

Closing the Loop 2017

Psychosocial Factors at Work: Worker Health vs Productivity



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Fat Cat Wednesday 2017

Welcome back to work. FTSE100 bosses will have already clocked up an average annual UK salary by lunchtime today.

"Over a thousand pounds an hour..."

Fat Cat Wednesday 2017

- Top bosses will already have made more money by the first
 Wednesday of 2017 than the typical UK worker will earn all year
- The average pay ratio between FTSE100 CEOs and the average total pay of their employees in 2015 was 129:1
- Making the publication of pay ratios compulsory will help track progress on closing this gap

It's Fat Cat Wednesday (4.1.2017). After just two and a half days Britain's top bosses will have made more money than the average UK worker earns in an entire year, according to High Pay Centre calculations.



Pay counter

Since 1 January 2017 the average FTSE 100 CEO has earned:



How does your pay compare?



Get the full facts - our partner project

Income inequality in the UK

HTTP://HIGHPAYCENTRE.ORG

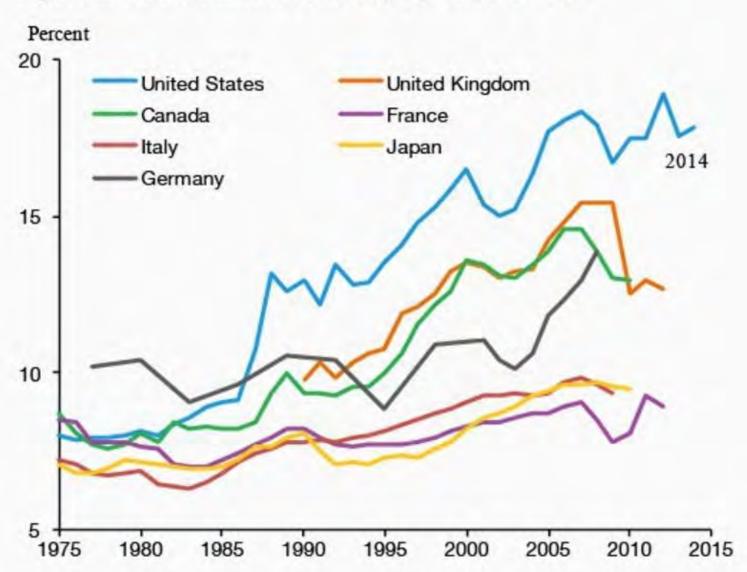


Figure 1. Share of income earned by top 1%, 1975-2014

Note: Data for all countries exclude capital gains. Source: World Wealth and Income Database (Alvaredo et al. 2015).

Changes and Challenge

 Maintaining a mentally healthy and productive workforce in a global competitive economy is a big challenge for Australia and other capitalist economies.

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- Productivity improvement approaches emphasise reducing inefficiencies, increasing work pressure, reducing job security, and stabilising or reducing wages while bolstering CEO salaries and increasing profits and shareholder value.
- For workers these approaches are likely accompanied by reduced meaningfulness of work, decrements to worker health, increased psychological distress, increased workplace bullying, work-family conflict, and workers compensation costs.
- Yet these developments are at odds with health and safety as a fundamental human right, and the most basic ethic of "do no harm".

Outline

- 1. State of Affairs
- 2. Causes of Work Stress
- 3. PSC Theory and Evidence
- 4. The Value of PSC- The Human and Economic Case
- 5. Where Does PSC Come From?
- 6. Solutions-What Can Be Done?

1. State of Affairs

- Under the *Work Health and Safety Act 2011* (WHS Act), managers must take reasonable action to identify, assess and control exposure to hazards and risks (both physical and psychological).
- It is therefore important that we monitor and address psychosocial hazards and risks in the workplace.
- This is critical for maintaining the wellbeing of individual employees, and also for ensuring workplaces are as productive and high performing as possible

The nested nature of reality



The focus has been largely on the individual-resilience

 My argument need to look at the context, person, nested in a job, in an organisation, in a society (one inside the other)

 Likely to have a more far reaching effect on worker health and productivity if look at sources further upstream than job design and individual factors

Cost of Work Stress

- Mental stress claims in the Australian Public Service, 88% increased 88% from 2009 to 2014 (Comcare (2015).
- Stress claims accounted for 13% of claims but 43% of costs
- Average cost of \$291,000 (22% exceeded \$500,000).
- Only increase in the frequency of serious claims since 2000-01 is mental disorders (Safe Work Australia, 2017)
- Mental health conditions cost to Australian businesses is nearly \$11 billion per year due to absenteeism, presenteeism and compensation claims (Pricewaterhouse Cooper, 2014).

Cost of Work Stress

- Beyondblue, astonishing statistics in *The State of Workplace Mental Health in Australia* (beyondblue, 2014):
- Only 52% of Australian workers consider their workplace to be mentally healthy; 56% believe that their most senior leaders value their mental health.
- Mental and physical health problems, cardiovascular disease, depression, suicide.

2. Causes of Work Stress

• An inevitable problem in a growth & competition, economic model

Frontline Healthcare Workers

"I've been nursing for nearly 40 years and I think that the pressure over those years outweighs the rewards, but it is still a rewarding career, and its very collegial. But there's certainly one day out of ten that I would say; 'jee, I feel really great today, I've had a lovely day, and my patients really loved me, and thanked me,' and I'll have nine days out of ten where I'll say; 'I felt pressured today, I felt unsafe at times, I felt overworked, and my patients were lashing out at me...' and I'm the person that takes the brunt of that home at the end of the day.."

Full title: "The dynamic interplay of physical and psychosocial safety in frontline healthcare workplaces in Australia and Malaysia"Investigators: Prof Maureen Dollard; Dr Michelle Tuckey; Prof Peter Chen; Prof Bill Runciman; Dr Sharon Morton; Ms Mardi Webber, and; Dr Awang Idris; Participating Organisations and Groups: University of South Australia; SafeWork SA; University of Malaya; Southern Adelaide Local Health Network; Flinders Medical Centre, and; Calvary Health Care Group.

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What worker characteristics are required for these 'dispossessed' environments?

• According to a managing director of an Australian call centre there are two types of people who make successful cold callers

1) extroverts because they thrive on interactions with others, and

2) psychopaths because they are not emotionally hurt by constant rejection (Warne-Smith, 2006).

- Should we select for these characteristics?
- How are we to work in such environments?

Warne-Smith, D. (2006). Confessions of a cold caller. *The Weekend Australian Magazine*, April 29-30, 16-20.

