

Department of Clinical Neuroscience
Division of Insurance Medicine

Curriculum Vitae – Marianna Virtanen

Contact information

University of Eastern Finland
School of Educational Sciences and Psychology
Email: marianna.virtanen@uef.fi, marianna.virtanen@ki.se

Education and degrees

2012 Ph.D. (2nd) in Epidemiology, University College London, U.K.
2005 Docent (adjunct professor) in Occupational Health Psychology, University Of Jyväskylä, Finland
2003 Ph.D. (1st) in Psychology, University of Helsinki, Finland
1999 M.A. in Psychology, University of Helsinki, Finland
1996 Registered nurse, specialised in primary health care, Nursing Institute of Helsinki, Finland

Current positions

May 2019: Professor of Work Psychology, School of Educational Sciences and Psychology, University of Eastern Finland (permanent position)

Associated:

Division of Insurance Medicine, Karolinska Institutet, Stockholm, Sweden
Stress Research Institute, University of Stockholm, Sweden
Finnish Institute of Occupational Health (FIOH), Helsinki, Finland

Previous work experience

1.2.2018-15.2.2019 Professor of life course epidemiology, Department of Public Health and Caring Sciences, University of Uppsala, Sweden
1.7.2012-31.1.2018 Research Professor of mental health, Finnish Institute of Occupational Health, Finland
1.9.2012-31.8.2017 Academy of Finland Research Fellow
1.9.2008-30.6.2012 Team leader; Finnish Institute of Occupational Health, Work and mental health team
1.1.2007-31.8.2007 Deputy part-time (33%) Professor in Occupational Health Psychology; University of Helsinki, Department of Psychology
1.5.2005-31.8.2008 Special researcher, Finnish Institute of Occupational Health (FIOH)
1.1.2005-30.4.2005 Researcher; University of Helsinki, Department of Psychology
1.12.1999-31.12.2004 Researcher; FIOH

Bibliographic statistics (Thomson Reuters Web of Science, April 2017):

Bibliographic statistics of 311 records in Thomson Reuters Web of Science since 2001 (23 August 2019):

H-index=55; average citations per item =32.5; sum of times cited =10 120; highest number of citations as the first author: 322 times (Virtanen M et al., Temporary employment and health: a review. Int J Epidemiology 2005;34:610-22)

Research and supervision

Main research grants

Leader of the project

Academy of Finland	EUR 228 787 (2020-23)
Academy of Finland	EUR 186 828 (2020-22)
Finnish Work Environment Fund	EUR 135 000 (2019-21)
Forte, Sweden (SEK 4 630 000)	EUR 447 568 (2019-21)
Eurofound, European Union	EUR 49 847 (2017-18)
Academy of Finland Research Fellow	EUR 407 272 (2012-17)
Academy of Finland, Research Fellow Group	EUR 467 764 (2013-17)
Kela (Social Insurance Institute)	EUR 150 000 (2014-16)
Academy of Finland	EUR 250 000 (2010-12)

Co-applicant

Forte, Sweden (SEK 4 185 000, PI Hui-Xin Wang)	EUR 390 324 (2019-21)
AFA, Sweden (SEK 4 118 000, PI Emma Björkenstam)	EUR 384 076 (2019-21)
Finnish Work Environment Fund (PI Sari Stenholm)	EUR 120 000 (2018-20)
Finnish Work Environment Fund (PI Tuula Oksanen)	EUR 120 000 (2017-19)
Finnish Work Environment Fund (PI Mika Kivimäki)	EUR 164 000 (2016-18)
Finnish Work Environment Fund (PI Maarit Kauppi)	EUR 100 000 (2017-18)
Finnish Work Environment Fund (PI Mika Kivimäki)	EUR 207 000 (2012-15)

Collaboration with national and international research groups

Prof. Kristina Alexanderson's and prof. Ellenor Mittendorfer-Rutz's study groups, Division of Insurance Medicine, Department of Clinical Neuroscience, Karolinska Institutet, Sweden

Prof. Hugo Westerlund's study group, Stress Research Institute, University of Stockholm, Sweden

Prof. Jenny Head's study group; Department of Epidemiology and Public Health, University College London, UK

Prof. Marcel Goldberg's and Dr. Marie Zin's study group (the GAZEL); Inserm, France

Prof. Mika Kivimäki's study group; Department of Public Health, University of Helsinki, Finland and Department of Epidemiology and Public Health, University College London, UK

Prof. Jussi Vahtera's study group, University of Turku, Finland

Doc. Tuula Oksanen's study group, Finnish Institute of Occupational Health, Finland

Prof. Marko Elovainio's study group, Department of Psychology and Logopedics, University of Helsinki, Finland

Prof. Leena Ala-Mursula, Institute of Health Sciences, University of Oulu, Finland

Prof. Markus Jokela's study group, Institute of Behavioral Sciences, University of Helsinki, Finland

Prof. Mika Gissler's study group; National Institute of Health and Welfare and Research Center for Child Psychiatry, University of Turku, Finland

Referee in international and national journals

New England Journal of Medicine, British Medical Journal, American Journal of Epidemiology, International Journal of Epidemiology, Neurology, BMC Medicine, BMC Psychiatry, Sleep, Psychological Medicine, Journal of Affective Disorders, Social Psychiatry and Psychiatric Epidemiology, European Journal of Public Health, PloS One, Journal of Epidemiology and Community Health, Social Science & Medicine, Journal of Occupational and Environmental Medicine, Journal of Occupational Health, Occupational and Environmental Medicine, Scandinavian Journal of Work Environment & Health, Health & Place, Archives of Occupational & Environmental Medicine, BMC Public Health, Social Problems, European Societies, Scandinavian Journal of Psychology, Industrial Health, International Journal of Behavioral Medicine, Experimental and Clinical Psychopharmacology, Work & Stress, Journal of Global Economics, Työelämän tutkimus, Työ ja ihminen, Psykologia

Reviewer for international conference abstracts

*European Congress of Work and Organizational Psychology, Stockholm, May, 2007.
Work, well-being and wealth, Helsinki, August 2013.*

Reviewer of grant proposals

*FORTE, Sweden, 2019-
Finnish Work Environment Fund, 2013
European Research Council (ERC), 2014, 2017*

Editor and editorial board memberships

*Associate editor: Scandinavian Journal of Public Health (2016-)
Associate editor: Scandinavian Journal of Psychology (2014-17)
Editorial board member: Scandinavian Journal of Work Environment & Health (2012-)
Visiting editor: Työ ja ihminen (Work and mental health special issue, 2009)
Associate editor: Työterveyslääkäri (Journal for occupational health physicians, in Finnish, 2009-14)*

Other professional memberships

*Member of the professional network for prevention of suicide (2018-)
Member of the advisory board of the Government's priority project "Prevention of suicide – education for health professionals" 2017-18
Member of the international advisory board of the WHO Collaborating Centre for Mental Health (2010-2012)*

Vice member of the advisory board of the Masto Project 2007-2011 (Prevention of work disability due to depression, Ministry of Social Affairs and Health, Finland)

Awards and honours

2011: Award, Best study at the Finnish Institute of Occupational Health (article: Oksanen T, Vahtera J, Westerlund H, Pentti J, Sjösten N, Virtanen M, et al); 2011: Award, Best supervisor of the year at FIOH; 2009: Award, Best study at FIOH (article: Virtanen M, Pentti J, Vahtera J, et al); 2009: Award, Best of sleep research collection 2009 (article: Virtanen M, Ferrie JE, Gimeno D, et al)

Memberships and positions of trust in scientific societies

Chair of Psykonet, a network for education in psychology in 6 Finnish universities (2019-)
Associate editor: Scandinavian Journal of Public Health (2016-)
Associate editor: Scandinavian Journal of Psychology (2014-17)
Editorial board member: Scandinavian Journal of Work Environment & Health (2012-)
Visiting editor: Työ ja ihminen (Work and mental health special issue, 2009)
Associate editor: Työterveyslääkäri (Journal for occupational health physicians 2009-14)
Member of the Society of Social Medicine (1996-)

Supervisor in doctoral thesis

First supervisor

- Marjo Sinokki, MD, (*Social relations and health of employees*), FIOH & Department of Public Health, University of Turku (2011)
- Jenni Ervasti, MA, (*School environment as a determinant of sickness absence among school teachers*), FIOH & Department of Behavioral Sciences, University of Helsinki (2012)
- Tuula Leino, MPsych, (*Violence at work and psychological well-being among security guards and police officers*), FIOH & Department of Behavioral Sciences, University of Helsinki (2013)
- Pauliina Mattila-Holappa, MPsych (*Mental health and work life participation among young adults*), University of Helsinki (2018)

Associate supervisor

- Niklas Granö, MPsych, (*Impulsivity, health-related behaviours and disease: a prospective study*), Department of Psychology, University of Helsinki (2008)
- Jaakko Harkko, MSc (*Pathways to employment and work disability among young adults*), University of Helsinki (2018)

Opponent of doctoral dissertations

Kumpulainen Kristiina, MSc. *Henkilöstön työssä koettu hyvinvointi. Pitkittäisseuranta muuttuvassa koulutusorganisaatiossa [Well-being at work – a follow-up study in a changing organization]*. University of Kuopio (2013)

Pihlajasaari Pia, MA. *Eettinen organisaatiokulttuuri – yhteydet työhyvinvointiin ja työpaikan vaihtoihin* [Ethical organizational culture – associations with occupational wellbeing and turnover]. University of Jyväskylä, Finland (2015).

Hiroyuki Toyama. MSc. *Trait emotional intelligence and its associations with subjective and physiological well-being*. University of Jyväskylä, Finland (2018).
Kuan-Ju Pan, MSc. *Impact of psychosocial working conditions on health in older age*. Karolinska Institutet, Stockholm, Sweden (2019).

Examination of thesis work

- Tiina Ritvanen: *Seasonal psychophysiological stress of teachers related to age and aerobic fitness* (doctoral thesis). Faculty of Medicine, University of Kuopio, 2005.
- Mirka Hintsanen: *Work stress, temperament and personality as predictors of cardiovascular disease risk factors* (doctoral thesis). Department of Psychology, University of Helsinki, 2006.
- Marja Hätinén: *Comparing two burnout interventions: Perceived job control mediates decrease in burnout* (licenciate thesis), University of Tampere, 2007.
- Terhi Rönkä: *The associations of duration and physiological quality of sleep with the self-reported stress during the following working day* (licenciate thesis), University of Jyväskylä, 2007.
- Laura Pekkarinen: *The relationship between work stressors and organizational performance in the long-term care for elderly residents* (doctoral thesis). Faculty of Social Sciences, Department of Social Psychology, University of Helsinki, 2008.
- Katja Björklund: *Stalking and violence victimization among Finnish university students* (doctoral thesis). Department of Psychology, University of Helsinki, 2009.
- Nadezda Chumaeva: *Chronic and acute stress predicting atherosclerosis: the role of endothelial function and cardiovascular risk factors* (doctoral thesis). Department of Psychology, University of Helsinki, 2009.
- Christian Hakulinen: *Family origins and development of hostility and anger, and their social outcomes*. University of Helsinki, Faculty of Behavioural Sciences, 2013.
- Ting Cheng: *Revisiting the buffers of job insecurity: Investigating new buffering factors between perceived job insecurity and employee outcomes*. University of Jyväskylä, Department of Psychology, 2013.
- Maria Törnroos: *Personality and work stress- the role of five-factor model traits and hostility in perceptions of work characteristics*. University of Helsinki, Faculty of Behavioural Sciences, 2014.
- Jaakko Airaksinen: *Neighborhoods effects in mental health and health behavior: Longitudinal analysis of social causation versus selective residential mobility*. . University of Helsinki, Faculty of Behavioural Sciences, 2016.
- Marja Hult: *The work ability and health of unemployed persons – focusing on promoting factors*. Faculty of Health Sciences, University of Eastern Finland, 2019.
- Hiroyuki Toyama: *Trait emotional intelligence and its associations with subjective and physiological well-being*. University of Jyväskylä, Finland, 2018.

Participation in the thesis grade committee

Merjonen Päivi: *Hostility: A prospective study of the genetic and environmental background and associations with cardiovascular risk* (doctoral thesis). Faculty of Behavioral Sciences, University of Helsinki, 2011.

Petri Karkkola: *Basic psychological need satisfaction at work: measurement and associations with social support, role characteristics and vitality*. School of Educational Sciences and Psychology, University of Eastern Finland.

Reviewer of docentship

Taina Hintsala (PhD), Institute of Behavioral Sciences, University of Helsinki, 2010.

Ellen Ek (PhD), Faculty of Medicine, University of Oulu, 2013.

Mari Huhtala (PhD), Department of Psychology, University of Jyväskylä, 2016.

Katriina Hyvönen (PhD), Department of Psychology, University of Jyväskylä, 2019.

Taina Leinonen (PhD), Department of Public Health, University of Helsinki, 2019.

Supervisor in master's thesis

- 8 theses: Department of Psychology, University of Helsinki (2006-2008)
- 1 thesis: University of Tampere (2010)

Teaching

Pedagogic qualification

1999: Basic studies in education, 15 credits (degree: 3/3 "excellent"), University of Helsinki.

2013: Course in pedagogics, 5 credits, Hämeen ammattikorkeakoulu, Helsinki, Finland

Courses and lectures

- Undergraduate course: Work and organizational psychology (2 credits), University of Helsinki, Open University, 2004.
- Undergraduate course: Occupational health psychology (2 credits), Department of Psychology, University of Helsinki, 2007.
- Postgraduate course: Multidisciplinary research seminar (1 credit), Department of Behavioral Sciences, University of Helsinki, 2008.
- Participation in teaching and supervision of the Psykonet (1-2 days /year between 2008-11)
- Single lectures in the University College London, UK (2012, 2013) and the Hjelt Institute, University of Helsinki (2012, 2013)
- More than 200 lectures and presentations work psychology, public health and occupational health since 1999 at the Finnish Institute of Occupational Health and universities.

Teaching materials

1. **Virtanen M.** Jaksamisen eväitä kipupotilaan hoitajalle (For the nurses with pain patients: how to prevent burnout). In E. Sailo, A-M. Varti (Eds.), *Kivunhoito (Treatment of pain)* (pp.244-256, in Finnish). Helsinki: Tammi, 2000.
2. Kivimäki M, **Virtanen M**, Elovainio M, Vahtera, J. Organisaation rakennemuutos ja työntekijän terveys (Organizational change and health of employees). In: K Lindström, A Leppänen (Eds.), *Työyhteisön terveys ja hyvinvointi (Health and well-*

- being of working communities) (pp. 308-320, in Finnish). Helsinki: Työterveyslaitos (Finnish Institute of Occupational Health), 2002.
3. Kivimäki M, Elovainio M, Vahtera J, **Virtanen M**. Johtaminen ja työntekijöiden hyvinvointi (leadership and employee well-being). In: J. Vuori (Ed.), *Terveys ja johtaminen (Health and leadership)*. Terveystieteiden tutkimuskeskus terveydenhuollon työyhteisöissä (in Finnish). Helsinki: WSOY, 2005.
 4. Kivimäki M, **Virtanen M**, Elovainio M, Vahtera J. Work career, health and personality. In L. Pulkkinen, J. Kaprio, R.J. Rose (Eds.), *Socioemotional development and health from adolescence to adulthood. International studies on child and adolescent health (ISCAH)*, Cambridge: Cambridge University Press, 2006.
 5. Ahola K, **Virtanen M**, Pirkola S, Suvisaari J. Työ ja mielenterveys (Work and mental health). In: S Koskinen, A Aromaa (Eds.) *Suomalaisten työ, työkyky ja terveys 2000-luvun alkaessa (Work, working capacity, and health among the Finns in the beginning of 2000's, in Finnish)*. Report 11, 2010. Helsinki: Terveyden ja hyvinvoinnin laitos (National Institute for Health and Welfare).
 6. **Virtanen M**, Ervasti J, Oksanen T, Kivimäki M, Vahtera J. Social capital in schools. In Kawachi I, Subramanian SV, Kim D (eds.), *Social capital and health*, 2nd ed. Springer, 2013.
 7. Ervasti J, **Virtanen M**. Kouluympäristö hyvinvoinnin tekijänä (School environment as a determinant of well-being). In: T Oksanen (ed.), *Hyvinvointihavainnot – tutkimustietoa kunta-alalta (Observations on well-being - research on municipal sector)*. Helsinki: Finnish Institute of Occupational Health, 2012;81-89.
 8. **Virtanen M**, Ervasti J, Kivimäki M, Vahtera J. Voimavarat ja hyvinvointi (Resources and well-being). In: T Oksanen (ed.), *Hyvinvointihavainnot – tutkimustietoa kunta-alalta (Observations on well-being - research on municipal sector)*. Helsinki: Finnish Institute of Occupational Health, 2012;65-79.
 9. Oksanen T, **Virtanen M**. Työyhteisön sosiaalinen pääoma (Social capital in the working community). In: T Oksanen (ed.), *Hyvinvointihavainnot – tutkimustietoa kunta-alalta (Observations on well-being - research on municipal sector)*. Helsinki: Finnish Institute of Occupational Health, 2012;55-63.
 10. Linna A, Elovainio M, **Virtanen M**, Kivimäki M. Oikeudenmukaiseksi koettu johtaminen. In: T Oksanen (ed.), *Hyvinvointihavainnot – tutkimustietoa kunta-alalta (Observations on well-being - research on municipal sector)*. Helsinki: Finnish Institute of Occupational Health, 2012;45-53.
 11. **Virtanen M**, Oksanen T, Takala EP, Kivimäki M, Lindholm H. Voiko stressi sairastuttaa? (Can stress make you ill?). In: S Toppinen-Tanner, K Ahola (eds.). *Kaikkea stressistä (All about stress)*. Helsinki: Finnish Institute of Occupational Health, 2012;127-50.
 12. Ahola K, **Virtanen M**. Mikä aiheuttaa stressiä? (Causes of stress). In: S Toppinen-Tanner, K Ahola (eds.). *Kaikkea stressistä (All about stress)*. Helsinki: Finnish Institute of Occupational Health, 2012;34-44.

