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Journal of Safety Research xxx (2015) xxx-xxx



Contents lists available at ScienceDirect

Journal of Safety Research



journal homepage: www.elsevier.com/locate/jsr

- Behaving safely under pressure: The effects of job demands, resources, Q1 and safety climate on employee physical and psychosocial
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- safety behavior 3

Babette Bronkhorst * 02

Faculty of Social Sciences, Department of Public Administration, Erasmus University Rotterdam, Burgemeester Oudlaan 50, PO Box 1738 3000 DR, Rotterdam, The Netherlands 5

6 ARTICLE INFO

Article history: 7 Received 19 December 2014 Received in revised form 12 June 2015 10 Accepted 1 September 2015 11 Available online xxxx 12Kevwords: 13 Physical safety climate

- Psychosocial safety climate 14
- Physical safety behavior, psychosocial safety 15
- 16behavior
- ID-R model 17
- 18 Multilevel analysis

ABSTRACT

Introduction: Previous research has shown that employees who experience high job demands are more inclined 19 to show unsafe behaviors in the workplace. In this paper, we examine why some employees behave safely when 20 faced with these demands while others do not. We add to the literature by incorporating both physical and psy- 21 chosocial safety climate in the job demands and resources (JD-R) model and extending it to include physical and 22 psychosocial variants of safety behavior. Method: Using a sample of 6230 health care employees nested within 23 52 organizations, we examined the relationship between job demands and (a) resources, (b) safety climate, 24 and (c) safety behavior. We conducted multilevel analyses to test our hypotheses. Results: Job demands 25 (i.e., work pressure), job resources (i.e., job autonomy, supervisor support, and co-worker support) and safety cli-26 mate (both physical and psychosocial safety climate) are directly associated with, respectively, lower and higher 27 physical and psychosocial safety behavior. We also found some evidence that safety climate buffers the negative 28 impact of job demands (i.e., work-family conflict and job insecurity) on safety behavior and strengthens the 29 positive impact of job resources (i.e., co-worker support) on safety behavior. Conclusions: Regardless of whether 30 the focus is physical or psychological safety, our results show that strengthening the safety climate within an 31 organization can increase employees' safety behavior. Practical implication: An organization's safety climate is 32 an optimal target of intervention to prevent and ameliorate negative physical and psychological health and safety 33 outcomes, especially in times of uncertainty and change.

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1. Introduction 40

The health care sector has recently been subject to a lot of changes. 41 42Governmental measures, system reforms, and budget cuts have had a huge impact on the day-to-day work of health care employees. Expo-43sure to job demands such as work pressure, job insecurity, and work-44 family conflict have increased considerably (Eurofound, 2014). Al-4546though not necessarily negative, these demands can invoke unsafe behaviors (Hansez & Chmiel, 2012), which in turn pose a serious threat 03 to both employee and patient health (Christian, Bradley, Wallace, & 48 49 Burke, 2009). According to the European Federation of Nurses' Associations (2012), over a third of the nurses across Europe report concerns 50about quality of care and patient safety due to budget cuts and rising un-5152employment for nurses. This makes it relevant to investigate why some individuals behave safely under pressure, whereas others do not. In this 5354paper, we use a large sample of 6230 health care employees to examine 55the relationship between job demands, job resources, safety climate, 56and safety behavior.

Tel.: +31 611 258300. E-mail address: bronkhorst@fsw.eur.nl.

