




Antecedents of psychological well-being among workers within small and medium enterprises



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Orientation: In the contemporary business environment, employee mental health is neglected, especially in mental health research and practice in African Small and Medium-sized Enterprises (SMEs). This occurs even though this sector is the largest contributor to developed economies. This study highlights the importance of psychological well-being in SME performance and the individual employee.

Research purpose: To investigate the influence of perceived organisational support, career goal development and empowering leadership on the psychological well-being of SME employees in Gauteng province, South Africa.

Motivation for the study: Despite increasing research on SMEs, few studies have investigated the impact of perceived organisational support, career goal development, and empowering leadership on psychological well-being in a Southern African context.

Research approach/design and method: This study followed a quantitative approach, using the survey methodology where a structured questionnaire was administered to 250 SME employees. To evaluate the psychometric properties of measurement scales, a confirmatory factor analysis was performed. Structural equation modelling was used to test the hypotheses.

Main findings: Perceived organisational support, career goal development and empowering leadership have a positive and significant impact on the psychological well-being of SME workers. A robust, positive and significant relationship exists between empowering leadership and psychological well-being.

Practical/managerial implications: The results indicate that SME managers in South Africa should pay more attention to, or place greater emphasis on, supporting employees in their organisations, recognising and assisting them in achieving their goals, and empowering them to be happy at work. If the psychological well-being of employees is prioritised, SME business performance will ultimately improve.

Contribution/value-add: This study contributes to the current body of Africa's industrial psychology and mental health literature – a field that has received little research attention in developing countries like South Africa.

Keywords: Mental Health; Small and Medium Enterprises; SME; Psychological Well-Being; Mental Health Research.

Introduction

In most economies, the largest contributors to economic activity are Small and Medium-sized Enterprises (SMEs) (Struwig & Lillah, 2017). Abor and quartey (2010:218) agree that 'small and medium-sized enterprises (SMEs) are a key part of emerging economies', while Gama and Geraldés (2012) point out that SMEs produce nearly two-thirds of jobs in Europe. The innovative entrepreneurial spirit of the markets is also developed by SMEs (Bishop, 2018). Globally, SMEs are the foundation of economic growth and they find themselves in a competitive environment, as they compete directly with larger entities (Bishop, 2018). In the contemporary African business environment, South African SMEs contribute up to 22% of the country's Gross Domestic Product (GDP) (Reynolds, Fourie, & Erasmus, 2019). This supports the view of various scholars (Desiree & Kengne, 2016; Mafini, Poe, & Loury-Okoumba, 2016; Mafundu & Mafini, 2019; Oyelana & Adu, 2015) that SMEs are key drivers of economic growth and job creation, as they introduce innovations to tap new markets, boost competition and efficiency across the economy, and reduce poverty and inequality. Small and medium-sized enterprises are essential in improving living standards and national stability (Cant, Wiid, & Meyer, 2016).

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Given the contribution of SMEs to the economy, it is imperative that the mental health of employees should be prioritised, as they are a critical strategic resource (Martin, Sanderson, Scott, & Brough, 2009). According to Luo et al. (2008), SME employees usually earn low wages and lack effective long-term occupational health services. Studies have shown that the mental health of SME employees is generally worse than that of the general population and those in big business (Luo, Huang, Ma, & Wang, 2012; Peng, Long, & Liang, 2012). Unfortunately, these employees' mental health is also largely neglected in occupational health research and practice (Martin et al., 2009). Zeng et al. (2014) assessed the mental health of SME employees in Guangdong, China, and explored the work environment's related physical and psychosocial factors. According to their results, 35.3% of employees had a poor sense of Psychological Well-being (PWB) – men, younger employees and migrant workers are more likely to have a poor sense of PWB (Zeng et al., 2014).

It is clear that mental health and employment in SMEs require greater attention. Globalisation and technological advancements have led to an increased demand for employment, subsequently leading to increased job strain (Ratanasiripong et al., 2016). Because mental health is frequently affected by, and has been linked to, work environment or job satisfaction, more research needs to be conducted to study employees' mental health, particularly in SMEs (Ratanasiripong et al., 2016). It is important to note that while many studies focus on SMEs (Gwena & Chinyamurindi, 2018; Mafundu & Mafini, 2019; Sitharam & Hoque, 2016; Struwig & Lillah, 2017; Wolmarans & Meintjes, 2015), very few studies address the impact of Perceived Organisational Support (POS), Career Goal Development (CGD) and Empowering Leadership (EL) on the PWB of SME employees.

Previous research in developing nations has examined SME employees in small and medium South African ventures by concentrating on the connection between flourishing at work, work commitment and 'thriving at work' (Van der Walt, 2018). Chinomona and Dhurup (2014) studied the impact of the nature of working life on representative occupation fulfilment, work responsibility and residency in Zimbabwe's SME sector. Literature on SME employees also investigates the impact of authoritative citizenship conduct and representative view of value on hierarchical duty in Zimbabwean SMEs (Chinomona, 2016). Furthermore, studies on SME workforces have also investigated the job satisfaction of SME employees in Thailand (Chaiprasit & Santidhiraku, 2011). Within a South African context, Joubert and Jonker (2009) examined emotions at work and SME client service worker well-being in Mpumalanga, South Africa.

Despite the availability of SME research, there is limited research on the background that influences PWB. The fundamental motivation behind this investigation is to fill this gap. Very few (if any) researchers have used Structural Equation Modelling (SEM) to test the causal relationships

between POS, CGD, EL and PWB. In terms of this study, this robust research model is one of a kind.