13. Kivimäki M, Singh-Manoux A, Batty GD, **Virtanen M**, Ferrie JE, Vahtera J. Psychosocial factors at work: the epidemiological perspective. In: Hjemdahl P, Rosengren A, Steptoe A (eds.). Stress and cardiovascular disease. London: Springer-Verlag Limited, 2012; 195-210 .

Documented honoraria

2011: Award, Best supervisor of the year at the Finnish Institute of Occupational Health, 2011

Teaching evaluation

2005: Teaching demonstration for the docentship, University of Jyväskylä (degree: "good").

Publications

A) Peer-reviewed scientific articles

331. Kivimäki M, Batty GD, Pentti J, Shipley MJ, Sipilä PN, Nyberg ST, Suominen SB, Oksanen T, Stenholm S, **Virtanen M**, et al. Association between socioeconomic status and the development of mental and physical health conditions in adulthood: a multi-cohort study. *Lancet Public Health*. 2020 [epub ahead of print]
330. Stenholm S, **Virtanen M**, Pentti J, Oksanen T, Kivimäki M, Vahtera J. Trajectories of self-rated health before and after retirement: evidence from two cohort studies. *Occup Environ Med*. 2020 Feb;77(2):70-76.
329. **Virtanen M**, Jokela M, Lallukka T, Magnusson Hanson L, et al. Long working hours and change in body weight: analysis of individual-participant data from 19 cohort studies. *Int J Obes (Lond)*. 2019 [Epub ahead of print]
328. Svane-Petersen AC, Holm A, Burr H, Framke E, Melchior M, Rod NH, Sivertsen B, Stansfeld S, Sørensen JK, **Virtanen M**, Rugulies R, Madsen IEH. Psychosocial working conditions and depressive disorder: disentangling effects of job control from socioeconomic status using a life-course approach. *Soc Psychiatry Psychiatr Epidemiol*. 2019 [Epub ahead of print]
327. Jokela M, Airaksinen J, **Virtanen M**, Batty GD, Kivimäki M, Hakulinen C. Personality, disability-free life years, and life expectancy: Individual participant meta-analysis of 131,195 individuals from 10 cohort studies. *J Pers*. 2019 [Epub ahead of print]
326. Lallukka T, Mekuria GB, Nummi T, Virtanen P, **Virtanen M**, Hammarström A. Co-occurrence of depressive, anxiety, and somatic symptoms: trajectories from adolescence to midlife using group-based joint trajectory analysis. *BMC Psychiatry*. 2019;19(1):236.
325. Berg N, **Virtanen M**, Lintonen T, Hammarström A. The contribution of drinking culture at comprehensive school to heavy episodic drinking from adolescence to midlife. *Eur J Public Health*. 2019 Aug 3. pii: ckz136. doi: 10.1093/eurpub/ckz136. [Epub ahead of print].
324. Halonen JI, Chandola T, Hyde M, Leinonen T, Westerlund H, Aalto V, Pentti J, Laaksonen M, Stenholm S, Mänty M, Vahtera J, Oksanen T, Kivimäki M, **Virtanen M**, Lallukka T. Psychotropic medication before and after disability

- retirement by pre-retirement perceived work-related stress. *Eur J Public Health*. 2019 Jul 20. pii: ckz131. doi: 10.1093/eurpub/ckz131. [Epub ahead of print]
323. Lallukka T, Kerkelä M, Ristikari T, Merikukka M, Hiilamo H, **Virtanen M**, Øverland S, Gissler M, Halonen JI. Determinants of long-term unemployment in early adulthood: A Finnish birth cohort study. *SSM Popul Health*. 2019 May 16;8:100410. eCollection 2019 Aug.
322. Kivimäki M, Singh-Manoux A, Pentti J, Sabia S, Nyberg ST, Alfredsson L, Goldberg M, Knutsson A, Koskenvuo M, Koskinen A, Kouvonen A, Nordin M, Oksanen T, Strandberg T, Suominen SB, Theorell T, Vahtera J, Väänänen A, **Virtanen M**, Westerholm P, Westerlund H, Zins M, Seshadri S, Batty GD, Sipilä PN, Shipley MJ, Lindbohm JV, Ferrie JE, Jokela M; IPD-Work consortium. Physical inactivity, cardiometabolic disease, and risk of dementia: an individual-participant meta-analysis. *BMJ*. 2019 Apr 17;365:l1495.
321. Airaksinen J, Ervasti J, Pentti J, Oksanen T, Suominen S, Vahtera J, **Virtanen M**, Kivimäki M. The effect of smoking cessation on work disability risk: a longitudinal study analysing observational data as non-randomized nested pseudo-trials. *Int J Epidemiol*. 2019 Feb 27. pii: dyz020. doi: 10.1093/ije/dyz020. [Epub ahead of print]
320. Magnusson Hanson LL, **Virtanen M**, Rod NH, Steptoe A, Head J, Batty GD, Kivimäki M, Westerlund H. Does inflammation provide a link between psychosocial work characteristics and diabetes? Analysis of the role of interleukin-6 and C-reactive protein in the Whitehall II cohort study. *Brain Behav Immun*. 2019 Jan 23. pii: S0889-1591(18)30760-8. doi: 10.1016/j.bbi.2019.01.017. [Epub ahead of print]
319. Pekurinen V, Välimäki M, **Virtanen M**, Kivimäki M, Vahtera J. Work stress and satisfaction with leadership among nurses encountering patient aggression in psychiatric care: A cross-sectional survey study. *Adm Policy Ment Health*. 2019 May;46(3):368-379.
318. Ervasti J, Airaksinen J, Pentti J, Vahtera J, Suominen S, **Virtanen M**, Kivimäki M. Does increasing physical activity reduce the excess risk of work disability among overweight individuals? *Scand J Work Environ Health*. 2019 Jan 14. pii: 3799. doi: 10.5271/sjweh.3799. [Epub ahead of print]
317. Halonen JI, Merikukka M, Gissler M, Kerkelä M, **Virtanen M**, Ristikari T, Hiilamo H, Lallukka T. Pathways from parental mental disorders to offspring's work disability due to depressive or anxiety disorders in early adulthood-The 1987 Finnish Birth Cohort. *Depress Anxiety* 2019;36:305-312.
316. Xu T, Magnusson Hanson L, Lange T, Starkopf L, Westerlund H, Madsen IEH, Rugulies R, Pentti J, Stenholm S, Vahtera J, Hansen ÅM, **Virtanen M**, Kivimäki M, Rod NH. Workplace bullying and workplace violence as risk factors for cardiovascular disease: a multicohort study. *Eur Heart J*, 2019;40:1124-1134.
315. **Virtanen M**, Magnusson Hansson L, Goldberg M, Zins M, Stenholm S, Vahtera J, Westerlund H, Kivimäki M. Long working hours, anthropometry, lung function, blood pressure and blood-based biomarkers: cross-sectional findings from the CONSTANCES study. *J Epidemiol Community Health* 2019;73:130-135.
314. **Virtanen M**, Ervasti J, Head J, Oksanen T, Salo P, Pentti J, Kouvonen A, Väänänen A, Suominen S, Koskenvuo M, Vahtera J, Elovainio M, Zins M, Goldberg M, Kivimäki M. Lifestyle factors and risk of sickness absence from work: a multicohort study. *Lancet Public Health* 2018;3:e545-e554.

313. Halonen JI, **Virtanen M**, Ala-Mursula L, Miettunen J, Vaaramo E, Karppinen J, Kouvonen A, Lallukka T. Socioeconomic and health-related childhood and adolescence predictors of entry into paid employment. *Eur J Public Health*. 2018 Oct 22. doi: 10.1093/eurpub/cky221. [Epub ahead of print]
312. **Virtanen M**, Jokela M, Madsen IE, ..., Kivimäki M. Long working hours and depressive symptoms: systematic review and meta-analysis of published studies and unpublished individual participant data. *Scand J Work Environ Health*. 2018;44:239-50. [systematic review and meta-analysis]
311. **Virtanen M**, Kivimäki M. Long working hours and risk of cardiovascular disease. *Curr Cardiol Rep*. 2018;20:123. [review and meta-analysis]
310. **Virtanen M**, Elovainio M. Justice at the workplace: A review. *Camb Q Healthcare Ethics*. 2018;27:306-315. [review]
309. Bean CG, **Virtanen M**, Westerlund H, Berg N, Hallqvist J, Hammarström A. Group activity participation at age 21 and depressive symptoms during boom and recession in Sweden: a 20-year follow-up. *Eur J Public Health*. 2018 Sep 27. doi: 10.1093/eurpub/cky201. [Epub ahead of print]
308. Nyberg ST, Batty GD, Pentti J, **Virtanen M**, ..., Kivimäki M. Obesity and loss of disease-free years owing to major non-communicable diseases: a multicohort study. *Lancet Public Health*. *Lancet Public Health*. 2018;3:e490-e497.
307. **Virtanen M**, Vahtera J, Singh-Manoux A, Elovainio M, Ferrie JE, Kivimäki M. Unfavorable and favorable changes in modifiable risk factors and incidence of coronary heart disease: The Whitehall II cohort study. *Int J Cardiol*. 2018 Oct 15;269:7-12.
306. Halonen JI, Lallukka T, **Virtanen M**, Rod NH, Magnusson Hanson LL. Bi-directional relation between effort-reward imbalance and risk of neck-shoulder pain: assessment of mediation through depressive symptoms using occupational longitudinal data. *Scand J Work Environ Health*. 2019;45:126-133.
305. Joensuu M, Mattila-Holappa P, Ahola K, Kivimäki M, Tuisku K, Koskinen A, Vahtera J, **Virtanen M**. Predictors of employment in young adults with psychiatric work disability. *Early Interv Psychiatry*. 2018 Aug 20. doi: 10.1111/eip.12730. [Epub ahead of print]
304. Akbaraly T, Sexton C, Zsoldos E, Mahmood A, Filippini N, Kerleau C, Verdier JM, **Virtanen M**, Gabelle A, Ebmeier KP, Kivimäki M. Association of long-term diet quality with hippocampal volume: Longitudinal cohort study. *Am J Med*. 2018 Jul 26. pii: S0002-9343(18)30643-0. doi: 10.1016/j.amjmed.2018.07.001. [Epub ahead of print]
303. Kivimäki M, Pentti J, Ferrie JE, Batty GD, Nyberg ST, Jokela M, **Virtanen M**, Alfredsson L, Dragano N, Fransson EI, Goldberg M, Knutsson A, Koskenvuo M, Koskinen A, Kouvonen A, Luukkonen R, Oksanen T, Rugulies R, Siegrist J, Singh-Manoux A, Suominen S, Theorell T, Väänänen A, Vahtera J, Westerholm PJM, Westerlund H, Zins M, Strandberg T, Steptoe A, Deanfield J; IPD-Work consortium. Work stress and risk of death in men and women with and without cardiometabolic disease: a multicohort study. *Lancet Diabetes Endocrinol*. 2018;6:705-713.
302. Hakulinen C, Pulkki-Råback L, **Virtanen M**, Jokela M, Kivimäki M, Elovainio M. Social isolation and loneliness as risk factors for myocardial infarction, stroke and

- mortality: UK Biobank cohort study of 479 054 men and women. *Heart* 2018;104:1536-42.
301. Halonen JI, **Virtanen M**, Leineweber C, Rod NH, Westerlund H, Magnusson Hanson LL.
Associations between onset of effort-reward imbalance at work and onset of musculoskeletal pain: analyzing observational longitudinal data as pseudo-trials. *Pain* 2018;159:1477-83.
300. Ervasti J, Kivimäki M, Head J, Goldberg M, Airagnes G, Pentti J, Oksanen T, Salo P, Suominen S, Jokela M, Vahtera J, Zins M, **Virtanen M**. Sickness absence diagnoses among abstainers, low-risk drinkers and at-risk drinkers: consideration of the U-shaped association between alcohol use and sickness absence in four cohort studies. *Addiction* 2018 [Epub ahead of print]
299. Juvani A, la Oksanen T, **Virtanen M**, Salo P, Pentti J, Kivimäki M, Vahtera J.
Clustering of job strain, effort-reward imbalance, and organizational injustice and the risk of work disability: a cohort study *Scand J Work Environ Health* 2018;44:485-95.
298. Ervasti J, **Virtanen M**, Lallukka T, Friberg E, Mittendorfer-Rutz E, Lundström E, Alexanderson K. Trends in diagnosis-specific work disability before and after ischaemic heart disease: a nationwide population-based cohort study in Sweden *BMJ Open* 2018;8:e019749.
297. Mattila-Holappa P, Joensuu M, Ahola K, Kivekäs T, Kivimäki M, Koskinen A, **Virtanen M**. Psychotherapeutic and vocational interventions among young adults with work disability due to mental disorders in Finland. *Scand J Occup Ther* 2018;25:213-222
296. Harkko J, **Virtanen M**, Kouvonen A. Unemployment and work disability due to common mental disorders among young adults: selection or causation? *Eur J Public Health* 2018;28:791-7.
295. Airaksinen J, Jokela M, **Virtanen M**, Oksanen T, Koskenvuo M, Pentti J, Vahtera J, Kivimäki M. Prediction of long-term absence due to sickness in employees: development and validation of a multifactorial risk score in two cohort studies. *Scand J Work Environ Health* 2018;44:274-82.
294. Kaila-Kangas L, Koskinen A, Leino-Arjas P, **Virtanen M**, Härkänen T, Lallukka T. Alcohol use and sickness absence due to all causes and mental- or musculoskeletal disorders: a nationally representative study. *BMC Public Health*. 2018;18:152.
293. Lallukka T, Ervasti J, Lundström E, Mittendorfer-Rutz E, Friberg E, **Virtanen M**, Alexanderson K. Trends in diagnosis-specific work disability before and after stroke: A longitudinal population-based study in Sweden. *J Am Heart Assoc* 2018;7(1).
292. Ervasti J, Kivimäki M, Head J, Goldberg M, Airagnes G, Pentti J, Oksanen T, Salo P, Suominen S, Jokela M, Vahtera J, Zins M, **Virtanen M**. Sociodemographic differences between alcohol use and sickness absence: Pooled analysis of four cohort studies. *Alcohol Alcohol* 2018;53:95-103.
291. Ervasti J, Kivimäki M, Pentti J, Halonen JI, Vahtera J, **Virtanen M**. Changes in drinking as predictors of changes in sickness absence: a case-crossover study. *J Epidemiol Community Health* 2018;72:61-7.
290. Kauppi M, Kawachi I, Batty GD, Oksanen T, Elovainio M, Pentti J, Aalto V, **Virtanen M**, Koskenvuo M, Vahtera J, Kivimäki M. Characteristics of social networks and

