

Job Stress and Working Conditions: Ireland in Comparative Perspective

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Motivation

- Transformation from industrial production to services=> workers increasingly exposed to psychological risks
- Stress Anxiety Depression, second highest self reported work related illness in Ireland and EU.
- Long term health consequences
- Cost implications: employers/health system & wide economy. Estimates of £5.2 billion in the UK for the year 2013/14 EU15 (HSE).



Outline

- 1. Research questions
- 2. Data and measures
- 3. Working conditions and job stress
- 4. Summary and policy implications



Research Questions

- What is the level of job stress in Ireland?
- How do levels of job stress in Ireland compare to other countries?
- What working conditions are associated higher job stress?
- Which sectors and occupations exhibit the highest levels of job stress?
- Implications for policy and practice



Theories of job stress

- Job Demand/Control model (Karasek,1979): high demands combined with low control worst for wellbeing. Control (and support) can buffer effect of high demands.
- Effort reward imbalance (Siegrist, 1996). Mismatch between effort and rewards (e.g. pay, security, opportunities) leads to job stress
- Job demands-resources model (Demerouti et al. 2001).
 - Demands ='those physical, social or organizational aspects of the job that require sustained physical and/or psychological (cognitive and emotional) effort or skills' become stressors when they exhaust employees' physical and mental resources.
 - Wider range of resources can moderate demands e.g. social, psychological and organisational resources.



Conceptual Model of Causes & Consequences of Job Stress



Source: adapted from Eurofound 2010

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Data and Measures

Data

- European Working Conditions Survey
- Two latest waves 2010 and 2015
- Ireland 1000 workers each year, 830 employees (ex self employed)
- Information about employment status, work organisation, working conditions
- Selected sample of employees for 10 western European countries representative of different employment regimes.

Job stress measure

Combined subjective and stress reactions (anxiety, fatigue, sleep disturbance)



 Subjective Stress Measure:
 Which response best describes your work situation: you experience stress in your work?



2. Stress Reactions Measure

- Over the last 12 months have you experienced any of the following health problems? Yes/no
 - Overall fatigue
 - Anxiety
 - Insomnia or sleep difficulties (change in wording 2015)
- Stress reactions <u>not</u> directly linked to work, no issue of attribution.
- Combined measure, reduce risk of non-work causes of reactions & more robust than single subjective measure



Measure of Job Stress



Responses for 10 countries combined, 2010 & 2015

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Combined Job Stress by Country, 2010 & 2015 30% 25% 20% 15% 10% 5% 0% Average \$ 0^{fr} 4U 04 54 * St. GR \$ ~~ 2010 2015 27 November 2018 www.esri.ie @ESRIDublin #ESRIevents **#ESRIpublications** 11

Job Demand Indicators (I) (additive scales: rescaled 0 to1)

Indicator	Component questions	Response categories
Time pressure	 Does your job involve working at very high speed? Does your job involve working to tight deadlines? Do you have enough time to get the job done? 	All the time to never All the time to never Always to never
Emotional demands	 Does your job require that you hide your feelings? Does your job involve handling angry clients, customers, patients, pupils, etc.? 	Always to never



Job Demands by Country, 2015 (0=low to 1=high)



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Further Job Demand Indicators (II) (additive indices: rescaled 0 to1)

Indicator	Component questions	Response categories
Effort-reward imbalance	Considering all my efforts and achievements in my job, I feel I get paid appropriately	Strongly agree to strongly disagree
Physical demands	Tiring or painful movements Lifting or moving people Carrying or moving heavy loads Repetitive hand or arm movements	All of the time to never
Bullying, harassment, violence etc.	Unwanted sexual attention (last month) Physical violence (last 12 months) Bullying/harassment (last 12 months) Sexual harassment (last 12 months) Threats/humiliating behaviour (last month) Discrimination at work (last 12 months) Verbal abuse (last month)	Yes/No



Job Resource Indicators (additive scales; rescaled 0 to1)

Indicator	Component questions	Response categories
Autonomy	Are you able to choose or change your order of tasks ? Are you able to choose or change your methods of work? Are you able to choose or change your speed or rate of work?	Yes/No Yes/No Yes/No
Support	Your colleagues help and support you Your manager helps and supports you	Always to never
Intrinsic reward scale	Your job gives you the feeling of work well done You have the feeling of doing useful work	Always to never



Job Resources by Country, 2015 (0=low to 1=high)





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Statistical Model of Job Stress Ireland 2010–2015

- Logistic regression to estimate the likelihood of an event
 - Dependent variable: risk of job stress; value of 0 (No) or 1 (Yes).
 - Non-work characteristics (e.g family status) are controlled.
 - Report the likelihood (odds ratio) of experiencing job stress for each characteristic by taking account of all other characteristics.
 - Odds ratio: If OR >1 means more likely than a reference group;
 If OR <1 means less likely than a reference group.



Logistic Regression on Job Stress (Odds ratios)

Demands & resources	Ireland
2015	2.34***
Female; age; age of children	n.s
Difficulty making ends meet	n.s.
Time pressure 0-1	10.36***
Emotional demand 0-1	21.28***
Bullying/harassment 0-1	8.28***
Effort reward imbalance 0-1	4.26***
Perceived insecurity 0-1	n.s
Physical demand 0-1	n.s
+40 hours (ref 36-40 hours)	2.12*
Autonomy 0-1	n.s
Support 0-1	n.s
Intrinsic reward 0-1	n.s
Shift work/night work	n.s.

Which sectors are most stressful? Ireland 2010 & 2015



Which Occupations are most stressful? Ireland 2010 & 2015

25%



Summary

- Working conditions with strongest association with job stress:
 - High job demands (emotional demands, time pressure, bullying/harassment/violence)
 - Weaker influence of job resources (autonomy, support, intrinsic reward) on job stress
- Sharp increase of job stress in Ireland from 2010 to 2015 but still among the lowest across EU10.



Policy Implications (1)

- Job stress important issue for employers/employees
 - Employees mental health included in the Irish health and safety regulation
 - In Ireland 50% firms do not have enough information for the assessment of psychological risk & less than 45% Irish firms have and action plan to prevent job stress (EU-OSHA, 2016).
- Managing high job demands
 - Need for action in relation to psycho-social risks at organisational level: formal policies and organisational culture
 - EU and national initiatives on job stress and bullying/violence (Eurofound and HSA) awareness, guidelines, stress audit tools



Policy Implications (2)

Enhancing worker resources

- Some evidence that support moderates negative effect of high emotional demands=>implementation of a supportive organisational environment highly relevant in activities with high emotional demands.
- Special attention to higher risk sectors and occupations
 - Health sector/ hospitality/education (high emotional demand); manufacturing (time pressure, long working hours)
 - Managers (time pressure, long working hours); professionals (above average emotional demand, bullying/harassment/ violence)



Thank You



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