The "Recursive Cosmosis" Model: South African Women in Higher Education Finding Strength and Resilience

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Abstract

This study investigates how the concepts sense of coherence and spirituality are inter-related and contribute to the health and wellbeing of 13 women working in South African higher education institutions. Drawing from Antonovsky's work on salutogenesis data are analyzed in terms of three sub-components, namely, manageability, comprehensibility, and meaningfulness. Interview data on manageability point to an action component where the pursuit of work-life balance is uniquely experienced by women, not only as a challenge, but is also actively pursued as a strength resource. On comprehensibility, the data captured women's attitudes in terms of being realistic and understanding of others and of the work context. The data show that women rely most on meaningfulness as a coping resource wheather they are speaking of their life orientation (SOC) or their spiritual orientation. Spirituality in this study is connected foremost to transpersonality. A connection between women's spirituality and their sense of coherence, is made by positing that combined, they serve as a coping and wellbeing resource in the work place. A "recursive cosmosis model" is then offered to illustrate the key salutogenic and spiritual strength resources used by women leaders in this study.

Introduction

Due to the psycho-social impact women have in the family system and in society, their wellbeing remains an area of research interest. In addition, with the increasing number of women entering senior management and executive roles (Eagly & Carli, 2003; Löve, Hagberg & Dellve, 2011; Van Wyk, 2012) research highlighting the unique challenges women leaders face, continues to grow (Chisholm, 2001; Geisler, 2000; Gouws, 2008; Littrell & Nkomo, 2005; Martin & Barnard, 2013; Streibel, *et al.*, 2006; Teferra & Altbach, 2004). In the work context, research shows that women leaders are often subjected to discrimination, stereotyping and exclusion in subtle and overt ways (Baxter, 2012; Person, 2003). From a positive psychology perspective, some contemporary research highlights the strength and resilience of women in coping with the unique work challenges they face (Booysen & Nkomo, 2010; Martin & Barnard, 2013; Mdlongwa, 2014).

Recent research in South Africa has shown that the concepts sense of coherence (SOC) (Mayer, 2011) and spirituality (Honiball, Geldenhuys & Mayer, 2014; Mayer & Viviers, 2014) contribute to positive health and well-being in individuals in leadership

positions. However, these mental health constructs have received little attention in women in the South African work context (Desjarlais, Eisenberg, Good, & Kleinman, 1995; Mayer & Surtee, 2015). The research reported on in this chapter addresses SOC and spirituality in women leaders in higher education to fill the stated research gap. Next we provide a theoretical background, research aims and questions, and a discussion of the findings.

Sense of coherence

The past decades have seen a strong shift from a pathological perspective on health to a salutogenetic perspective. Salutogenesis deals with the question of what keeps people healthy and refers to psychological health as a ranging continuum between optimal health and ill health (Antonovsky, 1987). Aaron Antonovsky, a pioneer in salutogenesis coined the construct of SOC, which is defined as a universal life orientation that enables individuals and groups to cope with life's challenges. SOC comprises three components: comprehensibility (the way people understand the world and make sense of it), manageability (the belief that ones own resources meet the demands of life) and meaningfulness (the extent to which one believes that life's challenges are worth engaging in). Research on the health promoting benefits of having a strong SOC has been explored in various work and life settings (Mayer, 2011; Mayer & Van Zyl, 2013).

Spirituality

Spirituality is defined as the subjective experience of being connected to the universe and a greater being, and also being connected to oneself and others (Krishnakumar & Neck, 2002). Spirituality is, in this way, viewed as an experienced realization of a transcendent reality (Ferrer, 2002). It is an intuitive feeling of being connected with the world (Eckersley, 2007) and is a part of everyday life. Recently spirituality at work has been emphasized as a potential health resource (Mayer & Geldenhuys, 2014) and its value has been highlighted in various work and organisational settings (Honiball *et al.*, 2014; Mayer & Zouta, 2014; Mayer & Boness, 2011). The significance of spirituality with regard to mental health has been reported (Grossman *et al.* 2004) and it has been shown in previous research that spirituality moderates the relationship between stress and wellbeing (Kim & Seidlitz, 2002). It also contributes significantly to social connection (Saxana *et al.*, 2002).