Our paper adds to the literature in the following two ways. First, 57 we extend the job demands and resources (JD-R) model (Bakker & 58 Demerouti, 2007) to assess its relation to employee safety behavior. Al- 59 though several authors have investigated the JD-R model in the context 60 of safety (as shown by the meta-analysis of Nahrgang, Morgeson, & 61 Hofmann, 2011), to our knowledge, none of them have linked job de- 62 mands and resources to both physical and psychosocial safety behavior. 63 The link with psychosocial safety behavior is particularly innovative in 64 our study, since no other study has investigated this type of safety be- 65 havior. To explain differences in this specific type of safety behavior, 66 we also include the recently developed concept of psychosocial safety 67 climate (Dollard & Bakker, 2010) in our research. Second, our extension 68 of the JD-R model covers multiple levels as we include the effect of orga- 69 nizational level safety climate on individual level safety behavior. In an 70 overview of the JD-R model, Demerouti and Bakker (2011) encourage 71 researchers to integrate multiple levels in their research to better un-72 derstand phenomena unfold within organizations and help guide the 73 development of more effective interventions. From both a theoretical 74 and practical point of view, we aim to provide new insights in how to 75 promote physical and psychosocial safety behavior among health care 76 employees in times of uncertainty and change. 77

http://dx.doi.org/10.1016/j.jsr.2015.09.002

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Please cite this article as: Bronkhorst, B., Behaving safely under pressure: The effects of job demands, resources, and safety climate on employee physical and psychosocial safety behavior, Journal of Safety Research (2015), http://dx.doi.org/10.1016/j.jsr.2015.09.002

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78 **2. Theoretical framework**

79 2.1. Physical and psychosocial safety climate and behavior

Safety climate refers to employees' shared perception of their 80 organization's policies, procedures, and practices as they relate to the 81 value and importance of safety within the organization (Griffin & Neal, 82 83 2000; Zohar, 2011). In the original paper on safety climate, Zohar 84 (1980) points to the informative function of the concept regarding the 85 relative importance or priority of safety versus productivity at the work-86 place. The majority of the safety climate literature focuses on its relation 87 to health and safety behaviors that maintain *physical* health and safety in the workplace. In the health care industry, these physical safety be-88 89 haviors could include using lifting equipment or adhering to regulations for pushing and pulling. 90

Following a recent literature stream on safety climate (e.g., Dollard Bakker, 2010; Law, Dollard, Tuckey, & Dormann, 2011; Idris, Dollard, Coward, & Dormann, 2012; Dollard, Tuckey, & Dormann, 2012; Garrick et al., 2014), we chose to not only examine physical safety climate and behavior but also to include psychosocial safety in our research.

97 Psychosocial safety climate highlights the value and importance 98 of psychosocial health and safety within the organization (Dollard & Bakker, 2010). Psychosocial safety relates to freedom from psycholog-99 ical and social risk or harm, such as aggression and violence, bullying, 100 or high work pressure. Previous research has proved its conceptual 101 distinctiveness from related concepts such as (physical) safety climate 102103 and perceived organizational support (Idris et al., 2012). Despite its long and important history in relation to worker physical health, the 104 safety climate construct has not been used extensively to assess or pro-105mote psychosocial safety (Dollard & Karasek, 2010). Furthermore, 106 107 there are only few studies to date that include both physical and psy-108 chosocial safety climate (e.g., Idris et al., 2012) and there is no research 109that investigates psychosocial safety behavior. In line with the concept of physical safety behavior (Griffin & Neal, 2000), psychosocial safety 110 behavior refers to activities that are carried out by employees to main-111 112 tain their own workplace psychological safety or help to develop an 113 environment that support psychosocial safety. This could include starting an incident reporting procedure, visiting a counselor or sup-114 port group, and organizing or planning work in a different way to 115reduce work stress. In the following sections, we will elaborate on 116 117 the proposed relationships between demands and resources, safety climate, and safety behavior for both the physical and psychosocial 118 domain. 119

120 2.2. Job demands, job resources, and safety behavior

In their model of safety behavior, Griffin and Neal (2000) and Neal & 121 Griffin (2006) make a distinction between two types of individual be-122havior: safety compliance and safety participation. Safety compliance 123describes the core activities that need to be carried out by employees 124125to maintain workplace safety (e.g., using patient lifting devises or ad-126hering to incident reporting procedures). Safety participation refers to behaviors that do not directly contribute to an individual's personal 127safety, but which do help to develop an environment that supports 128safety (e.g., addressing physically dangerous behavior or offering a 129130listening ear to co-workers). Job demands and resources influence the occurrence of these safety behaviors through two processes. 131

