



AGING RESEARCH CENTER (ARC)  
KAROLINSKA INSTITUTET & STOCKHOLM UNIVERSITY  
GÄVLEGATAN 16 SE-113 30 STOCKHOLM SWEDEN

## ARC publications

2011



**Karolinska  
Institutet**



**Stockholm  
University**

## ORIGINAL ARTICLES

### A. Longevity, morbidity and functioning

1. Agahi N, Silverstein M, Parker MG. Late-life and earlier participation in leisure activities: their importance for survival among older persons. *Act Adapt Aging* 2011; 35(3):210-222.
2. Khanam MA, Qiu C, Lindeboom W, Streatfield PK, Kabir ZN, Wahlin Å. The metabolic syndrome: prevalence, associated factors, and impact on survival among the elderly in rural Bangladesh. *PLoS One* 2011; 6(6):e20259.
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4. Marengoni A, Angleman S, Fratiglioni L. Prevalence of disability according to multimorbidity and disease clustering: a population-based study. *J Comorbidity* 2011; 1:11–18.
5. Marengoni A, Fratiglioni L. Disease clusters in older adults: rationale and need for investigation. *J Am Geriatr Soc* (Letter) 2011; 59(12):2395-2396.
6. Shaw BA, Agahi N, Krause N. Are changes in financial strain associated with changes in alcohol use and smoking among older adults? *J Stud Alcohol Drugs* 2011; 72(6):917-925.
7. Sommerfeld DK, Welmer AK, Widén Holmqvist L, von Arbin M. Changes in functioning between days 5 and 10 after stroke in elderly. *Phys Occup Ther Geriatr* 2011; 29(2):77-89.
8. Yang ZY, Yang Z, Zhu L, Qiu C. Human behaviors determine health: strategic thoughts on the prevention of chronic non-communicable diseases in China. *Int J Behav Med* 2011; 18(4):295-301.

### B. Treatment and care of elderly persons

9. Borg M, Johansson B, Lundborg M, Fastbom J. [Model Halland. Structured working method for reviewing elderly's medications]. *Lakartidningen* 2011; 108(11):606-608.
10. Haasum Y, Fastbom J, Fratiglioni L, Kåreholt I, Johnell K. Pain treatment in elderly persons with and without dementia: a population-based study of institutionalized and home-dwelling elderly. *Drugs Aging* 2011; 28(4):283-293.
11. Jedenius E, Johnell K, Fastbom J, Strömquist J, Winblad B, Andreasen N. Dementia management programme in a community setting and the use of psychotropic drugs in the elderly population. *Scand J Prim Health Care* 2011; 29(3):181-186.
12. Johansson L, Long H, Parker MG. Informal caregiving for elders in Sweden: an analysis of current policy developments. *J Aging Soc Policy* 2011; 23(4):335-353.
13. Johnell K, Fastbom J. Antiepileptic drug use in community-dwelling and institutionalized elderly: a nationwide study of over 1 300 000 older people. *Eur J Clin Pharmacol* 2011; 67(10):1069-1075.
14. Johnell K, Fastbom J. Gender and use of hypnotics or sedatives in old age: a nationwide register-based study. *Int J Clin Pharm* 2011; 33(5):788-793.
15. Johnell K, Fischer H. Dopaminergic and serotonergic drug use: a nationwide register-based study of over 1 300 000 older people. *PLoS One* 2011; 6(8):e23750.

16. Meinow B, Parker MG, Thorslund M. Consumers of eldercare in Sweden: the semblance of choice. *Soc Sci Med* 2011; 73(9):1285-1289.
17. Sjöberg C, Edward C, Fastbom J, Johnell K, Landahl S, Narbro K, et al. Association between multi-dose drug dispensing and quality of drug treatment - a register-based study. *PLoS One* 2011; 6(10):e26574.
18. Sundström G, Herlofson K, Daatland SO, Boll Hansen E, Johansson L, Malmberg B, et al. Diversification of old-age care services for older people: trade-offs between coverage, diversification and targeting in European countries. *J Care Serv Manag* 2011; 5(1):35-42.
19. Wimo A, Sjölund BM, Sköldunger A, Johansson L, Nordberg G, von Strauss E. Incremental patterns in the amount of informal and formal care among non-demented and demented elderly persons: results from a 3-year follow-up population-based study. *Int J Geriatr Psychiatry* 2011; 26(1):56-64.

