



OCEAN Personality Testing for Employee Recruitment and Retention

Exploring Key Workplace Challenges, Opportunities, Traits, and Domains to
Inform Evidenced Action Plans for International Pharmaceutical Companies

RICCARDO MAIRA

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Abstract

The challenges faced by international pharmaceutical companies and their Human Resources departments involving effective recruitment, selection, and retention of employees have become a central focus in competitive international VUCA markets. Personality-informed interventions may be critical in international companies' efforts to optimize selection and recruitment, as well as addressing work and well-being-related challenges faced by current employees in order to achieve sustainable retention. However, caution should be exercised when implementing personality assessment models, particularly when automated with the use of technology. This case study provides (1) an evaluation of strengths and weaknesses of OCEAN personality testing in critical areas of employment, such as recruitment, selection, and retention; (2) an exploration of key workplace challenges, opportunities, personality traits, and domains; and (3) considerations of workplace-level adoption of novel technologies, such as Artificial Intelligence, Machine Learning, and Large Language Models, in employment practices and ethical considerations for their fair implementation, with the goal to inform evidence-driven action plans.

Keywords: personality assessment, employee recruitment, employee retention, ethical AI implementation, OCEAN personality model, VUCA markets, workplace challenges, Artificial Intelligence

Introduction

Challenges in International Markets

The challenges of international pharmaceutical companies and their Human Resources (HR) departments toward effective recruitment (the active process of searching for prospective employees and encouraging them to apply for the offered job positions; Mahmood, 2014; Pandey & Kshirsagar, 2024), selection (the process of identification and nomination, customarily through a job offer, of suitable candidates; Babapour et al., 2018), and retention (the ability to maintain employees for a prolonged period of time; Das, 2013; Hejase et al., 2016; Kalyanamitra et al., 2020; Memon et al., 2023; Shenoy & Sharma, 2022) of employees, particularly in entry-level sales divisions, have become a central focus in competitive international VUCA (volatility, uncertainty, complexity, and ambiguity; the acronym has been used to describe such characteristics and challenges, as encountered in today's world; see Mack et al., 2016) markets (Suksod & Cruthaka, 2020).

Such challenges have extended to the international pharmaceutical company and working employees of DF, an HR Executive. For example, DF's international pharmaceutical company has seen a rise in staff turnover, particularly in the sales division, and a report by DF's assistant revealed that company employees have been struggling with their workplace well-being, namely the overall quality of an employee's life as it occurs in the working environment, which may include aspects such as mental health (Schulte & Vainio, 2010). Reported burnout, emotional exhaustion, high job pressure, and disengagement were listed by employees as reasons for leaving the company, hence DF's interest in an evidenced action plan which would be informed by personality.

Personality and Assessment Tools

Personality is defined as a stable set of traits and styles representing an individual's dispositions and uniqueness (Bergner, 2020; Roberts & Yoon, 2022). As a potential antidote to VUCA-related challenges, personality and its representative traits are relatively stable and enduring across an individual's adult life (Bergner, 2020; Bleidorn et al., 2022; Cobb-Clark & Schurer, 2012; Rantanen et al., 2007). Therefore, personality-informed interventions may provide DF's international pharmaceutical company with a valuable methodology to overcome the uncertain processes of selection and recruiting, as well as address work and well-being-related challenges experienced by current employees.

Key areas for discussion in business recruitment and personality psychological research, which DF's HR department as well as the company's board of directors should

consider, include the efficacy, selection, and benefits of personality assessment methods and tools. Benefits may include the achievement of a more accurate fit between job requirements and applicants, more effective and personalized mental health and well-being interventions to maximize current employees' well-being and performance, and support for long-term retention by addressing employees' specific needs (Bouton & Moore, 2011; Goodstein & Lanyon, 1999; Nirmala et al., 2023; Preedy & Watson, 2010; Rothstein & Goffin, 2006; Wilsher, 2015).