The structure of the article is as follows: firstly, a research context is provided and thereafter the theoretical grounding and empirical literature is presented, followed by a conceptual model and a hypothesis development. The research design and methodology are then presented followed by a presentation of the results and the discussions. The final sections of the article discuss the implications, limitations and future research directions.

Rationale and importance of selecting workers in small and medium-sized enterprises

Cocker, Martin, Scott, Venn and Sanderson (2013) note that there is scant SME-specific research focused on the mental health of SME employees. As a result, available resources are often informed by research carried out in large organisations and developed without evidence that mental health factors in large organisations mirror those of SMEs (Cocker et al., 2013). Martin et al. (2009) point out that SMEs provide an outstanding environment for emotional infection research, as staff are often closer to the feelings of their executives. Some PWB studies were among entrepreneurial ventures (Parasuraman, Purohit, Godshalk, & Beutell, 1996; Uy, Foo, & Song, 2013), but a search of more than 700 studies using Ryff's (1989) PWB scale found no reference to small business studies (Ryff's Scale Information Document, 2016). It can be observed from the aforementioned interpretations that SME employees are academically relevant, especially in terms of mental health research. The following section focuses on the study's theoretical framework.

Theoretical grounding

This study explores the principles of the Social Exchange Theory (SET), the lifespan motivation theory and the empowerment theory, as it relates to the constructs and the relationships proposed between the constructs. These theories are discussed in the following sections.

Social Exchange Theory

Social Exchange Theory is based on the relational process and the principle of voluntary value exchange between individuals (employer-to-employee) and organisations (business-to-business [B2B]). According to the SET, 'relationship building is based on a subjective cost-benefit analysis and options assessment' (Liu, Min, Zhai, & Smyth, 2016, p. 54; Roberts-Lombard et al., 2017, p. 2). This means that the partners in a relationship will assess the future of a relationship on the value still to be accrued from a partner (e.g. financial rewards, a partner's trustworthiness and the level of future relationship satisfaction) (Sierra & Quitty, 2005:393). In addition, Ward and Berno (2011) opine that:

[S]ocial exchange is not always based on financial rewards, although the continuation of the relationship will be based on views on the comparative costs and benefits of the relationship, experience of satisfaction and its implications for future relationship satisfaction. (p. 1557)

In this regard, the SET principle of reciprocity explains the positive effects of POS, which is one of PWB's precedents. If employees feel supported, they are likely to return the appreciation through good performance, which, in turn, raises expectations for reward (Kurtessis et al., 2017). The principle of reciprocity is also applied when it is evident that an organisation lacks support or displays abusive behaviour. Poor employee behaviour is likely to result from unfavourable treatment (Cohen-Charash & Mueller, 2007).

This study postulates that the SET is associated with POS, CGD, EL and PWB. The SET confirms that when an organisation offers tangible and intangible resources, employees will respond in kind (Blau, 1964; Saks, 2006). Perceived organisational support has conventionally been considered as a social exchange process, as it forms the basis of exchange relationships (Blau, 1964; Eisenberger, Huntington, Hutchison, & Sowa, 1986; Shantz, Alfes, & Latham, 2016). Scholars have posited that POS acts as a beneficial resource for employees (Ensher, Thomas, & Murphy, 2001), and some consider career development as a part of the SET (Shantz et al., 2016). According to Su and Swanson (2019), the SET allows for greater levels of organisational trust and identification, which can subsequently enhance employee well-being. Perceived organisational support is a central construct in the SET, and the present study aligns with the limited research available that considers conceptualised POS as an essential resource that can alleviate the negative consequences of work-related attitudes and states (Hochwarter, Witt, Treadway, & Ferris, 2006; Panaccio & Vandenberghe, 2009; Witt & Carlson, 2006).

Motivational Theory of Lifespan Development

According to Kay and Heckhausen (2015), the Motivational Theory of Lifespan Development (MTD) explains the processes through which humans optimally pursue their development goals. In addition, MTD suggests that people select targets based on opportunities and constraints to promote development across multiple domains, and preserve various objectives (Heckhausen, 1997; Heckhausen & Schulz, 1993; Heckhausen, Schulz, & Wrosch, 1998; Schulz & Heckhausen, 1996). Development is most successful when people pursue suitable goals, engage in goal-oriented efforts to pursue their goals and disengage when goals have been achieved or are no longer achievable (Kay & Heckhausen, 2015). The MTD has consequences for lifelong achievement of goals, health and well-being (Kay & Heckhausen, 2015). Shane and Heckhausen (2019), however, claim that the MTD can be applied to a work environment also. The MTD questions aspects of the working life of an individual, including how work and career goals function as development goals that structure and direct the development of individuals; how control capacities and trajectories differ across careers and career stages; and how individuals organise their control efforts to capitalise on career development. As this study investigates the impact of CGD on PWB, the MTD will serve as the theoretical lens.

Empowerment theory

Budeli (2012) states that one of the best ways to support people's interests is by applying the empowerment theory. Robbins, Chatterjee and Canda (1998) posit that empowerment aims to provide conceptualisations of social stratification and oppression to identify personal and political barriers and dynamics that maintain oppression. In addition, empowerment provides value frameworks to promote human empowerment and liberation and identifies practical strategies to overcome oppression and achieve social justice. The empowerment theory recognises conditions of inequality and injustice (Budeli, 2012) and aims to help marginalised people. Small and medium-sized enterprise employees have the power to ensure effectiveness and social justice in their lives and work environment. Applying the empowerment theory can increase employees' PWB and stimulate SME performance. If SME leaders or managers empower their employees, their employees will feel more active in their organisations and this will help improve the quality of the organisation's output.

