occupiers and finds potential for added value, besides energy efficiency, in housing renovation. Furthermore, how housing renovation affects these conditions.	The study is designed as a prospective longitudinal natural experiment, where the participants are their own control and the renovation is done independently. The data collection is done in the heating and non-heating season. Self-reported data of demography, health, lifestyle and felt climate. Lung function test and indoor climate measurements over 14 days.	AU (Charlotte H Gabel, Grethe Elholm, Søren Kjærgaard)	AART, AIRMASTER, Amplex, Alexandra instituttet, Brabrand boligforening, Develco Products, DEAS, Enemærke & Petersen A/S, Helhedsplanen for Gellerup og Toveshøj, Idealcombi, MTHøjgaard, RACELL og Wicotec Kirkebjerg.	Innovationsfonden 3.500.000	2016– 2022
RHINE: Risk factors for asthma in adults	RHINE aims to analyse risk factors for respiratory disease and allergy.	Cohort study based on questionnaires and clinical evaluations.	AU (Vivi Schlünssen, Torben Sigsgaard, Signe Timm, Kathrine Pape Madsen)	Nordic Multicentre study, 7 centres.	Træstøvsfonden 460.000	2010– 2023
RHINESSA: Trans-generational study of asthma, allergy and inflammatory bowel disease	RHINESSA aims to analyse risk factors for respiratory disease and allergy in generations.	Cohort study based on questionnaires and clinical evaluations.	AU (Vivi Schlünssen, Torben Sigsgaard, Signe Timm, Kathrine Pape Madsen)	International multi-centre study, 12 centres.	AU Træstøvsfonden 2.000.000	2013– 2023
Safe and allergy-friendly housing in Lisbjerg	Interdisciplinary research project focusing on collecting qualitative and quantitative knowledge from persons with diverse chemical hypersensitivity before and after moving into new allergy-friendly housing.	The qualitative study comprises interviews with app. 7 of the persons wishing to move into the new housing. The quantitative study comprises a questionnaire regarding symptoms and self-reported health sent to all occupants and repeated after 6, 12 og 24 months.	AU (Grethe Elholm, Torben Sigsgaard are advisors of the project)	AAUH: Center for funktionelle lidelser, Foreningen Sunde Boliger (Mette Feldmeier), MOE rådgivende ingeniører.	Realdania 500.000	2022– 2025



Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
SERMAB: Styrene Exposure and Risk of Malignant Blood diseases	To examine if exposure to styrene, a versatile plastic, increases the risk of malignant blood diseases in humans.	Follow-up study of 100.000 persons, who since 1947 have worked in 762 fibreglass companies in Finland, Italy, Great Britain, USA and Denmark. Malignant blood diseases are identified in national registers of causes of death and cancer registers. Exposure levels are determined using an industry-specific quantitative JEM.	AUH (Mette Wulf Christensen, Henrik Kolstad) AU (Vivi Schlünssen)	AUH, Haematology, Finnish Cancer Registry, San Martino Teaching Hospital, Liguria Mesothelioma Registry, Emilia-Romagna University Hospital, Turin MRC, Life Course Epidemiology Unit Southampton, IOM, NIOSH, IsGloba, University of Nebraska, IARC, STAMI.	Karen Elise Jensens Fond 2.500.000	2021-2023
SPRINT: Sustainable plant protection products and their effects on ecosystems, plants, animals and humans	SPRINT aims at exploring pesticides (plant protection products) in humans, animals, plants and ecosystems in 11 European countries and Argentina.	Among conventional and ecological farms, neighbours and closely living families, we will examine the pesticides levels. Based on these results we will develop a tool to evaluate the pros and cons of pesticide use in the EU.	AU (Anne Vested, Kirsten Østergaard, Vibeke Heitmann Gutzke, Torben Sigsgaard, Vivi Schlünssen)	21 European partners. The coordinating centre is Wageningen University in Holland.	Horizon 2020. H2020-SFS-2018-2020. 1.567.000	2020-2024
Stress and mental health in adolescents	Stress: To develop and validate a prediction model to identify adolescents with a risk of high levels of stress in early adulthood. Mental health: To identify protective factors during adolescence and early adulthood that mitigate the associations between risk factors and poor mental health. Other related purposes: To validate and to test the reliability of the perceived stress scale (PSS) in a youth population	Vestliv, FOCA, register, questionnaires	RHG (Karin Biering, Christine LB Sørensen, Pernille Bach Steen)	AUH: Depts of Psychiatry and Clinical Epidemiology (KEA) AU: Dept of Psychology University of Groningen	Sygeforsikringen Danmark. 5.000.000	2022-2026

