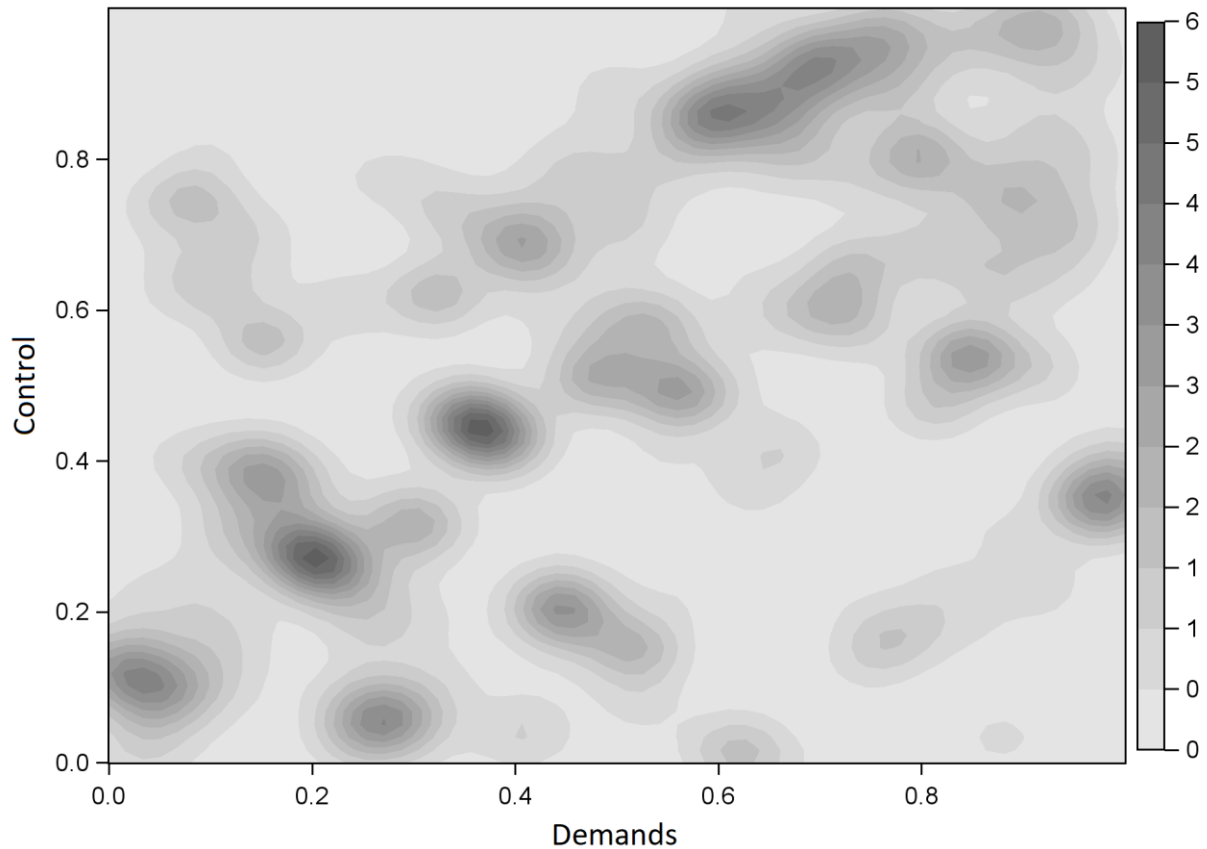


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**Supplementary material.**

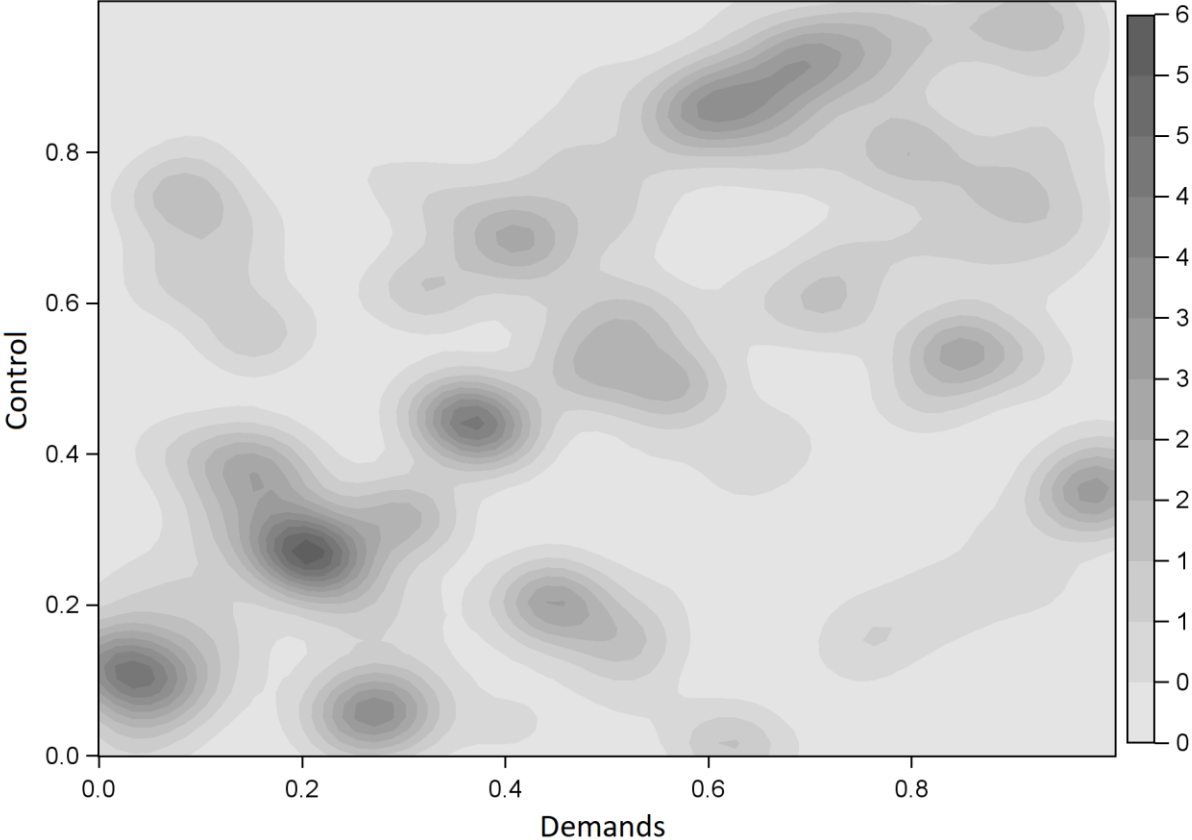
**Supplementary Figure 1. Kernel density plots over Job