Empirical literature

This section focuses on reviewing literature on the research variables under investigation, namely, POS, CGD, EL and PWB.

Perceived organisational support

Perceived organisational support refers to the perception of employees regarding the organisation's appreciation of their efforts and care about their well-being (Eisenberger et al., 1986), which may play a crucial role in employee readiness (Gigliotti, Vardaman, Marshall, & Gonzalez, 2019), especially during organisational change (Gigliotti et al., 2019; Vardaman, Amis, Dyson, Wright, & Randolph, 2012). Tremblay, Gaudet and Vandenberghe (2019) consider POS as a collective, commonly accepted view that the organisation supports its members. For employees, POS is expressed through payment, job enrichment, recognition and other benefits. Concern about the well-being of employees is also reflected in the offer of organisational policies and human resources practices that facilitate meeting and balancing job and external demands (Worley, Fuqua, & Hellman, 2009). Perceived organisational support meets the socio-emotional needs of the employee, contributing to organisational identification, emotional commitment (Kurtessis et al., 2017) and positive impact (Caesens, Stinglhamber, & Ohana, 2016). Prior literature on POS (Gigliotti et al., 2019; Tremblay et al., 2019) concurs that it epitomises organisations that are concerned for their employees. Other scholars (Arogundade, Arogundade, & Adebajo, 2015) posit that the personification of organisations is the result of POS. The aforementioned studies did not, however, empirically examine the impact of POS on the PWB of employees.

Career goal development

Career goal development refers to the objectives that people pursue at work. These goals include promoting, increasing pay and developing skills (Rahim & Siti-Rohaida, 2015;

Zikic & Klehe, 2006). Koekemoer (2014), however, argues that a successful career development by the employee implies that certain organisational objectives have been achieved. Career development takes the form of a lifelong career in one organisation, or a steady climb up the corporate ladder for the individual (Koekemoer, 2014). Career goal development can therefore be defined as individuals' objective or subjective perception of achievements during their work experiences, suggesting an objective and subjective dimension (Koekemoer, 2014). Some researchers postulate that traditional career development models are only marginally effective in the modern global economic context (Dean, Shogren, Wehmeyer, Almire, & Mellenbruch, 2019). Hu, Hood and Creed (2018) investigated career feedback and stress, while Dickmann and Cerdin (2018) explored career development and transfer of career capital, such as skills and connections. These studies did not, however, assess the relationship between CGD and mental health.

Empowering leadership

Empowering leadership is defined as behaviours that share power with team members, and, in turn, raise the intrinsic motivation levels of all members (Gyu-Park, Sik-Kim, Yoon, & Joo, 2017). Empowering leaders show four types of behaviours, namely, emphasising the importance of work, providing decision-making participation, fostering confidence that performance will be excellent and removing any bureaucratic constraints (Ahearne, Mathieu, & Rapp, 2005). These leadership empowerment behaviours are based on Conger and Kanungo's (1988) broad conceptualisation of empowerment. They indicate that empowerment is a process of motivation, rather than a simple delegation of power to employees. A team leader needs to help team members understand the importance of their roles, involve them in the decision-making process, believe in their ability to achieve high performance and simplify administrative rules and procedures in order to be empowered and motivated (Ahearne et al., 2005).

Previous empirical studies have shown substantial evidence of the positive relationship between EL and different team and organisational outcomes, including task performance (Vecchio, Justin, & Pearce, 2010), job satisfaction (Konczak, Stelly, & Trusty, 2000; Vecchio et al., 2010), engagement (Konczak et al., 2000) and organisational citizenship behaviour (Yun et al., 2007). Gyu-Park et al. (2017) explain that only a few studies have looked at the influence of EL on employee psychology. It is, therefore, important to understand how leaders influence the mindset and organisational behaviour of employees. Kearney, Shemla, Van Knippenberg and Scholz (2019) posited that EL leads to goal clarity in organisations but failed to address employee mental well-being, while Han, Harold and Cheong (2019) examined empowerment leadership and trust in organisations. The above-mentioned research however did not examine the influence of EL on an employee's PWB.

Psychological well-being

Psychological well-being refers to positive mental health (Edwards, 2005; Ismail & Desmukh, 2012). Farrington (2017:47) describes PWB as the 'perception of engaging with life's existential challenges', whereas Winefield, Gill, Taylor and Pilkington (2012:2) describe it as 'a combination of positive affective states such as happiness and functioning with optimal efficacy in individual and social life'. Optimum PWB levels are likely to depend on the external circumstances of an individual, as well as the resources and challenges they face (Farrington, 2017). Psychological well-being has been investigated in various organisational contexts, including employee well-being (Žižek, Treven, & Čančer, 2015), commitment (Kanten & Yesiltas, 2015) and job satisfaction (Jones, Hill, & Henn, 2015), as well as relationships between family and work (Grzywacz & Butler, 2005). It has been found that PWB is associated with positive results in terms of work performance of an employee. For instance, Wright and Cropanzano (2000) point out that PWB benefits include an increase in an individuals' cognitive functioning and health, and ultimately the happy functioning of society.

Psychological well-being is generally considered necessary for effective human functioning (Ryan & Deci, 2001). Previous literature on PWB explored workplace collegiality, such as the relationship between employees and PWB (López, Sanderman, Ranchor, & Schroevers, 2018). Hernandez et al. (2018) assessed PWB as physical health, reinforcing the notion that PWB is essential in organisations. However, these studies did not investigate the impact of POS, CGD and EL on PWB. Robertson and Cooper (2010) found that individuals with higher levels of PWB behave in ways that may lead to higher levels of workplace engagement, which, in turn, affects business success. In this context, it may be concluded that SME employees who display positive PWB are more likely to contribute to positive outcomes, like successful businesses.