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
Systematic evaluation of working conditions and organisation of individual work – a model to decrease sick leave during pregnancy	The project aims to start and evaluate an intervention focusing on work organisation for pregnant employees at AUH via tripartite dialogue, and thus possibly reduce the sickness absence.	The intervention is conducted in a cluster randomised design with the participation of departments at AUH. Half of the departments receive the intervention while the other half follows usual procedures. The primary effect of the intervention is measured by the number of days with sickness absence in the intervention and control groups.	AUH (Jane Bjerregaard Lauridsen, Rikke Damkjær Maimburg, Mette Lausten Hansen, Ane Marie Thulstrup)¶RHG (Dorte Raaby Andersen).	AUH: Dept of Obstetrics and Gynaecology.	Sundhedsstyrelsen, AMFF, RM Folkesundhed i Midten, Jordemoderforening en 6.064.175	2019–2024
The chemical and biological work environment when recycling municipal waste: The RECYCLE-project	The study aims at documenting exposure levels and early health effects by recycling the municipal waste in Denmark. Furthermore, the study aims at identifying factors in production that can lead to increased exposure levels by recycling municipal waste.	The study is designed as a cross-sectional study among 150 selected workers from 30 small and large, private and municipal sorting- and recycling companies. Exposure levels are estimated from person worn measurements and blood samples, and early health effects by lung function test and questionnaire etc.	AUH (Karoline Kærgaard Hansen, Henrik Kolstad) AU (Vivi Schlünssen, Torben Sigsgaard)	NFA. Karolinska Institutet. 3F. Dansk Industri. Dansk Kompetencecenter for Affald (DAKOFA).	AMFF 4.000.000	2020–2023
The impact of social inequality and insecurity on the risk of early signs of cardiovascular and metabolic disease in young adults	To examine the mediating psychosocial factors in adolescence for socioeconomic status' influence on cardiovascular risk markers in young adults. Significance of social inequality and insecurity for development of overweight in 12 years.	This ph.d.-project is based on the VestLiv cohort, a longitudinal epidemiological study. This project follow-up when the participants are 27/28-years old with a new questionnaire, and 300 are selected for clinical evaluations of early signs of cardiovascular and metabolic disease, with a particular focus on cardiovascular risk factors and overweight.	RHG (Mia Klinkvort Kempel, Trine Nøhr Winding, Johan Hviid Andersen)	Hjerteforskningsklinikken, Kardiologisk Afdeling, Regionshospitalet i Herning.	Karen Elise Jensens Fond 2.200.00	2017–2022
The trajectory of stress from adolescence to young adulthood			RHG (Pernille Bach Steen, Karin Biering)		Sygeforsikringen "danmark"	2022–2024

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
Trajectories of health care service utilisation in people with musculoskeletal disorders in Denmark	The project establishes how patients with muscle and joint pain use and experience the Health system. The project also explores the possibility of changing long-lasting examination- and treatment courses.	A cohort study and a qualitative substudy. The project compares register- and questionnaire data from 5068 patients, who in 2008 answered several questions on work-life, doctor visits and health, including pain in muscles and joints. Attachment to the labour market, use of medicine, and health services over 10 years are analysed. These data are complemented by focus group interviews and questionnaires from selected patients.	RHG (Søren Mose, David Høyrup Christiansen, Johan Hviid Andersen)	VIA University College. AU Health. Curtin University.	VIA University College. NIDO Danmark. Gigtforeningen. RM Forskningsfond. 2.077.220	2018-2022
"Trods alt – på arbejdet med et smil". Workplace protection of employees against stress reactions and high emotional demands.	1. To identify workplace protective factors for reducing the relation between emotional demands and mental health problems. 2. To explore how workplaces with high emotional demands effectively at the individual, group, and workplace level prevent mental health problems 3. To develop and validate guidelines for prevention of mental health problems in occupations with high emotional demands.	Three rounds of questionnaires in professions with high work demands. Qualitative interviews at selected workplaces with successful preventive strategies.	RHG (Lars Peter Andersen, Dorte Raaby Andersen)	Odense University Hospital: Occupational and Environmental Medicine.	AMFF 2.132.000	2020-2023

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
Ultrafine – Acute health effects following exposure to fine and ultrafine particles from candles and cooking smoke. A randomised controlled crossover study in young asthmatics	The ultrafine project I designed to clarify if exposure to fine and ultrafine particles from candles and cooking smoke causes health problems in young asthmatics.	A randomised controlled double-blind crossover study among 36 young asthmatics. The subjects are exposed to clean air, candles and cooking smoke for 5 hours. The exposures are done with 14 days in between. The subjects' health is measured before, after, and 24 hours following exposure.	AU (Karin Rosenkilde Laursen, Torben Sigsgaard)	AU: Depts of Chemistry and Clinical Medicine KU: Dept of Public Health.	Realdania 2.800.000	2017–2022
Violence in psychiatric departments in the Region of Southern Denmark	A study of short- and long-term stress and trauma reactions following severe violence and threat incidents in psychiatric workplaces and protecting effect of social support at the workplace.	1. To clarify the frequency and extent of short- and long-term stress and trauma reactions following severe workplace violence and threat incidents. 2. To explore if social support at the workplace after exposure to severe violence is protective for the development of stress and trauma reactions.	RHG (Lars Peter Andersen)	Odense University Hospital: Occupational and Environmental Medicine.	Region Syddanmark 500.000	2019–2022
Violence, threat and harassment against public school teachers	To explore frequency of violence, threat and harassment against school teachers. To identify risk and protective factors in the work environment for teachers' mental health and work commitment. To analyse the relationship between violence, threats and harassment and teachers' mental health To develop preventive initiatives for school leaders and school directing boards.	Two questionnaire studies among teachers and leaders at 98 schools with one year in between. Three short questionnaire studies with 3 months in between. Qualitative interviews with teachers, leaders, and work environment representatives (AMIR) at 13 schools.	RHG (Lars Peter Andersen, Trine Nøhr Winding)	NFA	AMFF 3.000.000	2018–2022

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