### C. Health trends and inequality

20. Ahacic K, Damström K, Kåreholt I. Recurring alcohol-related care between 1998 and 2007 among people treated for an alcohol-related disorder in 1997: a register study in Stockholm County. *BMC Public Health* 2011; 11:574.
21. Fors S, Lennartsson C, Lundberg O. Live long and prosper? Childhood living conditions, marital status, social class in adulthood and mortality during mid-life: a cohort study. *Scand J Public Health* 2011; 39(2):179-186.
22. Fors S, Modin B, Koupil I, Vågerö D. Socioeconomic inequalities in circulatory and all-cause mortality after retirement - the impact of mid-life income and old age pension: evidence from the Uppsala Birth Cohort Study. *J Epidemiol Community Health* 2011; 66(7):e16.
23. Lennartsson C. Need and support: determinants of intra-familial financial transfers in Sweden. *Int J Soc Welf* 2011; 20(1):66-74.
24. Lovén J, Herlitz A, Rehnman J. Women's own-gender bias in face recognition memory: the role of attention at encoding. *Exp Psychol* 2011; 58(4):333-340.
25. Schön P, Parker MG, Kåreholt I, Thorslund M. Gender differences in associations between ADL and other health indicators in 1992 and 2002. *Aging Clin Exp Res* 2011; 23(2):91-8.
26. Trygged S, Ahacic K, Kåreholt I. Income and education as predictors of return to working life among younger stroke patients. *BMC Public Health* 2011; 11:742.
27. Trygged S, Hedlund E, Kåreholt I. Education and post-stroke separation among couples with mutual children. *J Divorce Remarriage* 2011; 52(6):401-414.

### D. Brain aging

28. Andel R, Crowe M, Kåreholt I, Wastesson J, Parker MG. Indicators of job strain at midlife and cognitive functioning in advanced old age. *J Gerontol B Psychol Sci Soc Sci* 2011; 66B(3):287-291.
29. Bellander M, Brehmer Y, Westerberg H, Karlsson S, Fürth D, Bergman O, et al. Preliminary evidence that allelic variation in the LMX1A gene influences training-related working memory improvement. *Neuropsychologia* 2011; 49(7):1938-1942.