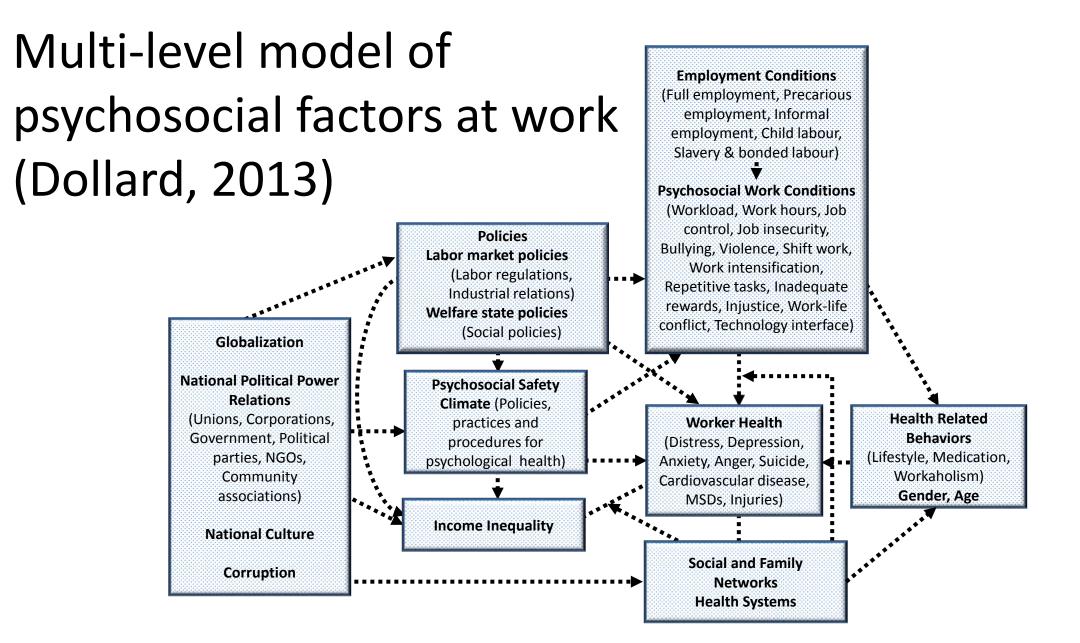
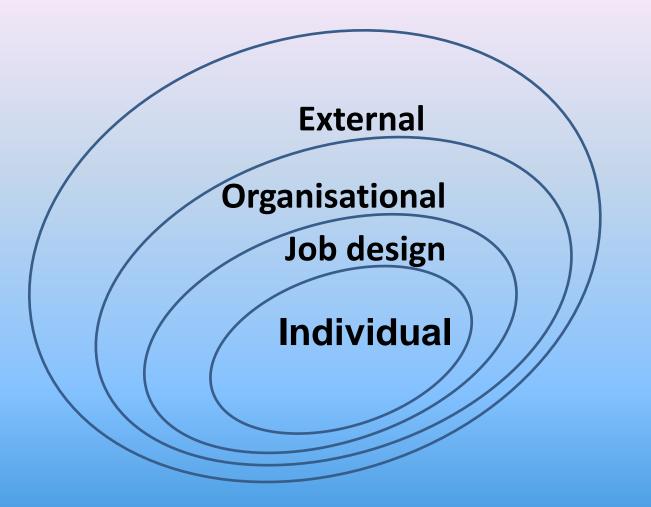


Fig. 1.3

Dollard, M.F., Shimazu, A., Nordin, R. Bin, Brough, P., Tuckey, M.R (Eds.), (2014). *Psychosocial Factors at Work in the Asia Pacific* Dordrecht; Springer International Publishing. 978-94-017-8974-5



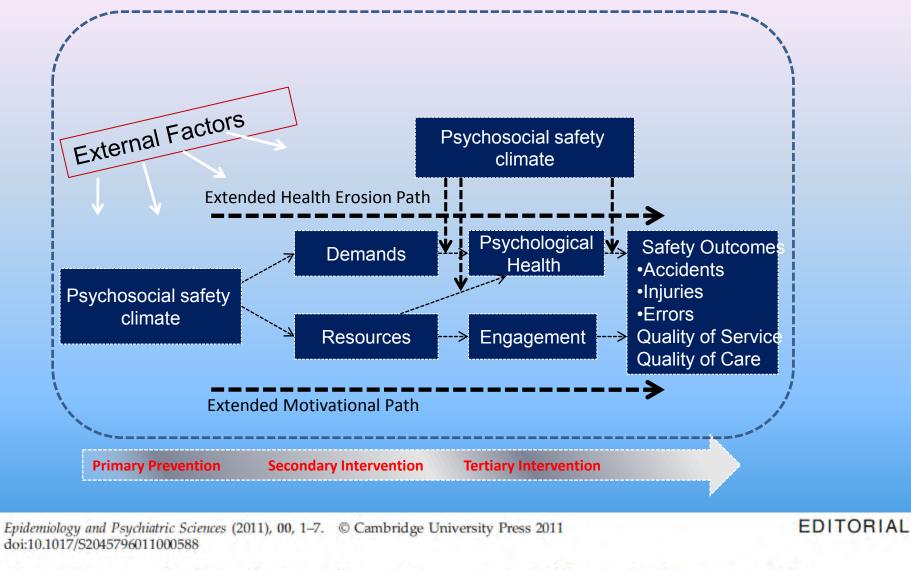
Layers of influence on worker health

The Cause of the Causes



Extended Motivational Path

Job Demands-Resources Model Demerouti, Bakker et al., 2001



Psychosocial safety climate: a multilevel theory of work stress in the health and community service sector M. F. Dollard* and W. McTernan

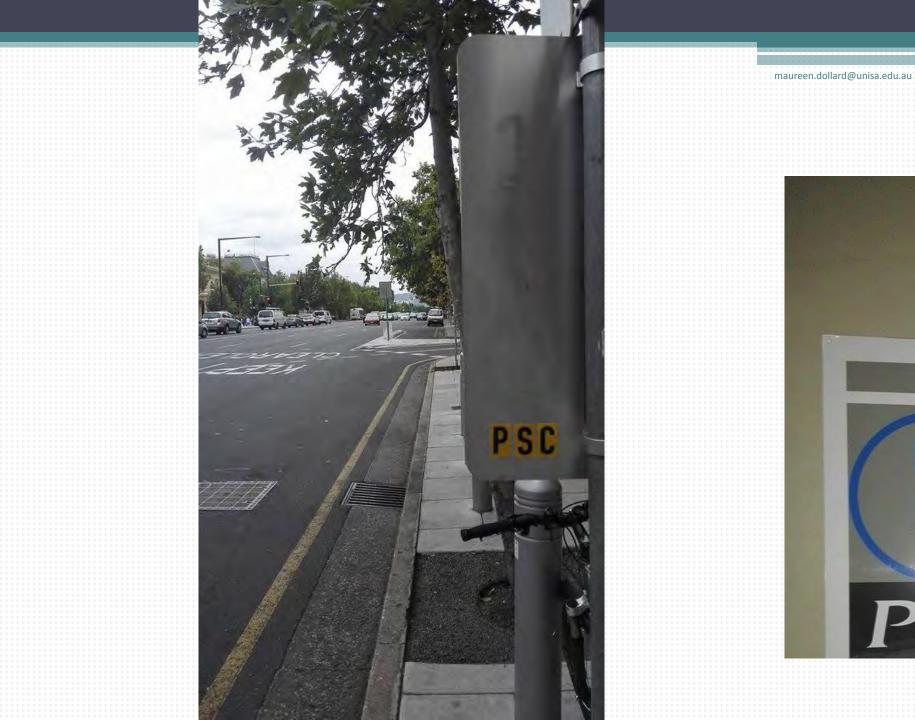
3. PSC Theory and Evidence

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Psychosocial Safety Climate

Psychosocial safety climate (PSC) refers to shared perceptions regarding policies, practices, and procedures for the protection of worker psychological health and safety

Competing Values—worker health, a balance of productivity and worker heatlh





PSC Ingredients

Management commitment

- 1. In my workplace senior management acts quickly to correct problems/issues that affect employees' psychological health
- 2. Senior management acts decisively when a concern of an employees' psychological status is raised
- 3. Senior management show support for stress prevention through involvement and commitment **Priority**
- 4. Psychological well-being of staff is a priority for this organization
- 5. Senior management clearly considers the psychological health of employees to be of great importance
- 6. Senior management considers employee psychological health to be as important as productivity **Communication**