Connecting sense of cohernece and spirituality

Both SOC and spirituality positively affect wellbeing and stress management (Mayer, 2011) and promote leaders' health and wellbeing (Honiball, *et al.*, 2014). According to Barnard, Peters & Muller (2010), individuals with a strong SOC are resourceful, perseverant in challenging situations and can exercise control. They also seem to have awareness on the meaningfulness of their life (Mayer, 2011) and meaningfulness has been connected with spirituality (Henderson *et al.*, 2012). Previous studies have shown that

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the interconnection of SOC and spirituality needs further exploration (De Klerk, 2005; Mayer & Viviers, 2014).

The purpose, objectives and research question

Temane and Wissing (2006) point out that spirituality and psychological wellbeing need to be understood *contextually* as spiritual beliefs and practices vary. This is supported by Mayer and Viviers (2014), who highlight that spirituality and mental health concepts are interrelated with culture. This chapter addresses the research question "what are the strength and resilience resources of women leaders in higher education by drawing on an integrated salutogenic and spiritual perspective"? It expands our research on salutogenesis and spirituality by providing gender and context-specific insights on strength and resilience as reflected on from a psycho-spiritual perspective (see Mayer, Barnard, Surtee, 2015)1. The results of this research contribute to knowledge on women in leadership and inform the direction for future gender-based research on psychological wellbeing.

Method

Research design and procedure

We applied a constructivist grounded theory (GT) methodology adopting an inter-

Main themes were construed from the data based on an abductive reasoning1 appretative understanding of human experience as co-constructed by the inquirer and participants whilst using the original GT analytic strategies of coding and memoing. proach. As such our interpretations are explicitly directed by our preconceived meta-theoretical interest in SOC and spirituality and are presented as a plausible model Sampling and participants presenting the key salutogenic and spiritual strength resources women leaders in higher This study forms part of a larger study on women and psychological and spiritual education (HE) draw on to cope with and resile in their work context. Although meanwellbeing in which 29 women participated. For the purposes of the current study we ingfulness is one of the three SOC sub-components it is also central to conceptualidrew a purposeful sample of 13 women from the 29 who adhered to the sampling critesations of spirituality. For the participants of this study, it provides a conceptual link ria of being in middle to senior leadership roles, working permanently in South African between SOC and spirituality. Meaningfulness is thus hypothesised as the central thehigher education institutions. Women leaders included, were either in support services oretical construct in the proposed model depicting a psycho-spiritual wellbeing frameor in academic positions. The sample included due to self-description two African womwork for women leaders in HEI's. The findings and model, which we have creatively laen, three women of coloured origin, three Indian and five white women. belled the "recursive cosmosis" model are explained below.

Data collection and analysis

Data were gathered through semi-structured interviews and analysed through a con-In terms of *manageability*, the instrumental SOC sub-component, we explored the structivist GT approach (Charmaz, 2011). The researchers followed an abductive readata for *action* strategies strengthening participants' resilience at work. In describing soning approach and planned interview questions around the meta-constructs predetertheir life-orientation, ten women's narratives portrayed an action component representmined by our psycho-spiritual research interest. The interviews focused on exploring ed by a constant endeavour to manage balancing their work and life roles. Participants women's SOC by asking questions, such as "Please describe your orientation in life.", commented on their commitment to actively engage in strategies on a daily basis, aimed "Which aspects make your life meaningful?" or "How are meaningfulness in your life at integrating their social and family roles with their responsibilities as leaders at work. and you being a woman working in higher education interlinked?" The interviews also I7 for example responds: "I also try to keep a balance between work and home. You get probed spirituality through asking questions, such as "Please describe the meaning of spirituality to you.", "How does your spirituality influence your leadership practices?" ¹Abductive reasoning moves grounded theory beyond a purely inductive approach and acknowledgand "How does spirituality influence your wellbeing?" es the need to scrutinize research findings against possible theoretical explanations, concluding with a

During data analysis new meanings emerged through constant comparison of emergent themes and meta-theoretical constructs. Interviews were added one by one to the analysis after completion of the first interview's line-by-line analysis and labelling of codes. Memos were constructed during the course of the analysis to enhance meaning making in the construction of categories of codes and ultimately in the identification and explication of three primary themes, which were reconstructed in a conceptual psycho-spiritual model, coined the "recursive cosmosis" model. The model proposes an integrative understanding of the strengths and resilience of women leaders in higher education.