- mortality risk: Evidence from two prospective cohort studies. *Am J Epidemiol.* 2018;187:746-53.
289. Virtanen P, Pentti J, Vahtera J, Kivimäki M, **Virtanen M**. Self-rated health of the temporary employees in a Nordic welfare state: Findings from the Finnish Public Sector Study. *J Occup Environ Med* 2018;60:e106-e111.
288. Airaksinen J, Jokela M, **Virtanen M**, Oksanen T, Pentti J, Vahtera J, Koskenvuo M, Kawachi I, Batty GD, Kivimäki M. Development and validation of a risk prediction model for work disability: multicohort study. *Sci Rep* 2017;7:13578.
287. Pekurinen V, Willman L, **Virtanen M**, Kivimäki M, Vahtera J, Välimäki M. Patient aggression and the wellbeing of nurses: A cross-sectional survey study in psychiatric and non-psychiatric settings. *Int J Environ Res Public Health* 2017;14(10).
286. **Virtanen M**, Singh-Manoux A, Batty GD, Ebmeier KP, Jokela M, Harmer CJ, Kivimäki M. The level of cognitive function and recognition of emotions in older adults. *PLoS One* 2017;12:e0185513.
285. Kivimäki M, Nyberg S, Batty GD, ..., **Virtanen M**, Tabak A. The IPD-Work Consortium. Long working hours as a risk factor for atrial fibrillation: a multi-cohort study. *Eur Heart J* 2017;38:2621-8.
284. Elovainio M, Sommerlad A, Hakulinen C, Pulkki-Råback L, **Virtanen M**, Kivimäki M, Singh-Manoux A. Structural social relations and cognitive aging trajectories: Evidence from the Whitehall II cohort study. *Int J Epidemiology* 2017 [epub ahead of print].
283. Elovainio M, **Virtanen M**, Oksanen T. Lääkärien työolot, terveys ja työkyky. Physicians' working conditions, health and work ability]. *Duodecim.* 2017;133:647-52.
282. Ervasti J, **Virtanen M**, Lallukka T, Friberg E, Kjeldgård L, Mittendorfer-Rutz E, Tinghög P, Lundström E, Alexanderson K. Permanent work disability before and after ischemic heart disease or stroke event: A nationwide population-based cohort study in Sweden. *BMJ Open* 2017;7:e017910.
281. Halonen JI, Kivimäki M, Vahtera J, Pentti J, **Virtanen M**, Ervasti J, Oksanen T, Lallukka T. Childhood adversity, adult socioeconomic status and risk of work disability: a prospective cohort study. *Occup Environ Med* 2017;74:659-666.
280. Kauppi M, Elovainio M, Stenholm S, **Virtanen M**, Aalto V, Koskenvuo M, Kivimäki M, Vahtera J. Social networks and patterns of health risk behaviours over two decades: A multi-cohort study. *J Psychosom Res.* 2017;99:45-58.
279. Ervasti J, Joensuu M, Pentti J, Oksanen T, Ahola K, Vahtera J, Kivimäki M, **Virtanen M**. Prognostic factors for return to work after depression-related work disability: A systematic review and meta-analysis. *J Psychiatr Res* 2017;95:28-36.
278. Kouvonen A, Kivimäki M, Pentti J, Aalto V, Oksanen T, **Virtanen M**, Vahtera J. Diabetes and risk of occupational injury: a cohort study. *Diabet Med* 2017;34:1629-36.
277. Markkula N, Kivekäs T, Suvisaari J, **Virtanen M**, Ahola K. Employment status of depressed individuals in an 11-year follow-up: Results from the Finnish Health 2011 Survey. *J Occup Environ Med* 2017;59:603-8.
276. Kausto J, Pentti J, Oksanen T, Virta LJ, **Virtanen M**, Kivimäki M, Vahtera J. Length of sickness absence and sustained return-to-work in mental disorders and

- musculoskeletal diseases: a cohort study of public sector employees. *Scand J Work Environ Health* 2017;43:358-66
275. **Virtanen M**, Oksanen T, Pentti J, Ervasti J, Head J, Stenholm S, Vahtera J, Kivimäki M. Occupational class and working beyond the retirement age: a cohort study. *Scand J Work Environ Health*. 2017;43:426-35.
274. Elovainio M, Hakulinen C, Pulkki-Råback L, **Virtanen M**, Josefsson K, Jokela M, Vahtera J, Kivimäki M. Contribution of risk factors to excess mortality in isolated and lonely individuals: an analysis of data from the UK Biobank cohort study. *Lancet Public Health*. 2017;2:e260-e266
273. Kivimäki M, Kuosma E, Ferrie JE,.....**Virtanen M**,.....Jokela M. Overweight, obesity and risk of cardiometabolic multimorbidity: Pooled analysis of individual-level data on 120,813 adults from 16 cohort studies. *Lancet Public Health*, 2017;2:e277-e285.
272. Halonen JI, Stenholm S, Pulakka A, Kawachi I, Aalto V, Pentti J, Lallukka T, **Virtanen M**, Vahtera J, Kivimäki M. Trajectories of risky drinking around the time of statutory retirement: a longitudinal latent class analysis. *Addiction* 2017;112:1163-70.
271. **Virtanen M**, Ervasti J, Mittendorfer-Rutz E, Lallukka T, Kjeldgård L, Friberg E, Kivimäki M, Lundström E, Alexanderson K. Work disability before and after a major cardiovascular event: a ten-year study using nationwide medical and insurance registers. *Sci Rep* 2017;7:1142.
270. **Virtanen M**, Lallukka T, Ervasti J, Rahkonen O, Lahelma E, Pentti J, Pietiläinen O, Vahtera J, Kivimäki M. The joint contribution of cardiovascular disease and socioeconomic status to disability retirement: a register linkage study. *Int J Cardiology* 2017;230:222-7.
269. **Virtanen M**, Ferrie JE, Akbaraly T, Tabak A, Jokela M, Ebmeier KP, Singh-Manoux A, Kivimäki M. Metabolic syndrome and symptom resolution in depression: A 5-year follow-up of older adults. *J Clin Psychiatry* 2017;78:e1-e7.
268. Pekurinen VM, Välimäki M, **Virtanen M**, Salo P, Kivimäki M, Vahtera J. Organizational justice and collaboration among nurses as correlates of violent assaults by patients in psychiatric care. *Psychiatr Serv* 2017;68:490-6.
267. Ervasti J, Mattila-Holappa P, Joensuu M, Pentti J, Lallukka T, Kivimäki M, Vahtera J, **Virtanen M**. Predictors of depression and musculoskeletal disorder related work disability among young, middle-aged, and aging employees. *J Occup Environ Med* 2017;59:114-9.
266. Mattila-Holappa P, Ervasti J, Joensuu M, Ahola K, Pentti J, Oksanen T, Vahtera J, Kivimäki M, **Virtanen M**. Do predictors of return to work and recurrence of work disability due to mental disorders vary by age? A cohort study. *Scand J Public Health* 2017;45:178-84.
265. Lallukka T, Halonen J, Sivertsen B, Pentti J, Stenholm S, **Virtanen M**, Salo P, Oksanen T, Elovainio M, Vahtera J, Kivimäki M. Change in organizational justice as a predictor of insomnia symptoms: longitudinal study analyzing observational data as a non-randomized pseudo-trial. *Int J Epidemiology* 2017;46:1277-84.
264. Madsen IEH, Nyberg ST, Magnusson Hanson L,... **Virtanen M**, Rugulies R, Kivimäki M. Job strain as a risk factor for clinical depression: A systematic review and meta-analysis of published and unpublished data for 142 939 individuals. *Psychol Med* 2017;47:1342-56.

263. Dragano N, Siegrist J, Nyberg S,... **Virtanen M**, Zins M, Batty GD, Kivimäki M. Effort-reward imbalance at work in relation to incident coronary heart disease: a multi-cohort study of 90,164 individuals. *Epidemiology*, 2017;28:619-26.
262. **Virtanen M**, Elovainio M, Josefsson K, Batty GD, Singh-Manoux A, Kivimäki M. Coronary heart disease and risk factors as predictors of trajectories of psychological distress from midlife to old age. *Heart* 2017;103:659-65.
261. Ferrie JE, **Virtanen M**, Jokela M, et al. Job insecurity and risk of diabetes: a meta-analysis of individual participant data. *CMAJ* 2016;188:E447-E455.
260. Mattila-Holappa P, Joensuu M, Ahola K, Koskinen A, Tuisku K, Ervasti J, **Virtanen M**. Psychotherapeutic and work-oriented interventions: employment outcomes among young adults with work disability due to a mental disorder. *Int J Ment Health Syst*. 2016;10:68.
259. Halonen JI, Lallukka T, Pentti J, Stenholm S, Rod NH, **Virtanen M**, Salo P, Kivimäki M, Vahtera J. Change in job strain as a predictor of change in insomnia symptoms: Analyzing observational data as a non-randomized pseudo-trial. *Sleep*. 2016;40(1).
258. Tuisku K, Pulkki-Råback L, **Virtanen M**. Cultural events provided by employer and occupational wellbeing of employees: A cross-sectional study among hospital nurses. *Work*. 2016;55:93-100.
257. Juvani A, Oksanen T, **Virtanen M**, Elovainio M, Salo P, Pentti J, Kivimäki M, Vahtera J. Organizational justice and disability pension from all-causes, depression and musculoskeletal diseases: A Finnish cohort study of public sector employees. *Scand J Work Environ Health*. 2016;42:395-404.
256. Harkko J, Kouvonen A, **Virtanen M**. Educational attainment, labour market position and mental ill health as pathways from adversities in adolescence to disability pension in early adulthood: A Finnish cohort study using register data. *Scand J Public Health*. 2016;44:678-87.
255. Lallukka T, Ervasti J, Mittendorfer-Rutz E, Tinghög P, Kjeldgård L, Pentti J, **Virtanen M**, Alexanderson K. The joint contribution of diabetes and work disability to premature death during working age: a population-based study in Sweden. *Scand J Public Health*. 2016; 44:580-6.
254. Hintsala T, Elovainio M, Jokela M, Ahola K, **Virtanen M**, Pirkola S. Is there an independent association between burnout and increased allostatic load? Testing the contribution of psychological distress and depression. *J Health Psychol*. 2016;21:1576-86
253. Clark AJ, Salo P, Lange T, Jennum P, **Virtanen M**, Pentti J, Kivimäki M, Rod NH, Vahtera J. Onset of impaired sleep and cardiovascular disease risk factors: A longitudinal study. *Sleep*. 2016;39:1709-18.
252. Mattila-Holappa P, Joensuu M, Ahola K, Vahtera J, **Virtanen M**. Attachment to employment and education before work disability pension due to a mental disorder among young adults. *BMC Psychiatry* 2016;16:143.
251. Tuisku K, Houni P, Seppänen J, **Virtanen M**. Association between unstable work and occupational wellbeing among artists in Finland: Results of a psychosocial survey. *Med Probl Perform Art*. 2016;31:104-9.
250. Ervasti J, Kivimäki M, Pentti J, Salo P, Oksanen T, Vahtera J, **Virtanen M**. Health- and work-related predictors of work disability among employees with a cardiometabolic disease - A cohort study, *J Psychosom Res*. 2016;82:41-7.

249. Ervasti J, **Virtanen M**, Lallukka T, Pentti J, Kjeldgård L, Mittendorfer-Rutz E, Tinghög P, Alexanderson K. Contribution of comorbid conditions to the association between diabetes and disability pensions: a population-based nationwide cohort study. *Scand J Work Environ Health*. 2016;42:209-16.
248. Heikkilä K, Nyberg ST, Madsen IE, ..., **Virtanen M**, Kivimäki M. Long working hours and cancer risk: a multi-cohort study. *Br J Cancer*. 2016;114:813-8.
247. Tuisku K, **Virtanen M**, DE-Bloom J, Kinnunen U. Cultural leisure activities, recovery and work engagement among hospital employees. *Ind Health*. 2016;54:254-62.
246. Kouvonon A, Vahtera J, Pentti J, Korhonen MJ, Oksanen T, Salo P, **Virtanen M**, Kivimäki M. Antidepressant use and work-related injuries. *Psychol Med*. 2016;46:1391-9.
245. Hakulinen C, Pulkki-Råback L, Jokela M, E Ferrie J, Aalto AM, **Virtanen M**, Kivimäki M, Vahtera J, Elovainio M. Structural and functional aspects of social support as predictors of mental and physical health trajectories: Whitehall II cohort study. *J Epidemiol Community Health*. 2016;70:710-5.
244. Jokela M, **Virtanen M**, Batty GD, Kivimäki M. Inflammation and specific symptoms of depression. *JAMA Psychiatry*. 2016;73:87-8.
243. Ervasti J, Kivimäki M, Dray-Spira R, Head J, Goldberg M, Pentti J, Jokela M, Vahtera J, Zins M, **Virtanen M**. Comorbidity and work disability among employees with diabetes: Associations with risk factors in a pooled analysis of three cohort studies. *Scand J Public Health*. 2016;44:84-90.
242. Joensuu M, Mattila-Holappa P, Ahola K, Ervasti J, Kivimäki M, Kivekäs T, Koskinen A, Vahtera J, **Virtanen M**. Clustering of adversity in young adults on disability pension due to mental disorders: a latent class analysis. *Soc Psychiatry Psychiatr Epidemiol*. 2016;51:281-7.
241. Ervasti J, Kivimäki M, Dray-Spira R, Head J, Goldberg M, Pentti J, Jokela M, Vahtera J, Zins M, **Virtanen M**. Socioeconomic gradient in work disability in diabetes: evidence from three occupational cohorts. *J Epidemiol Community Health* 2016;70:125-31.
240. Ervasti J, Kivimäki M, Dray-Spira R, Head J, Goldberg M, Pentti J, Jokela M, Vahtera J, Zins M, **Virtanen M**. Psychosocial factors associated with work disability in men and women with diabetes: a pooled analysis of three occupational cohort studies. *Diabet Med* 2016;33:208-17.
239. Pulkki-Råback L, Elovainio M, **Virtanen M**, Kivimäki M, Hintsanen M, Hintsanen T, Jokela M, Puttonen S, Joensuu M, Lipsanen J, Raitakari OT, Keltikangas-Järvinen L. Job demands and job control as predictors of depressive symptoms: moderating effects of negative childhood socioemotional experiences. *Stress Health* 2016;32:383-94.
238. **Virtanen M**, Jokela M, Nyberg ST, ..., Kivimäki M. Long working hours and alcohol use: systematic review and meta-analysis of published studies and unpublished individual participant data. *BMJ* 2015;350:g7772. [Systematic review and meta-analysis]
237. Kivimäki M, Jokela M, Nyberg ST, ..., **Virtanen M**. Long working hours and risk of coronary heart disease and stroke: a systematic review and meta-analysis of published and unpublished data for 603 838 individuals. *Lancet*. 2015;386:1739-46. [Systematic review and meta-analysis]

236. Kivimäki M, Singh-Manoux A, Nyberg S, Jokela M, **Virtanen M**. Job strain and risk of obesity: systematic review and meta-analysis of cohort studies. *Int J Obes (Lond)* 2015;39:1597-600. [Systematic review and meta-analysis]
235. Kivimäki M, Singh-Manoux A, **Virtanen M**, Ferrie JE, Batty GD, Rugulies R. IPD-Work consortium: pre-defined meta-analyses of individual-participant data strengthen evidence base for a link between psychosocial factors and health. *Scand J Work Environ Health*. 2015;41:312-21. [Review]
234. **Virtanen M**, Vahtera J, Head J, Dray-Spira R, Okuloff A, Tabak AG, Goldberg M, Ervasti J, Jokela M, Singh-Manoux A, Pentti J, Zins M, Kivimäki M. Work disability among employees with diabetes: latent class analysis of risk factors in three prospective cohort studies. *PLoS One*. 2015;10:e0143184
233. **Virtanen M**, Ervasti J, Mittendorfer-Rutz E, Tinghög P, Lallukka T, Kjeldgård L, Pentti J, Alexanderson K. Trends of diagnosis-specific work disability after newly diagnosed diabetes: A 4-year nationwide prospective cohort study. *Diabetes Care* 2015;38:1883-90.
232. Vuokko A, Selinheimo S, Sainio M, Suojalehto H, Järnefelt H, **Virtanen M**, Kallio E, Hublin C, Karvala K. Decreased work ability associated to indoor air problems - An intervention (RCT) to promote health behaviour. *Neurotoxicology*. 2015 Jul;49:59-67.
231. Hakulinen C, Elovainio M, Pulkki-Råback L, **Virtanen M**, Kivimäki M, Jokela M. Personality and depressive symptoms. Individual-participant meta-analysis of 10 cohort studies. *Depress Anxiety*. 2015;32:461-70.
230. Hakulinen C, Hintsanen M, Munafò MR, **Virtanen M**, Kivimäki M, Batty GD, Jokela M. Personality and smoking: individual-participant meta-analysis of nine cohort studies. *Addiction*. 2015;110:1844-52.
229. **Virtanen M**, Kivimäki M, Zins M, Dray-Spira R, Oksanen T, Ferrie JE, Okuloff A, Pentti J, Head J, Goldberg M, Vahtera J. Lifestyle-related risk factors and trajectories of work disability over five years in employees with diabetes: findings from two prospective cohort studies. *Diabet Med* 2015;32:1335-41.
228. Ervasti J, **Virtanen M**, Lallukka T, Pentti J, Tinghög P, Kjeldgård L, Mittendorfer-Rutz E, Alexanderson K. Work disability before and after the diagnosis of diabetes: a nationwide population-based register study in Sweden. *Am J Public Health* 2015;105:e22-9.
227. Clark AJ, Salo P, Lange T, Jennum PJ, **Virtanen M**, Pentti J, Kivimäki M, Vahtera J, Hulvej Rod N. Onset of impaired sleep as a predictor of adverse change in health behaviours – Analysing repeat observational data as a series of non-randomized trials. *Int J Epidemiology* 2015;44:1027-37.
226. Ferrie JE, Kivimäki M, Akbaraly T, Tabak A, Abell J, Davey Smith G, **Virtanen M**, Kumari M, Shipley MJ. Change in sleep duration and type 2 diabetes: the Whitehall II study. *Diabetes Care* 2015;38:1467-72.
225. Hakulinen C, Elovainio M, Batty GD, **Virtanen M**, Kivimäki M, Jokela M. Personality and alcohol consumption: pooled analysis of 72,949 adults from eight cohort studies. *Drug Alcohol Dep* 2015;151:110-4.
224. **Virtanen M**, Ferrie JE, Batty GD, Elovainio M, Jokela M, Vahtera J, Singh-Manoux A, Kivimäki M. Socioeconomic and psychosocial adversity in midlife and depressive symptoms post retirement: A 21-year follow-up of the Whitehall II study *Am J Geriatr Psychiatry* 2015;23:99-109.