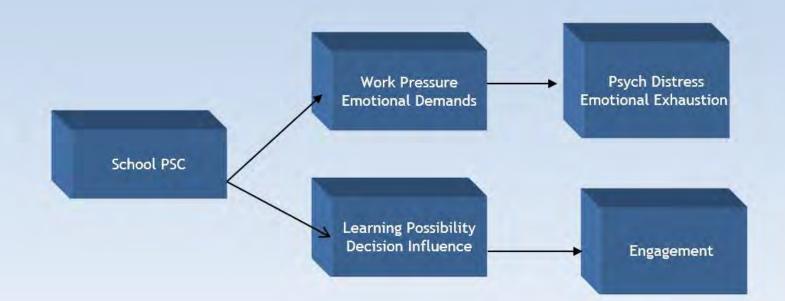
7. There is good communication here about psychological safety issues which effect me

- 8. Information about workplace psychological well-being is always brought to my attention by my manager/supervisor
- 9. My contributions to resolving occupational health and safety concerns in the organization are listened to

Participation and involvement

- 10. Participation and consultation in psychological health and safety occurs with employees', unions and health and safety representatives in my workplace
- 11. Employees are encouraged to become involved in psychological safety and health matters
- 12. In my organization, the prevention of stress involves all levels of the organization

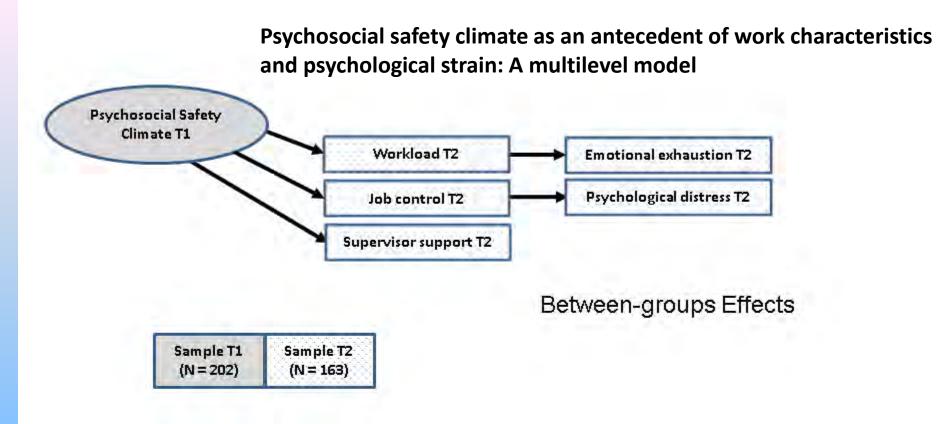
the **Evidence**



Controls for Time 1 Dependent measures

N = 262 Time1; N = 196, Time 2 18 schools

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- Independent samples matched by work unit (N = 48)
- Time 1 → Time 2 24 months

Main effects and mediation model

(2012). Maureen F. Dollard, Tessa Opie, Sue Lenthall, John Wakerman, Sabina Knight, Sandra Dunn, Greg Rickard & Martha MacLeod



Work & Stress 2012, 1-20, iFirst article Routledge

Bullying

- PSC predicts bullying—mainly perpetrated by managers productivity hypothesis
- PSC predicts bullying prognosis (e.g., resolution vs leave job)

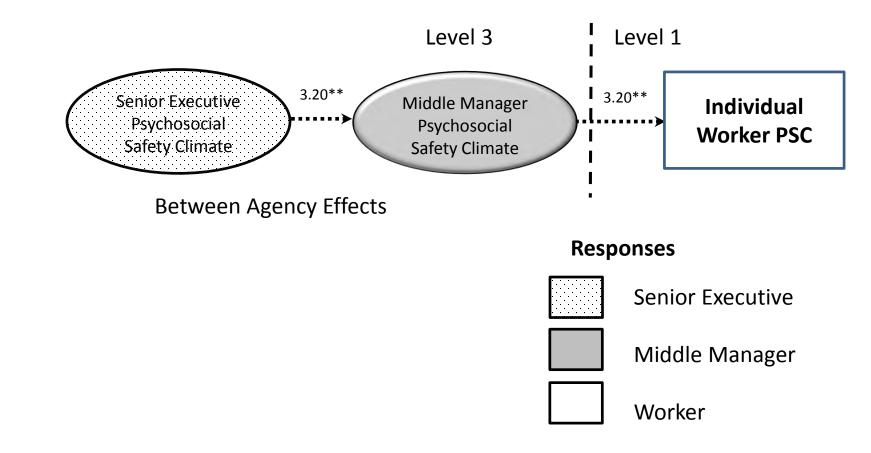
 Potter, R., Dollard, M. F., & Tuckey, M.R. (2015). Bullying & harassment in Australian workplaces: Results from the Australian Workplace Barometer Project 2014/2015, Safe Work Australia, <u>www.safeworkaustralia.gov.au</u>

Psychosocial safety climate, emotional exhaustion, and work injuries in healthcare workplaces

- 214 SA hospital employees (18 teams)
- PSC team level was significantly negatively related to registered team work injury rates.
- And under-reporting
- Only 36% concordance rate between registered and self-reported injuries

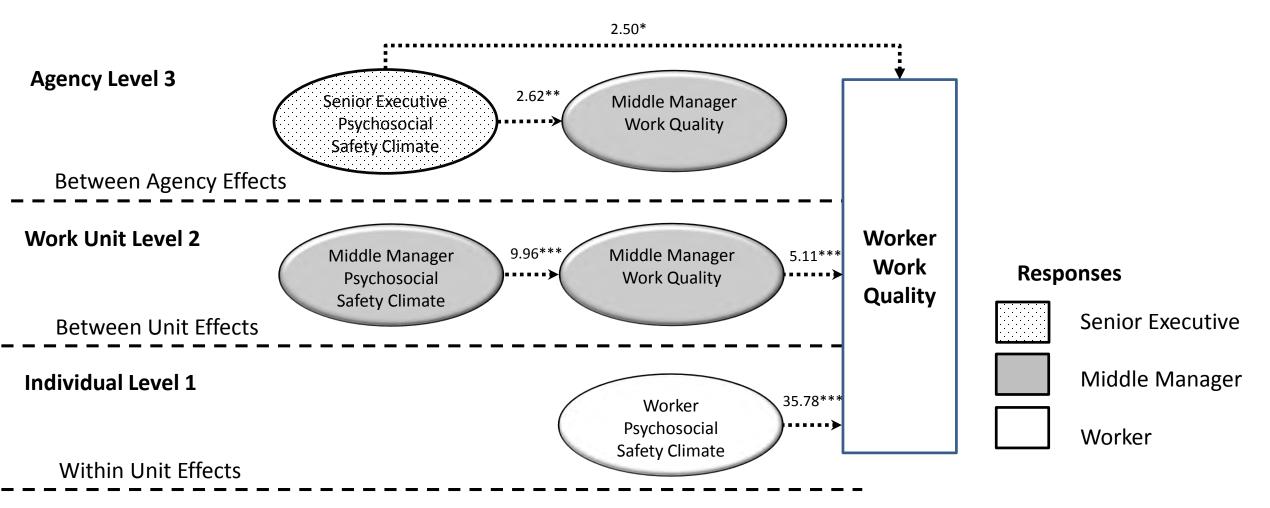
Zadow, A. J., Dollard, M. F., McLinton, S. S., Lawrence, P., & Tuckey, M. R. (in press – accepted 15 Dec 2016). Psychosocial safety climate, emotional exhaustion, and work injuries in healthcare workplaces. *Stress and Health*.