Quality criteria and ethical considerations

Voluntary informed consent was obtained from all participants. During interviews the participant and researcher's roles were demarcated, and strategies to ensure anonymity, confidentiality and freedom to withdraw, were discussed. Through the iterative GT strategy of constant comparison and through intersubjective validation shared amongst the three researchers we strived to attain rigour in data interpretation.

Results

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plausible and creative explanation of the data (Charmaz, 2011).

to the point where you think everybody wants to have a piece of you. I try to make sure I've got the home life, the work life...on all levels, you know, the day to day side, the emotional side, the work side, and then the spiritual side as well " and I14: "I'm the director ... and I'm a mother and a wife and a daughter and I'm a sister. ... For me it was about trying to get the balance right." To them, such actions not only help them to cope with dual and sometimes conflicting roles and responsibilities, but enriches their lives as reflected by I13's story:

Sometimes you find you are pulled in different ways ... but I'm not saying it's not a good thing. Sometimes the one enriches the other. I get to work before eight and I can actually work through most of the day. But I'm able to finish at half past three or four o' clock, pick up the children, spend a bit of time with them, and then if I need to pick up some more work later on in the evening, then I can do so... I can be a career woman as well as a mother and a wife as well...

Similar to Franks et al. (2006), Watts (2009) and Martin and Barnard (2013) we found that work-life balance is thus uniquely experienced by women not only as a challenge, but it is in fact *actively* pursued by them as a strength resource.

Scrutinising the data for aspects of *comprehensibility*, the cognitive SOC sub-component, nine statements in the data reflect women's attitudes in terms of being realistic and understanding of others and of the work context: "I can't always expect to be understood and what works better is you try to understand others" (I29). These attitudes are of particular concern for women in their life orientation because they enable coping with external demands and problems to be solved.

In terms of *meaningfulness*, various participants mentioned particular values, such as integrity (two indications), justice, fairness and equity (one indication each) and outer appearance (one indication) as contributing to their life orientation as a leader. These values seem to present the women with meaning in their work and they derive a motivational drive in applying a value-driven life orientation. I15 said, "I enjoy life, I'm enjoying my work. I find things to do that make my work exciting". Similarly I21 engages in her work because she derives meaning from it: "When that underprivileged child coming through my classroom for the first time... and they finish their programmes, I can look back and say I've made a difference in that person's life". I27 also reported: "I find it very meaningful to do research and to use my research and to apply it". I14 regards her work as "a very stimulating part and very important part of what I do. It gives me purpose". From the data, the significance of meaningfulness superseded the other SOC components and became a central focus in our findings.

Meaningfulness

Women leaders comment with regard to the meaningfulness in their lives that their relationships (twenty statements) mainly contribute to their meaningfulness, followed by their self-orientation (18 statements), a transpersonal orientation (three statements) and task-orientation (one statement).

Women mainly derive meaning through their connection to others, as is evident in narratives about their work with students, how they contribute to other people's wellbeing and obtaining mutual understanding among peers and colleagues. I18, for example, finds meaning in her social connection with other black women and in striving to empower others through her own experiences: "It's important to ensure that women in this world get educated, (...) As black women we understand the concept of making sure that other black women are looked after".

Second, meaningfulness is created through a self-orientation in terms of academic achievements, personal growth, feeling stimulated, self-actualization and passion in terms of loving what they do, as noted by I13: "I find it very stimulating to listen to their discussions. My contribution is limited at the moment, but I find it a growing experience and I find it very stimulating". Women, also in particular connected meaningfulness to spirituality and their transpersonal experiences in terms of a connection to God (for two women) and hearing of an inner calling (for one woman). One woman highlights that "making things run smoothly" in terms of the task she has to complete contributes to her meaningfulness (i.e task orientation).

