

Psychosocial Occupational Epidemiology

Hotel Marienlyst, Helsingør, Denmark

26.11.2019 – 28.11.2019

Tuesday, 26.11.2019

Day 1 – Historical roots and developments of concepts and models in the field of psychosocial occupational epidemiology

09.30–09.45 Course registration and coffee

10.00–10.30 **NIVA welcome, introduction and presentation round**

Morten Jakobsen, NIVA
Reiner Rugulies

10.30–12.00 **What is psychosocial epidemiology? History and developments**

Reiner Rugulies

Literature:

1) Krieger N. Social epidemiologic alternatives. Sociopolitical and psychosocial frameworks. In Krieger N., *Epidemiology and the people's health. Theory and context* (pp.163-201). New York, NY: Oxford University Press; 2011.

12.00–13.00 *Lunch*

13.00–14.00 **Social capital**

Reiner Rugulies
Elisabeth Framke

Literature:

1) Szreter S, Woolcock M. Health by association? Social capital, social theory, and the political economy of public health. *International Journal of Epidemiology*. 2004;33(4):650-667.

You may also want to go to the website of the journal

<https://academic.oup.com/ije/issue/33/4> and read the comments to this article (pages 667-700) and the responses by Szreter & Woolcock (pages 700-704) and by Szreter (pages 705-709).

2) Framke E et al. Effect of a participatory organizational workplace intervention on workplace social capital: post-hoc results from a cluster randomized controlled trial. *BMC Public Health*. 2019;19(1):693.

14.00–15.00 **Psychosocial work environment models**

Elisabeth Framke
Reiner Rugulies

Literature:

1) Theorell T, Karasek R. Current issues relating to psychological job strain and cardiovascular disease research. *Journal of Occupational Health Psychology*. 1996;1(1):9-26.

2) Siegrist J. Adverse health effects of high-effort/low-reward conditions. *Journal of Occupational Health Psychology*. 1996;1(1):27-41.

3) Kasl SV. The influence of the work environment on cardiovascular health: a historical, conceptual, and methodological perspective. *Journal of Occupational Health Psychology*. 1996;1(1):42-56.

4) Semmer NK et al. Stress as Offense to Self: a promising approach comes of age. *Occupational Health Science*. 2019;3(3):205-238.

Please note: Articles 1-3 were published together. Articles 1 and 2 describe two psychosocial work environment models, article 3 is a comment and critique of articles 1 and 2.

15.00–15.30 *Coffee, tea and refreshments*

15.30–17.00 **Retirement and extended working life: Health, stressors and health behaviours** Sari Stenholm

17.00–19.00 *Free time*

19.00– *Dinner at the hotel*

Wednesday, 27.11.2019

Day 2 – Measures and methodological issues in psychosocial occupational epidemiology

9.00–9.30 **Measuring psychosocial factors at work: An overview** Reiner Rugulies

9.30–10.30 **Methodological challenges: Causal inference** Naja Hulvej Rod
Literature:
1) Hernán MA, Robins JM. Using big data to emulate a target trial when a randomized trial is not available. *American Journal of Epidemiology*. 2016;183(8):758-764.

10.30–11.00 *Coffee, tea and refreshments*

11.00–12.00 **Methodological challenges: Bias and confounding** Naja Hulvej Rod
Ida Madsen
Literature:
1) Delgado-Rodriguez, M., Llorca, J. Bias. *Journal of Epidemiology & Community Health* 58.8 (2004): 635-641.
2) Frese M, Zapf D. Methodological issues in the study of work stress: Objective vs subjective measurement of work stress and the question of longitudinal studies. In: Cooper CL, Payne R, eds. *Causes, coping and consequences of stress at work* Wiley series on studies in occupational stress: John Wiley & Sons, Chichester, England, 1988:375-411.