Psychosocial Safety Climate; Cross-level effects



25 agencies, 394 work units.268 senior executives, 1895 middle managers, 4815 workers.

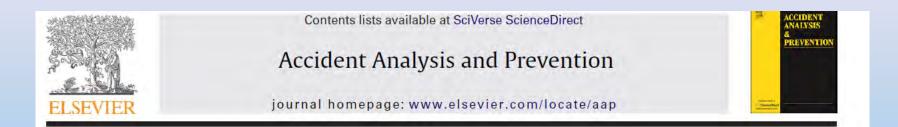
Psychosocial Safety Climate and Work Quality



21 agencies, 394 work units.

268 senior executives, 1895 middle managers, 4815 workers.

Safety Signal (interactive) Effect of PSC

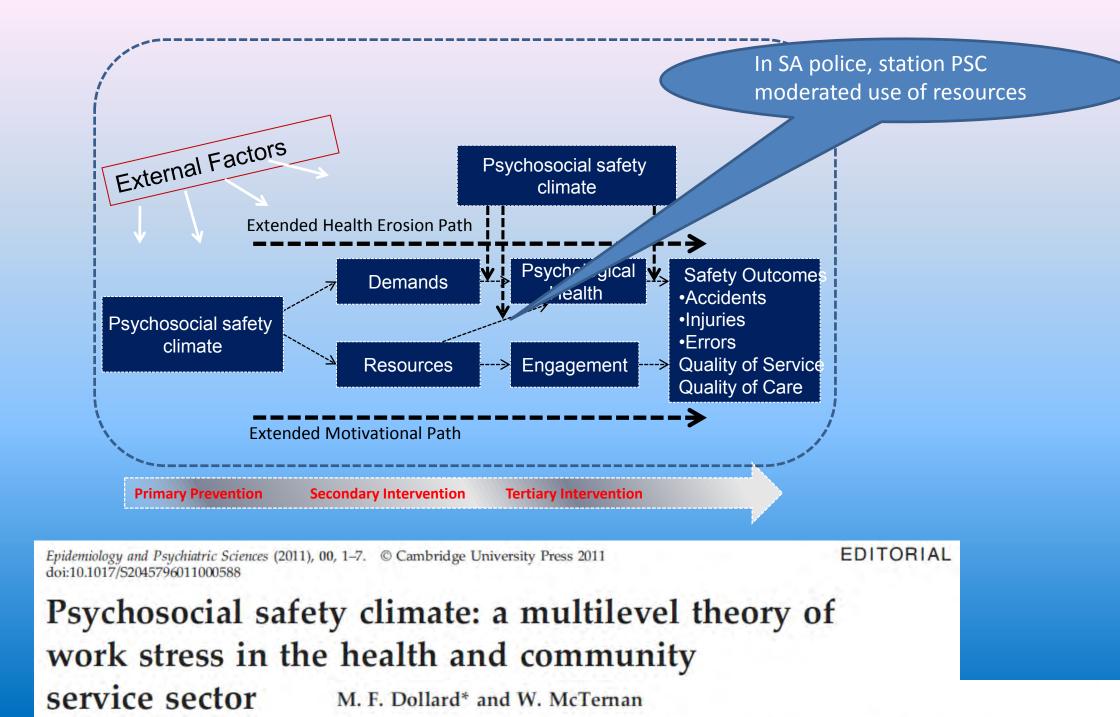


Psychosocial safety climate moderates the job demand-resource interaction in predicting workgroup distress

Maureen F. Dollard^{a,*}, Michelle R. Tuckey^a, Christian Dormann^{a,b}

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- Tests a three-way interaction
- Demands X resources (in the context of PSC)



Climate congruence: How espoused and enacted psychosocial safety climate affects emotional exhaustion

Yulita, Awang Idris, University Malaya, Maureen Dollard, University of South Australia Safety Science (In revision)

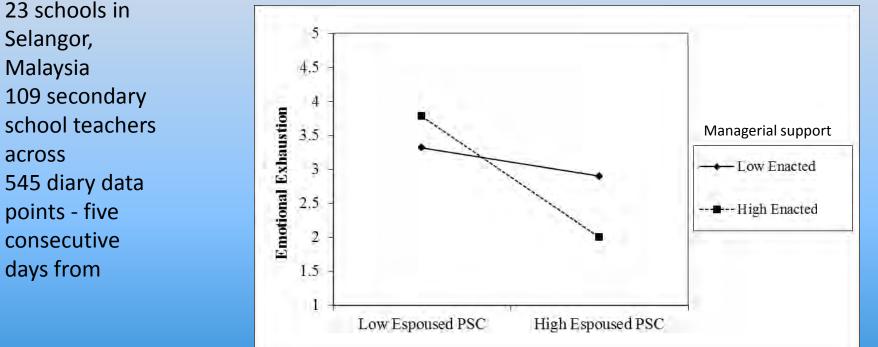


Figure. The interaction of espoused PSC and enacted managerial support predicting emotional exhaustion

Selangor,

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545 diary data ٠ points - five consecutive days from

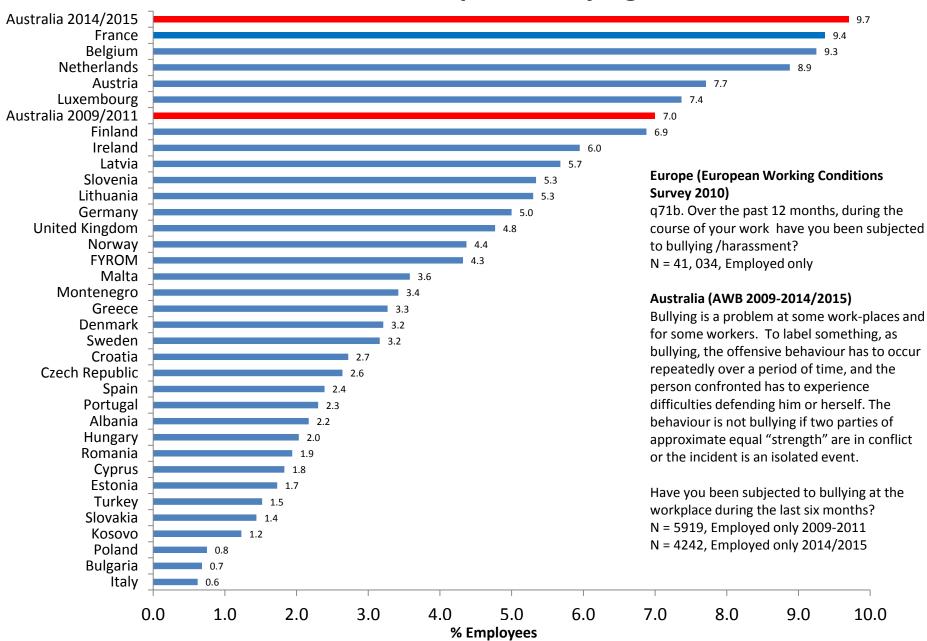
4. The Value of PSC-Human and Economic Case