223. Ervasti J, Vahtera J, Pentti J, Oksanen T, Ahola K, Kivekäs T, Kivimäki M, **Virtanen M**. Return to work after depression-related absence by employees with and without other health conditions: a cohort study. *Psychosom Med*. 2015;77:126-35.
222. **Virtanen M**, Shipley MJ, Batty GD, Hamer M, Allan CL, Lowe GD, Ebmeier KP, Akbaraly TN, Alenius H, Haapakoski R, Singh-Manoux A, Kivimäki M. Interleukin-6 as a predictor of symptom resolution in psychological distress: a cohort study. *Psychol Med* 2015;45:2137-44
221. **Virtanen M**, Kivimäki H, Ervasti J, Oksanen T, Pentti J, Kouvonen A, Halonen JI, Kivimäki M, Vahtera J. Fast-food outlets and grocery stores near school and adolescents' eating habits and overweight in Finland. *Eur J Public Health* 2015;25:650-5.
220. Fransson EI, Nyberg ST, Heikkilä K.,., **Virtanen M**,....Kivimäki. IPD-Work Consortium. Job strain and the risk of stroke: an individual-participant data meta-analysis. *Stroke* 2015;46:557-9.
219. Akbaraly T, Shipley MJ, Ferrie J, **Virtanen M**, Lowe G, Hamer M, Kivimäki M. Long term adherence to healthy dietary guidelines and chronic inflammation in the prospective Whitehall II Study. *Am J Med* 2015;128:152-160.
218. Kivimäki M, **Virtanen M**, Kawachi I, ..., Jokela M. IPD-Work Consortium. Long working hours, socioeconomic status, and the risk of incident type 2 diabetes: a meta-analysis of published and unpublished data from 222 120 individuals. *Lancet Diabetes Endocrinol* 2015;3:27-34.
217. Linnansaari-Rajalin T, Kivimäki M, Ervasti J, Pentti J, Vahtera J, **Virtanen M**. School neighbourhood socioeconomic status and teachers' work commitment in Finland: longitudinal survey with register linkage. *Teachers and Teaching: Theory and Practice* 2015;21:131-49.
216. **Virtanen M**, Ferrie JE, Tabak AG, Akbaraly TN, Vahtera J, Singh-Manoux A, Kivimäki M. Psychological distress and incidence of type 2 diabetes in high-risk and low-risk populations: the Whitehall II Cohort Study. *Diabetes Care* 2014;37:2091-7.
215. Ervasti J, Vahtera J, Virtanen P, Pentti J, Oksanen T, Ahola K, Kivimäki M, **Virtanen M**. Is temporary employment a risk factor for work disability due to depressive disorders and delayed return to work? The Finnish Public Sector Study. *Scand J Work Environ Health* 2014;40:343-52.
214. Heikkilä K, Madsen IE, Nyberg ST,... **Virtanen M**,... Kivimäki M; IPD-Work Consortium. Job strain and COPD exacerbations: an individual-participant meta-analysis. *Eur Respir J* 2014;44:247-51.
213. Heikkilä K, Madsen IE, Nyberg ST,... **Virtanen M**,... Kivimäki M; IPD-Work Consortium. Job strain and the risk of severe asthma exacerbations: a meta-analysis of individual-participant data from 100 000 European men and women. *Allergy* 2014;69:775-83.
212. Heikkilä K, Madsen IE, Nyberg ST,... **Virtanen M**,... Kivimäki M; IPD-Work Consortium. Job strain and the risk of inflammatory bowel diseases: individual-participant meta-analysis of 95,000 men and women. *PLoS One* 2014;9:e88711.
211. Joensuu M, Kivimäki M, Pentti J, **Virtanen M**, Väänänen A, Vahtera J. Components of job control and mortality: the Finnish Public Sector Study. *Occup Environ Med* 2014;71:536-42.
210. Kivimäki M, Batty GD, Kawachi I, **Virtanen M**, Singh-Manoux A, Brunner EJ.

- Don't let the truth get in the way of a good story: an illustration of citation bias in epidemiologic research. *Am J Epidemiol* 2014;180:446-8.
209. Halonen JI, Kivimäki M, Pentti J, **Virtanen M**, Subramanian SV, Kawachi I, Vahtera J. Association of the availability of beer, wine, and liquor outlets with beverage-specific alcohol consumption: a cohort study. *Alcohol Clin Exp Res* 2014;38:1086-93.
208. Ervasti J, Vahtera J, Pentti J, Oksanen T, Ahola K, Kivekäs T, Kivimäki M, **Virtanen M**. The role of psychiatric, cardiometabolic, and musculoskeletal comorbidity in the recurrence of depression-related work disability. *Depress Anxiety* 2014;31:796-803.
207. Nyberg ST, Fransson EI, Heikkilä K..., **Virtanen M**,... Kivimäki M; IPD-Work Consortium. Job strain as a risk factor for type 2 diabetes: a pooled analysis of 124,808 men and women. *Diabetes Care* 2014;37:2268-75.
206. Muurinen C, Laine M, Pentti J, **Virtanen M**, Salo P, Kivimäki M, Vahtera J, Oksanen T. Vertical and horizontal trust at work as predictors of retirement intentions: the Finnish Public Sector Study. *PLoS One* 2014;9:e106956.
205. **Virtanen M**, Oksanen T, Batty GD, Ala-Mursula L, Salo P, Elovainio M, Pentti J, Lybäck K, Vahtera J, Kivimäki M. Extending employment beyond the pensionable age: a cohort study of the influence of chronic diseases, health risk factors, and working conditions. *Plos One* 2014;9:e88695.
204. Griffiths A, Kouvonen A, Pentti J, Oksanen T, **Virtanen M**, Salo P, Väänänen A, Kivimäki M, Vahtera J. Association of physical activity with future mental health in older, mid-life and younger women. *Eur J Public Health* 2014;24:813-8.
203. Heponiemi T, Kouvonen A, **Virtanen M**, Vänskä J, Elovainio M. The prospective effects of workplace violence on physicians' job satisfaction and turnover intentions: the buffering effect of job control *BMC Health Services Research* 2014;14:19.
202. Juvani A, Oksanen T, Salo P, **Virtanen M**, Kivimäki M, Pentti J, Vahtera J. Effort-reward imbalance as a risk factor for disability pension: the Finnish Public Sector Study *Scand J Work Environ Health* 2014;40:266-7.
201. Kouvonen A, Kivimäki M, Oksanen T, Pentti J, De Vogli R, **Virtanen M**, Vahtera J. Obesity and occupational injury: a prospective cohort study of 69,515 public sector employees. *Plos One* 2014;8:e77178.
200. Saltychev M, Laimi K, Oksanen T, **Virtanen M**, Pentti J, Kivimäki M, Vahtera J. Nine-year trajectory of purchases of prescribed pain medications before and after in-patient interdisciplinary rehabilitation for chronic musculoskeletal disorders: A prospective, cohort, register-based study of 4,365 subjects. *J Rehabil Med* 2014;46:283-6.
199. Kivimäki M, Shipley MJ, Batty GD, Hamer M, Akbaraly TN, Kumari M, Jokela M, **Virtanen M**, Lowe GD, Ebmeier KP, Brunner EJ, Singh-Manoux A. Long-term inflammation increases risk of common mental disorder: a cohort study. *Mol Psychiatry* 2014;19:149-50.
198. Kronström K, Karlsson H, Nabi H, Oksanen T, Salo P, Sjösten N, **Virtanen M**, Pentti J, Kivimäki M, Vahtera J. Optimism and pessimism as predictors of initiating and ending an antidepressant medication treatment. *Nord J Psychiatry* 2014;68:1-7.
197. Ahola K, Joensuu M, Mattila-Holappa P, Tuisku K, Vahtera J, **Virtanen M**. Mielenterveysyistä työkyvyttömiä nuorten aikuisten tausta [The background of

- young adults with work disability due to mental disorders]. Suomen Lääkärilehti [Finnish Medical Journal] 2014; 50-52:3441-8.
196. Kivimäki M, Batty GD, Hamer M, Nabi H, Korhonen M, Huupponen R, Pentti J, Oksanen T, Kawachi I, **Virtanen M**, Westerlund H, Vahtera J. Influence of retirement on nonadherence to medication for hypertension and diabetes. *CMAJ*. 2013;185:E784-90.
195. Ervasti J, Vahtera J, Pentti J, Oksanen T, Ahola K, Kivimäki M, **Virtanen M**. Depression-related work disability: socioeconomic inequalities in onset, duration and recurrence. *PLoS One* 2013;8(11):e79855
194. Kokkinen L, **Virtanen M**, Pentti J, Vahtera J, Kivimäki M. Does transfer of work from a public sector organisation to a commercial enterprise without staff reductions increase risk of long-term sickness absence among the staff? A cohort study of laboratory and radiology employees. *Occup Environ Med* 2013;70:585-7.
193. Koponen A, Vahtera J, Pitkäniemi J, **Virtanen M**, Pentti J, Simonsen-Rehn N, Kivimäki M, Suominen S. Job strain and supervisor support in primary care health centres and glycaemic control among patients with type 2 diabetes: a cross-sectional study. *BMJ Open* 2013;3.
192. Sjösten N, Nabi H, Westerlund H, Salo P, Oksanen T, Pentti J, **Virtanen M**, Kivimäki M, Vahtera J. Effect of depression onset on adherence to medication among hypertensive patients: a longitudinal modelling study. *J Hypertens* 2013;31:1477-84.
191. Kivimäki M, Nyberg ST, Fransson EI,...**Virtanen M**,...Batty GD. Associations of job strain and lifestyle risk factors with risk of coronary artery disease: a meta-analysis of individual participant data. *CMAJ* 2013;185:763-9.
190. Heikkilä K, Fransson EI, Nyberg ST....**Virtanen M**,....Kivimäki M. Job Strain and health-related lifestyle: findings from an Individual-Participant Meta-Analysis of 118 000 working adults. *Am J Public Health* 2013;103:2090-7.
189. Oksanen T, Kawachi I, Kouvonen A, Takao S, Suzuki E, **Virtanen M**, Pentti J, Kivimäki M, Vahtera J. Workplace determinants of social capital: cross-sectional and longitudinal evidence from a Finnish cohort study. *PLoS One* 2013;8:e65846.
188. Elovainio M, Linna A, **Virtanen M**, Oksanen T, Kivimäki M, Pentti J, Vahtera J. Perceived organizational justice as a predictor of long-term sickness absence due to diagnosed mental disorders: results from the prospective longitudinal Finnish Public Sector Study. *Soc Sci Med* 2013;91:39-47.
187. Jokela M, Batty GD, Nyberg ST, Virtanen M, Nabi H, Singh-Manoux A, Kivimäki M. Personality and all-cause mortality: individual-participant meta-analysis of 3,947 deaths in 76,150 adults. *Am J Epidemiol* 2013;178:667-75.
186. Ferrie JE, Kivimäki M, Shipley MJ, Davey Smith G, **Virtanen M**. Job insecurity and incident coronary heart disease: the Whitehall II prospective cohort study. *Atherosclerosis* 2013;227:178-81.
185. Elovainio M, Salo P, Jokela M, Heponiemi T, Linna A, **Virtanen M**, Oksanen T, Kivimäki M, Vahtera J. Psychosocial factors and well-being among Finnish GPs and specialists: a 10-year follow-up. *Occup Environ Med*. 2013;70:246-51.
184. Heikkilä K, Nyberg ST, Theorell T,...**Virtanen M**,....Kivimäki M. Work stress and risk of cancer: meta-analysis of 5700 incident cancer events in 116,000 European men and women. *BMJ*. 2013;346:f165.

183. Halonen JI, Kivimäki M, **Virtanen M**, Pentti J, Subramanian SV, Kawachi I, Vahtera J. Proximity of off-premise alcohol outlets and heavy alcohol consumption: A cohort study. *Drug Alcohol Depend* 2013;132:295-300.
182. Halonen JI, Vahtera J, Oksanen T, Pentti J, **Virtanen M**, Jokela M, Diez-Roux AV, Kivimäki M. Socioeconomic characteristics of residential areas and risk of death: is variation in spatial units for analysis a source of heterogeneity in observed associations? *BMJ Open* 2013;3:e002474.
181. Oksanen T, Kawachi I, Subramanian S, Kim D, Shirai K, Kouvonen A, Pentti J, Salo P, **Virtanen M**, Vahtera J, Kivimäki M. Do obesity and sleep problems cluster in the workplace? A multivariate, multilevel study. *Scand J Work Environ Health*. 2013;39:276-83.
180. Kouvonen A, Vahtera J, Oksanen T, Pentti J, Väänänen AK, Heponiemi T, Salo P, **Virtanen M**, Kivimäki M. Chronic workplace stress and insufficient physical activity: a cohort study. *Occup Environ Med* 2013;70:3-8.
179. Nabi H, **Virtanen M**, Singh-Manoux A, Hagger-Johnson G, Pentti J, Kivimäki M, Vahtera J. Trait anxiety levels before and after antidepressant treatment: A three-wave cohort study. *J Clin Psychopharmacol* 2013;33:371-7.
178. **Virtanen M**, Nyberg ST, Batty GD, et al. Perceived job insecurity as a risk factor for incident coronary heart disease: systematic review and meta-analysis. *BMJ* 2013;347:f4746. [Systematic review and meta-analysis]
177. Solovieva S, Lallukka T, **Virtanen M**, Viikari-Juntura E. Psychosocial factors at work, long work hours, and obesity: a systematic review. *Scand J Work Environ Health* 2013;39:241-58. [Systematic review]
176. **Virtanen M**, Heikkilä K, Jokela M, Ferrie JE, Batty GD, Vahtera J, Kivimäki M. Long working hours and coronary heart disease: a systematic review and meta-analysis. *Am J Epidemiol* 2012;176:586-96. [Systematic review and meta-analysis]
175. **Virtanen M**, Kivimäki M. Saved by the bell: Does working too much increase the likelihood of depression? *Exp Rev Neurother* 2012;12:497-9.
174. Halonen JI, Kivimäki M, **Virtanen M**, Pentti J, Subramanian S, Kawachi I, Vahtera J. Living in proximity of a bar and risky alcohol behaviours: A longitudinal study. *Addiction*. 2012;108:320-8.
173. Fransson EI, Heikkilä K, Nyberg ST,.....**Virtanen M**,.....Kivimäki M (the IPD-Work Consortium). Job strain as a risk factor for leisure-time physical inactivity: An individual-participant meta-analysis of up to 170,000 men and women. The IPD-Work Consortium. *Am J Epidemiol*, 2012;176:1078-89.
172. Salo P, Vahtera J, Ferrie JE, Akbaraly T, Goldberg M, Zins M, Pentti J, **Virtanen M**, Shipley MJ, Singh-Manoux A, Dauvilliers Y, Kivimäki M. Trajectories of sleep complaints from early midlife to old age: longitudinal modeling study. *Sleep* 2012;35:1559-68.
171. Ervasti J, Kivimäki M, Kawachi I, Subramanian S, Pentti J, Oksanen T, Puusniekka R, Pohjonen T, Vahtera J, **Virtanen M**. School environment as predictor of teacher sick leave: data-linked prospective cohort study. *BMC Public Health*. 2012;12:770.
170. Kivimäki M, Nyberg ST, Batty GD,.....**Virtanen M**, Westerholm PJM, Westerlund H, Zins M, Steptoe A, Theorell T. Job strain as a risk factor for coronary heart disease: A collaborative meta-analysis of individual participant data. *Lancet* 2012;380:1491-7.