Conceptual research model and hypotheses development

The relationship between the variables investigated in this study is described in a conceptual model (Maziriri, Mapuranga, & Madinga, 2018). Maziriri et al. (2018) add that a conceptual model schematic diagram helps the readers to visualise the theoretical relationships between the variables in the model and formulate a quick idea of how the problem can be solved. The conceptual model in this study indicates that the predictor variables are POS, CGD and EL. Psychological well-being is the dependent or outcome variable for this study model. A conceptual model to guide the empirical study as shown in Figure 1 was proposed based on a synthesis of the converging literature related to the research variables.

Proposed hypotheses

The available literature highlights several validated works, which inform the hypotheses for this study. These hypotheses

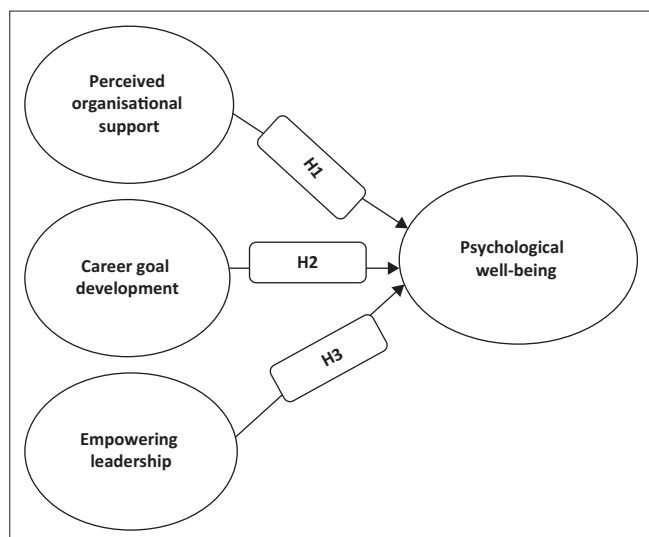


FIGURE 1: Conceptual model.

emphasise specific relationships between variables in a way that allows for empirical testing. The hypotheses are used to validate the theories used in the research and allow for logical analysis of relationships between variables. Based on scientific evidence regarding POS, CGD, EL and PWB, as well as considering the underlying theories, three hypotheses were developed, which are discussed in the following sections.

Perceived organisational support and psychological well-being

It is imperative to elucidate on the nexus between POS and PWB. Caesens et al. (2016) revealed that PWB is positively linked with overall well-being. In their study that determines the influence of POS and PWB on organisational commitment, Aggarwal-Gupta, Vohra and Bhatnagar (2010) revealed that POS significantly influences PWB and all components of organisational commitment. Roemer and Harris (2018) also pointed out that, in terms of POS, employees with perceived higher levels of organisational support are more likely to experience higher levels of well-being. Perceptions of support seem to foster positive emotions in employees and may be strongly associated with their PWB (Ryff & Singer, 1998). Therefore, the following hypothesis has been formulated:

H1: POS has a positive and a significant impact on PWB among SME employees.

Career goal development and psychological well-being

The more focused employees' career goals are, the more likely they are to engage in behaviours that will help them reach their goals, and the greater their motivation to participate in development activities (Rahim & Siti-Rohaida, 2015). Evidence shows that individuals who actively reflect on career goals and have stronger vision in what they want to attain during their career report a higher level of career success (De Vos & Soens, 2008). In addition, self-managing individuals are more likely to strive to obtain their desired career goals, which in turn will make them feel more

successful in their career (Arthur et al., 2005). In the career literature, goal focus has been shown to be an important determinant of career goal attainment and satisfaction with career progress (Sugalski & Greenhaus, 1986). Therefore, career goals are expected to influence the level of PWB of individuals (Rahim & Siti-Rohaida, 2015). However, very few studies have been conducted on the theoretical relationship between CGD and PWB (Rahim & Siti-Rohaida, 2015). Based on this assumption, a second hypothesis is formulated as follows:

H2: CGD has a positive and significant impact on PWB among SME employees.

Empowering leadership and psychological well-being

Gyu-Park et al. (2017) explained that empowerment can affect job-related characteristics of PWB, such as skill utilisation and workload. In this vein, Heller and Wilpert (1981) demonstrated that employees' skill utilisation is associated with participatory decision-making, which is a characteristic of empowering leaders (Arnold, Arad, Rhoades, & Drasgow, 2000). Thus, empowerment can be an effective means to maintain job satisfaction and reduce burnout when an employee's workload is increased (Andrews, Wilmington, & Kacmar, 2014). Empowering leadership focuses on the relationship between leaders and subordinates, while attending to individual psychological reasons for motivation (Thomas & Velthouse, 1990). In another study, Fitzsimons and Fuller (2002) showed that having a sense of empowerment is associated with reduced psychological distress. They also reported a positive association between psychological empowerment and self-esteem. Molix and Bettencourt (2010) posited that psychological empowerment partially mediates the relationship between group identity and PWB. Along these lines, deriving from the literature and the empirical proof above, it is hypothesised that:

H3: EL has a positive and significant impact on PWB among SME employees.