First, the JD-R model states that a health-impairment process takes 132 place wherein job demands lead to the exhaustion of mental and phys-133 ical resources (Bakker & Demerouti, 2007). In these situations, em-134ployees use performance-protection strategies to maintain performance 135(Hockey, 1997). They look for less effortful ways to deal with goals they 04 accord lower priority, such as those related to safety (Hansez & Chmiel, 05 2012). Employees subject to high work pressure will be less inclined to 138 139 use safety equipment (physical safety) or start an incident reporting procedure for aggression or violence (psychological safety). Mullen140(2004) found that performance pressure was an important factor that141influences safety behavior at work, because pressured individuals tend142to value performance over safety. Other previous research supports the143negative relationship between job demands and safety behavior as wellQ6(Hansez & Chmiel, 2012; Nahrgang et al., 2010). Thus, we argue thatQ7job demands will lead to less physical and psychosocial safety behavior146among employees.147

H1a. Job demands are negatively related to physical safety behavior. 148

H1b. Job demands are negatively related to psychosocial safety behavior. $\ensuremath{^{149}}$

The second process is a motivational process whereby job resources 151 are instrumental in achieving work goals. Job resources offer energy 152 that fosters the willingness to dedicate one's effort and abilities to 153 work tasks (Bakker & Demerouti, 2007). This means that in the context 154 of safety, job resources give employees the power to focus their efforts 155 toward working safely and maintaining safety in the workplace. Employees with high job resources will be motivated to regularly check if 157 they do not exceed the physical workload limits (physical safety) or adjust their work schedule when they feel stressed (psychological safety). 159 We therefore hypothesize the following: 160

H2a. Job resources are positively related to physical safety behavior.

H2b. Job resources are positively related to psychosocial safety behavior. 162

2.3. Safety climate and safety behavior

One of the key features of safety climate is that it informs employees 164 about the real priority of safety (Zohar, 2014). The relative importance Q8 of safety versus other organizational goals (most often productivity) 166 shows the extent to which safety compliant or enhancing behavior is 167 supported and rewarded at the workplace (Zohar, 2000). A positive Q9 safety climate will therefore increase the frequency of safety behavior 169 among employees exposed to physical or psychosocial strain. In a health 170 care context, this could occur when top management shows safety is a 171 priority within the organization by investing in new height adjustable 172 desks for polyclinic workers. Investment in employee health and safety 173 foster shared perceptions of an organization's priorities with respect to 174 employee well-being (Mearns, Hope, Ford, & Tetrick, 2010). Employees 175 will then act according to the perceived priority within the organization 176 by behaving safely (e.g., regularly adjusting their seats and desks to the 177 appropriate height). Extensive empirical evidence exists on the rela- 178 tionship between physical safety climate and physical safety. Recent 179 meta-analyses demonstrate that safety climate is related to safety be- 180 havior, either direct (Clarke, 2010; Nahrgang et al., 2011) or indirect Q10 through safety knowledge and safety motivation (Christian et al., 182 2009). The relationship between psychosocial safety climate and psycho-183 social safety behavior is, however, still unclear. We expect that, similar 184 to physical safety climate, psychosocial safety climate will inform em- 185 ployees on the priority of psychological safety at the workplace. As a re- 186 sult, employees will develop compatibly adjusted behavior. This leads to 187 the following two hypotheses: 188

H3a. Physical safety climate is positively related to physical safety behavior. 189

H3b. Psychosocial safety climate is positively related to psychosocial safety 190 behavior. 191

2.4. Safety climate as moderator in the JD-R model

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Additionally, we expect that safety climate will moderate the rela- 193 tionship between job demands and safety behavior. We expect this for 194

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