Exposure Matrix values of individuals for job demands and job control stratified by age group in 2001.**

a) 55-59



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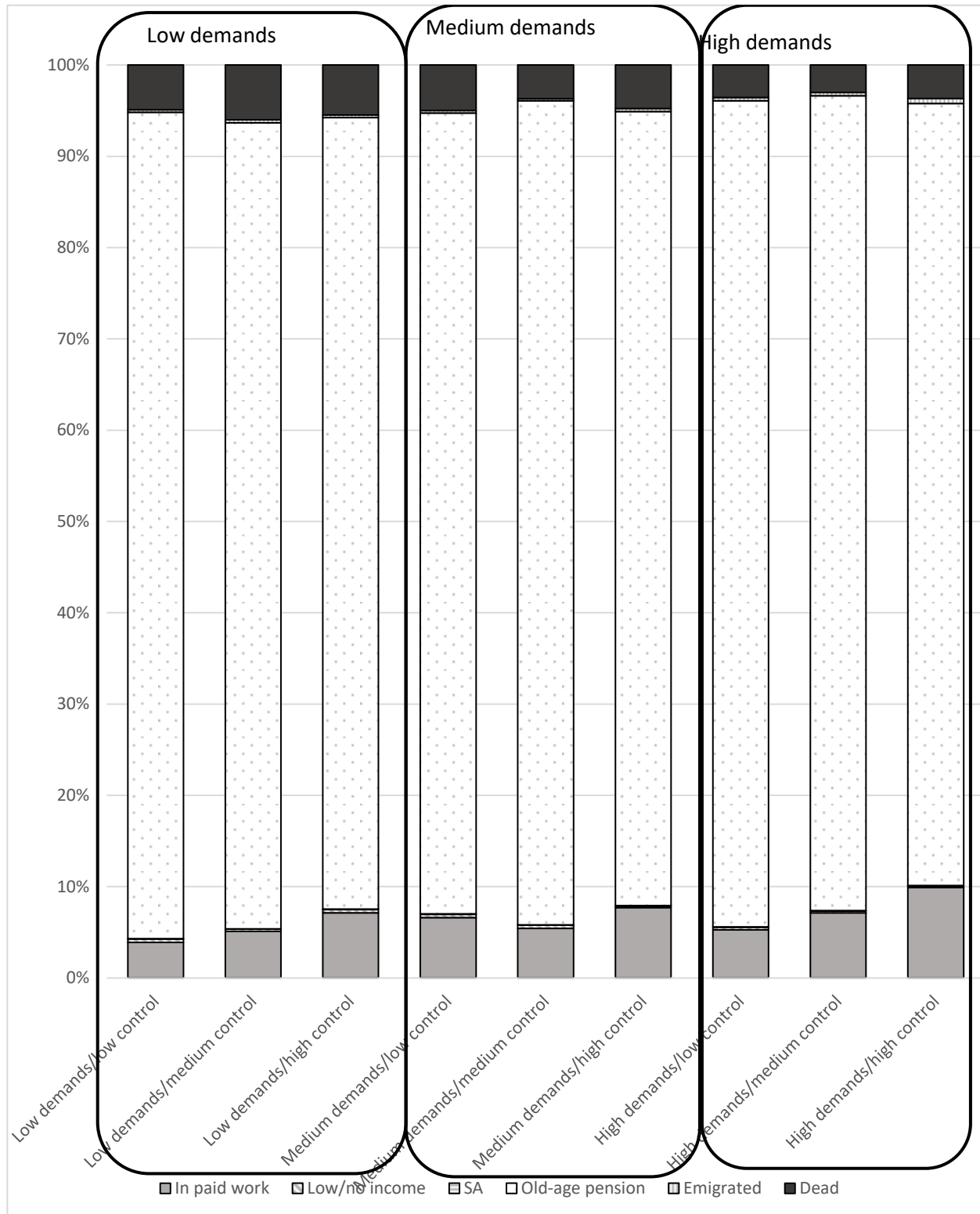
b) 60-64