Research methodology

This article pursues a positivist paradigm, as it tries to discover a connection between constructs expressed for this examination, and utilises target estimation instruments for the information gathering and investigation methods. A quantitative research approach was employed, as it elevates result accuracy through statistical analysis. The target population for this investigation includes employees of SMEs situated in the Gauteng province of South Africa during 2019, when the data were gathered. The sampling frame for the examination comprises SME workers in the Gauteng province. A total of 1945 SMEs in Gauteng province were acquired from the Small Enterprise Development Agency (SEDA), a focal point of small enterprise development in South Africa, as the study sample. Respondents were given a questionnaire to complete. The simple random probability sampling strategy (using the Raosoft test calculator) was used to select the respondents. The assessed

populace of 1945 was used, with a margin error of 5%, confidence interval of 95% and response distribution of 50% – thus resulting in a sample size of 321 SME workers.

Measuring instrument

For this study, a self-administered questionnaire was used to collect the necessary data. Leedy and Ormrod (2010:197) describe a questionnaire as a research instrument in which a researcher poses a series of questions to willing respondents and summarises their responses with percentages, frequency counts or more sophisticated statistical indexes, upon which inferences are made about a population. Because of the nature of this research, a questionnaire was deemed the most appropriate data collection method. The questionnaire was categorised into five sections, all of which are described in the following.

Section A of the questionnaire comprises demographic questions, such as gender, age, level of education, number of employees (full-time) in the business and age (years) and location of the business. Section B assesses POS and comprises eight items adapted from Eisenberger et al.'s (1986) study, with a Cronbach's alpha of 0.93. In Section C, CGD was measured using four items adapted from Rahim and Siti-Rohaida's (2015) work, which had a composite reliability value of 0.901. Section D of the questionnaire comprises questions on EL that were assessed using a 12-item scale adapted from Gyu-Park et al. (2017), with a Cronbach's alpha of 0.97. Section E measures PWB and adapted five items from the scale used by Zeng et al. (2014), which met the reliability criteria with a Cronbach's alpha of 0.61. Responses were recorded using a five-point Likert scale ranging from 1 (strongly disagree) to 5 (strongly agree) for all the variables in this study.

In terms of reliability, all Cronbach's alpha coefficients were above 0.8, exceeding the expected value of 0.7 (Nunnally & Bernstein, 1994). The Cronbach's alpha values are as follows: POS (0.795), CGD (0.782), EL (0.818) and PWB 0.742, respectively. A more detailed presentation of the reliability and validity results is given in Table 2.

Data analysis

The data gathered from SMEs were recorded on an Excel spreadsheet after screening returned questionnaires. The data were analysed using a software for descriptive statistics, Cronbach's alpha values and correlations, and the Statistical Package for Social Sciences (SPSS version 25.0). To test the psychometric properties of the measurement scales, and the hypotheses, the Analysis of Moment Structures (AMOS version 25.0) statistical software was used.

Demographic profile summary

In the wake of checking for missing values and anomalies, it was found that 250 questionnaires out of the sample of 321 were completed (a 77.8% response rate). Of these, 71 were

unusable because a few items on the questionnaires were not answered. Table 1 presents the classification of information related to gender. The largest proportion of the sample indicated that they were men (62.4%; $n = 156$), followed by those who revealed that they were women (33.2%; $n = 83$). The remaining 4.4% ($n = 11$) preferred not to mention their gender.

Most of the respondents (32.4%; $n = 81$) were between 50 and 59 years old, 30.0% ($n = 75$) were between 31 and 39 years old, 18.4% ($n = 46$) were between 40 and 49 years old, 12.4% ($n = 31$) were between 18 and 30 years old, and the remaining 6.8% ($n = 17$) revealed that they were 60 years and above.

In terms of the level of education, 37.6% of respondents had a diploma, 30.0% ($n = 75$) had degrees, 20.0% ($n = 50$) had no formal education and the remaining 12.4% ($n = 31$) had only obtained some basic education.

The employment figures for this specific sample profile (Table 1) indicate that most of the SME businesses employ fewer than 50 employees, 44% ($n = 110$) employ 10–50 employees, 32% employ 100–200 employees, 21.2% ($n = 53$) employ 50–100 employees, with the remaining 2.4% ($n = 6$) employing fewer than 10 employees. These findings coincide with the findings of Moodley (2002:37), who asserts that 'SMEs are important, because, although recruiting less

TABLE 1: Sample demographic characteristics.

Characteristics	Frequency	Percentage
Gender		
Male	156	62.4
Female	83	33.2
Prefer not to say	11	4.4
Total	250	100.0
Age distribution of the respondents		
18–30 years	31	12.4
31–39 years	75	30.0
40–49 years	46	18.4
50–59 years	81	32.4
60 years and above	17	6.8
Total	250	100.0
Level of education		
No formal education	50	20.0
Basic education	31	12.4
Diploma	94	37.6
Degree	75	30.0
Total	250	100.0
Number of employees (full-time)		
Less than 10 employees	6	2.4
Between 10 and 50 employees	110	44.0
Between 50 and 100 employees	53	21.2
Between 100 and 200 employees	81	32.4
Total	250	100.0
The location of the business		
CBD	65	26.0
Industrial	185	74.0
Total	250	100.0

CBD, central business district.

per entity, their potential for job creation is in numbers'. Table 1 provides the profile of the surveyed SMEs in terms of their location. Most of the respondents (74%; $n = 185$) indicated that their business was local (in the industrial areas of the Gauteng province of South Africa). The remaining 26% ($n = 65$) indicated that they are located in the various Central Business Districts (CBDs) of the Gauteng province.