Psychological meaning in the workplace is defined as the meaning or the significance of work and has been positively related to work-related wellbeing (Rothmann & Hamukang'andu, 2013) and engaged employee behaviour (Swart & Rothmann, 2012; Van Zyl, Deacon & Rothmann, 2010). Lethborg, Aranda, Bloch and Kissane (2006) emphasize the importance of meaning-based coping. Our findings show that a relational orientation is unique to understanding women's sense of meaning – a relational orientation to others, to the self, to a higher being and to the task. Meaningfulness thus construed, broadens our understanding of women's salutogenic functioning to emphasise the unique importance of women's need for a relational orientation promoting meaning in their work lives. Women in this study, not only construed meaningfulness as such, we also found it to be fundamentally imbedded in their spiritual orientation, as is reflected below.

Spirituality

Spirituality is for women leaders foremost connected to transpersonality (33 statements) in which women describe their personal strength with spiritual connotations such as being beyond religion and every day activities, being a connection to the higher self, the proximity to God and being part of the creation: "For me it's about the God that I believe in on a daily basis, it's about loving the people that I believe God has placed in my path – colleagues, students, and actually showing them the values" (I21). It is further on mentioned in terms of the relationship to the supernatural, a concept that moves beyond "doing things", a belief independent of institutions and a "guiding light". Moving from such a transpersonal orientation, 23 statements relate spirituality on an individual basis to a personal *inner connection* in terms of identity and knowing who

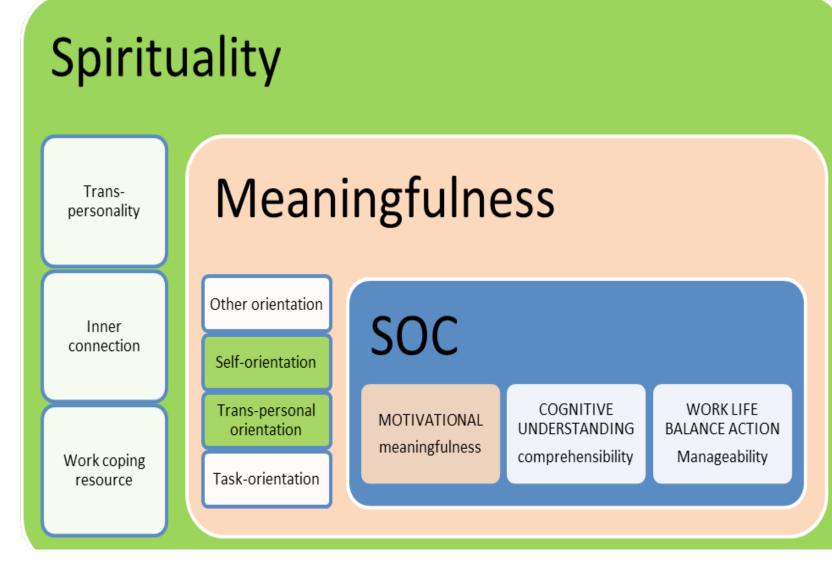
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Mayer - 385 you are, inner peace, inner balance, being in a good place and happiness, motivation and a tap into the soul. Additionally, spirituality is viewed as impacting on the inner value as an ultimate conclusion. system, as well as concrete personal values, such as respect, love and dignity, quality, In the proposed recursive "cosmosis" model illustrated in figure 1 below, meaningfulfreedom. The inner-connection and transpersonal orientation here, link back to the selfness as a central theoretical construct (compare Mayer et al., 2015) links the spiritual and transpersonal orientation, which were evident in our construction of meaningfulness and salutogenic perspectives as a framework for understanding women leaders' strength above. and resilience, acting as the analogous "cosmic glue". According to the Oxford English Dictionary (2010, p.526) osmosis refers to the process in which solvent molecules spon-In exploring how women's spirituality and leadership are interconnected it became taneously move through a membrane from high to low concentration, which tends to clear that their spirituality influences leadership in terms of social, spiritual and indiequalize the degree of solvent concentration on either side. Semantically playing with vidual aspects, primarily becoming a *coping and wellbeing resource* in the work place. the words *cosmic glue* and *osmosis* lead to labelling the model the "*recursive*² *cosmosis*" Women leaders apply spiritual practices in the work context in order to help them cope with daily challenges as a leader and generally to orientate their actions on a daily bamodel in which women find their strength in the workplace by iteratively or recursively sis at work as clearly articulated by I29: "... if you are in your work space and you do applying spiritual and salutogenic resources, yet meaningfulness always plays a central not have a strong spiritual being, you cannot survive". Moreover, 24 statements reflect a role either way.