Farrants K, Head J, Framke E, Rugulies R, Alexanderson K. *Associations between combinations of job demands and job control among 616,818 people aged 55-64 in paid work with their labour market status 11 years later: a prospective cohort study*. Supplementary material.

**Supplementary Figure 2. Labour market status in 2012 by job demands and job control in 2001 among all in paid work in Sweden in 2001 by age group in 2001.**

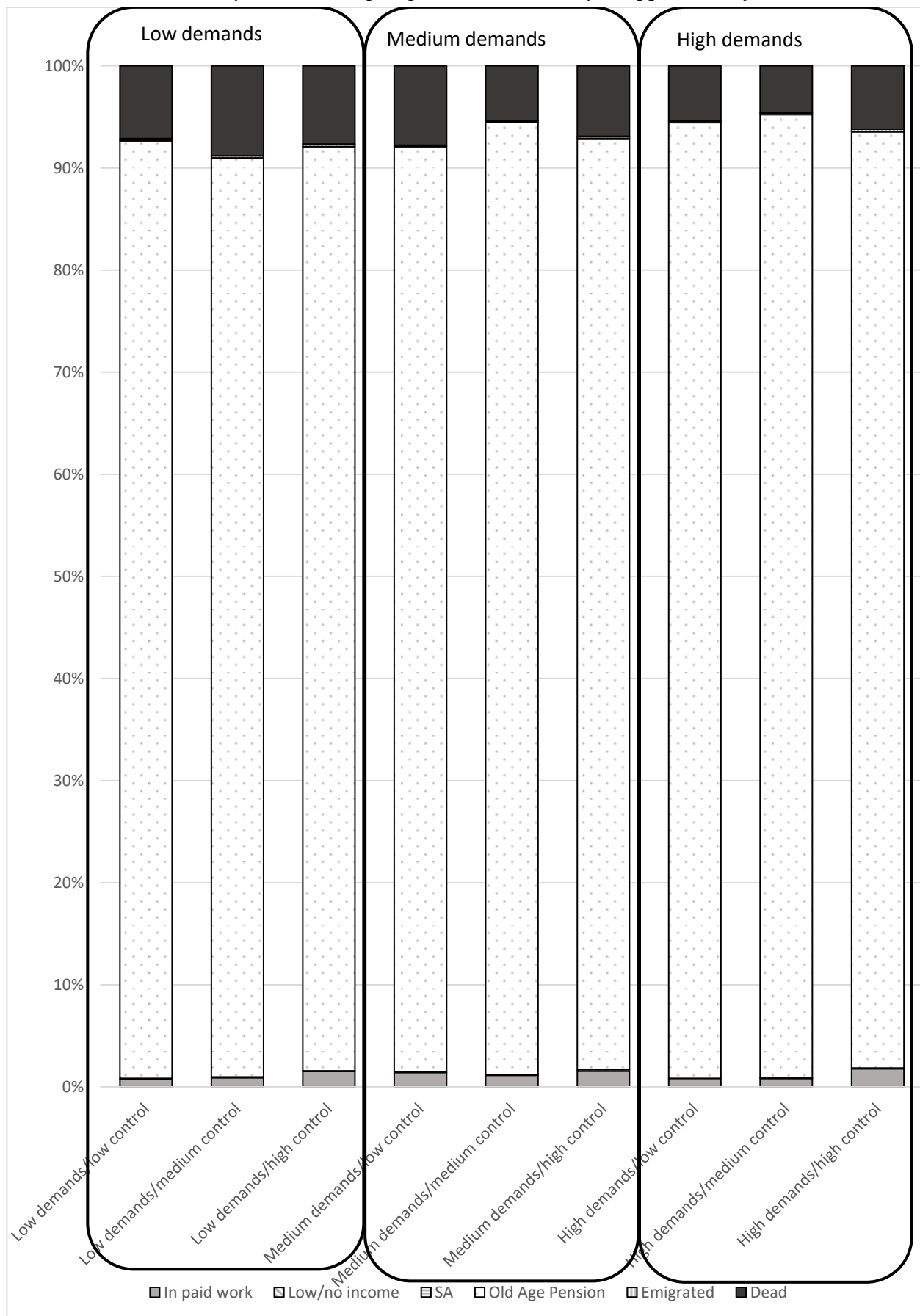