Australian Workplace Barometer

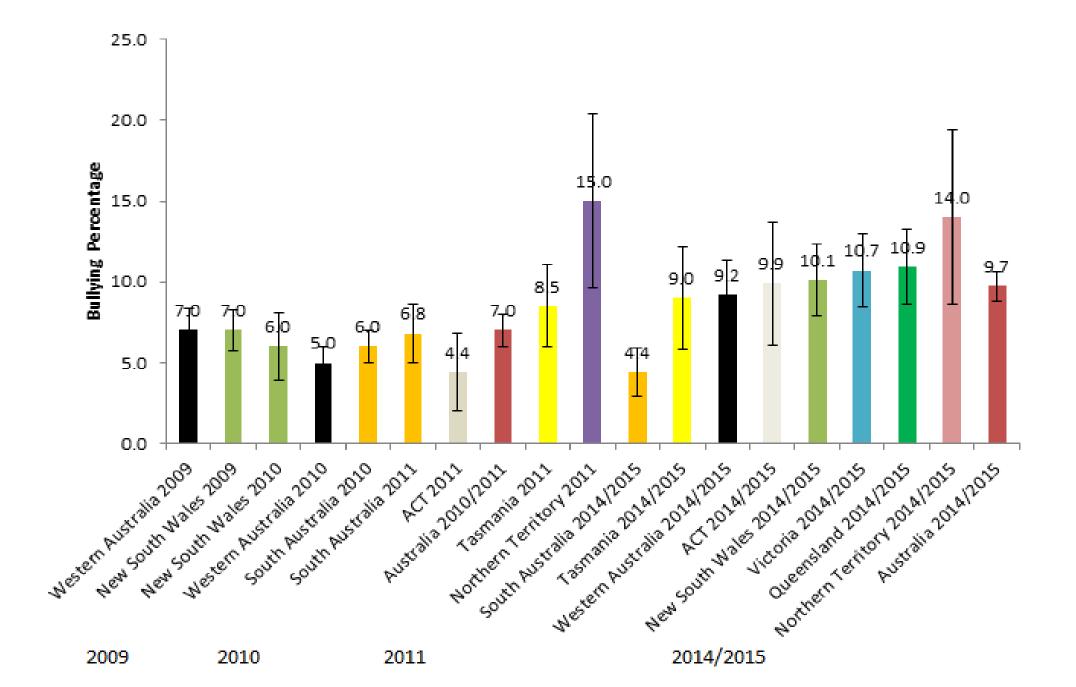
- National surveillance on working conditions among 7331 Australian workers, 3 waves of data
- Repeated measures for 3916 participants
- 2014/2015 data for 4242 Australia wide

Funded by Safe Work Australia, SafeWork SA, ARC Discovery Grant, ARC Linkage Grant

Australian and European Bullying Rates



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A National Standard for Psychosocial Safety Climate (PSC): PSC 41 as the Benchmark for Low Risk of Job Strain and Depressive Symptoms

> Tessa S. Bailey, Maureen F. Dollard, and Penny A. M. Richards University of South Australia

> > Journal of Occupational Health Psychology 2015, Vol. 20, No. 1, 15-26

PSC Standards	Range 12 — 60	
Low risk PSC	41 or above	
Medium risk PSC	38 - 40	
High risk PSC	37 or below	(35% of respondents)

Elimination of low PSC – 14% reduction in job strain 16% reduction in depression



Using PSC to estimate productivity loss

(Becher & Dollard, 2016)



Workers PSC	Annual sickness absence (hours)	Cost via sickness absence	Productivity Loss	Cost via presenteeism
Low	60.3	\$2,109	5.5%	\$3,113
Moderate	59.1	\$2,067	5.4%	\$3,042
High	42.3	\$1,479	3.2%	\$1,856

Becher, H., & **Dollard, M. F.** (2015). Psychosocial and human capital costs on workplace productivity, Safe Work Australia, <u>www.safeworkaustralia.gov.au</u>

Using PSC to estimate productivity loss

(Becher & Dollard, 2016) A Pro-Social Approach to Productivity using the Australian Workplace Barometer

Cost of low PSC via sickness absence:AUD 2.4 billion p.a.Cost of low PSC via presenteeism:AUD 3.6 billion p.a.Total cost of low PSC to employers:AUD 6 billion p.a.

Becher, H., & **Dollard, M. F.** (2015). Psychosocial and human capital costs on workplace productivity, Safe Work Australia, <u>www.safeworkaustralia.gov.au</u>

PSC and workers' compensation in South Australia

Harry Becher and Maureen Dollard

170						Cidim Udid
days					•	Data were
			ļ	102 days	•	Matched d
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Lo	w - Modera PSC N = 65	ate	High PSC N = 70	-		 PSG Da On Ort

Average days lost per workers compensation claim between SA companies

- Australian Workplace Barometer linked to workers' compensation claim data from Safework SA.
- Data were aggregated to the organisational level in both datasets.
- Matched data for 135 organisations.

- PSC has been dichotomized between low to moderate PSC (PSC < 41) and high PSC (PSC \ge 41).
- PSC was measured in 2010, workers compensation claims include those made between 2010 and 2015.
- Days lost was log transformed to meet the assumption of normality for inferential testing.
- Only includes claims with lost days.
- Organisations with low or moderate PSC significantly more average days lost per workers compensation claim than high PSC t(133) Cohen's d = 0.35.

PSC and Workers' Compensation in South Australia

Harry Becher and Maureen Dollard

39



PSC and Workers' Compensation Expenditure

PSC levels in organisations (AWB data) is significantly linked to Expenditure in SafeWork SA data.

The average compensation claim in SA is \$16,753.

The average PSC in this sample was 38.

Each PSC point above 38 can save approximately \$580.

In a company with low PSC of 28 we expect average claim cost of \$22,550.

In a company with a high PSC of 48 we expect average claim cost of \$10,955.

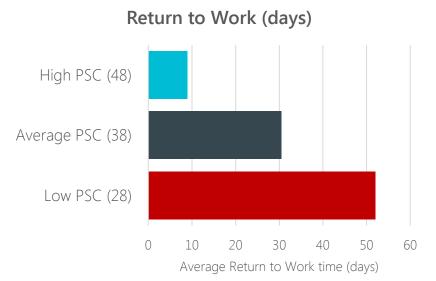
The really amazing thing about this research is that we can predict future WC Expenditure by knowing about company PSC

> Demographic variables (Socioeconomic status, gender, and age) were controlled in all analyses. PSC was measured in 2010, workers compensation claims include those made between 2011 and 2014.