Personality assessment tools that should be considered by DF's international pharmaceutical company include those leveraging technological advancements in Artificial Intelligence (AI, "the science and engineering of creating intelligent machines" [Hamet & Tremblay, 2017; McCarthy et al., 1955]) and Machine Learning (ML, an AI subdomain which makes use of data and algorithms to produce statistical inferences and emulate human learning [Algren et al., 2021; Awad & Khanna, 2015]), which may offer a higher predictive computational power, precision, and efficiency when handling personality data. For example, this technology may be used to facilitate and streamline personality-based assessments in recruitment by predicting outcomes through profiling personality data as it relates to the job role and prerequisite criteria, as well as for personality-informed conflict prediction among employees and as an aid for processes such as conflict resolution (Mozaffari et al., 2023).

An Employee-Centered Approach

On the other hand, employees have dealt with disengagement (Sawasdee et al., 2020; Tirastittam et al., 2020), burnout (Haghani et al., 2022; Santos et al., 2022), and emotional exhaustion (Syarief & Pramitha, 2020), which have affected their emotional well-being and may have contributed toward the high turnover rates, as described in DF's case. Preventive measures and interventions to support employees' well-being may benefit from the use of personality assessment tools, providing DF's HR department with the ability to make informed intervention decisions using empirical measures of personality traits and individual needs (Anglim et al., 2020; Boulton et al., 2018; Oswald & Hough, 2011). These interventions could be implemented to help HR departments provide more sustainable working arrangements by accounting for employees' personality traits to adopt thoughtful employee allocation strategies through personality-informed conflict predictions and applying ad-hoc solutions to situations that are interpersonal and/or within the individual's organizational role.

Ultimately, personality-oriented psychometric assessments could provide an effective modality for DF's international pharmaceutical company to optimize and facilitate

the management of complex, employee-centric, and role-specific processes (e.g., employees' recruitment, selection, retention, and performance enhancement). Such assessments have already been positively received by HR professionals for ease of use, practicality, and positive outcomes (Furnham, 2008).

Background

The Five-Factor Model of Personality

The Five-Factor Model (FFM) of personality (Costa & McCrae, 1996; Digman, 1990) has been defined by its authors as “an empirical generalization about the covariation of personality traits” (Costa & McCrae, 2008) and has been widely employed in the domains of business, HR, and management (Fetvadjev & van de Vijver, 2015; Hodgkinson & Gill, 2015; Pareke & Hayu, 2016). The FFM is commonly known as the Big Five or under the acronym OCEAN, which describes the five factors, namely openness (the propensity toward pursuing novelty and challenging predetermined information; Boyd, 2020), conscientiousness (the inclination toward being goal directed, planning, and conforming to and abiding by socially prescribed norms; Roberts et al., 2009), extraversion (the proclivity toward active social engagement and the outgoing pursuit of social settings and activities; Taylor & Broffman, 2011), agreeableness (the disposition for positive cooperation and empathic prosocial behavior; Caprara et al., 2010; Habashi et al., 2016), and neuroticism (the propensity to experience negative emotions; Liu et al., 2021; Widiger & Oltmanns, 2017).

Personality assessments based on the FFM may provide DF's company with a robust basis for long-term growth through the identification of relevant job-specific personality traits and personality-informed long-term development plans focused on enhancing the potential of employees and maximizing their performance while supporting their well-being (Giannoukou, 2023; Li, 2023; Silvestre, 2022; Thoresen et al., 2004). Furthermore, such assessments may offer essential aid in overcoming the obstacles met by companies and their employees—prospective and senior alike—in today's VUCA world.