**a). 55-59**



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**b.) 60-64**

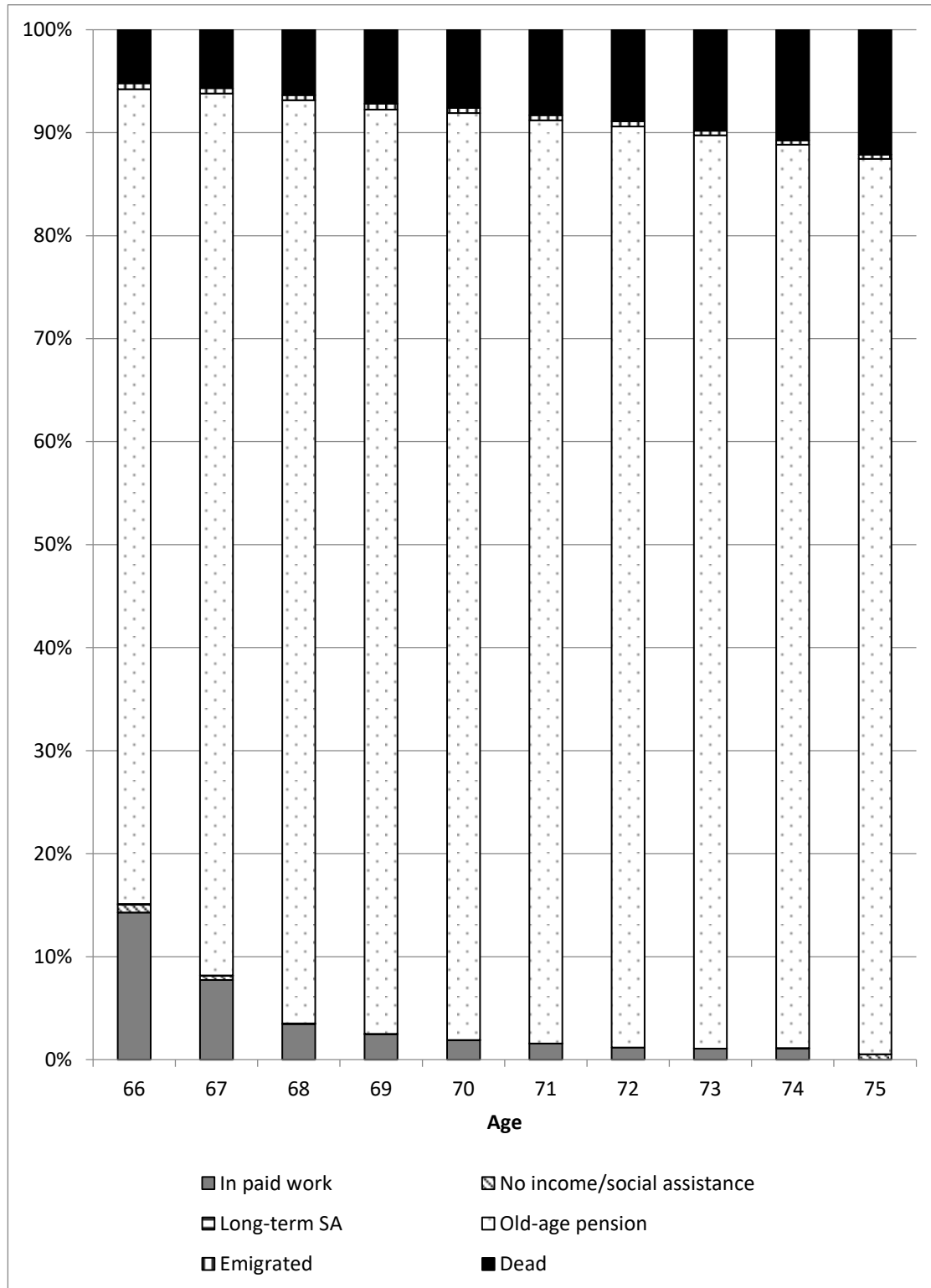
Farrants K, Head J, Framke E, Rugulies R, Alexanderson K. *Associations between combinations of job demands and job control among 616,818 people aged 55-64 in paid work with their labour market status 11 years later: a prospective cohort study.* Supplementary material.