Research results

The results section focuses on the results of Confirmatory Factor Analysis (CFA), hypothesis tests performed through SEM and discussions. A CFA is a unique type of factor analysis used to assess whether a construct's measurements are compatible with that construct's nature (Kline, 2011). The SEM method is used to evaluate interactions between variables that are latent (unobservable), such as dependent and independent constructs (Bagozzi & Yi, 2012; Mafini & Loury-Okoumba, 2018).

Psychometric properties of measurement scales

The assessment of the measurement scales' psychometric characteristics was performed through a CFA to determine the construct's reliability, validity and model fit. Table 2 presents the outcomes of the CFA assessment.

The means, Standard Deviations (SD), item to total correlation values, Cronbach's alpha values, composite reliability values, average variance extracted values and standardised factor loadings are reported in Table 2.

As shown in Table 2, mean scores ranging between 3.58 and 4.21 (out of 5.0) were computed for all the constructs examined in the study. These scores depict a collective

inclination towards both the 'agree' and 'strongly agree' positions on the Likert scales. As posited by Hair, Babin, Anderson and Tatham (2010), the relationship between the mean and the SD is that a small estimated SD denotes that respondents' responses were consistent and that the response distributions lie close to the mean. Conversely, a large SD indicates that the responses are varying, making the response distribution values fall away from the mean of the distribution (Hair et al., 2010). Moreover, the SD value should be less than 1, but it is recommended to at least include a value of less than 2 to ensure that there is no issue of outliers (Drost, 2011). Table 2 reveals that the highest SD value was reported at 1.266 and the lowest SD value was 0.881. This information indicates that the data points are clustered around the mean. The SD values are below 2; hence, it indicates that there was no presence of outliers.

A further analysis of Table 2 reveals that, on POS, three items (POS6, POS7 and POS8) were deleted, as the item to total correlation values were less than 0.5. On EL, four items (EL9, EL10, EL11 and EL12) were deleted, as the POS8 item to total correlation values were less than 0.5. On PWB, two items were deleted, namely PWB1 and PWB2, as the item to total correlation values were less than 0.5. It is worth mentioning that all these items were deleted because they did not meet convergent validity, they did not measure at least 50% of what they were supposed to measure. As such, these items did not require further analysis.

According to Nunnally (1978), the reliability of a measure is supported if Cronbach's alpha is 0.7 or higher. The results provided in Table 2 range from the lowest Cronbach's alpha (0.742) to the highest (0.818). Cronbach's alpha scores indicate that each construct exhibits strong internal

TABLE 2: Psychometric properties of measurement scales.

Codes	Code items	Mean values	SD values	Item to total correlation values	α values	CR	AVE	Factor loadings
POS	POS1	3.58	1.012	0.610	0.795	0.830	0.500	0.874
	POS2	3.67	1.085	0.539				0.838
	POS3	4.11	1.016	0.518				0.543
	POS4	3.79	0.964	0.551				0.679
	POS5	3.90	1.042	0.502				0.514
CGD	CGD1	3.75	1.055	0.528	0.782	0.740	0.420	0.619
	CGD2	3.87	1.035	0.619				0.790
	CGD3	3.79	1.074	0.593				0.562
	CGD4	3.59	1.077	0.608				0.605
EL	EL1	4.21	0.927	0.530	0.818	0.860	0.430	0.603
	EL2	3.96	1.011	0.543				0.610
	EL3	3.88	1.001	0.561				0.700
	EL4	3.85	0.978	0.598				0.736
	EL5	3.91	1.058	0.538				0.633
	EL6	4.07	0.971	0.621				0.590
	EL7	3.78	1.177	0.591				0.728
	EL8	3.58	1.266	0.581				0.649
PWB	PWB3	4.12	0.881	0.596	0.742	0.770	0.540	0.539
	PWB4	3.86	1.047	0.500				0.720
	PWB5	4.08	0.884	0.598				0.893

POS, Perceived organisational support; CGD, career goal development; EL, empowering leadership; PWB, psychological well-being; SD, standard deviation; CR, composite reliability; AVE, average variance extracted.

reliability (Lee, 2009). Because the Cronbach's alpha values of the constructs exceeded the recommended value of 0.70, they met the required threshold, demonstrating that the constructs used to measure variables are very reliable for all the variables.

Table 2 shows the loading of each item on their construct. The lowest value for each respective item loading for the research constructs is 0.514; all the individual item loadings exceed the recommended value of 0.5 (Anderson & Gerbing, 1988). This indicates that all the measurement instruments are acceptable and reliable, because all the individual items converged well and with more than 50% of each item's variance shared with its respective construct (Fraering & Minor, 2006).

Composite reliability and AVE for each construct were also computed and assessed to determine if they met the required thresholds for reliability and validity. As per the results shown in Table 2, the lowest CR value (0.740) is well above the recommended value of 0.6 (Hulland, 1999), while the lowest obtained AVE value (0.420) is above the recommended value of 0.4 (Anderson & Gerbing, 1988). This indicates that convergent validity was achieved, further confirming excellent internal consistency and reliability of the measurement instruments used. As such, all pairs of constructs revealed an adequate level of discriminant validity (see Table 2). By and large, these results provided evidence for acceptable levels of research scale reliability (Chinomona & Chinomona, 2013:20; Chinomona & Mofokeng, 2016).