169. Heikkilä K, Nyberg ST, Fransson EI,.... **Virtanen M**....., Kivimäki M, for the IPD-Work Consortium. Job strain and alcohol intake: A collaborative meta-analysis of individual-participant data from 140 000 men and women. *PLoS One*. 2012;7:e40101.
168. Ervasti J, Kivimäki M, Pentti J, Salmi V, Suominen S, Vahtera J, **Virtanen M**. Work-related violence, lifestyle, and health among special education teachers working in Finnish basic education *J Sch Health* 2012;82:336-43.
167. Heikkilä K, Nyberg ST, Fransson EI,....**Virtanen M**,.....Kivimäki M (the IPD-Work Consortium). Job strain and tobacco smoking: an individual-participant data meta-analysis of 166 130 adults in 15 European studies. *PloS One*, 2012;7:e35463.
166. Salo P, Vahtera J, Hall M, Rod NH, **Virtanen M**, Pentti J, Sjösten N, Oksanen T, Kivimäki M. Using repeated measures of sleep disturbances to predict future diagnosis-specific work disability: a cohort study. *Sleep* 2012;35:559-69.
165. Kivimäki M, Shipley MJ, Allan CL, Sexton CE, Jokela M, **Virtanen M**, Tiemeier H, Ebmeier KP, Singh-Manoux A. Vascular risk status as a predictor of later-life depressive symptoms: A cohort study. *Biol Psychiatry*. 2012;72:324-30.
164. Kouvonen A, Kivimäki M, Oksanen T, Pentti J, Heponiemi T, Väänänen A, **Virtanen M**, Vahtera J. Implementation of workplace-based smoking cessation support activities and smoking cessation among employees: the Finnish Public Sector Study. *Am J Public Health* 2012;102:e56-e62.
163. Mäntyniemi A, Oksanen T, Kivimäki M, Salo P, Pentti J, **Virtanen M**, Sjösten N, Vahtera J. Job strain and the risk of disability pension due to musculoskeletal disorders, depression or coronary heart disease: A prospective cohort study of 69,842 employees. *Occup Environ Med* 2012;69:574-81.
162. **Virtanen M**, Stansfeld SA, Fuhrer R, Ferrie JE, Kivimäki M. Overtime work as a predictor of major depressive episode: a 5-year follow-up of the Whitehall II study. *PLoS One* 2012;7:e30719.
161. **Virtanen M**, Vahtera J, Batty GD, Tuisku K, Oksanen T, Elovainio M, Ahola K, Pentti J, Salo P, Varti AM, Kivimäki M. Health risk behaviors and morbidity among hospital staff - comparison across hospital ward medical specialties in a study of 21 Finnish hospitals. *Scand J Work Environ Health* 2012;38:228-37.
160. Salo P, Sivertsen B, Oksanen T, Sjösten N, Pentti J, **Virtanen M**, Kivimäki M, Vahtera J. Insomnia symptoms as a predictor of incident treatment for depression: Prospective cohort study of 40,791 men and women. *Sleep Med* 2012;13:278-84.
159. Joensuu M, Kivimäki M, Koskinen A, Kouvonen A, Pulkki-Råback L, Vahtera J, **Virtanen M**, Väänänen A. differential associations of job control components with mortality: A cohort study, 1986-2005. *Am J Epidemiol* 2012;175:609-19.
158. Ervasti J, Kivimäki M, Kawachi I, Subramanian S, Pentti J, Ahola K, Oksanen T, Pohjonen T, Vahtera J, **Virtanen M**. Pupils with special educational needs in basic education schools and teachers' sickness absences - a register-linkage study. *Scand J Work Environ Health* 2012;38:209-17.
157. Leino T, Eskelinen K, Summala H, **Virtanen M**. Injuries caused by work-related violence: Frequency, need for medical treatment and associations with adverse mental health and alcohol use among Finnish police officers. *Am J Ind Med* 2012;55:691-7.

156. Saltychev M, Laimi K, El-Metwally A, Oksanen T, Pentti J, **Virtanen M**, Kouvonen A, Kivimäki M, Vahtera J. Effectiveness of multidisciplinary early rehabilitation in reducing behaviour-related risk factors. *J Rehabil Med* 2012;44:370-7.
155. Halonen JI, Kivimäki M, Pentti J, Kawachi I, **Virtanen M**, Martikainen P, Subramanian SV, Vahtera J. Quantifying neighbourhood socioeconomic effects in clustering of behaviour-related risk factors: a multilevel analysis. *PLoS One* 2012;7:e32937.
154. Ervasti J, Kivimäki M, Puusniekka R, Luopa P, Pentti J, Suominen S, Vahtera J, **Virtanen, M**. Association of pupil vandalism, bullying and truancy with teachers' absence due to illness: a multi-level analysis. *J Sch Psychol* 2012;50:347-61.
153. Pulkki-Råback L, Kivimäki M, Ahola K, Joutsenniemi K, Elovainio M, Rossi H, Puttonen S, Koskinen S, Isometsä E, Lönnqvist J, **Virtanen M**. Living alone and antidepressant use: a prospective study in a working-age population. *BMC Public Health* 2012;12:236.
152. **Virtanen M**, Oksanen T, Kawachi I, Subramanian SV, Elovainio M, Suominen S, Linna A, Koponen A, Pentti J, Kivimäki M, Vahtera J, Organizational justice in primary care health centers and glycemic control in patients with type 2 diabetes. *Med Care* 2012;50:831-5.
151. Oksanen T, Kawachi I, Jokela M, Kouvonen A, Suzuki E, Takao S, **Virtanen M**, Pentti J, Vahtera J, Kivimäki M. Workplace social capital and risk of chronic and severe hypertension: a cohort study. *J Hypertension* 2012;30:1129-36.
150. Pulkki-Råback L, Ahola K, Elovainio M, Kivimäki M, Hintsanen M, Isometsä E, Lönnqvist J, **Virtanen M**. Socioeconomic position and mental disorders in Finnish working-age population: The Health 2000 Study. *Eur J Public Health* 2012;22:327-32.
149. Nyberg ST, Fransson EI, Heikkilä K,.....**Virtanen M**,.....Kivimäki M. Work stress and body mass index in 160,000 adults: pooled analysis of 12 European cohort studies. *J Intern Med* 2012;272:65-73.
148. Saltychev M, Laimi K, Oksanen T, Pentti J, **Virtanen M**, Kivimäki M, Vahtera J. Effect of a multidisciplinary rehabilitation programme on perceived health among employees at increased risk of incapacity for work: a controlled study. *Clin Rehabil* 2012;26:513-22.
147. Saltychev M, Laimi K, El-Metwally A, Oksanen T, Pentti J, **Virtanen M**, Kivimäki M, Vahtera J. Effectiveness of multidisciplinary primary prevention in decreasing the risk of work disability in a low-risk population. *Scand J Work Environ Health*. 2012;38:27-37.
146. Leino T, Eskelinen K, Summala H, **Virtanen, M**. Work-related violence, debriefing and increased alcohol consumption among police officers. *Int J Police Science & Manag* 2011;13:149-157.
145. Tuisku K, Pulkki-Råback L, **Virtanen M**, Ahola K, Hakanen J. Cultural leisure activities and wellbeing at work: Consuming of culture is associated to work engagement and art making is associated to creativity at work among health care employees. *J Appl Arts Health* 2011; 2: 273-87.
144. **Virtanen M**, Kawachi I, Oksanen T, Salo P, Tuisku K, Pulkki-Råback L, Pentti J, Elovainio M, Vahtera J, Kivimäki M. Socio-economic differences in long-term psychiatric work disability: prospective cohort study of onset, recovery and recurrence. *Occup Environ Med* 2011;68:791-8.

143. Elovainio M, Pietikäinen M, Luopa P, Kivimäki M, Ferrie JE, Jokela J, Suominen S, Vahtera J, **Virtanen M**. Organizational justice at school and its associations with pupils' psychosocial school environment, health, and wellbeing. *Soc Sci Med* 2011;73:1675-82.
142. Saltychev M, Laimi K, Oksanen T, Pentti J, **Virtanen M**, Kivimäki M, Vahtera J. Predictive factors of future participation in rehabilitation in the working population: the Finnish public sector study. *J Rehabil Med* 2011;43:404-10.
141. Ahola K, **Virtanen M**, Honkonen T, Isometsä E, Aromaa A, Lönnqvist J. Common mental disorders and subsequent work disability: A population-based Health 2000 Study. *J Affect Disord* 2011;134:365-72.
140. **Virtanen M**, Terho K, Oksanen T, Kurvinen T, Pentti J, Routamaa M, Vartti AM, Peltonen R, Vahtera J, Kivimäki M. Patients with infectious diseases, overcrowding, and health in hospital staff. *Arch Intern Med* 2011;171:1296-8.
139. Kivimäki M, Batty GD, Hamer M, Ferrie JE, Vahtera J, **Virtanen M**, Marmot MG, Singh-Manoux A, Shipley MJ. Using additional information on working hours to predict coronary heart disease: a cohort study. *Ann Intern Med* 2011;154:457-63.
138. Oksanen T, Vahtera J, Westerlund H, Pentti J, Sjösten N, **Virtanen M**, Kawachi I, Kivimäki M. Is retirement beneficial for mental health? Antidepressant use before and after retirement. *Epidemiology* 2011;22:553-9.
137. Karlsson H, Kronström K, Nabi H, Oksanen T, Salo P, **Virtanen M**, Suominen S, Kivimäki M, Vahtera J. Low level of optimism predicts initiation of psychotherapy for depression: results from the Finnish Public Sector Study. *Psychother Psychosom.* 2011;80:238-44.
136. Ervasti J, Kivimäki M, Puusniekka R, Luopa P, Pentti J, Suominen S, Ahola K, Vahtera J, **Virtanen M**. Students' school satisfaction as predictor of teachers' sickness absence: a prospective cohort study. *Eur J Public Health.* 2011;22:215-9.
135. Kivimäki M, Nyberg ST, Batty GD, Shipley MJ, Ferrie JE, **Virtanen M**, Marmot MG, Vahtera J, Singh-Manoux A, Hamer M. Does adding information on job strain improve risk prediction for coronary heart disease beyond the standard Framingham risk score? The Whitehall II study. *Int J Epidemiol.* 2011;40:1577-84.
134. Oksanen T, Kivimäki M, Kawachi I, Subramanian SV, Takao S, Suzuki E, Kouvonen A, Pentti J, Salo P, **Virtanen M**, Vahtera J. Workplace social capital and all-cause mortality: a prospective cohort study of 28,043 public-sector employees in Finland. *Am J Public Health.* 2011;101:1742-8
133. Elovainio M, Ferrie JE, Singh-Manoux A, Shipley M, Batty GD, Head J, Hamer M, Jokela M, **Virtanen M**, Brunner E, Marmot MG, Kivimäki M. Socioeconomic differences in cardiometabolic factors: social causation or health-related selection? Evidence from the Whitehall II cohort study, 1991-2004. *Am J Epidemiol.* 2011;174:779-89.
132. Leino TM, Selin R, Summala H, **Virtanen M**. Violence and psychological distress among police officers and security guards. *Occup Med (Lond).* 2011;61:400-6.
131. Ervasti J, Kivimäki M, Pentti J, Suominen S, Vahtera J, **Virtanen M**. Sickness absence among Finnish special and general education teachers. *Occup Med (Lond)* 2011;61:465-71.
130. Kivimäki M, Batty GD, Jokela M, Ebmeier KP, Vahtera J, **Virtanen M**, Brunner EJ, Tabak AG, Witte DR, Kumari M, Singh-Manoux A, Hamer M. Antidepressant

- medication use and risk of hyperglycemia and diabetes mellitus - A noncausal association? *Biol Psychiatry*. 2011;70:978-84.
129. Oksanen T, Kawachi I, Kouvonen A, Suzuki E, Takao S, Sjösten N, **Virtanen M**, Pentti J, Vahtera J, Kivimäki M. Workplace social capital and adherence to antihypertensive medication: a cohort study. *PLoS One*. 2011;6:e24732
128. **Virtanen M**, Ferrie JE, Singh-Manoux A, Shipley MJ, Stansfeld SA, Marmot MG, Ahola K, Vahtera J, Kivimäki M. Long working hours and symptoms of anxiety and depression: a 5-year follow-up of the Whitehall II study. *Psychol Med* 2011;41:2485-94.
127. Leino T, Eskelinen K, **Virtanen M**. Työssä kohdattu väkivalta ja hyvinvointi poliisin ammatissa. *Sosiaalilääketieteellinen Aikakauslehti* 2011;48:325-333.
126. Elovainio M, Singh-Manoux A, Ferrie JE, Shipley M, Gimeno D, De Vogli R, Vahtera J, **Virtanen M**, Jokela M, Marmot MG, Kivimäki M. Organisational justice and cognitive function in middle-aged employees: the Whitehall II study. *J Epidemiol Community Health* 2012;66:552-6
125. **Virtanen M**, Vahtera J, Batty GD, Tuisku K, Pentti J, Oksanen T, Salo P, Ahola K, Kivimäki M. Patient overcrowding in psychiatric hospital wards and physical assaults on staff: a data-linked, longitudinal study. *Brit J Psychiatry* 2011;198:149-55.
124. Korkeila J, Oksanen T, **Virtanen M**, Salo P, Nabi H, Pentti J, Vahtera J, Kivimäki M. Early retirement from work among employees with a diagnosis of personality disorder compared to anxiety and depressive disorders. *Eur Psychiatry* 2011;26:18-22.
123. Kronström K, Karlsson, H, Nabi H, Oksanen T, Salo P, Sjösten N, **Virtanen M**, Pentti J, Kivimäki M, Vahtera J. Optimism and pessimism as predictors of work disability with a diagnosis of depression: a prospective study of onset and recovery. *J Affect Disord* 2011;130:294-9.
122. Leino T, Selin R, Summala H, **Virtanen M**. Work-related violence against security guards- who is most at risk? *Ind Health* 2011;49:143-50.
121. Salo P, Oksanen T, Sivertsen B, Hall M, Pentti J, **Virtanen M**, Vahtera J, Kivimäki M. Sleep disturbances as a predictor of cause-specific work disability and delayed return to work. *Sleep* 2010;33:1323-31.
120. Kivimäki M, Hamer M, Batty GD, Geddes JR, Tabak AG, Pentti J, **Virtanen M**, Vahtera J. Antidepressant Medication Use, Weight Gain and Risk of Type 2 Diabetes Mellitus: A Population-based Study. *Diabetes Care* 2010;33:2611-6.
119. **Virtanen M**, Kivimäki M, Pentti J, Oksanen T, Ahola K, Linna A, Kouvonen A, Salo P, Vahtera J. School neighborhood disadvantage as a predictor of long-term sick leave among teachers: prospective cohort study. *Am J Epidemiol*. 2010;171:785-92.
118. Puttonen S, Oksanen T, Vahtera J, Pentti J, **Virtanen M**, Salo P, Kivimäki M. Is shift work a risk factor for rheumatoid arthritis? The Finnish Public Sector study. *Ann Rheum Dis* 2010;69:779-80.
117. Kivimäki M, Tabák AG, Lawlor DA, Batty GD, Singh-Manoux A, Jokela M, **Virtanen M**, Salo P, Oksanen T, Pentti J, Witte DR, Vahtera J. Antidepressant use before and after the diagnosis of type 2 diabetes: a longitudinal modeling study. *Diabetes Care* 2010;33:1471-6.
116. Singh-Manoux A, Kivimäki M, Sjösten N, Ferrie JE, Nabi H, Pentti J, **Virtanen M**, Oksanen T, Vahtera J. Lost work days in the 6 years leading to premature death