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**Supplementary Figure 3. Labour market status in 2012 by age in 2012 among all in paid work in Sweden in 2001.**

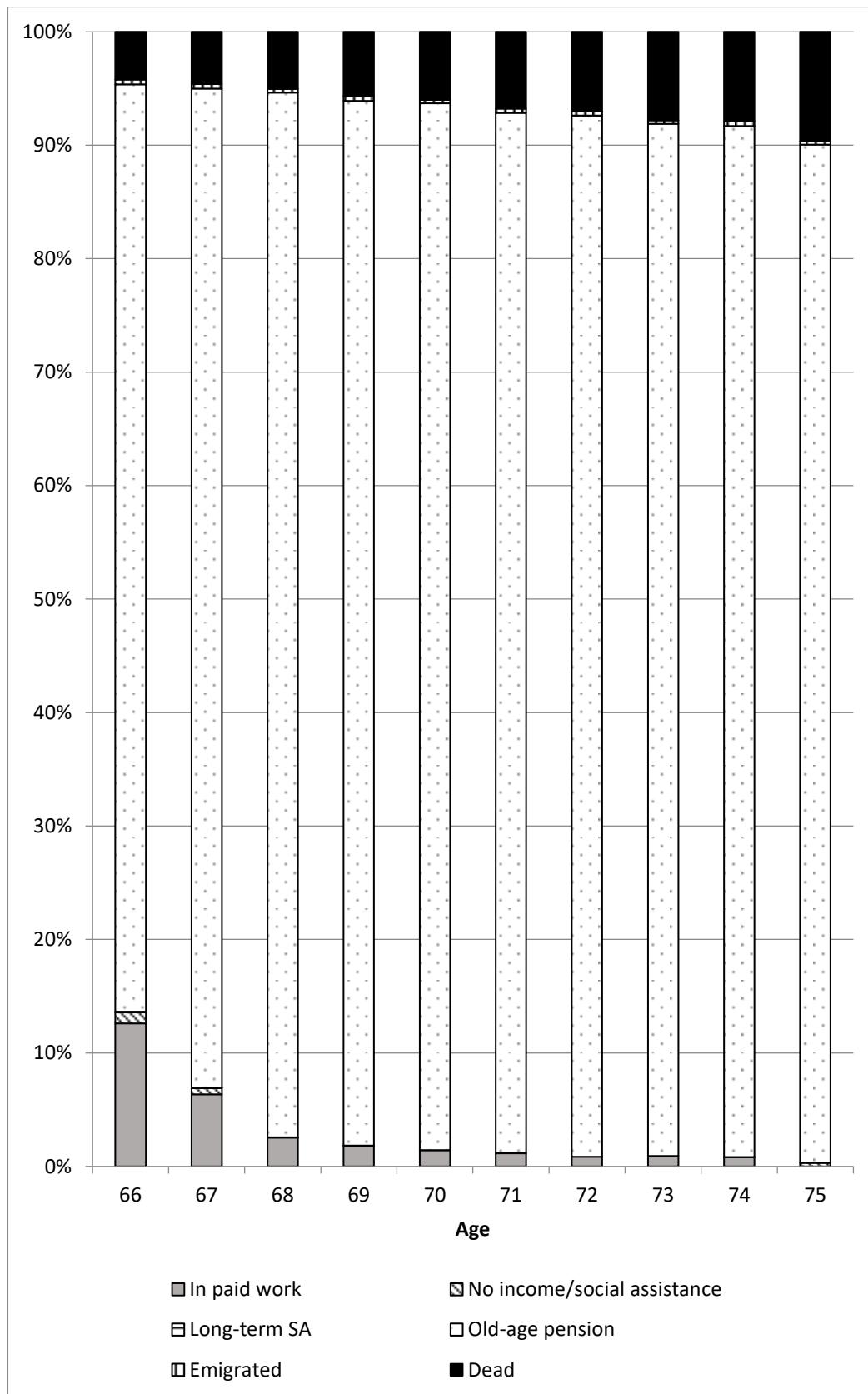
a) All



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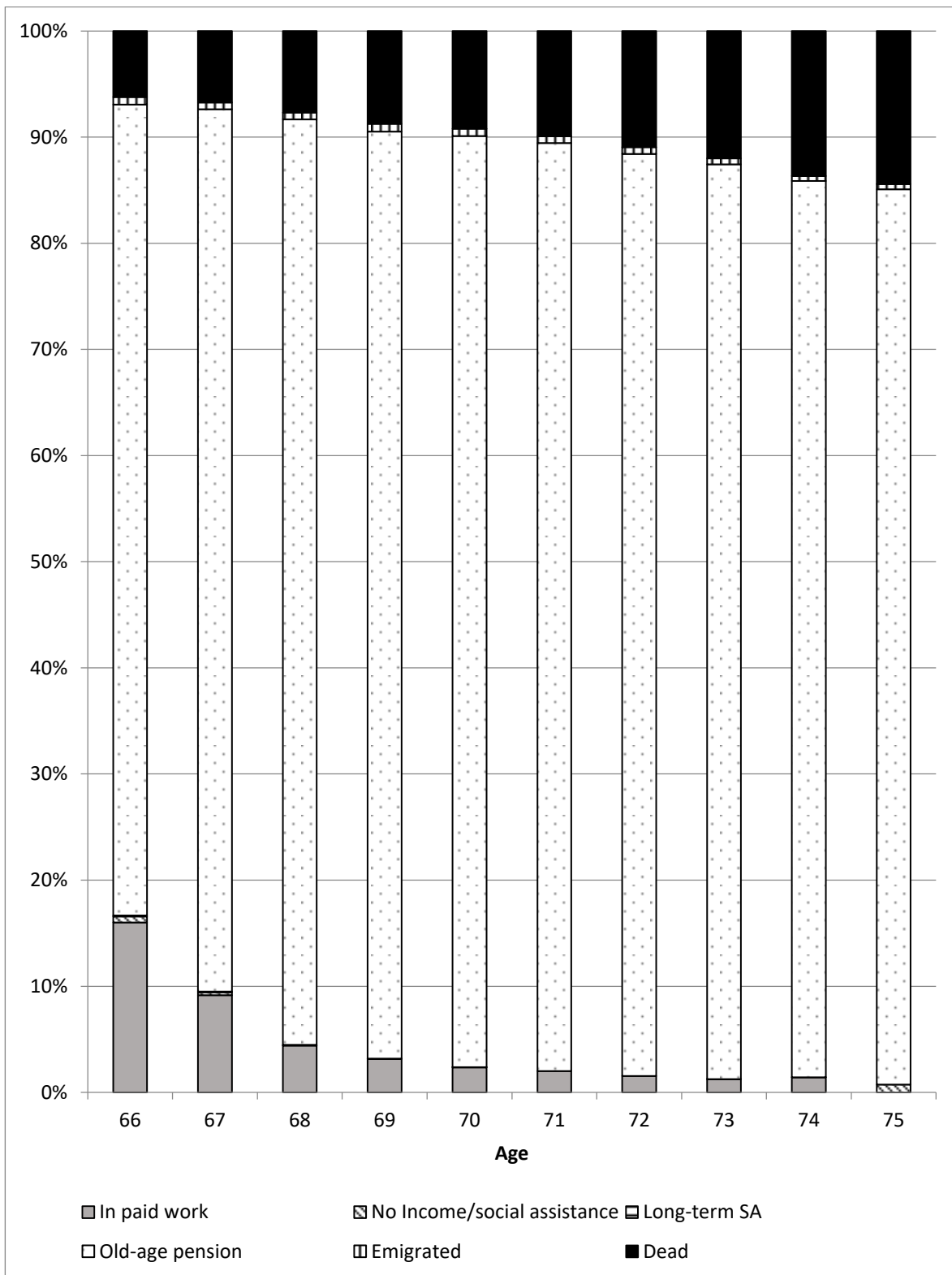
b) women





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c) men



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**Supplementary table 1. Questions used to measure demands and control in the Job**

**Exposure Matrix**

Demands:
<ul style="list-style-type: none"> <li>• Is it at times so stressful that you don't have time to talk or even think about anything other than work?</li> </ul>
<ul style="list-style-type: none"> <li>• Do you sometimes have so much to do that you have to skip lunches, work overtime, or bring your work home?</li> </ul>
<ul style="list-style-type: none"> <li>• Does your work demand all your attention and concentration?</li> </ul>
<ul style="list-style-type: none"> <li>• To what degree of your working time do you have such difficult tasks that you need help?</li> </ul>
Control:
<ul style="list-style-type: none"> <li>• Are you partly able to determine yourself when different tasks are to be done (e.g. by choosing to work a little faster some days and a bit easier other days?)</li> </ul>
<ul style="list-style-type: none"> <li>• Do you have the possibility to determine your own pace at work?</li> </ul>
<ul style="list-style-type: none"> <li>• Are you able to take short breaks essentially any time to talk?</li> </ul>
<ul style="list-style-type: none"> <li>• Are you ever part of deciding your working arrangements (e.g. what shall be done, how it shall be done, or who shall work with you)?</li> </ul>
<ul style="list-style-type: none"> <li>• Does your work sometimes require you to repeat the same work task several times an hour?</li> </ul>