positive connection between women's work-related wellbeing and their spirituality. I7's words also clearly show the manner in which spirituality becomes a coping resource in the workplace: "Spirituality always influences wellbeing. I feel as if time flows for me and I never feel like I am in a tight spot. I prefer to go with the flow and stay healthy".

Discussion

Trans-The data shows that women rely most on meaningfulness as a coping resource, personality whether they are speaking of their life orientation (SOC) or their spiritual orientation. This supports the theory that meaningfulness is the most important SOC subcompo-Other orientation SOC Inner nent (Antonovsky, 1987) and a fundamental construct of spirituality (cf. Griffiths, 2009; connection Self-orientation Krishnakumar & Neck, 2002; Rothmann & Hamukang'andu, 2013). In this study we COGNITIVE WORK LIFE Trans-personal MOTIVATIONAL orientation found meaningfulness to be the central motivational component in women's salutogenic meaningfulness comprehensibility Manageability Work coping Task-orientation resource life orientation, facilitating their coping and resilience in the work sphere. A deeper exploration of their meaningfulness revealed women's propensity to engage in a relational Figure 1 orientation to others, an inner-orientation, a transpersonal orientation and task orienta-Conclusion tion in order to derive meaning in their work and personal lives. The self- (inner-connectedness) and transpersonal orientation underlying women's meaningfulness in par-This chapter builds on our emerging psycho-spiritual perspective to the work-relatticular also emerged as an essential component in women's construction of spirituality. ed wellbeing of women leaders in HEI, highlighting the centrality of meaningfulness as Meaningfulness is thus a central construct linking women's psychological and spiritual a motivational and relational construct and proposes a unique model encapsulating this perspectives to wellbeing and coping. As an analogy, meaningfulness becomes the 'psyperspective. The small context-specific sample of the study, as well as the researchers' cho-spiritual adhesive' enabling strength and resilience in the work place. This analogy predisposition in terms of a deliberate salutogenic and spiritual theoretical perspective, derives from one participant's construction of spirituality as a universal adhesive: "Spirgenerates both limitations for generalizability, yet also opens up various possibilities ituality for me is a personal belief that there's no cosmic glue for instance, or a belief in for alternative interpretations in future research. From our psycho-spiritual perspective, God. It's independence of any institution... or divine force. My husband's terminology wellbeing interventions aimed at developing a meaningful self, other, task and transperis cosmic glue. (...) We have interesting conversations about cosmic glue and for him sonal relations in the work setting, may enhance women leaders' resilience and coping that is spirituality..." (I27). Our conclusion here is based on what we found to be a plauand positively affect their leadership capacity. sible conceptual interpretation of participants' strength resources and it is not proposed



²Synonym for iterative, meaning repeatedly or recurrent (Oxford Dictionary, 2010)

Author note

The initial findings of this research project was accepted for publication in the SA Journal of Psychiatry 2015, in which we first propose a psycho-spiritual perspective to understanding the well-being of wor in HE. This chapter is an extension of our initial findings and here we have developed a model based posed psycho-spiritual perspective. We first proposed the "recursive cosmosis model" in our presenta IACCP 2014, Reims France, where this chapter evolved from.

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