PSC and workers' compensation in South Australia

Harry Becher and Maureen Dollard



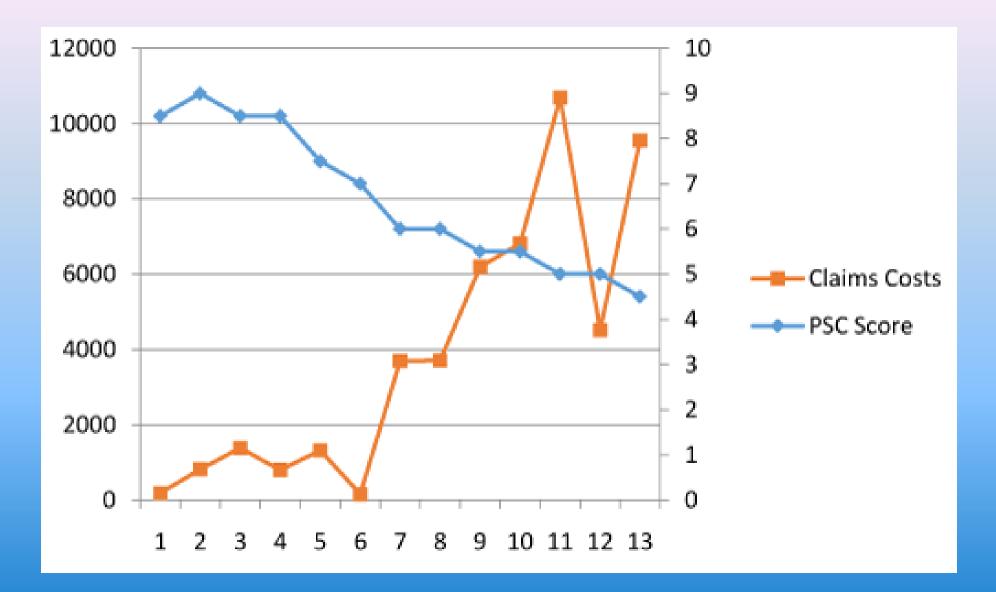


PSC and Return To Work Time

- PSC level in organisations (AWB data) is significantly linked to Return To Work Time (Safework SA data)
- The average Return To Work time in SA is 30.5 days.
- Each PSC point above 38 we expect will save approximately 2.16 RTW days.
- In a company with a low PSC of 28 we expect average RTW 52 days.
- In a company with a high PSC of 48 we expect an average RTW 9 days.

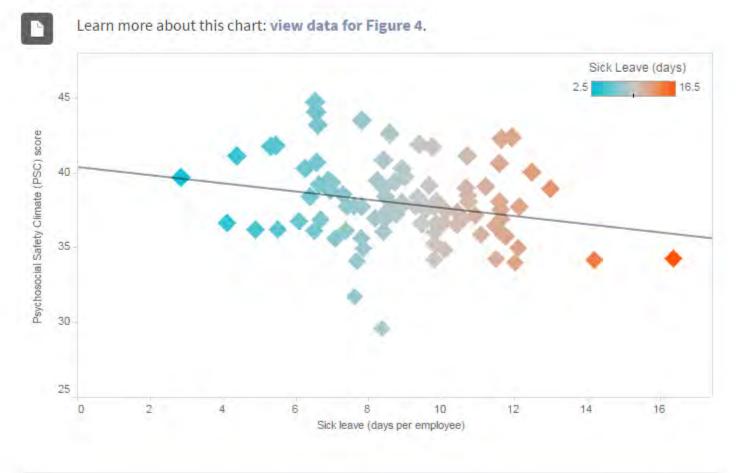
The really amazing thing about this research is that we can predict future RTW and expenditure by knowing about company PSC

Demographic variables (Socioeconomic status, gender, and age) were controlled in all analyses. PSC was measured in 2010, workers compensation claims include those made between 2011 and 2014.



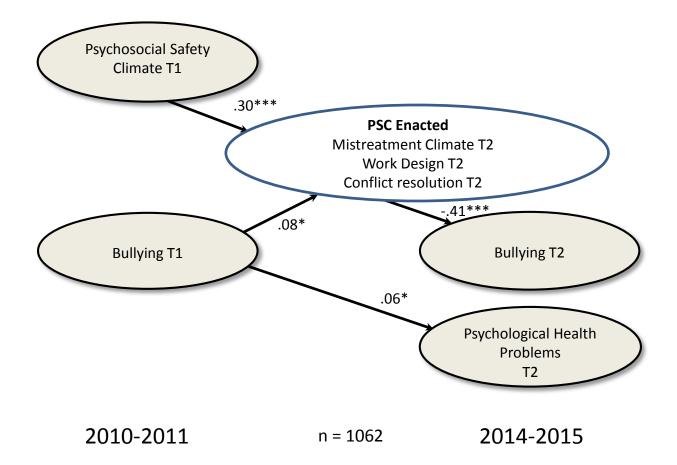
Citation: Winwood PC, Bowden R, Stevens F (2013) Psychosocial Safety Climate: Role and Significance in Aged Care. Occup Med Health Aff 1:135. doi: 10.4172/2329Australian Public Service workgroups about what constitutes appropriate leave behaviour, and timely support for managers from corporate areas on managing attendance in the workplace are also important factors.

Interactive Chart: Sick leave and Psychosocial Safety Climate score



This is an interactive chart: hover over the coloured diamonds to view data.

A correlation exists between the PSC score for an agency and the number of sick leave days taken by their



Predicting Happiness in Australian Workers Over 5 years, 2014-2015 (National Sample)

2009-2010	В	SE	Beta	t	р
(Constant)	5.99	0.36		16.61	.000
Age	0.00	0.00	0.00	0.06	.949
Gender	0.09	0.08	0.03	1.11	.268
Psychosocial Safety Climate	0.02	0.00	0.15	4.78***	.000
Bullying	-0.06	0.02	-0.10	-3.51***	.000
Skill Discretion (Control)	0.02	0.01	0.07	2.28*	.023

Gender, 1 = Males, 2 = Females

N = 1139

Starting PSC Levels affects Interventions

	Psychosocial safety climate T2
Sessions attended T2	.63**
Workshop quality T2	.21
Intervention quality T3	.68**
Intervention progress T3	.60**

Outstanding is the question... 6. Where does PSC come from?

The cause of the cause of the cause

The context

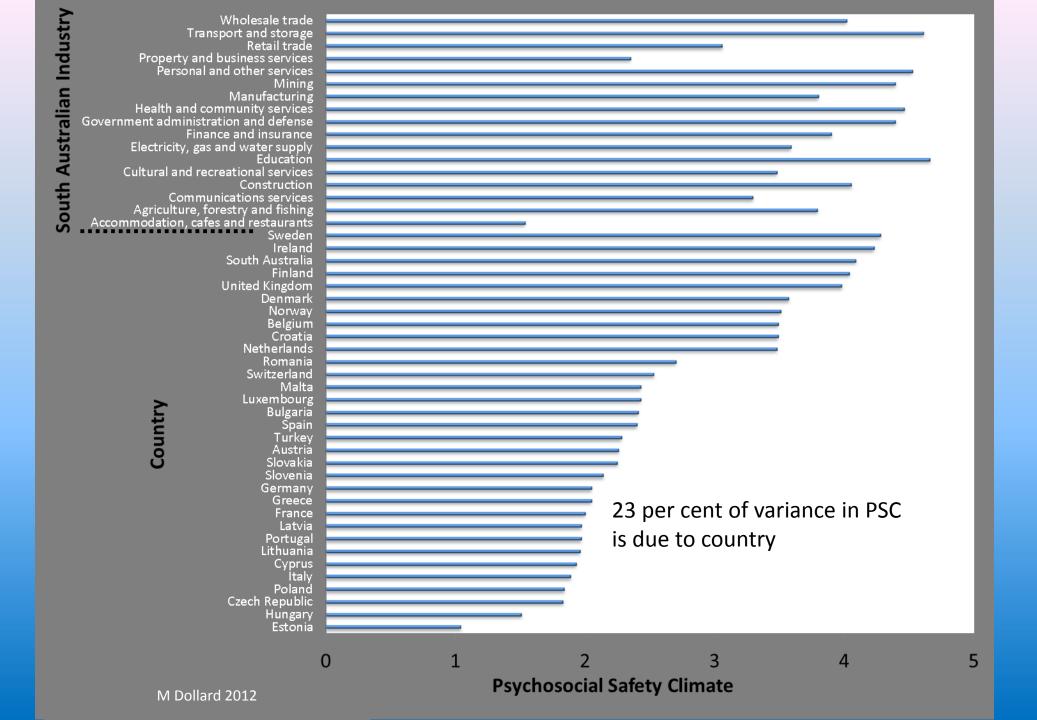
Psychosocial Safety Climate-Across Countries