- from cardiovascular disease in men and women. *Atherosclerosis* 2010;211:689-93.
115. **Virtanen M**, Kivimäki M, Singh-Manoux A, Gimeno D, Shipley MJ, Vahtera J, Akbaraly TN, Marmot MG, Ferrie JE. Work disability following major organisational change: the Whitehall II study. *J Epidemiol Community Health* 2010;64:461-4.
 114. **Virtanen M**, Ferrie JE, Singh-Manoux A, Shipley MJ, Vahtera J, Marmot MG, Kivimäki M. Overtime work and incident coronary heart disease: the Whitehall II prospective cohort study. *Eur Heart J* 2010;31:1737-44.
 113. Kivimäki M, Vahtera J, Kawachi I, Ferrie JE, Oksanen T, Joensuu M, Pentti J, Salo P, Elovainio M, **Virtanen M**. Psychosocial work environment as a risk factor for absence with a psychiatric diagnosis: an instrumental-variables analysis. *Am J Epidemiol* 2010;172:167-72.
 112. Oksanen T, Kivimäki M, Pentti J, **Virtanen M**, Klaukka T, Vahtera J. Self-report as an indicator of incident disease. *Ann Epidemiol* 2010;20:547-54.
 111. Sinokki M, Hinkka K, Ahola K, Gould R, Puukka P, Lönnqvist J, **Virtanen M**. Social support as a predictor of disability pension: the Finnish Health 2000 study. *J Occup Environ Med* 2010;52:733-9.
 110. Akbaraly TN, Singh-Manoux A, Tabak AG, Jokela M, **Virtanen M**, Ferrie JE, Marmot MG, Shipley MJ, Kivimäki M. Overall Diet History and Reversibility of the Metabolic Syndrome Over 5 Years: The Whitehall II Prospective Cohort Study. *Diabetes Care* 2010;33:2339-41.
 109. Heponiemi T, Elovainio M, Pentti J, **Virtanen M**, Westerlund H, Virtanen P, Oksanen T, Kivimäki M, Vahtera J. Association of contractual and subjective job insecurity with sickness presenteeism among public sector employees. *J Occup Environ Med* 2010;52:830-5.
 108. Vahtera J, Laine S, **Virtanen M**, Oksanen T, Koskinen A, Pentti J, Kivimäki M. Employee control over working times and risk of cause-specific disability pension: the Finnish Public Sector Study. *Occup Environ Med* 2010;67:479-85.
 107. Sinokki M, Ahola K, Hinkka K, Sallinen M, Härmä M, Puukka P, Klaukka T, Lönnqvist J, **Virtanen M**. The association of social support at work and in private life with sleeping problems in the Finnish health 2000 study. *J Occup Environ Med*. 2010;52:54-61.
 106. Akbaraly TN, Kivimäki M, Shipley MJ, Tabak AG, Jokela M, **Virtanen M**, Marmot MG, Ferrie JE, Singh-Manoux A. Metabolic syndrome over 10 years and cognitive functioning in late midlife: the Whitehall II study. *Diabetes Care*. 2010;33:84-9.
 105. Salminen S, Oksanen T, Vahtera J, Sallinen M, Härmä M, Salo P, **Virtanen M**, Kivimäki M. Sleep disturbances as a predictor of occupational injuries among public sector workers *J Sleep Res* 2010;19:207-13.
 104. Joensuu M, Väänänen A, Koskinen A, Kivimäki M, **Virtanen M**, Vahtera J. Psychosocial work environment and hospital admissions due to mental disorders: A 15-year prospective study of industrial employees. *J Affect Disord*. 2010;124:118-25.
 103. **Virtanen M**, Batty DG, Pentti J, Vahtera J, Oksanen T, Tuisku K, Salo P, Ahola K, Terho K, Elovainio M, Kivimäki M. Patient overcrowding in hospital wards as a predictor of diagnosis-specific mental disorders among staff: Prospective cohort study. *J Clin Psychiatry* 2010;71:1308-12.

102. Oksanen T, Kouvonen A, Vahtera J, **Virtanen M**, Kivimäki M. Prospective study of workplace social capital and depression: Are vertical and horizontal components equally important? *J Epidemiol Community Health*. 2010;64:684-9.
101. Elovainio M, Kivimäki M, Linna A, Brockner J, van den Bos K, Greenberg J, Pentti J, **Virtanen M**, Vahtera J. Does organizational justice protect from sickness-absence following a major life event? Finnish Public Sector study. *J Epidemiol Community Health* 2010;64:470-2.
100. **Virtanen M**, Kivimäki M, Elovainio M, Honkonen T, Klaukka T, Vahtera J. Pätkätyö ja masennuslääkkeet rekisteriaineistojen valossa [Temporary employment and antidepressant use]. *Työ ja ihminen* 2009;21:Suppl.538-47.
99. Ahola K, **Virtanen M**, Honkonen T, Isometsä, E, Aromaa A, Lönnqvist J. Sairauspoissaolot masennushäiriöiden yhteydessä - Terveys 2000 väestötutkimuksen tuloksia [Sickness absence in depressive disorders – results from the Health 2000 Study]. *Suomen Lääkärilehti* 2009;64:3081-8.
98. **Virtanen M**, Kivimäki M, Pentti J, Oksanen T, Klaukka T, Vahtera J. Mielenterveysyistä johtuvat sairauslomat lisääntyneet mutta eläkkeet vähentyneet kunta-alalla [Psychiatric work disability has decreased but long-term sickness absence increased in the municipal sector]. *Suomen Lääkärilehti* 2009;43:3647-53.
97. Ylipaavalniemi J, Kivimäki M, Elovainio M, **Virtanen M**, Ahola K, Vahtera J. Psykososiaaliset työolotekijät ja depression sairastuminen: kolmen teoreettisen mallin tarkastelua sairaalahenkilöstöllä [Psychosocial work environment and depression: testing three theoretical models in hospital staff]. *Työ ja ihminen*, 2009;21:Suppl.508-20.
96. Ahola K, Kivimäki M, Honkonen T, **Virtanen M**, Koskinen S, Vahtera J, Lönnqvist J. Työuupumuksen yhteys pitkiin sairauspoissaoloihin [Association between occupational burnout and long-term sickness absence]. *Työ ja ihminen*, 2009;21:Suppl.548-57.
95. **Virtanen M**, Pietikäinen M, Kivimäki M, Luopa P, Jokela M, Elovainio M, Vahtera J. Contribution of parental and school personnel smoking to health risk behaviours among Finnish adolescents. *BMC Public Health* 2009;9:382.
94. Tuisku K, **Virtanen M**, Rossi H, Korkeila J. Two-way consultations to prevent disability of depressive patients. *Acta Psychiatrica Fennica* 2009;40:165-173.
93. **Virtanen M**, Ferrie JE, Gimeno D, Vahtera J, Elovainio M, Singh-Manoux A, Marmot MG, Kivimäki M. Long working hours and sleep disturbances: the Whitehall II prospective cohort study. *Sleep* 2009;32:737-45.
92. **Virtanen M**, Kivimäki M, Luopa P, Vahtera J, Elovainio M, Jokela J, Pietikäinen M. Staff reports of psychosocial climate at school and adolescents' health, truancy and health education in Finland. *Eur J Public Health* 2009;19:554-60.
91. **Virtanen M**, Singh-Manoux A, Ferrie JE, Gimeno D, Marmot MG, Elovainio M, Jokela M, Vahtera J, Kivimäki M. Long working hours and cognitive function: the Whitehall II Study. *Am J Epidemiol* 2009;169:596-605.
90. **Virtanen M**, Kurvinen T, Terho K, Oksanen T, Peltonen R, Vahtera J, Routamaa M, Elovainio M, Kivimäki M. Work hours, work stress and collaboration among ward staff in relation to risk of hospital-associated infection among patients. *Med Care* 2009;47:310-8.

89. Vahtera J, Korkeila J, Karlsson H, Suoyrjö H, **Virtanen M**, Pentti J, Klaukka T, Kivimäki M. Sickness absence trends during and after long-term psychotherapy and antidepressant medication among depressive employees. *Psychother Psychosom* 2009;78:130-2.
88. Elovainio M, Kivimäki M, Ferrie JE, Gimeno D, De Vogli R, **Virtanen M**, Vahtera J, Brunner EJ, Marmot MG, Singh-Manoux A. Physical and cognitive function in midlife: reciprocal effects? A 5-year follow-up of the Whitehall II study. *J Epidemiol Community Health* 2009;63:468-73.
87. Sinokki M, Hinkka K, Ahola K, Koskinen S, Klaukka T, Kivimäki M, Puukka P, Lönnqvist J, **Virtanen M**. The association between team climate at work and mental health in the Finnish Health 2000 Study. *Occup Environ Med* 2009;66:523-8.
86. Väänänen A, Kouvonen A, Kivimäki M, Oksanen T, Elovainio M, **Virtanen M**, Pentti J, Vahtera J. Workplace social capital and co-occurrence of lifestyle risk factors: the Finnish Public Sector Study. *Occup Environ Med* 2009;66:432-7.
85. Sjösten N, Vahtera J, Salo P, Oksanen T, Saaresranta T, **Virtanen M**, Pentti J, Kivimäki M. Increased risk of lost workdays prior to the diagnosis of sleep apnea. *Chest* 2009;136:130-6.
84. Sjösten N, Kivimäki M, Oksanen T, Salo P, Saaresranta T, **Virtanen M**, Pentti J, Vahtera J. Obstructive sleep apnoea syndrome as a predictor of work disability. *Respir Med* 2009;103:1047-55.
83. Kivimäki M, Gimeno D, Ferrie JE, Batty GD, Oksanen T, Jokela M, **Virtanen M**, Salo P, Akbaraly TN, Elovainio M, Pentti J, Vahtera J. Socioeconomic position, psychosocial work environment and cerebrovascular disease among women: the Finnish public sector study. *Int J Epidemiol* 2009;38:1265-71.
82. Laine S, Gimeno D, **Virtanen M**, Oksanen T, Vahtera J, Elovainio M, Koskinen A, Pentti J, Kivimäki M. Job strain as a predictor of disability pension: the Finnish Public Sector Study. *J Epidemiol Community Health* 2009;63:24-30.
81. Vahtera J, Korkeila J, Karlsson H, Suoyrjö H, **Virtanen M**, Pentti J, Klaukka T, Kivimäki M. Sickness absence trends for depressive employees treated by long-term psychotherapy or by antidepressant medication: A 7-year cohort study. *Psychotherapy Psychosomatics* 2009;78:130-2.
80. Kouvonen A, Vahtera J, Väänänen A, De Vogli R, Heponiemi T, Elovainio M, **Virtanen M**, Oksanen T, Cox SJ, Pentti J, Kivimäki M. Relationship between job strain and smoking cessation: the Finnish Public Sector Study. *Tob Control* 2009;18:108-14.
79. Sinokki M, Hinkka K, Ahola K, Koskinen S, Kivimäki M, Honkonen T, Puukka P, Klaukka T, Lönnqvist J, **Virtanen M**. The association of social support at work and in private life with mental health and antidepressant use: the Health 2000 Study. *J Affect Disord* 2009;115:36-45.
78. Ahola K, Gould R, **Virtanen M**, Honkonen T, Lönnqvist J. Occupational burnout as a predictor of disability pension: a population-based cohort study. *Occup Environ Med* 2009;66:284-90.
77. **Virtanen M**, Pentti J, Vahtera J, Ferrie JE, Stansfeld SA, Helenius H, Elovainio M, Honkonen T, Terho K, Oksanen T, Kivimäki M. Overcrowding in hospital wards as a predictor of antidepressant treatment among hospital staff. *Am J Psychiatry* 2008;165:1482-6.

76. Nabi H, Vahtera J, Singh-Manoux A, Pentti J, Oksanen T, Gimeno D, Elovainio M, **Virtanen M**, Klaukka T, Kivimäki M. Do psychological attributes matter for adherence to antihypertensive medication? The Finnish Public Sector Cohort Study. *J Hypertens*. 2008;26:2236-43.
75. Mäki K, Vahtera J, **Virtanen M**, Elovainio M, Pentti J, Keltikangas-Järvinen L, Kivimäki M. Sickness absence among female employees with migraine and co-existing conditions. *Cephalalgia* 2008;28:1136-44.
74. Ahola K, Honkonen T, **Virtanen M**, Aromaa A, Lönnqvist J. Burnout in relation to age in the adult working population. *J Occup Health* 2008;50:362-5.
73. Kouvonen A, Oksanen T, Vahtera J, Stafford M, Wilkinson R, Schneider J, Väänänen A, **Virtanen M**, Cox SJ, Pentti J, Elovainio M, Kivimäki M. Low workplace social capital as a predictor of depression: the Finnish Public Sector Study. *Am J Epidemiol* 2008;167:1143-51.
72. Granö N, Vahtera J, **Virtanen M**, Keltikangas-Järvinen L, Kivimäki M. Association of hostility with sleep duration and sleep disturbances in an employee population. *Int J Behav Med* 2008;15:73-80.
71. **Virtanen M**, Koskinen S, Kivimäki M, Honkonen T, Vahtera J, Ahola K, Lönnqvist J. Contribution of non-work and work-related risk factors to the association between income and mental disorders in a working population: the Health 2000 study. *Occup Environ Med* 2008;65:171-8.
70. Virtanen P, Oksanen T, Kivimäki M, **Virtanen M**, Pentti J, Vahtera J. Work stress and health in primary health care physicians and hospital physicians. *Occup Environ Med* 2008;65:364-6.
69. Oksanen T, Kouvonen A, Kivimäki M, Pentti J, **Virtanen M**, Linna A, Vahtera J. Social capital at work as a predictor of employee health: Multilevel evidence from work units in Finland. *Soc Sci Med* 2008;66:637-49.
68. Mäki K, Vahtera J, **Virtanen M**, Elovainio M, Keltikangas-Järvinen L, Kivimäki M. Work stress and new-onset migraine in a female employee population. *Cephalalgia* 2008;28:18-25.
67. Ahola K, Kivimäki M, Honkonen T, **Virtanen M**, Koskinen S, Vahtera J, Lönnqvist J. Occupational burnout and medically certified sickness absence: A population-based study of Finnish employees. *J Psychosom Res* 2008;64:185-93.
66. **Virtanen M**, Kivimäki M, Ferrie JE, Elovainio M, Honkonen T, Pentti J, Klaukka T, Vahtera J. Temporary employment and antidepressant medication: a register linkage study. *J Psychiatric Res* 2008;42:221-9.
65. **Virtanen M**, Vahtera J, Pentti J, Honkonen T, Elovainio M, Kivimäki M. Job strain and psychologic distress - influence on sickness absence among Finnish employees. *Am J Prev Med* 2007;33:182-7.
64. Honkonen T, Aro T, Isometsä E, **Virtanen M**, Katila H. Quality of treatment and disability compensation in depression: comparison of 2 nationally representative samples with a 10-year interval in Finland. *J Clin Psychiatry*, 2007;68:1886-93.
63. Honkonen T, Stengård E, **Virtanen M**, Salokangas RK. Employment predictors for discharged schizophrenia patients. *Soc Psychiatry Psychiatr Epidemiol* 2007;42:372-80.
62. Kivimäki M, Vahtera J, Pentti J, **Virtanen M**, Elovainio M, Hemingway H. Increased sickness absence in diabetic employees: what is the role of co-morbid conditions? *Diabet Med* 2007;24:1043-8.

