



Short Communication

Managing resources and need for cognition: Impact on depressed mood at work

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ABSTRACT

Conservation of resources (COR) theory posits that people strive to retain and protect valued resources and that multiple resources are preferred to aid coping (Hobfoll & Shirom, 2000). I examine the interaction of two resources – need for cognition (NFC) and ability to manage resources – and their interactive effects on depressed mood at work (DMW). Results support my predictions that individuals high in both (NFC and ability to manage resources) reported lower levels of DMW. I discuss the strengths, limitations, and directions for future research.

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1. Introduction

Stress is the most common reason US workers quit (Leading productivity killers in today's market: Overwork, stress, 2008), with stress often leading to mental health problems accounting for 47% of long-term workplace absences (O'Reilly, 2008). Individuals differ in ability to manage inevitable workplace stressors. This research identifies individual differences in coping and discusses ways to aid coping. Conservation of resources (COR) theory integrates several stress theories (Hobfoll, 1989) and provides a framework for understanding stress through resource management. Psychological stress is a reaction to threats, actual loss, or a lack of gain following investment of resources (Hobfoll, 1989). Once stressors are identified, individuals strive to restore equilibrium (Aspinwall & Taylor, 1997) and aim to retain, protect, and build resources (Hobfoll, 1989). Multiple resources are preferred since "single resources, even if strong, may be insufficient to cope with real-life stressors" (Hobfoll & Shirom, 2000).

Belongings, for example, are valued because of their physical nature and the status they symbolize (Hobfoll, 1989). Other resources include characteristics (e.g., self-esteem), conditions (e.g., tenure), and energies to aid the attainment of other resources (Hobfoll, 1989). Hence, individuals are not equally capable of acquiring resources. Of particular interest is one's ability to conserve and manage resources at work, as well as differences in need for cognition (NFC). NFC is a stable individual difference (Cacioppo & Petty, 1982) in one's tendency to enjoy effortful cognitive activity. The current research will investigate how NFC and ability to manage resources interact to mitigate depressed mood at work (DMW).

1.1. Ability to manage resources

Research has shown that individuals differ in their ability to manage resources (Hochwarter, Perrewé, Meurs, & Kacmar, 2007). Hobfoll (2001) explains that resource utilization may include optimization strategies (Baltes & Baltes, 1990; Baltes, 1997), compensation strategies, or proactive coping. If a worker suffers an injury (e.g., resource loss), they may optimize other resources by rearranging workstations, using a cane, or seeking assistance. Hochwarter's measure, developed based on COR theory, focuses on ability to manage one's workplace through variations in exertion, respite, utilization of equipment/personnel, and assistance (Hochwarter, Laird, & Brouer, 2008). Hobfoll (2001) conceptualized work resources as *having* the tools whereas Hochwarter et al. (2007) operationalized it as *ability* to manage or mobilize resources.

This ability is associated with increased satisfaction and well being (Hochwarter et al., 2007; Thompson & Prottas, 2005) shown to mitigate the traumatic effects of hurricane induced stress (Hochwarter et al., 2008). This ability minimized the effects of work-induced guilt (Hochwarter et al., 2007) and buffered against the stressor of accountability (Zellars, Hochwarter, Lanovich, Perrewé, & Ferris, 2011). However, the current research is also concerned with a second individual difference variable – NFC.

1.2. Need for cognition

Individuals differ in terms of cognitive motivation to engage in and enjoy information processing (Cacioppo & Petty, 1982) – repeated or prolonged problem solving (Cacioppo, Petty, Kao, & Rodriguez, 1986). Persons high in NFC make sense of relationships and events by acquiring information and reflecting. They differ in

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the acquisition and processing of information (Cacioppo, Petty, Feinstein, & Jarvis, 1996) and enjoy learning new ways of thinking about problems; persons low in NFC are cognitive misers (Cacioppo et al., 1986). NFC correlates with academic performance ($r_{ave} = 0.26$), argued to covary because cognitive motivation is related to (not redundant with) intellectual ability (Cacioppo et al., 1996). NFC has received significant attention in the social sciences as evident by a literature review of over 100 studies (Cacioppo et al., 1996), with research conducted primarily among undergraduates, in experimental designs, and with community residents about policy issues.

A few workplace studies illustrate that persons high in NFC are more likely to report higher performance (Deeter-Schmelz & Sojka, 2007) as well as higher average sales (Sojka & Deeter-Schmelz, 2008), pointing to the benefits of NFC, even in roles that rely on relationships. Kearney, Gerbert, and Voelpel (2009) found that NFC moderated the relationship between team diversity and performance such that NFC enhanced the team's ability to elaborate on task-relevant information (minimizing tendencies to rely on more simple cues, heuristics, or stereotypes by processing a broader range of information). Persons low in NFC likely found team endeavors frustrating (Kearney et al., 2009).