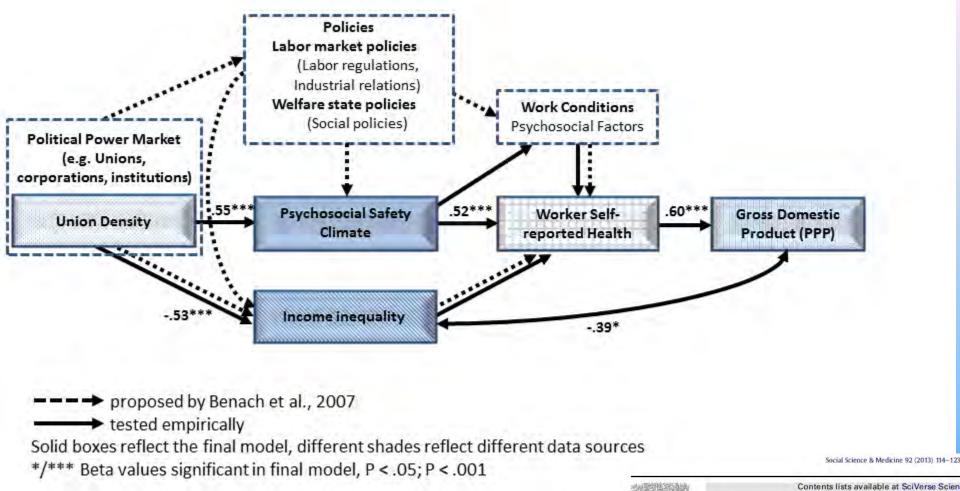
Using the ESENER data 28 000 establishments > 10 employees—most senior OSH managers. Questions were:

"Does your establishment have a procedure to deal with,

- 1. work-related stress;
- 2. bullying or harassment;
- 3. work-related violence?";
- 4. "What about the role of employees: Have they been consulted regarding measures to deal with psychosocial risks?" and
- 5. "Are employees encouraged to participate actively in the implementation and evaluation of the measures?"

Alpha was .87.







Worker health is good for the economy: Union density and psychosocial safety climate as determinants of country differences in worker health and productivity in 31 European countries



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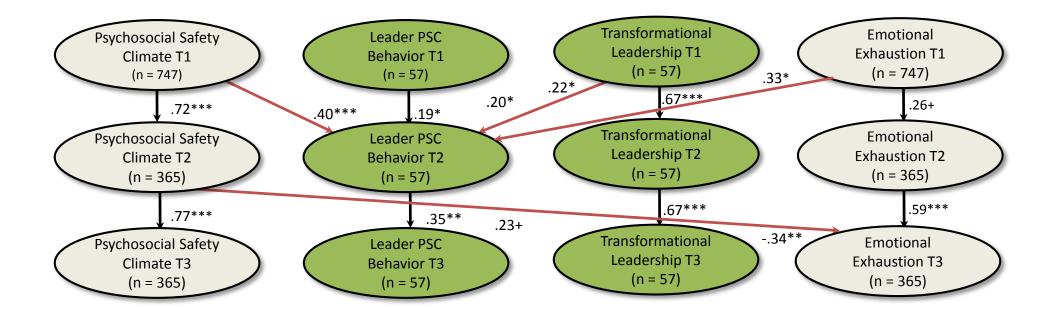
Findings

- Main reasons for dealing with OHS risks were Legal Requirements (63%), requests from employees or representatives (45%), and absence rates (18%)
- Type of society, social and economic factors (e.g., welfare regimes, work related policies) explain in part national differences in workplace protection (PSC)

7. Solutions-What can be done?

Solutions—Ethical leadership

- Ethical leadership training-refers to leading in a manner that respects human rights and dignity (Ciulla, 2004), and
- Concerns how leaders use their social power in the decisions they make and the actions they implement (Resick, et al, 2006).
- Ethical Utilitarian consequentialism greatest good for the majority means balance of worker health and productivity



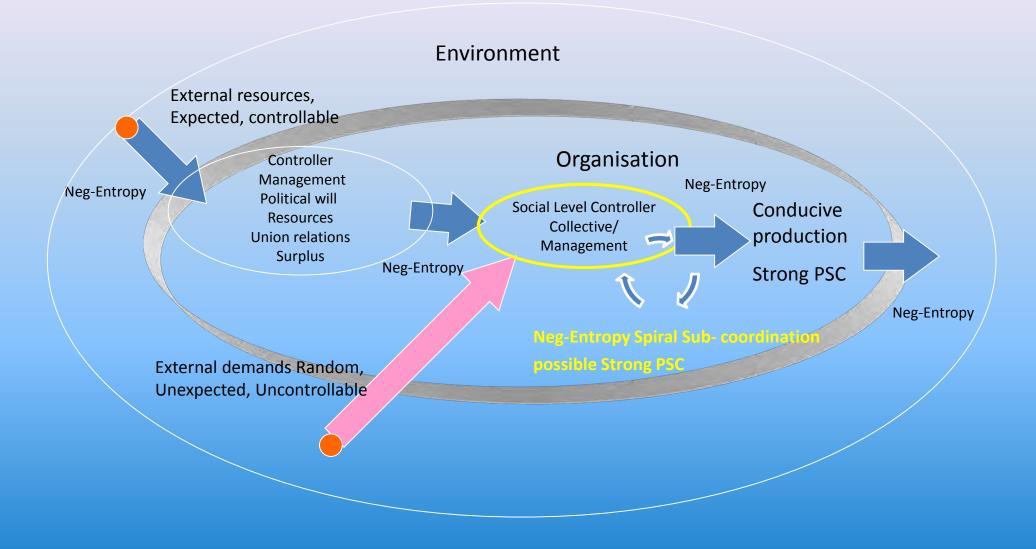
SA Hospitals 2015-2016, with a 5-month lag between measurement points.

57 teams, 57 leaders, 365 health care workers, at least 3 employees per ward at 3 time points Dollard, McLinton et al

Organisational Resilience

- Organisational resilience reflects the capacity of the organisation to cope with challenge, through flexible, adaptable and interactive systems, with psychosocial care.
- Organisational resilience will be evident as better PSC, improved job design elements, improved employee health and resilience and improved work outcomes