12.00–13.00 *Lunch*

13.00–14.00 **Job exposure matrix studies** Elisabeth Framke
Literature:
1) Svane-Petersen AC et al. Psychosocial working conditions and depressive disorder: disentangling effects of job control from socioeconomic status using a life-course approach. *Social Psychiatry and Psychiatric Epidemiology*. Online First: 10 September 2019. <http://dx.doi.org/10.1007/s00127-019-01769-9>
2) Madsen IEH et al. Physical work demands and psychosocial working conditions as predictors of musculoskeletal pain: a cohort study comparing self-reported and job exposure matrix measurements. *Occupational and Environmental Medicine*. 2018;75(10):752-758.

14.00–15.15 **Group work: Paper reading methodological issues**
Coffee, tea and refreshments
Literature:
1) Svane-Petersen AC et al. Psychosocial working conditions and depressive disorder: disentangling effects of job control from socioeconomic status using a life-course approach. *Social Psychiatry and Psychiatric Epidemiology*. Online First: 10 September 2019. <http://dx.doi.org/10.1007/s00127-019-01769-9>
2) Framke E et al. Perceived and content-related emotional demands at work and risk of long-term sickness absence in the Danish workforce: a cohort study of 26 410 Danish employees. *Occupational and Environmental Medicine*. 2019. Online First: 31 October 2019.
3) Clark AJ et al. Onset of impaired sleep as a predictor of change in health-related behaviours; analysing observational data as a series of non-randomized pseudo-trials. *International Journal of Epidemiology*. 2015;44(3):1027-1037.
4) Halonen JI et al. Associations between onset of effort-reward imbalance at work and onset of musculoskeletal pain: analyzing observational longitudinal data as pseudo-trials. *Pain*. 2018;159(8):1477-1483.

Please note: For the group work, you will split up into groups working with one of the articles. Therefore, you do not have to read all four articles in detail. It might be a good strategy for you to briefly scan each article and then decide with which one you would like to work more in-depth.

15.15–16.30 **Group reports and discussion**

Ida Madsen
Elisabeth Framke
Naja Hulvej Rod

16.30–17.00 *Free time*

17.00– ***Social program: Visit to Kronborg Castle and dinner by the harbour***

17.00: Walk to Kronborg Castle

17.30: Tour of Kronborg Castle

19.00: Dinner at Restaurant Kaj

Thursday, 28.11.2019

Day 3 – Application of psychosocial occupational epidemiology

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| 9.00–10.30 | <p>Psychosocial work environment and health – what is the evidence?</p> <p>Literature:</p> <p>1) Kivimäki M, Steptoe A. Effects of stress on the development and progression of cardiovascular disease. <i>Nature Reviews Cardiology</i>. 2018;15(4):215-229.</p> <p>2) Rugulies R, Aust B, Madsen IEH. Occupational determinants of affective disorders. In: Bültmann U, Siegrist J, editors. <i>Handbook of disability, work and health</i>. Handbook Series in Occupational Health Sciences. Cham, Switzerland: Springer Nature; Online First: 12. September 2019. https://doi.org/10.1007/978-3-319-75381-2_10-1</p> <p>3) Madsen IEH et al. Job strain as a risk factor for clinical depression: systematic review and meta-analysis with additional individual participant data. <i>Psychological Medicine</i>. 2017;47(8):1342-1356.</p> | <p>Ida Madsen Reiner Rugulies</p> |
| 10.30–11.00 | <i>Coffee, tea and refreshments</i> | |
| 11.00–12.00 | <p>Implications for preventive actions at the workplace</p> <p>Literature:</p> <p>1) Burgess et al. Why interventions fail: A systematic review of occupational health psychology interventions. <i>International Journal of Stress Management</i>. Online First: 19 September 2019. http://dx.doi.org/10.1037/str0000144.</p> | <p>Birgit Aust</p> |
| 12.00–13.00 | <i>Lunch</i> | |
| 13.00–14.00 | Presentation and discussion of participant studies, I | <p>Ida Madsen</p> |
| 14.00–15.00 | Presentation and discussion of participant studies, II | <p>Reiner Rugulies</p> |
| 15.15–15.30 | Certificates and closing the course | <p>Morten Jakobsen, NIVA Reiner Rugulies</p> |