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31. Brose A, Schmiedek F, Lövdén M, Lindenberger U. Normal aging dampens the link between intrusive thoughts and negative affect in reaction to daily stressors. *Psychol Aging* 2011; 26(2):488-502.
32. Burzynska A, Nagel IE, Preuschhoff C, Li S-C, Lindenberger U, Bäckman L, et al. Microstructure of frontoparietal connections predicts cortical responsivity and working memory performance. *Cereb Cortex* 2011; 21(10):2261-2271.
33. Bäckman L, Karlsson S, Fischer H, Karlsson P, Brehmer Y, Rieckmann A, MacDonald SW, Farde L, Nyberg L. Dopamine D1 receptors and age differences in brain activation during working memory. *Neurobiol Aging* 2011; 32(10):1849-1856.
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35. Caracciolo B, Bäckman L, Monastero R, Winblad B, Fratiglioni L. The symptom of low mood in the prodromal stage of mild cognitive impairment and dementia: a cohort study of community-dwelling elderly. *J Neurol Neurosurg Psychiatry* 2011; 82(7):788-793.
36. Eskelinen M, Ngandu T, Tuomilehto J, Soininen H, Kivipelto M. Midlife healthy-diet index and late-life dementia and Alzheimer's disease. *Dement Geriatr Cogn Dis Extra* 2011; 1(1):103-112.
37. Gonneaud J, Kalpouzos G, Bon L, Viader F, Eustache F, Desgranges B. Distinct and shared cognitive functions mediate event- and time-based prospective memory impairment in normal ageing. *Memory* 2011; 19(4):360-377.
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39. Howner K, Fischer H, Dierks T, Federspiel A, Wahlund LO, Jonsson T, et al. Brain processing of fearful facial expression in mentally disordered offenders. *Behav Brain Sci* 2011; 1(3):115-123.
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41. Keller L, Xu W, Wang HX, Winblad B, Fratiglioni L, Graff C. The obesity related gene, FTO, interacts with APOE, and is associated with Alzheimer's disease risk: A prospective cohort study. *J Alzheimers Dis* 2011; 23(3):461-469.
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48. MacDonald SW, Karlsson S, Fratiglioni L, Bäckman L. Trajectories of cognitive decline following dementia onset: what accounts for variation in progression? *Dement Geriatr Cognit* 2011; 31:202-209.
49. Marengoni A, Fratiglioni L, Bandinelli S, Ferrucci L. Socioeconomic status during lifetime and cognitive impairment no-dementia in late life: the population-based aging in the Chianti Area (InCHIANTI) Study. *J Alzheimers Dis* 2011; 24(3):559-568.
50. Marengoni A, Qiu C, Winblad B, Fratiglioni L. Atrial fibrillation, stroke and dementia in the very old: a population-based study. *Neurobiol Aging* 2011; 32:1336-1337.
51. Melis RJ, Angleman SB, Fratiglioni L. Development and validation of a composite score as an easy-to-use instrument for clinical monitoring of dementia progression: the Composite Cognitive and Activities of Daily Living Functioning Score. *J Am Geriatr Soc* 2011; 59(6):1154-1155.
52. Mårtensson J, Lövdén M. Do intensive studies of a foreign language improve associative memory performance? *Front Psychol* 2011; 2(12):1-6.
53. Nagel IE, Preuschhof C, Li SC, Nyberg L, Bäckman L, Lindenberger U, et al. Load modulation of BOLD response and connectivity predicts working-memory performance in younger and older adults. *J Cogn Neurosci* 2011; 23(8):2030-2045.
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56. Papenberg G, Bäckman L, Chicherio C, Nagel I E, Heekeren H R, Lindenberger U, et al. Higher intraindividual variability is associated with more forgetting and dedifferentiated memory systems in old age. *Neuropsychologia* 2011; 49(7):1879-1888.
57. Persson J, Kalpouzos G, Nilsson LG, Ryberg M, Nyberg L. Preserved hippocampus activation in normal aging as revealed by fMRI. *Hippocampus* 2011; 21(7):753-756.
58. Qi X, Sun J, Wang J, Xu Z, Murphy M, Jia J, et al. Prevalence and correlates of latent autoimmune diabetes in adults in Tianjin, China: a population based cross-sectional study. *Diabetes Care* 2011; 34(1):66-70.
59. Qiu C, Hu G, Kivipelto M, Laatikainen T, Antikainen R, Fratiglioni L, et al. Association of blood pressure and hypertension with the risk of Parkinson's disease: the National FINRISK Study. *Hypertension* 2011; 57(6):1094-1100.
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63. Solomon A, Dobranici L, Kåreholt I, Tudose C, Lăzărescu M. Comorbidity and the rate of cognitive decline in patients with Alzheimer dementia. *Int J Geriatr Psychiatry* 2011; 26(12):1244-1251.
64. Thorvaldsson V, MacDonald SW, Fratiglioni L, Winblad B, Kivipelto M, Laukka EJ, et al. Onset and rate of cognitive change before dementia diagnosis: findings from two Swedish population-based longitudinal studies. *J Int Neuropsychol Soc* 2011; 17(1):154-162.
65. Vuorinen M, Solomon A, Rovio S, Nieminen L, Kåreholt I, Tuomilehto J, et al. Changes in vascular risk factors from midlife to late life and white matter lesions: a 20-year follow-up study. *Dement Geriatr Cogn Disord* 2011; 31(2):119-125.
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## REVIEW ARTICLES

### A. Longevity, morbidity and functioning

68. Marengoni A, Angleman S, Melis R, Mangialasche F, Karp A, Garmen A, et al. Aging with multimorbidity: a systematic review of the literature. *Ageing Res Rev* 2011; 10(4):430-439.