61. Hemingway H, Vahtera J, **Virtanen M**, Pentti J, Kivimäki M. Outcome of stable angina in a working population: the burden of sickness absence. *Eur J Cardiovasc Prev Rehabil* 2007;14:373-9.
60. Wiili-Peltola E, Kivimäki M, Elovainio M, **Virtanen M**. Organisational justice and employee perceptions on hospital management. *J Health Organ Manag* 2007;21:320-2.
59. Ahola K, Honkonen T, **Virtanen M**, Kivimäki M, Isometsä E, Aromaa A, Lönnqvist J. Interventions in relation to occupational burnout: The population-based Health 2000 Study. *J Occup Environ Med* 2007;49:943-52.
58. Kivimäki M, Vanhala A, Pentti J, Länsisalmi H, **Virtanen M**, Elovainio M, Vahtera J. Team climate, intention to leave and turnover among hospital employees: prospective cohort study. *BMC Health Serv Res* 2007;7:170.
57. **Virtanen M**, Kivimäki M, Elovainio M, Linna A, Pentti J, Vahtera J. Neighbourhood socioeconomic status, health and working conditions of school teachers. *J Epidemiol Community Health* 2007;61:326-30.
56. **Virtanen M**, Kivimäki M, Kouvonen, A., Elovainio, M., Linna A, Oksanen, T., Vahtera J. Average household income, crime, and smoking behaviour in a local area: The Finnish 10-Town study. *Soc Sci Med* 2007;64:1904-13.
55. **Virtanen M**, Honkonen T, Kivimäki M, Ahola K, Vahtera J, Aromaa A, Lönnqvist, J. Work stress, mental health and antidepressant medication - Findings from the Health 2000 study. *J Affect Disord* 2007;98:189-97.
54. Kivimäki M, Vahtera J, Elovainio M, **Virtanen M**, Siegrist J. Effort-reward imbalance, procedural injustice and relational injustice as psychosocial predictors of health: Complementary or redundant models? *Occup Environ Med* 2007;64:659-65.
53. Kouvonen A, Vahtera J, Elovainio M, Cox SJ, Cox T, Linna A, **Virtanen M**, Kivimäki M. Organisational justice and smoking: the Finnish Public Sector Study. *J Epidemiol Community Health* 2007;61:427-33.
52. Honkonen T, **Virtanen M**, Ahola K, Kivimäki M, Pirkola S, Isometsä E, Aromaa A, Lönnqvist J. Employment status, mental disorders and service use in the working age population. *Scand J Work Environ Health* 2007;33:29-36.
51. Granö N, Keltikangas-Järvinen L, Kouvonen A, **Virtanen M**, Elovainio M, Vahtera J, Kivimäki M. Impulsivity as a predictor of newly diagnosed depression. *Scand J Psychol* 2007;48:173-9.
50. Kivimäki M, Gunnell D, Lawlor DA, Davey Smith G, Pentti J, **Virtanen M**, Elovainio M, Klaukka T, Vahtera J. Social inequalities in antidepressant treatment and mortality: a longitudinal register study. *Psychol Med* 2007;37:373-82.
49. Rauhala A, Kivimäki M, Fagerström L, Elovainio M, **Virtanen M**, Vahtera J, Rainio A-K, Ojaniemi K, Kinnunen J. What degree of work overload is likely to cause increased sickness absenteeism among nurses? Evidence from the RAFAELA patient classification system. *J Adv Nurs* 2007;57:286-95.
48. Kouvonen A, Kivimäki M, Väänänen A, Heponiemi T, Elovainio M, Ala-Mursula L, **Virtanen M**, Pentti J, Linna A, Vahtera J. Job strain and adverse health behaviors: The Finnish Public Sector Study. *J Occup Environ Med* 2007;49:68-74.
47. Kivimäki M, Honkonen T, Wahlbeck K, Elovainio M, Pentti J, Klaukka T, **Virtanen M**, Vahtera J. Organizational downsizing and increased use of psychotropic drugs

- among employees who remain in employment. *J Epidemiol Community Health*, 2007;61:154-8.
46. Kivimäki M, Lawlor DA, Davey Smith G, Kouvonen A, **Virtanen M**, Elovainio M, Vahtera, J. Socioeconomic position, co-occurrence of behaviour-related risk factors, and coronary heart disease: the Finnish Public Sector Study. *Am J Public Health* 2007;97:874-9.
 45. Kivimäki M, Leino-Arjas P, Kaila-Kangas L, **Virtanen M**, Elovainio M, Puttonen S, Keltikangas-Järvinen L, Pentti J, Vahtera, J. Increased sickness absence among employees with fibromyalgia. *Ann Rheum Dis* 2007;66:65-9.
 44. Kouvonen A, Kivimäki M, Vahtera J, Oksanen T, Elovainio M, Cox T, **Virtanen M**, Pentti J, Cox SJ, Wilkinson RG. Psychometric evaluation of a short measure of social capital at work. *BMC Public Health* 2006;6:251.
 43. Ahola K, Honkonen T, Kivimäki M, **Virtanen M**, Isometsä E, Aromaa A, Lönnqvist J. Contribution of burnout to the association between job strain and depression: the Health 2000 Study. *J Occup Environ Med* 2006;48:1023-30.
 42. Granö N, Puttonen S, Elovainio M, **Virtanen M**, Väänänen A, Vahtera J, Keltikangas-Järvinen L, Kivimäki M. Impulsivity as a predictor of newly-diagnosed peptic ulcer disease: a prospective cohort study. *Pers Ind Diff* 2006;41:1539-50.
 41. Kivimäki M, **Virtanen M**, Elovainio M, Väänänen A, Keltikangas-Järvinen L, Vahtera J. Prevalent cardiovascular disease, risk factors and selection out of shift work. *Scand J Work Environ Health* 2006;32:204-8.
 40. Jalonen P, **Virtanen M**, Vahtera J, Elovainio M, Kivimäki M. Predictors of sustained organizational commitment among nurses with temporary job contracts. *J Nurs Adm* 2006;6:268-76.
 39. Kouvonen A, Kivimäki M, Elovainio M, Pentti J, Linna A, **Virtanen M**, Vahtera J. Effort-reward imbalance and sedentary lifestyle: an observational study in a large occupational cohort. *Occup Environ Med* 2006;63:422-7.
 38. Kouvonen A, Kivimäki M, **Virtanen M**, Heponiemi T, Elovainio M, Pentti J, Linna A, Vahtera, J. Effort-reward imbalance at work and the co-occurrence of lifestyle risk factors: cross-sectional survey in a sample of 36,127 public sector employees. *BMC Public Health* 2006;6:24.
 37. **Virtanen M**, Kivimäki M, Vahtera J, Elovainio M, Sund R, Virtanen P, Ferrie JE. Sickness absence as a risk factor for job termination, unemployment and disability pension among temporary and permanent employees. *Occup Environ Med* 2006;63:212-7.
 36. Virtanen P, Saloniemi A, Vahtera J, Kivimäki M, **Virtanen M**, Koskenvuo M. The working conditions and health of non-permanent employees: are there differences between private and public labour markets? *Econ Ind Democracy* 2006;27:39-65.
 35. Kivimäki M, **Virtanen M**, Elovainio M, Kouvonen A, Väänänen A, Vahtera J. Work stress in the etiology of coronary heart disease: A meta-analysis. *Scand J Work Environ Health*, 2006;32:431-442. [Systematic review and meta-analysis]
 34. Virtanen P, Vahtera J, Pentti J, **Virtanen M**, Kivimäki M. Lääkäreiden, sairaanhoitajien ja muiden kunta-alan työntekijöiden sairauspoissaolotrendit 2000-2004 [Trend in sickness absence among physicians, nurses and other municipal staff]. *Suomen Lääkärilehti* 2006;26:2877-82.

33. Turpeinen M, **Virtanen M**, Lindström K, Vahtera J, Kivimäki M. Henkilöstön määräaikaisuus julkisen erikoissairaanhoidon organisaatioissa: keskeiset kehittämiskohteet hoitohenkilöstön näkökulmasta [Temporary employment in specialised health care: personnel's viewpoint]. *Hallinnon tutkimus* 2005;24:140-57
32. Wiili-Peltola E, Kivimäki M, Elovainio M, **Virtanen M**. Johtamisen oikeudenmukaisuus sairaalahenkilökunnan kokemana [Organizational justice at work experienced by hospital staff]. *Työelämän tutkimus* 2005;2:78-91.
31. **Virtanen M**, Kivimäki M, Joensuu M, Virtanen P, Elovainio M, Vahtera J. Temporary employment and health: a review. *Int J Epidemiol* 2005;34:610-22. [Systematic review and meta-analysis]
30. **Virtanen M**, Kivimäki M, Elovainio M, Vahtera J, Kokko K, Pulkkinen L. Mental health and hostility as predictors of temporary employment: evidence from two prospective studies. *Soc Sci Med* 2005;61:2084-95.
29. **Virtanen M**, Kivimäki M, Elovainio M, Virtanen P, Vahtera J. Local economy and sickness absence: prospective cohort study. *J Epidemiol Community Health* 2005;59:973-8.
28. Kouvonen A, Kivimäki M, Elovainio M, **Virtanen M**, Linna A, Vahtera J. Job strain and leisure time physical activity in female and male public sector employees. *Prev Med* 2005;41:532-9.
27. Poikolainen K, Vahtera J, **Virtanen M**, Linna A, Kivimäki M. Alcohol and coronary heart disease risk - is there an unknown confounder? *Addiction* 2005;100:1150-7.
26. Virtanen P, Vahtera J, Kivimäki M, Liukkonen V, **Virtanen M**, Ferrie JE. Labor market trajectory and health: a four year follow-up study of initially fixed-term employees. *Am J Epidemiol* 2005;161:840-6.
25. Ylipaavalniemi J, Kivimäki M, Elovainio M, **Virtanen M**, Keltikangas-Järvinen L, Vahtera J. Psychosocial work characteristics and incidence of newly diagnosed depression: a prospective cohort study of three different models. *Soc Sci Med* 2005;61:111-22.
24. Kouvonen A, Kivimäki M, **Virtanen M**, Pentti J, Vahtera J. Work stress, smoking status, and smoking intensity: an observational study of 46 190 employees. *J Epidemiol Community Health*, 2005;59:63-9.
23. Vahtera J, Kivimäki M, Pentti J, Linna A, **Virtanen M**, Virtanen P, Ferrie JE. Organisational downsizing, sickness absence and mortality: the 10-Town prospective cohort study. *BMJ* 2004;328:555-7.
22. Granö N, **Virtanen M**, Vahtera J, Elovainio M, Kivimäki M. Impulsivity as a predictor of smoking and alcohol consumption. *Pers Individ Diff* 2004;37:1693-1700.
21. Kivimäki M, Leino-Arjas P, **Virtanen M**, Elovainio M, Keltikangas-Järvinen L, Puttonen S, Vartia M, Brunner E, Vahtera J. Work stress and incidence of newly diagnosed fibromyalgia: prospective cohort study. *J Psychosom Res* 2004;57:417-22.
20. Kivimäki M, Mäkinen A, Elovainio M, Vahtera J, **Virtanen M**, Firth-Cozens J. Sickness absence and the organization of nursing care among hospital nurses. *Scand J Work Environ Health*, 2004;30:468-76.
19. **Virtanen M**, Kivimäki M, Virtanen P, Elovainio M, Vahtera J. Disparity in occupational training and career planning between contingent and permanent

- hospital staff. *Eur J Work Organ Psychol* 2003;12:19-36.
18. **Virtanen M**, Kivimäki M, Elovainio M, Vahtera J, Ferrie JE. From insecure to secure employment: Changes in work, health and health-related behaviours. *Occup Environ Med* 2003;60:948-53.
 17. Kivimäki M, Vahtera J, **Virtanen M**, Elovainio M, Pentti J, Ferrie, JE. Temporary employment and risk of overall and cause-specific mortality. *Am J Epidemiol* 2003;158:663-8.
 16. Kivimäki M, Elovainio M, Vahtera J, **Virtanen M**, Stansfeld SA. Association between organisational inequity and incidence of psychiatric disorders in female employees. *Psychol Med* 2003;33:319-26.
 15. Elovainio M, Kivimäki M, Vahtera J, Keltikangas-Järvinen L, **Virtanen M**. Sleeping problems and health behaviors as mediators between organizational justice and health. *Health Psychol* 2003;22:287-93.
 14. Kivimäki M, Vahtera J, Elovainio M, Pentti J, **Virtanen M**. Human costs of organizational downsizing: comparing health trends between leavers and stayers. *Am J Community Psychol* 2003;32:57-67.
 13. Kivimäki M, **Virtanen M**, Vartia M, Elovainio M, Vahtera J, Keltikangas-Järvinen L. Workplace bullying and the risk of cardiovascular disease and depression. *Occup Environ Med* 2003;60:779-83.
 12. Mäkinen A, Kivimäki M, Elovainio M, **Virtanen M**. Organization of nursing care and stressful work characteristics. *J Adv Nurs* 2003;43:197-205.
 11. Mäkinen A, Kivimäki M, Elovainio M, **Virtanen M**, Bond S. Organisation of nursing care as a determinant of job satisfaction among hospital nurses. *J Nurs Managem* 2003;11:299-306.
 10. Elovainio M, Kivimäki M, Vahtera J, **Virtanen M**, Keltikangas-Järvinen L. Personality as a moderator in the relations between perceptions of organizational justice and sickness absence. *J Vocat Behav* 2003;63:379-95.
 9. Mäkinen A, Kivimäki M, Elovainio M, **Virtanen M**. Myönteisten muutosten sairaalaosastot. Kvalitatiivinen tutkimus muutosisällöistä [A qualitative study on the content of positive organizational change in hospital wards]. *Hoitotiede* 2003;15:107-14.
 8. Elovainio M, Kivimäki M, Vahtera J, **Virtanen M**. Päätöksenteon oikeudenmukaisuus ja työntekijöiden terveys [Organizational justice and health of employees]. *Työ ja ihminen* 2002;16:20-8.
 7. **Virtanen M**, Kivimäki M, Elovainio M, Vahtera J. Selection from fixed-term to permanent employment: prospective study on health, job satisfaction and behavioural risks. *J Epidemiol Community Health* 2002;56:693-9.
 6. Sutinen R, Kivimäki M, Elovainio M, **Virtanen M**. Organisational fairness and psychological distress in hospital physicians. *Scand J Public Health*, 2002;30:209-15.
 5. **Virtanen M**, Kivimäki M, Elovainio M, Vahtera J, Cooper CL. Contingent employment, health and sickness absence. *Scand J Work Environ Health* 2001;27:365-72.
 4. Kivimäki M, Kuisma P, **Virtanen M**, Elovainio M. Does shift work lead to poorer health habits? A comparison between women who had always done shift work whit those who had never done shift work. *Work & Stress* 2001;15:3-13.

3. Kivimäki M, **Virtanen M**, Elovainio M, Vahtera J. Työntekijä organisaation rakennemuutoksessa [Employees in organisational change]. *Sosiaalilääketieteellinen aikakauslehti* 2001;8:163-71.
2. Kivimäki M, Vartia-Väänänen M, Elovainio M, Vahtera J, **Virtanen M**. Työpaikkakiusaaminen ja sairauspoissaolot sairaalahenkilöstön keskuudessa [Workplace bullying and sickness absence among hospital staff]. *Yhteiskuntapolitiikka* 2000;65:327-33.
1. **Virtanen M**, Kivimäki M, Elovainio M. Määräaikainen työsuhde, työtyytyväisyys ja terveys: Tutkimus sairaalahenkilöstöstä [Temporary employment, job satisfaction and health]. *Työ ja ihminen* 2000;14:354-69.