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**Supplementary table 2: Odds ratios (OR) and 95 % confidence intervals (CI) of labour market status (reference group=old age pension, total=537 882, women=280 631, men=257 251) in 2012 by combinations of job demands/control (reference group=medium demands/medium control) in 2001 among 616 818 individuals (313 100 women and 303 718 men) aged 55-59 and 60-64 in 2001 with income from work\***

	<i>In paid work</i>		<i>No income/social assistance</i>		<i>Sickness absence/disability pension</i>		<i>Emigrated</i>		<i>Dead</i>	
	55-59	60-64	55-59	60-64	55-59	60-64	55-59	60-64	55-59	60-64
Low demands/ low control	0.75 (0.71-0.79)	0.69 (0.58-0.81)	1.10 (0.91-1.32)	0.54 (0.28-1.06)	0.70 (0.37-1.32)	None	0.98 (0.78-1.22)	1.27 (0.84-1.93)	1.13 (1.07-1.20)	1.20 (1.12-1.28)
Low demands/ medium control	0.81 (0.76-0.85)	0.61 (0.49-0.76)	0.99 (0.74-1.31)	0.49 (0.20-1.19)	1.00 (0.49-2.01)	None	0.84 (0.64-1.10)	1.08 (0.64-1.83)	1.04 (0.97-1.12)	1.06 (0.97-1.16)
Low demands/ high control	1.11 (1.03-1.19)	1.09 (0.87-1.37)	1.22 (0.90-1.65)	0.38 (0.11-1.35)	1.12 (0.48-2.66)	None	0.72 (0.50-1.03)	1.26 (0.70-2.27)	1.11 (1.02-1.21)	1.04 (0.94-1.16)
Medium demands/ low control	1.16 (1.10-1.24)	1.09 (0.91-1.32)	1.26 (1.00-1.59)	0.52 (0.21-1.28)	1.49 (0.78-2.85)	None	0.90 (0.68-1.19)	0.78 (0.44-1.40)	1.05 (0.98-1.13)	1.15 (1.05-1.25)
Medium demands/medium control	1	1	1	1	1	None	1	1	1	1
Medium demands/ high control	1.21 (1.06-1.18)	1.05 (0.88-1.25)	0.72 (0.55-0.94)	1.43 (0.73-2.78)	0.89 (0.45-1.76)	None	1.00 (0.78-1.29)	1.23 (0.76-2.00)	0.99 (0.93-1.06)	0.96 (0.89-1.05)
High demands/ low control	0.82 (0.76-0.88)	0.68 (0.51-0.89)	0.77 (0.57-1.05)	None	1.26 (0.56-2.78)	None	1.16 (0.86-1.57)	0.83 (0.42-1.63)	0.95 (0.87-1.04)	0.98 (0.87-1.01)
High demands/ medium control	0.96 (0.90-1.01)	0.67 (0.54-0.83)	0.54 (0.41-0.70)	0.31 (0.11-0.88)	0.91 (0.46-1.81)	None	1.18 (0.92-1.50)	0.79 (0.47-1.31)	0.90 (0.84-0.97)	0.92 (0.83-1.01)
High demands/ high control	1.28 (1.22-1.34)	1.17 (0.99-1.37)	0.58 (0.45-0.74)	0.65 (0.32-1.35)	0.88 (0.47-1.64)	None	1.51 (1.22-1.88)	1.72 (0.75-1.84)	0.88 (0.83-0.94)	0.97 (0.90-1.05)

\*Adjusted for age group, birth country, type of living area, family situation, educational level, labour market status in 2001

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**Supplementary table 3. Odds ratios (OR) and 95 % confidence intervals (CI) of labour market status (reference group=old-age pension, total=537 882, women=280 631, men=257 251) in 2012 by job demands (reference group=medium demands) and control (reference group=medium control) in 2001, among 616 818 individuals (313 100 women and 303 718 men) aged 55-64 in 2001 with an income from work, crude and adjusted\***