Action plans and interventions based on FFM personality assessments, as applied in organizational psychology, may be used to assist companies in addressing HR challenges (Bouton & Moore, 2011; Wilsher, 2015), such as those faced by DF and her company (see Introduction section for case study summary), and pertain to the domains of recruitment, selection, and retention in the workplace. Understanding personality traits as they apply to different domains and sub-domains, such as recruitment, job performance (the combined behaviors of one or more employees as they pertain to their work and to the employing organization's goals; Brandão & Jordão, 2011; Fogaça et al., 2018), job engagement (the

synthesis of behaviors and attitudes as they pertain to high motivation, dedication, and enthusiasm at work; Eacock & Barber, 2022; Zeidan & Itani, 2020), job satisfaction (the sum total of positive and negative emotions as they pertain to different aspects of one's work; Adhikari, 2022; Cebotari, 2022), and workplace well-being—as well as exploring the relationship between personality traits and discussed domains of interest—would be necessary for DF to lay the foundations of an evidenced personality-informed action plan or intervention.

Analysis and Intervention Strategies

Employee Recruitment and Selection

Available resources for employee selection and recruitment may be limited; hence, efficient and cost-effective solutions would be highly desirable for DF's company so that resources can be swiftly reallocated based on more urgent and specific needs (i.e., to support employees' retention and well-being). The use of modern psychometric tools in the context of online recruiting has been found to substantially lower costs associated with hiring (Bouton & Moore, 2011) and concurrently preserve time and other resources while providing valuable candidate insights (Nirmala et al., 2023; Preedy & Watson, 2010).

Opportunities and challenges for companies such as DF's have been instated in recent times in the domains of recruitment and selection by the rise of new technology (Lievens & Chapman, 2019). Hence, companies and HR departments alike now have to adapt to the rise of AI, ML, and Large Language Models (LLMs; i.e., AI systems able to learn from large volumes of text data; Lin et al., 2023), as well as all positive and negative aspects derived from the use of such technological tools. New opportunities include access to larger pools of applicants, faster delivery of recruitment questionnaires, and deeper insights into potential candidates' suitability. New challenges for DF's company include ensuring data protection of potential candidates from data breaches and hacking (Lareo, 2024), managing additional ethical responsibilities arising from the use of technology, and addressing the eventuality of LLMs' implicit biases (Bai et al., 2024; Gallegos et al., 2024) and consequential errors in the assessment of potential employees.

However, DF's company should bear in mind that any adoption and administration of psychometric tests—particularly when enriched with the use of novel technologies already mentioned—would require recognition and adoption of ethical and legal responsibilities, such as engaging in bias awareness, practicing attentiveness and proactivity toward employees' mental health and well-being, and ensuring data protection and privacy compliance while addressing employees' privacy concerns regarding personal data storage

and handling, as detailed by local and state legislations and professional psychological bodies which set ethical guidelines for the use of psychometric assessments. These include the British Psychological Society (BPS; Baron & Bartram, 2006; *Code of Good Practice for Psychological Testing*, n.d.; *Guidelines on Testing and Test Use*, n.d.; *Using Online Assessment Tools for Recruitment*, 2010) in the United Kingdom and the American Psychological Association (APA; American Psychological Association, 2020) in the United States.

The FFM personality traits most pertinent to and positively associated with common recruitment and selection criteria include conscientiousness and extraversion (Dunn et al., 1995; Gridwichai et al., 2020; Rothmann & Coetzer, 2003; Salgado, 1997; Thoresen et al., 2004). The use of FFM-based inventories for employee recruitment and selection, as they pertain to DF's circumstances, is thus recommended (Salgado, 2003).

Employee Retention

The issue of retention is central to DF's case. Dependent psychological sub-domains of retention include job performance, job engagement, job satisfaction, and workplace well-being. Since variations in well-being may affect other workplace domains (e.g., job performance, job satisfaction, and job engagement), well-being can also be considered a meta-domain. Therefore, particular importance and resources should be allocated to ensure adequate care and support for employees' workplace well-being. The subsequent section in the present case study discusses workplace well-being, while the relationships between FFM traits and the sub-domains of job performance, engagement, and satisfaction are addressed in this section.