NFC is defined as a cognitive motivation and behavioral tendency rather than pure intellectual capacity (Cacioppo & Petty, 1982). Interestingly, Hobfoll (2002) believes information processing to be costly, and that arousal can tax cognitive resources (Keinan, Friedland, Kahneman, & Roth, 1999). Furthermore, "those who possess resources are more capable of solving the problems inherent in stressful circumstances. . . circumstances can be seen as a life puzzle that must be unraveled. If they have more resources, people are more likely to have either the specific resources needed to fit demands or resources that can provide them access to the (appropriate) resources" (Hobfoll, 2002; 318). As such, NFC may also be considered a resource.

I argue that when individuals have ability to manage resources and enjoy analyzing situations, information processing is less taxing. Individuals with high NFC are more likely to enjoy and engage in effortful problem-solving activities without feeling drained; hence, when combined with the confidence to manage one's workplace resources, this should lead to enhanced outcomes in the form of lower DMW.

DMW is a general feeling of despair, correlated with irritability, low energy, decreased work interest, and decreased sense of usefulness (Quinn & Sheppard, 1974). Antecedents to DMW include role strain (Beehr, 1976), role overload (Beehr, 1981), interpersonal conflict (Heinisch & Jex, 1997), and lack of job control (Erickson & Wharton, 1997). Examining DMW is particularly important for organizational researchers given the long-term consequences: lower performance, fewer citizenship behaviors, burnout, and turnover (Stoner & Perrewé, 2006). Hobfoll (2002) argued that psychological resources give individuals a sense of resiliency over their environment. I argue that ability to manage resources and high NFC will lower levels of DMW.

Hypothesis 1: NFC moderates the relationship between ability to manage resources and DMW relationship, such that the negative relationship between ability to manage resources and DMW will be stronger when NFC is higher.

2. Method

2.1. Sample

Antecedents were collected at Time 1, outcomes at Time 2, approximately 1 month later, to minimize priming. (Priming is a risk since "ability to manage resources" contains language about

stressful workplaces.) <http://www.Qualtrics.com> software was used employing forced-choice responses. Hence, 382 potential respondents began the survey, 286 completed Time 1, and 213 adults responded to all survey items in Time 2 (for a response rate of 56%). Most (90%) were working full-time; 43% men; average age 40 years ($SD = 13.4$). Race was primarily white (78%), with some Hispanics (8%) and African Americans (7%). Most had at least some college (37%) or graduated with undergraduate degrees (34%). Organizational tenure was 7.5 years ($SD = 8.9$). Of the 73 who completed T1 not T2, respondents were younger (average age = 34 years; $SD = 13.5$). SAS sample selection bias analysis revealed that attrition was not missing at random (NMAR). However, the interaction term was still significant and in the hypothesized direction, as reported below.

I recruited respondents with assistance of undergraduates attending university in the Southeastern US. Students emailed links to family/friends working full-time. This snowball data collection (Treadway et al., 2005) attempts to increase generalizability across multiple contexts (Hochwarter et al., 2007).

2.2. Measures – Antecedents (Time 1)

2.2.1. Ability to manage resources

Ability to manage resources is a 6-item measure (Hochwarter et al., 2007), 1 to 5 scale, with 1 representing "strongly disagree" and 5 "strongly agree". Sample items are, "When work is stressful, I am able to conserve my energy" and "I can change my behavior at work to make sure I don't run on an empty tank" ($\alpha = .76$).

2.2.2. Need for cognition (NFC)

NFC is an 18-item measure (Cacioppo, Petty, & Kao, 1984) (same 1 to 5 scale). Items include, "I would prefer complex to simple problems" and "I really enjoy a task that involves coming up with new solutions to problems" ($\alpha = .83$).

2.3. Measures – Outcomes (Time 2)

2.3.1. Depressed mood at work (DMW)

DMW is a 10-item measure (Quinn & Sheppard, 1974), 1 to 4 scale, with 1 representing "never" and 4 "often" feel this way when thinking about work. Items include "I feel downhearted and blue at work" and "I find myself restless and can't keep still at work" ($\alpha = .87$).

2.3.2. Age (control variable)

Age is likely to influence one's ability to acquire resources, as well as likelihood of having had time to acquire resources

2.4. Analysis

A four step moderated hierarchical regression was conducted (Cohen & Cohen, 1983). First, age was entered into the equation. Second, the centered main effect of ability to manage resources was entered. Next, the centered main effect of NFC and then the centered interaction term (ability to manage resources \times NFC) was entered.

3. Results

Means, standard deviations, and bi-variate correlations are in Table 1. Ability to manage resources was negatively related to DMW ($r = -.28, p < .01$). NFC was negatively related to DMW ($r = -.15, p < .05$), consistent with prior research correlating NFC with stress outcomes (Cacioppo et al., 1996). Age was negatively related to DMW ($r = -.22, p < .01$).

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