B) Non-refereed scientific articles and book chapters

21. Ervasti J, **Virtanen M**. Research strategies for precarious employment. *Scand J Work Environ Health* 2019; epub ahead of print [Invited editorial]
20. **Virtanen M**, Kivimäki M. Is unhealthy lifestyle more harmful for poor people? *Lancet Public Health* 2018;3(12):e558-e559. [Invited commentary]
19. Elovainio M, **Virtanen M**. Oikeudenmukainen johtaminen työpaikalla [Justice in the management of work organisations] In: Häyry M, Takala T, Ahola-Launonen J (eds). *Oikeudenmukaisuuden ongelma [The problem of justice]*. Gaudeamus, 2018; pp. 183-94. [book chapter]
18. **Virtanen M**. Towards sustainable work and longer working lives. *Scand J Public Health*. 2018;46:287-9. [Invited editorial]
17. **Virtanen M**. Psychosocial job stressors and suicidality: can stress at work lead to suicide? *Occup Environ Med*. 2018;75:243-4. [Invited commentary]
16. Ferrie JE, **Virtanen M**, Kivimäki M. The healthy population-high disability paradox. *Occup Environ Med* 2014;71:232-3 [Invited commentary].
15. Vahtera J, **Virtanen M**. Health effects of major organisational changes. *Occup Environ Med*. 2013;**70:677-8** [Invited commentary].
14. **Virtanen M**, Ervasti J, Oksanen T, Kivimäki M, Vahtera J. Social capital in schools. In Kawachi I, Subramanian SV, Kim D (eds.), *Social capital and health*, 2nd ed. Springer, 2013. [book chapter]
13. **Virtanen M**, Oksanen T, Takala EP, Kivimäki M, Lindholm H. Voiko stressi sairastuttaa? [Can stress make you ill?]. In: S Toppinen-Tanner, K Ahola (eds.). *Kaikkea stressistä [All about stress]*. Helsinki: Finnish Institute of Occupational Health, 2012;127-50. [book chapter]
12. Ahola K, **Virtanen M**. Mikä aiheuttaa stressiä? [Causes of stress]. In: S Toppinen-Tanner, K Ahola (eds.). *Kaikkea stressistä [All about stress]*. Helsinki: Finnish Institute of Occupational Health, 2012;34-44. [book chapter]
11. Kivimäki M, Singh-Manoux A, Batty GD, **Virtanen M**, Ferrie JE, Vahtera J. Psychosocial factors at work: the epidemiological perspective. In: Hjemdahl P, Rosengren A, Steptoe A (eds.). *Stress and cardiovascular disease*. London: Springer-Verlag Limited, 2012; 195-210 . [book chapter]
10. Oksanen T, **Virtanen M**. Health and retirement: a complex relationship. *Eur J Ageing* 2012;9:221-5. [Invited commentary]

9. **Virtanen M.** Stress at work - a risk factor for depression? *Scand J Work Environ Health* 2010;36:433-4 [Invited commentary].
8. Ahola K, **Virtanen M**, Pirkola S, Suvisaari J. Työ ja mielenterveys [Work and mental health]. In: S Koskinen, A Aromaa (eds.) *Suomalaisten työ, työkyky ja terveys 2000-luvun alkaessa (Work, working capacity, and health among the Finns in the beginning of 2000's)*. Report 11, 2010. Helsinki: Terveyden ja hyvinvoinnin laitos [National Institute for Health and Welfare].[book chapter]
7. **Virtanen M**, Vahtera J, Kivimäki M. Ylityön vaikutus hoksottimiin. *Duodecim* 2009;125:2652-3 [The effect of overwork on cognitive function, in Finnish; editorial]
6. Tuisku K, Rossi H, Ahola K, **Virtanen M**. Työterveyshuolto kaipaa yhteistyötä masennuspotilaiden hoitoon [OHS needs collaboration in the treatment of depressive patients]. *Suomen Lääkärilehti* 2009;64:1218-9.
5. **Virtanen M.** Mielenterveys ja työelämä Työ ja ihminen 2009:21, Suppl.505-7. [Mental health and worklife; editorial]
4. **Virtanen M.** Work characteristics, anxiety and depression. *Occup Environ Med* 2008;65:71 [Invited commentary].
3. Kivimäki M, **Virtanen M**, Elovainio M, Vahtera J. Work career, health and personality. In L. Pulkkinen, J. Kaprio, R.J. Rose (Eds.), *Socioemotional development and health from adolescence to adulthood. International studies on child and adolescent health (ISCAH)*, Cambridge: Cambridge University Press, 2006. [book chapter]
2. Kivimäki M, Elovainio M, Vahtera J, **Virtanen M**. Johtaminen ja työntekijöiden hyvinvointi [leadership and employee well-being]. In: J. Vuori (Ed.), *Terveys ja johtaminen [Health and leadership]*. *Terveyshallintotiede terveydenhuollon työyhteisöissä*. Helsinki: WSOY, 2006. [book chapter]
1. **Virtanen M.** Jaksamisen eväitä kipupotilaan hoitajalle [Supporting well-being of the professionals treating patients with pain]. In E. Sailo, A-M. Varti (eds.), *Kivunhoito [Treatment of pain]*. Helsinki: Tammi, 2000; pp.244-56. [book chapter]

C) Scientific books (monographs)

Doctoral thesis 2

Virtanen M. Long working hours and health in office workers: a cohort study of coronary heart disease, type 2 diabetes, depression and sleep disturbances. Department of Epidemiology and Public Health, University College London, UK, 2012.

D) Publications intended for professional communities

41. Lallukka T, Ervasti J, **Virtanen M.** Työkyvyttömyyden syyt aivoverenkiertohäiriöpotilailla ennen ja jälkeen diagnoosin [Causes of work disability before and after the stroke event]. *Best Practice Diabetes ja Sydänsairaudet*, October 2018.
40. Ervasti J, Joensuu M, **Virtanen M.** Mikä ennustaa työhön paluuta masennuksen jälkeen? [What predicts return to work after depression?] *Best Practice Psykiatria/neurologia*, February 2018.

39. **Virtanen M**, Lundström E, Alexanderson K. Sjukfrånvaro ökade tre år före insjuknande i hjärtinfarkt och stroke [Sickness absence increased three years before onset of heart disease or stroke]. *Läkartidningen* 2017
<http://lakartidningen.se/Klinik-och-vetenskap/Nya-ron/2017/07/Sjukfranvaro-okade-tre-ar-fore-insjuknande-i-hjartinfarkt-och-stroke/>
38. **Virtanen M**, Ervasti J. Työ, diabetes ja työkyky [Work, diabetes, and work ability]. *Best Practice in Cardiovascular Diseases and Diabetes*; May 2016.
37. **Virtanen M**, Kivimäki M, Vahtera J. Työajan joustoilla pidempiä työuria [Longer work careers with flexible working hours]. *Työterveyslääkäri [Occupational Health Physician]* 2014;3:17-18.
36. **Virtanen M**, Oksanen T, Ervasti J, Kivimäki M, Vahtera J. Mistä kaikesta sairauspoissaolot voivat kertoa? [What does sickness absence tell us?] *Työterveyslääkäri [Occupational Health Physician]* 2014;2:13-16.
35. **Virtanen M**. Rakennusalan työ- ja terveystilanne. *Työterveyslääkäri [Occupational Health Physician]* 2014;1:11-13.
34. Tuisku K, Virtanen M, Haakana L, Joensuu M, Teerimäki R., Ropponen T. Masennuksen uusi hoitomalli työterveyshuollossa: miten henkilöstö tarttui uudistumisen haasteeseen? [New treatment method for depression: How did the personnel take the challenge?] *Työterveyslääkäri [Occupational Health Physician]* 2013;3:73-76.
33. **Virtanen M**, Haakana L, Joensuu M, Teerimäki R, Ropponen T, Tuisku K. Työterveyshuolto siirtyi masennuksen hoidon uuteen toimintamalliin – miten potilaiden hoito toteutui? [New treatment method for depression – How did it work?] *Työterveyslääkäri [Occupational Health Physician]* 2013;1.
32. **Virtanen M**, Tuisku K, Honkonen T, Joensuu M, Rossi H. Työterveyshoitaja masentuneen tukena (Occupational health nurse supporting depressive patients). *Työterveyshoitaja [Occupational Health Nurse]* 2012;3:14-15.
31. Rossi H, Joensuu M, **Virtanen M**, Honkonen T, Tuisku K. Kuinka sujuu masennuksen hoito työterveyshuollossa valtakunnallisten hankkeiden jälkeen? (Treatment of depression in OHS after implementation of a national project). *Työterveyslääkäri [Occupational Health Physician]* 2012;3:81-85.
30. **Virtanen M**. TULE-terveys tilastoissa (Musculoskeletal health in statistics, in Finnish). *Työterveyslääkäri [Occupational Health Physician]* 2012;2:16-19.
29. **Virtanen M**. Työn teettämisen muodot monimuotoistuvat (use of labour becomes more diverse, in Finnish). *Työterveyslääkäri [Occupational Health Physician]* 2012;1:44-45.
28. **Virtanen M**, Oksanen T. Miksi masennuslääkkeiden käyttö vähenee eläkkeelle siirtymisen jälkeen? (Why does the use of antidepressant medication decrease after retirement? in Finnish). *Työterveyslääkäri [Occupational Health Physician]* 2012;1:91-93.
27. **Virtanen M**, Kivimäki M, Vahtera J. Lama koettelee myös terveyttä (Economic crisis and health, in Finnish). *Työterveyslääkäri [Occupational Health Physician]* 2012;1:41-43.
26. Ervasti J, **Virtanen M**. Kouluympäristö hyvinvoinnin tekijänä (School environment as a determinant of well-being). In: T Oksanen (ed.), *Hyvinvointihavaintoja – tutkimustietoa kunta-alalta (Observations on well-being - research on municipal sector)*. Helsinki: Finnish Institute of Occupational Health, 2012;81-89.
25. **Virtanen M**, Ervasti J, Kivimäki M, Vahtera J. Voimavarat ja hyvinvointi (Resources and well-being). In: T Oksanen (ed.), *Hyvinvointihavaintoja – tutkimustietoa kunta-alalta*

- (Observations on well-being - research on municipal sector). Helsinki: Finnish Institute of Occupational Health, 2012;65-79.
24. Oksanen T, **Virtanen M**. Työyhteisön sosiaalinen pääoma (Social capital in the working community). In: T Oksanen (ed.), Hyvinvointihavaintoja – tutkimustietoa kunta-alalta (Observations on well-being - research on municipal sector). Helsinki: Finnish Institute of Occupational Health, 2012;55-63.
 23. Linna A, Elovainio M, **Virtanen M**, Kivimäki M. Oikeudenmukaiseksi koettu johtaminen. In: T Oksanen (ed.), Hyvinvointihavaintoja – tutkimustietoa kunta-alalta [Observations on well-being - research on municipal sector]. Helsinki: Finnish Institute of Occupational Health, 2012;45-53.
 22. Rossi H, **Virtanen M**, Tuisku K. Mitä välineitä käytän masennuksen tunnistamiseen työterveyshuollossa? [Which methods to use for the detection of depression in the OHS?]. Työterveyslääkäri [Occupational Health Physician] 2011;29:99-102.
 21. **Virtanen M**. Aikuisten lihavuuden hoidosta uusi suositus [New guideline for treatment of obesity in adulthood]. Työterveyslääkäri [Occupational Health Physician] 2011;29:49.
 20. **Virtanen M**. Mitä neuvoksi uusavuttomalle? [How to counsel a helpless person?]. Työterveyslääkäri [Occupational Health Physician] 2011;29:83.
 19. Tuisku K, **Virtanen M**, Saarinen P. Psykiatrin konsultaatio työterveyshuoltoon on kaikkien etu [Consultation by a psychiatrist in OHS benefits all]. Erikoislääkäri [Specialised Physician] 2011;1.
 18. Rossi H, Tuisku K, Joensuu M, Ahola K, Ropponen T, **Virtanen M**. Rohkaisevia kokemuksia masennuksen hoitosuosituksen jalkauttamisesta Järvenpäässä. [Encouraging experiences from an implementation of the new depression treatment guideline in Järvenpää town] Työterveyslääkäri [Occupational Health Physician] 2010;28:95-8.
 17. **Virtanen M**. Mistä tunnistaa hyvän epidemiologisen tutkimuksen? [How to recognise a good epidemiologic study?]. Työterveyslääkäri [Occupational Health Physician] 2010;28:70-71.
 16. **Virtanen M**. Hyväksymisen ja omistautumisen kautta psykologiseen joustavuuteen [Towards psychological resilience through acceptance and dedication]. Työterveyslääkäri [Occupational Health Physician] 2010;28:111-2.
 15. Tuisku K, Joensuu M, Ahola K, Ropponen T, Rossi H, **Virtanen M**. Hyvä masennuksen hoito työterveyshuollossa edellyttää yhteistyötä [Good treatment of depression in the OHS requires collaboration]. Suomen Lääkärilehti [Finnish Medical Journal] 2010;65:4068-9.
 14. **Virtanen M**, Vahtera J, Kivimäki M: Onko kaksisuuntainen yhteys masennuksen ja diabeteksen välillä ratkaisematon yhtälö? [Is a two-way association between depression and diabetes an unsolved equation?]. Työterveyslääkäri [Occupational Health Physician] 2010;28:77-80.
 13. **Virtanen M**. Tuula Oksanen väitös työterveyshuollon alalta: Työyhteisön sosiaalinen pääoma suojaa työntekijöiden terveyttä [Tuula Oksanen's thesis from occupational medicine: Social capital at work protects the health of employees]. Työterveyslääkäri [Occupational Health Physician] 2010;28:86-7.
 12. **Virtanen M**. Syy ja seuraus [Cause and effect]. Työterveyslääkäri [Occupational Health Physician] 2010;28:92

11. **Virtanen M.** Tanssijan työssä rakkaus tanssiin kantaa yli kivun [In the dancer's work love to dance carries over the pain]. *Työterveyslääkäri* [Occupational Health Physician] 2010;28:54-56.
10. **Virtanen M,** Rossi H, Tuisku K. Työterveyshoitajien kokemukset ja koulutustarpeet [Experiences and educational needs of occupational health nurses]. *Työterveyshoitaja* [Occupational Health Nurse] 2009.
9. **Virtanen M,** Terho K, Routamaa M. [Hospital infections are more common among patients treated in wards where the personnel has a high level of stress]. *Sairaalaviesti* [Hospital Message] 2009;1:22-23.
8. **Virtanen M.** Peruskäsitteitä: Epidemiologia, prevalenssi ja insidenssi [Basic concepts: epidemiology, prevalence and incidence]. *Työterveyslääkäri* [Occupational Health Physician] 2009;27:86.
7. Elovainio M, Vahtera J, **Virtanen M,** Kivimäki M. Reilu organisaatio ja henkilöstön terveys [Fair treatment and the health of employees]. *Työterveyslääkäri* [Occupational Health Physician] 2006;24:2-4.
6. **Virtanen M.** Mielenterveys ja pätkätyöt [Mental health and temporary employment]. *Työterveyslääkäri* [Occupational Health Physician] 2005;23:314-315.
5. Kivimäki M, Elovainio M, Vahtera J, **Virtanen M.** Oikeudenmukainen johtaminen tukee terveyttä [Organizational justice supports employee health]. *Työterveiset* [Health Regards] 2002;1:12-3.
4. **Virtanen M,** Kivimäki M, Elovainio M, Vahtera J. Määräaikaisten terveys ja sairauspoissaolot sairaaloissa [Health and sickness absence among temporary hospital employees]. In: J. Vahtera, M. Kivimäki, P. Virtanen (Eds.), *Työntekijöiden hyvinvointi kunnissa ja sairaaloissa. Tutkittua tietoa ja haasteita* [Well-being of employees in the municipalities and hospitals]. Research and challenges (pp.59-60). Helsinki: Työterveyslaitos (Finnish Institute of Occupational Health), 2002.
3. **Virtanen M,** Kivimäki M, Elovainio M, Vahtera J. Vakinaiseen palvelukseen - tyytyväinen ja terve työntekijä [Permanent employment for a healthy and satisfied employee]. In J. Vahtera, M. Kivimäki, P. Virtanen (Eds.), *Työntekijöiden hyvinvointi kunnissa ja sairaaloissa. Tutkittua tietoa ja haasteita* [Well-being of employees in the municipalities and hospitals: evidence and challenges] (pp.64-65). Helsinki: Työterveyslaitos (Finnish Institute of Occupational Health), 2002.
2. **Virtanen M,** Kivimäki M, Virtanen P, Elovainio M, Vahtera J. Koulutus väylänä ydintyövoimaan [Education leads to the core workforce]. In J. Vahtera, M. Kivimäki, P. Virtanen (Eds.), *Työntekijöiden hyvinvointi kunnissa ja sairaaloissa. Tutkittua tietoa ja haasteita* [Well-being of employees in the municipalities and hospitals. Research and challenges] (pp.65-66). Helsinki: Työterveyslaitos (Finnish Institute of Occupational Health), 2002.
1. Kivimäki M, **Virtanen M,** Elovainio M, Vahtera, J. Organisaation rakennemuutos ja työntekijän terveys [Organizational change and health of employees]. In: K Lindström, A Leppänen (Eds.), *Työyhteisön terveys ja hyvinvointi* [Health and well-being in the working communities] (pp. 308-320). Helsinki: Työterveyslaitos (Finnish Institute of Occupational Health), 2002.

E) Publications intended for the general public

Ahola K, Joensuu M, **Virtanen M**. 2012. Jokainen todella syrjäytynyt nuori on suuri menetys [Each marginalised young person is a huge loss]. Helsingin Sanomat 17 Dec 2014.
<https://www.hs.fi/mielipide/art-2000002785949.html>

F) Public artistic and design activities

-

G) Theses**Master's thesis**

Virtanen M. Määräaikainen työsuhde, työtyytyväisyys ja terveys (Temporary employment, job satisfaction and health). Department of Psychology, University of Helsinki, 1999.

Doctoral thesis 1

Virtanen, M. Temporary employment and health. People and work research reports 61. Helsinki: Finnish Institute of Occupational Health, 2003.

Doctoral thesis 2

Virtanen M. Long working hours and health in office workers: a cohort study of coronary heart disease, type 2 diabetes, depression and sleep disturbances. Department of Epidemiology and Public Health, University College London, UK, 2012.

H) Patents and invention disclosures

-

I) Audiovisual material, ITC software

Keynote: *Psychosocial burden to health: New global epidemic of modern work life* in the International Conference on Occupational Health (ICOH) Opening Ceremony, Seoul, South Korea, 2015 [video highlights]

<https://www.youtube.com/watch?v=x2zYm5GXX-g>

Video abstract of the article: Virtanen M, Nyberg ST, Batty GD, et al. *Perceived job insecurity as a risk factor for incident coronary heart disease: systematic review and meta-analysis*. BMJ 2013;347:f4746

<http://www.bmj.com/content/347/bmj.f4746.long>