Discriminant validity

The inter-construct correlation matrix is used to assess the validity of measurement instruments, specifically discriminant validity (Ab Hamid, Sami, & Sidek, 2017). Correlations among constructs were evaluated to see if they were lower than 1. The higher the correlation between variables, the lower the validity of those variables (Kafetzopoulos, Gotzamani, & Gkana, 2015; Kim, Trail, Woo, & Zhang, 2011). The inter-construct correlation values must be below 0.6, and in some cases below 0.85, to indicate discriminant validity. According to Table 3, the highest correlation value was 0.518 and the lowest correlation value was 0.419. These correlation values are below 0.85 and, therefore, it can be concluded that there is discriminant validity between all the constructs (Morar, Venter, & Chuchu, 2015).

Measurement model assessment

Confirmatory factor analysis was performed to examine the reliability, convergent validity and discriminant validity of the multi-item construct measures. This study used overall acceptable CFA fit indices. According to Schreiber et al. (2006), to meet the acceptable level, the chi-square Chi-square (CMIN) or Degree of Freedom (DF) value must be confined to 1 and 3. The Goodness of Fit Index (GFI), the Comparative Fit Index (CFI), the

TABLE 3: Correlation matrix.

Variables	POS	CGD	EL	PWB
POS	1	-	-	-
CGD	0.437†	1	-	-
EL	0.457†	0.469†	1	-
PWB	0.419†	0.501†	0.518†	1

POS, Perceived organisational support; CGD, career goal development; EL, empowering leadership; PWB, psychological well-being.

†, Correlation is significant at the 0.01 level (2-tailed).

Incremental Fit Index (IFI) and the Tucker-Lewis Index (TLI) must all be equal to or greater than 0.90 in order to be acceptable (Bollen, 1990; Hu & Bentler, 1995). The Root Mean Square Error of Approximation (RMSEA) must be equal to or less than 0.08 in order to be acceptable (Browne & Cudeck, 1993). The recommended figures show an acceptable data fit for the general model final assessment, namely: $\chi^2/(df) = 1.911$, GFI = 0.901, TLI = 0.932, IFI = 0.965, CFI = 0.958, Normed Fit Index (NFI) = 0.958 and RMSEA = 0.054.

Structural model assessment and hypothesis testing

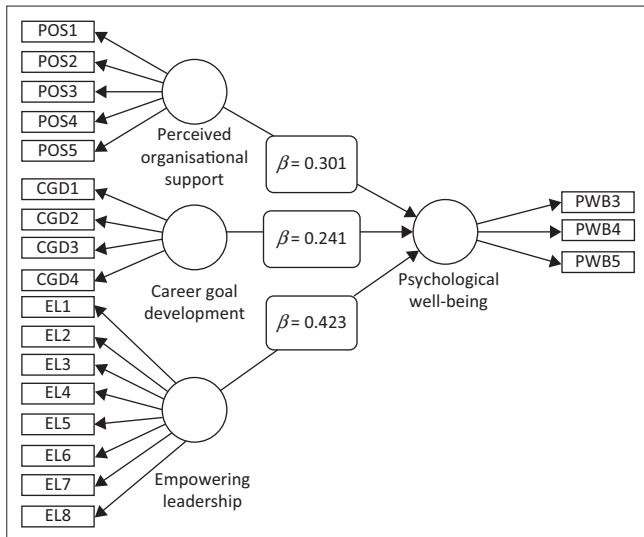
The results of the CFA were satisfactory and therefore SEM was applied. A model fit analysis was performed for the SEM phase prior to testing the hypotheses. The results show that the ratio between the chi-square and the degree of freedom was 1.976. This is below the recommended threshold of 3.0 and confirms the fitness of the model. The recommended thresholds were, respectively, met by CFI, RMSEA, NFI, TLI, IFI, GFI and Adjusted Goodness of Fit Index (AGFI) values, which were 0.968, 0.056, 0.942, 0.936, 0.959, 0.952 and 0.915 (West, Taylor, & Wu, 2012). The anticipated conceptual model converged well and made it conceivable for the data collected. The hypothesis path modelling test was developed to regulate the strength and weakness of causal relationships. Figure 2 presents the structural model.

Outcome of hypotheses testing

In this study, hypotheses testing was determined by path coefficient values as well as the *p*-values for the structural model. In the model, relationships of constructs proposed in this study generate the coefficients of paths. These coefficients form the basis of hypothesis examination.

Outcome of testing hypothesis 1

Hypothesis 1 states that POS has a positive and significant impact on PWB among workers in SMEs as indicated in Table 4. Based on the results of the final model testing, the relationship between POS and PWB shows a $\beta = 0.301$ at $p < 0.01$. This evidence demonstrates that hypothesis 1 is supported. Hence, it can be noted that POS influences the PWB of workers within SMEs. It is also worth mentioning that these findings reinforce the results obtained in the study of Caesens et al. (2016), who found that POS is positively correlated with well-being.



POS, Perceived organisational support; CGD, career goal development; EL, empowering leadership; PWB, psychological well-being.

FIGURE 2: The final structural model of the study.

TABLE 4: Summary of the hypotheses testing.

Relationships	Hypothesis	Path coefficient β	p	Remarks
PWB ← POS	H ₁	0.301	***	Supported
PWB ← CGD	H ₂	0.241	***	Supported
PWB ← EL	H ₃	0.423	***	Supported

***, significance level $p < 0.01$.

POS, Perceived organisational support; CGD, career goal development; EL, empowering leadership; PWB, psychological well-being.

Outcome of testing hypothesis 2

Hypothesis 2 asserts that CGD has a positive and significant impact on PWB among workers in SMEs. The final structural model presents the relationship between CGD and PWB results in a coefficient $\beta = 0.241$ at $p < 0.01$. Thus, hypothesis 2 is supported. These results mean that CGD influences PWB among workers in SMEs. It is also essential to mention that these findings corroborate the results obtained in the works of Rahim and Siti-Rohaida (2015), who elucidated that career goals are expected to influence the level of PWB of individuals.