Healthy Conducive Production Model



Solutions; Sustainable workplace change focuses on improving PSC

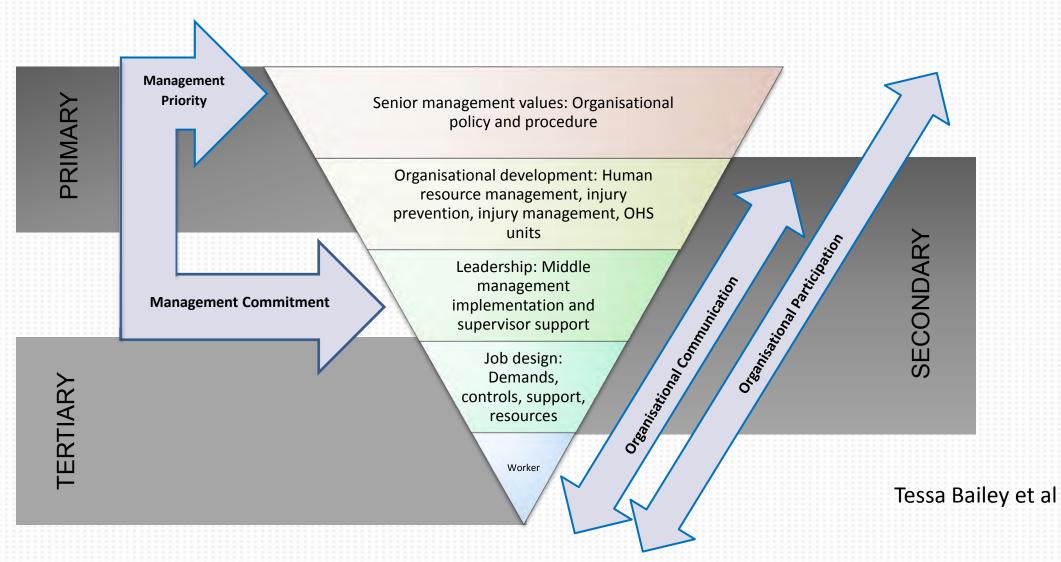
- Top management support
- Build on current systems
- Involve all levels
- Participation and Participatory



approaches

- Social dialogue with all stakeholders
- Communication up and down
- Risk assessment
- Change culture, leadership competency (ILO report)

PSC Hierarchy of Control



Take home points

- Work stressors are preventable
- Psychosocial safety climate is a leading risk factor, best target for intervention, a KPI for strategic management
- A form of ethical values based leadership—needs to be checked
- Build organisational resilience



Future UniSA Course

- A specialisation consisting of 12 WHS courses (which will include the psychology placement and work and organisational psychology courses and, as well, psychophysiology of sleep and health psychology courses).
- Combines the best of engineering and psychology to train accredited WHS professionals. It will be an undergraduate degree (there are only four others in the country), with an online/intensive option and compared to existing programs will have a stronger focus on the 'psychology' rather than 'hazards' edge of WHS.



Thank You for Listening! Please contact:

Published Papers on PSC

Books/ Book Chapters

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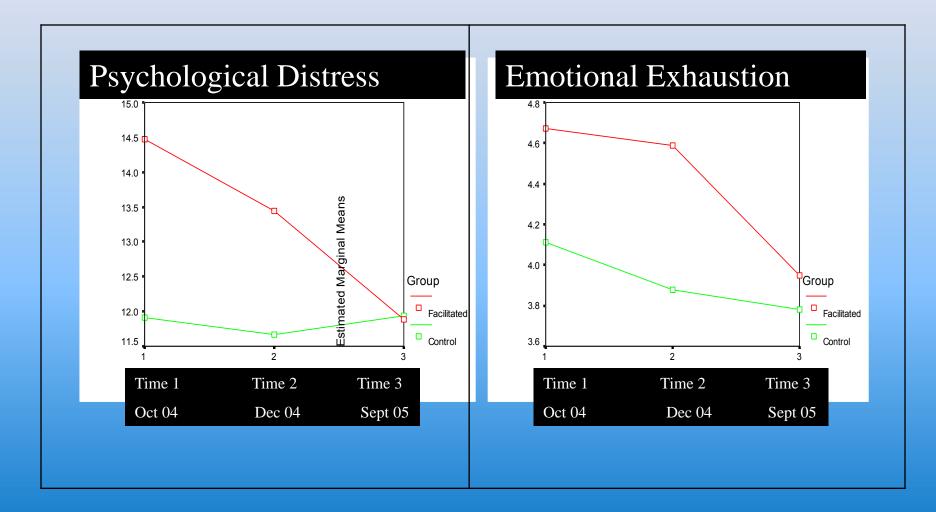
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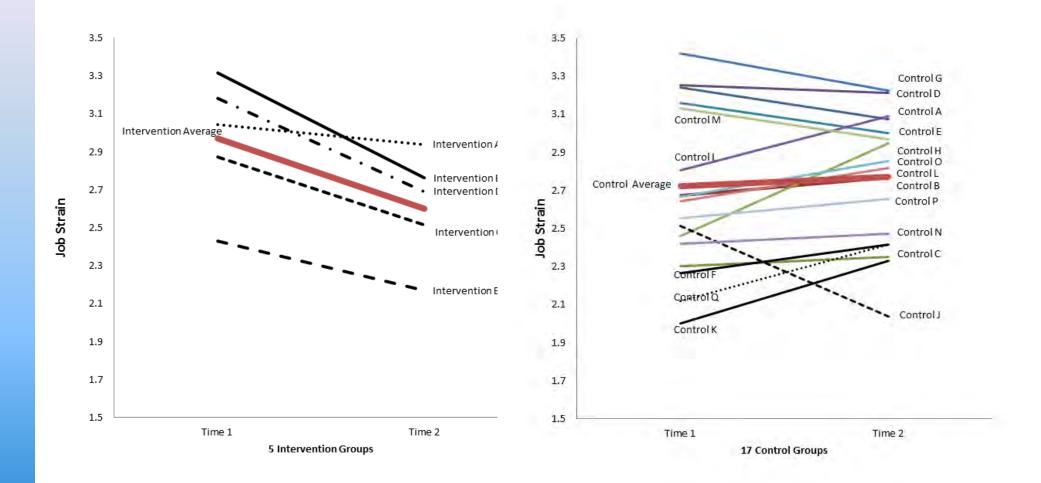
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GHQ-12 and Emotional Exhaustion



Work Stress Intervention Vic DET



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Stress Intervention Vic WorkCover

Building PSC-APSC 2016

- Having senior leaders actively promote mental health and wellbeing in the workplace.
- Incorporating messages in agency-wide communications from the senior leadership that reinforce the importance of employee health and wellbeing, particularly mental health
- Ensuring a regular and routine flow of information from management to employees about psychological safety risks in the workplace
- Actively promoting stress prevention at all levels, particularly through middle management/executive level staff

Work Stress Prevention: Risk Assessment

Supported by legislative frameworks

- 1. Evidence based-problem solving process (PAR)
- 2. Problem identification and risk-assessment (e.g., Australian Workplace Barometer risk assessment tool/ HSE Management Standards (Kelly et al)
- 3. Choice of measures and planning of intervention (controls)
- 4. Implementation of interventions & evaluation (Nielsen et al)
- Review of information needs and training needs of employees exposed to hazards (Cox & Griffiths).
- 6. Change culture, leadership competency (ILO report)

37 Organisational Stress Interventions Meta-Analytic Results Using PSC Template Amy Zadow et al (forthcoming)

Although current evidence suggests that organisational interventions are not as effective as individual level interventions in reduci psychosocial risks and psychological health of workers this runs counter to substantial theory.

Organizational Factors	Groups	High PSC Intervention			Low PSC Intervention		
		k	N	d	k	N	d
Job Demands	Intervention	6	1498	19*	12	7338	19
Job Demanus	Control	6	1872	08	11	11282	01
Job Resources	Intervention	17	4870	.11*	11	3483	27
JOD RESOURCES	Control	17	9697	11	9	6677	.06
Developical III Haalth	Intervention	21	4602	47*	21	3357	04
Psychological III-Health	Control	19	5883	.20	21	8682	01

Note. * Significant difference between intervention and control groups <.05.

Revolutionary! The research suggests a paradigm shift in the evaluation of work stress interventions away from traditional models, (JDC, JDR, ERI) to the PSC framework/ template