### D. Brain aging

69. Aarsland D, Rongve A, Fladby T, Testad I, Kivipelto M, Winblad B. [New diagnostic criteria for Alzheimer disease]. *Tidsskr Nor Laegeforen* 2011; 131(22):2224-2225.
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71. Brodaty H, Breteler M, DeKosky ST, Dorenlot P, Fratiglioni L, Hock C, et al. The world of dementia beyond 2020. *J Am Geriatr Soc* 2011; 59(5):923-927.
72. Fratiglioni L, Qiu C. Prevention of cognitive decline in ageing: dementia as the target, delayed onset as the goal. *Lancet Neurol* 2011; 10(9):778-779.
73. Fratiglioni L, Wang R, Xu W, Qiu C. Life-course epidemiology in dementia-state of the art. *J Nutr Health Aging* 2011; 15:564-565.
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75. Qiu C, Kivipelto M, Fratiglioni L. Preventing Alzheimer disease and cognitive decline. *Ann Intern Med* 2011; 154(3):211. (Comments and Responses)
76. Qiu C. Epidemiological findings of vascular risk factors in Alzheimer's disease: implications for therapeutic and preventive intervention. *Expert Rev Neurother* 2011; 11(11):1593-1607.
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## **BOOK CHAPTERS**

### **B. Treatment and care of elderly persons**

79. Fastbom J. Läkemedel och åldrande. In: Wahlund L-O, Nilsson C, Wallin A, editors. *Kognitiv medicin*. Stockholm: Norstedts; 2011. p.390-396.
80. Johnell K, Parker MG. Gender differences in medication use by elderly people. In: Månsson SB, editor. *From women's health to gender medicine*. Sweden: The Swedish Council for Working Life and Social Research; 2011. p.37-49.
81. Trydegård G-B, Thorslund M. One uniform welfare state or a multitude of welfare municipalities? The evolution of local variation in Swedish elder care. In: Costa-Font J, editor. *Reforming long-term care in Europe*. Chichester: Wiley-Blackwell; 2011. p.137-152.

### **D. Brain aging**

82. Nyberg L, Bäckman L. Memory changes and the aging brain: a multimodal imaging approach. In: Schaie KW, Willis SL, editors. *Handbook of the psychology of aging*. 7th ed. London: Elsevier Press; 2011. p.121-131.
83. Qiu C, Fratiglioni L. Epidemiology of the dementias. In: McNamara P, editor. *Dementia: Volume I: History and incidence*. Santa Barbara: Praeger; 2011. p.1-33.

## **REPORTS**

### **B. Treatment and care of elderly persons**

84. Karp A, Ebrahimi R, Marengoni A, Fratiglioni L. Informal care and voluntary assistance; a systematic literature review of quantitative and qualitative aspects of assistance to elderly persons in Sweden, Italy, the United Kingdom and Canada. Stockholm: Social Council; 2011.

85. Kvaliteten i äldres läkemedelsanvändning – Läkarens roll. Stockholm: Socialstyrelsen [Swedish National Board of Health and Welfare]; 2011.
86. Meinow B, Wånell SE. Korttidsplats-vårdform som söker sitt innehåll [Short-term care after hospitalization- a randomized controlled trial and a systematic review of short term care in Sweden]. Stockholm: Stockholm Gerontology Research Center; 2011:6.
87. Wånell SE, Meinow B, Höjgård U. De mest sjuka äldres vård och omsorg - en beskrivning utifrån nationella indikatorer [Care and services for the most frail elderly people - a description based on national indicators]. Stockholm: Socialstyrelsen [Swedish National Board of Health and Welfare]; 2011.

### **C. Health trends and inequality**

88. Lennartsson C, Agahi N, Wånell SE. Hälsa och levnadsvanor - bland äldre personer i Stockholms län. [Health and lifestyle among elderly people] Stockholm: Stockholms läns landsting; 2011.

### **D. Brain aging**

89. Ekman S-L, Eriksson Jönhagen M, Fratiglioni L, Graff C, Jansson W, Kivipelto M, et al. Alzheimer. Stockholm: Karolinska Institutet University Press; 2011.

## **DOCTORAL DISSERTATIONS**

### **C. Health trends and inequality**

90. Schön P. Gender matters. Differences and change in disability and health among our oldest women and men [PhD Thesis]. Stockholm: Department of Social Work, Stockholm University; 2011.

### **D. Brain aging**

91. Caracciolo B. Cognitive impairment in the nondemented elderly. Occurrence, risk factors, progression [PhD Thesis]. Stockholm: Karolinska Institutet; 2011.
92. Rieckmann A. Human aging, dopamine, and cognition: molecular and functional imaging of executive functions and implicit learning [PhD Thesis]. Stockholm: Karolinska Institutet; 2011.