ANTONOVSKY’S SENSE OF COHERENCE AND JOB SATISFACTION:
META-ANALYSES OF SOUTH AFRICAN DATA

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ABSTRACT
Data on the relationship between sense of coherence (SOC) and job satisfaction (JS) were collected from published sources, unpublished theses and unpublished reports. Twenty-four data sets using the SOC long form and 13 sets using the short form were found. Neither the form of SOC nor the type of JS measure moderated the relation. SOC accounted for approximately 18% of the variance in JS. Approximately 10% of the between-study variance was due to real differences in effect size. Correcting for measurement error, SOC accounted for approximately 25% of the variance in JS, and real differences in effect size accounted for less than 1% of the between-study variance.

INTRODUCTION
In a theory that would describe how people manage stress and stay well, Antonovsky’s (1979, 1987) core construct was the sense of coherence (SOC), a dispositional orientation that is presumed to engender, sustain and enhance health, as well as to engender strength at other endpoints, such as work. It is a way-of-seeing-the-world which mitigates life stress by affecting the overall quality of stimuli that impact on the individual. The stimuli are perceived as comprehensible, i.e. making cognitive sense; as being manageable, under the individual’s own control, as well as that of legitimate others (e.g. spouse, friends, formal authorities, political leaders, spiritual figures, but also systems such as a labour union, a medical aid programme or a pension fund); and as being motivationally meaningful, i.e. being welcome challenges worthy of engaging with and investing oneself in (Antonovsky, 1987, 1993). To someone with a weak SOC, the world could seem incomprehensible, hostile and absurd. SOC is presumed to be a product of idiosyncratic events in one’s life, but also of having grown up in a particular social structure, culture and historical period (Antonovsky, 1987).

A working person with a strong SOC will make cognitive sense of the workplace and will perceive its stimuli as clear, ordered, structured, consistent and predictable information. Such a person will perceive work as holding challenges which she or he can meet by availing both personal resources and those under the control of, for example, managers, co-workers and subordinates. In addition, such a person will make motivational sense of work demands as challenges that are worthy of engaging with and investing personal energy in.

Job satisfaction (JS) remains a popular study area in industrial psychology, possibly because of the theoretical and practical attractiveness of a causal link between happiness on the job and improved job performance. Much research has focused on the relation between job conditions and JS, but recently there has been increased interest in the relations between dispositional variables and JS. Research shows that personality variables may influence JS: persons with stable positive core self-evaluations appear to be more satisfied with their jobs than people with negative core self-evaluations (Judge & Hurst, 2007).

On theoretical grounds it seems likely that an individual with a strong SOC would experience high JS. Individuals high on SOC are likely to see the tasks put to them as challenges, to impose structure on the tasks and to search for appropriate resources (Antonovsky, 1987), which may enable them to find or create fulfilling and challenging job environments and to attract social support. In contrast, individuals low on SOC are more likely to see the tasks put to them as incomprehensible and potential sources of failure, which may lead them to become uncommitted, to gravitate to repetitive and uninspiring job environments, and to become alienated.

However, the relationship between SOC and work is likely to be bi-directional and work experiences could also, over time, strengthen or weaken the SOC, since it is not a fixed quantity. Long-lasting, severe and unpredictable stressors could produce experiences that negate one or more of the components of the SOC. When work experiences seldom call on one’s abilities to actualise potential, one is unlikely to have confidence that the world is manageable; and incomprehensible, hostile experiences in a work context could undermine comprehensibility.

Antonovsky (1987) published a 29-item measure, referred to as the SOC-29, under the title of Orientation to Life Questionnaire. A 13-item short form, the SOC-13, was also indicated there. The SOC scale has been used in research in the world of work, mainly in the context of job stress (e.g. Albertsen, Nielsen & Borg, 2001; Feldt, 1997; Feldt, Kinnunen & Mauno, 2000; Kalimo, Pakkinen, Mutanen & Toppinen-Tanner, 2003; Kivimäki, Kalimo, & Toppinen, 1998; Shi, 1998; Söderfeldt, Söderfeldt, Ohlson, Theorell & Jones, 2000). The theoretical link between SOC and JS has received relatively little research attention. A quantitative synthesis of the results of several completed studies will give a more accurate picture of the relationship than any individual study. Moreover, such a synthesis will allow for the examination of whether the form of the SOC (SOC-29 vs SOC-13) moderates the strength of the relation between the two variables. Against this background we examined the strength of the relation between SOC and JS by performing meta-analyses on South African data. We hypothesised (i) that SOC is positively correlated with JS, (ii) that the form of the SOC (SOC-29 vs SOC-13) moderates the strength of the relation between SOC and JS, and (iii)
that the type of JS measure (global vs composite) moderates the strength of this relationship.

RESEARCH DESIGN

Research approach

This study is a quantitative meta-analysis with the aim of synthesising the results of South African research on the relation between SOC and JS.

Research method

The most important sources of data were unpublished honours degree research reports, masters and doctoral theses and dissertations; known South African academics working in the area of SOC were contacted personally in this connection too. The (South African) Journal of Industrial Psychology was searched by hand for articles on SOC and JS, from 1987 (when the SOC scale was published) to date. The South African Journal of Psychology, searched by hand, only produced articles by Strümpfer et al.

Sets of unpublished data were also included. A diversity of samples resulted from these sources. Ten sets of data using the SOC-13 and 23 that used the SOC-29 were found. (An appendix containing all the data collected, another listing the sources of data, and a third indicating the classification of JS forms, are available from the second author.)

A diversity of measures of JS appeared in the data pool. For present purposes, the classification was as follows, although the distinction was not always clear-cut. A ‘global’ measure refers to general satisfaction/dissatisfaction with the job and contained two or a small number of declarative statements; the items were variations in wording of the same idea. A ‘global general’ measure is a variant where items were single adjectives or short phrases from which a variable number of items could be chosen by a respondent. ‘Composite’ measures consist of multiple items that provide, to a greater or lesser extent, coverage of various facets of satisfaction with different aspects of the job; in the present case, the number of items per scale varied between five and 100.

RESULTS

Meta-analysis was conducted with the Comprehensive Meta-Analysis Version 2 software (Borenstein, Hedges, Higgins & Rothstein, 2006). Using a random effects model, the overall weighted mean correlation between SOC and JS across the 33 studies was -0.31 (95% CI: -0.39; -0.23). Across the full set of studies the null hypothesis of a homogenous effect size was rejected (Q = 54.54, df = 32, p = 0.008). Real differences in effect sizes accounted for approximately 41% of the variance in the observed correlations. We tested for the potential moderating effect of the type of JS measure (global vs composite) and type of job, personality variables (e.g. conscientiousness, agreeableness and emotional stability) and background variables (e.g. gender, race and culture). These variables could be the focus of further studies.

A large number of potentially interesting moderators of the relationship between SOC and JS were not examined in this study, including job conditions (e.g. workload, autonomy, salary and type of job), personality variables (e.g. conscientiousness, agreeableness and emotional stability) and background variables (e.g. gender, race and culture). These variables could be the focus of further studies.

A question remains: to what extent is the SOC–JS relationship bi-directionally causal or due to the role of third variables? The role of, for instance, involvement in culturally valued enterprises (Antonovsky, 1987), job decision latitude (e.g. Karasek et al., 1998; Karasek & Theorell, 1990) and job security/insurfgency (Feldt et al., 2001) could be considered in this context.

REFERENCES