Outcome of testing hypothesis 3

Hypothesis 3 states that EL has a positive and significant impact on PWB among workers in SMEs. Based on the results of the final model testing, the relationship between EL and PWB shows a $\beta = 0.423$ at $p < 0.01$. This evidence demonstrates that hypothesis 3 is supported. These results imply that EL influences PWB. The results obtained in this study also align with the finding of Gyu-Park et al. (2017), who found that employee empowerment can affect PWB.

Ethical considerations

Permission was granted by the management of the Small Enterprise Development Agency (SEDA). The researchers obtained the permission letter which allowed them to collect data from SMEs registered with SEDA before questionnaires were given out to respondents. Ethical consideration was approved unconditionally and this research study acted in

accordance with the ethical standards of academic research, which include, among other things, protecting the identities and interest of respondents and assuring confidentiality of information provided by the respondents. Respondents gave their informed consent to participate in this research and were informed beforehand about the purpose of the investigation to ensure that they were not misled. Despite all the above-mentioned precautions, it was made clear to the respondents that the research was only for academic research purpose and their participation was absolutely voluntary. No one was forced to participate.

Discussion

The aim of this study was to determine the relationships between POS, CGD, EL and PWB. The results of the analysis suggest that significant relationships can be found between POS, CGD, EL and PWB among SME employees. The relationship between POS and PWB has been extensively studied in industrial psychology literature, which supports the relationship between POS and PWB (Aggarwal-Gupta et al., 2010; Caesens et al., 2016; Roemer & Harris, 2018). These sources conclude that employees with higher levels of organisational support tend to be in a positive mood in the workplace. The results provide evidence that CGD could predict PWB, as suggested by Robertson (2013). This study's findings reveal a positive and significant relationship between EL and PWB of employees, confirming the conceptual relationship between these variables (Fitzsimons & Fuller, 2002; Fong & Snape, 2015; Gyu-Park et al., 2017; Molix & Bettencourt, 2010).

Managerial implications

This study presents several implications for academics. An investigation of the research findings indicates that POS and PWB have a strong influence on each other, as indicated by a path coefficient of 0.301. For academics in the field of mental health, small business management and industrial psychology, this finding would enhance their understanding of the relationship between POS and PWB, making this study an important contribution to the existing literature.

On the practitioners' side, the findings of this study provide solutions from which SME owners and managers can benefit. Given the robust relationship between EL and PWB, as indicated by a path coefficient of 0.423, managers of SMEs in South Africa should pay attention to or emphasise empowering their employees to have increased PWB and job satisfaction. According to Nel (2013), employees who are empowered have a sense of purpose (their work is vital to them and they are concerned about it), competence (they are confident about their capability to do their work well), self-determination (they freely choose how they do their work and are not micro-managed) and impact (they believe they make an impact at work and their ideas are listened to).

Recommendations

The results of this study present opportunities for SMEs in South Africa. Based on the literature analysis and the findings of the empirical research, the following recommendations are made:

- From a management perspective, SME owners and managers must foster a culture that promotes good mental health in SMEs.
- Occupational health nurses, workplace managers and public health officials must raise awareness of the positive benefits of recognising the CGD of employees, they should support employees and empower them to improve their PWB. This will result in improved business performance.
- Managers should be trained in people management skills (with a mental health component). Then they will be able to recognise the signs when an employee becomes less well. This approach should be complemented by training at a peer-to-peer level. Mental Health training will enable staff to provide support to their colleagues.

Limitations and future research suggestions

The data used in this study were gathered from SME employees and not from those in managerial positions. The results would be more generalisable if data from both groups were compared. The current study was limited to a sample of SMEs in the Gauteng province of South Africa and questionnaires were used to collect the data from respondents. The study's quantitative characteristic may have prompted the disregard of more illuminating and extravagant information, which a qualitative methodology could have created had it been converged in the investigation. Nevertheless, using triangulation would erase the effects of common method bias. Other researchers might opt to use both questionnaires and interviews to strengthen the research.

Future researchers should also focus on other factors that influence the PWB of SME employees. For instance, future researchers should investigate depression, anxiety, happiness and work motivation as predictors of PWB of SME employees. Comparative studies between the findings of this study and those obtained from other firms in different sectors or through meta-analyses should also be considered in the future. This could lead to other thought-provoking insights that were not captured in the present study.

Conclusion

This study was conducted with the intention of investigating the impact of POS, CGD and EL on the PWB of SME employees in Gauteng province of South Africa. The study validates the assumption that factors like POS, CGD and EL are instrumental in stimulating PWB. Perceived organisational support was positively correlated with PWB in a significant way, and CGD was found to have a stronger impact on PWB.

A robust relationship was also found on the nexus between EL and PWB.

The results support all the postulated hypotheses, and managerial implications of the findings, limitations of the study and suggested future research were discussed. This study contributes new knowledge to the existing body of mental health, industrial psychology and small business management literature in the African setting – a research context that is often neglected by academics.

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Competing interests

The authors declare that they have no financial or personal relationships which may have inappropriately influenced them in writing this article.

Authors' contributions

E.T.M. initiated this research and was the project leader, concept developer, article structure designer, writer and data analyst. T.C. and N.W.M. reviewed the empirical literature section of the article and contributed to the writing of the research introduction and ramifications.

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Data availability statement

Data sharing is not applicable to this article as no new data were created or analysed in this study.

Disclaimer

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