	<i>In paid work (n=29 210)</i>		<i>No income/social assistance (n=1258)</i>		<i>Sickness absence/disability pension (n=162)</i>		<i>Emigrated (n=3133)</i>		<i>Dead (n=45 173)</i>	
	Crude OR (95% CI)	Adjusted OR (95% CI)	Crude OR (95% CI)	Adjusted OR (95% CI)	Crude OR (95% CI)	Adjusted OR (95% CI)	Crude OR (95% CI)	Adjusted OR (95% CI)	Crude OR (95% CI)	Adjusted OR (95% CI)
<i>Total</i>										
Low demands	0.68 (0.66-0.70)	0.79 (0.76-0.82)	1.03 (0.91-1.17)	0.96 (0.83-1.10)	0.73 (0.49-1.08)	0.74 (0.49-1.13)	1.07 (0.97-1.17)	1.01 (0.88-1.15)	1.19 (1.17-1.22)	1.07 (1.04-1.10)
Medium demands	1	1	1	1	1	1	1	1	1	1
High demands	1.29 (1.26-1.33)	0.99 (0.96-1.02)	0.64 (0.56-0.75)	0.60 (0.51-0.70)	0.98 (0.68-1.40)	0.90 (0.61-1.34)	1.63 (1.50-1.78)	1.29 (1.14-1.46)	0.81 (0.79-0.83)	0.92 (0.89-0.95)
Low control	0.79 (0.76-0.81)	1.00 (0.97-1.04)	1.20 (1.06-1.37)	1.16 (1.01-1.35)	0.92 (0.62-1.35)	1.09 (0.72-1.64)	0.99 (0.90-1.08)	1.07 (0.94-1.23)	1.19 (1.16-1.21)	1.09 (1.06-1.12)
Medium control	1	1	1	1	1	1	1	1	1	1
High control	1.56 (1.51-1.60)	1.26 (1.22-1.30)	0.81 (0.70-0.93)	1.01 (0.87-1.18)	1.17 (0.81-1.69)	0.88 (0.59-1.32)	1.55 (1.42-1.68)	1.20 (1.06-1.36)	1.10 (1.08-1.13)	1.01 (0.98-1.04)
<i>Women</i>										
Low demands	0.72 (0.69-0.76)	0.93 (0.88-1.00)	1.06 (0.90-1.25)	1.10 (0.87-1.38)	0.49 (0.25-0.98)	0.48 (0.21-1.10)	1.13 (0.98-1.32)	1.10 (0.84-1.45)	1.21 (1.17-1.25)	1.14 (1.08-1.21)
Medium demands	1	1	1	1	1	1	1	1	1	1
High demands	1.37 (1.31-1.43)	0.93 (0.88-0.98)	0.61 (0.51-0.74)	0.54 (0.43-0.68)	1.09 (0.64-1.88)	0.69 (0.36-1.32)	1.48 (1.28-1.70)	1.21 (0.97-1.51)	0.83 (0.80-0.83)	0.94 (0.88-0.99)
Low control	0.67 (0.64-	0.89 (0.84-	1.16 (0.99-	0.99 (0.79-	0.78 (0.45-	1.57 (0.80-	0.90 (0.79-	0.87 (0.68-	1.25 (1.21-	1.02 (0.97-

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	0.70)	0.95)	1.35)	1.24)	1.36)	3.09)	1.02)	1.12)	1.30)	1.08)
Medium control	1	1	1	1	1	1	1	1	1	1
High control	1.46 (1.39-1.53)	1.34 (1.27-1.41)	1.05 (0.84-1.30)	1.17 (0.93-1.48)	1.38 (0.72-2.63)	1.35 (0.69-2.65)	1.36 (1.16-1.59)	1.28 (1.03-1.58)	1.03 (0.99-1.08)	1.06 (1.00-1.12)
<i>Men</i>	<i>In paid work (n=16 931)</i>		<i>No income/social assistance (n=496)</i>		<i>Sickness absence/disability pension (n=98)</i>		<i>Emigrated (n=1960)</i>		<i>Dead (n=26 952)</i>	
Low demands	0.64 (0.61-0.67)	0.75 (0.70-0.77)	0.99 (0.81-0.22)	0.83 (0.66-1.04)	0.88 (0.54-1.42)	0.81 (0.48-1.37)	1.01 (0.90-1.14)	1.02 (0.86-1.21)	1.16 (1.13-1.20)	1.05 (1.01-1.09)
Medium demands	1	1	1	1	1	1	1	1	1	1
High demands	1.24 (1.20-1.29)	1.03 (0.99-1.07)	0.70 (0.56-0.88)	0.68 (0.53-0.80)	0.90 (0.55-1.45)	0.95 (0.57-1.60)	1.73 (1.55-1.93)	1.37 (1.17-1.60)	0.79 (0.77-0.82)	0.91 (0.87-0.95)
Low control	1.02 (0.97-1.08)	1.04 (0.99-1.10)	1.28 (1.01-1.61)	1.25 (0.97-1.59)	1.15 (0.67-1.98)	1.07 (0.61-1.89)	1.16 (1.01-1.32)	1.20 (1.00-1.43)	1.19 (1.15-1.23)	1.12 (1.07-1.16)
Medium control	1	1	1	1	1	1	1	1	1	1
High control	1.51 (1.45-1.57)	1.20 (1.15-1.25)	0.82 (0.66-1.01)	0.86 (0.67-1.09)	0.89 (0.55-1.44)	0.81 (0.47-1.39)	1.31 (1.17-1.46)	1.17 (0.99-1.39)	0.85 (0.83-0.88)	0.99-0.95-1.04)

\*Mutually adjusted and adjusted for age group, birth country, type of living area, family situation, educational level, labour market status in 2001

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