The relationship between personality traits and work performance has been examined using the FFM, and the two have been found to be consistently associated (Kaushik & Koul, 2018; Oh et al., 2011; Salgado, 2003; Silvestre, 2022; Tett et al., 1991). In the domain of job performance as it relates to burnout, relevant in the case of DF, Li (2023) suggested that employee burnout has been negatively associated with extraversion, conscientiousness, and openness, positively associated with neuroticism, and has not been significantly correlated with agreeableness. Robins et al. (2018) supported the direct relationship between burnout and neuroticism while acknowledging that mediating factors could render such a relationship complex and hinting at another direct relationship, namely between extraversion, conscientiousness, and engagement.

Fukuzaki and Iwata (2021) conducted a meta-analysis to examine the relationship between FFM personality traits and job engagement and determined that conscientiousness was the strongest positively associated trait. Extraversion, openness, and agreeableness

were found to be positively associated as well, while a negative association was found with neuroticism (also supported, in large measure, by Janssens et al., 2019; Prokesova et al., 2019). The authors concluded by stating the necessity to consider multiple dimensions of the psychosocial work environment in order to enhance job engagement, certainly an advisable direction for DF's evidence action plan, as the company has faced multiple challenges.

Personality traits such as extraversion and conscientiousness were found to positively influence employees' work performance and satisfaction, while neuroticism was found to have a negative impact on the two (Giannoukou, 2023). In regards to the broader domain of career satisfaction, Seibert and Kraimer (2001) suggested that extraversion is positively related to satisfaction, while a negative correlation, particularly strong in people-oriented occupations, was found with neuroticism and agreeableness.

Information related to the relationship between FFM traits and domains (e.g., recruitment and selection sub-domains) may be used by DF to compile ad-hoc inventory items for specific employee questionnaires. For guidance on questionnaire length, see Kost and de Rosa (2018), Sahlqvist et al. (2011), and Shenoy and Sharma (2022).

Workplace Well-Being

According to the World Economic Forum, two billion people in the workforce worldwide are affected by mental health challenges, and the cost of such challenges amounts to \$1 trillion per year (Loh et al., 2023). Well-being and mental health support are fundamental to ensuring the maximization of a workforce's productivity, output, and job performance (Isham et al., 2020; Schulte & Vainio, 2010; Wright & Cropanzano, 2000). Factors negatively impacting well-being to be taken into account may be categorized as (1) from within the workplace (e.g., job insecurity [Darvishmotevali & Ali, 2020] and workplace discrimination [Xu & Chopik, 2020]) and (2) from outside of the workplace (e.g., world events such as the COVID-19 pandemic [Yu et al., 2021]). While organizations may have a limited understanding of what occurs outside of office hours, initiatives can be taken to provide assessments of well-being and mental health, as well as employees' support needs, and tailor personality-informed interventions to reduce workplace stressors. Therefore, HR supervisor-guided strategies and interventions focused on employees' engagement and well-being should be encouraged (Heyns et al., 2022) and can benefit from and be supported and informed by the current understanding of personality.

Personal states such as individual well-being can be measured with self-reported questionnaires or inferred, with great caution, respect, and thoughtfulness, to avoid making incorrect and biased assumptions (see Limitations section) through associated personality

traits (Parent-Lamarche & Marchand, 2019; Sun et al., 2018). Well-being can be measured using a variety of constructs (e.g., subjective well-being and psychological well-being); therefore, it is important to identify which construct(s) would be the most relevant to the context in which the measurement is set to take place.

The relationship between personality traits and well-being was explored by the FFM authors, who stated that dispositions of personality seem to affect psychological well-being (McCrae & Costa, 1991). Psychological well-being has been defined as the “inter- and intraindividual levels of positive functioning that can include one’s relatedness with others and self-referent attitudes that include one’s sense of mastery and personal growth” (Burns, 2017). Subjective well-being, also referred to as self-reported well-being, is understood as the self-evaluation of an individual’s life and feelings (Krueger & Stone, 2014; Panel on Measuring Subjective Well-Being in a Policy-Relevant Framework et al., 2013) and can be subdivided into three components, namely life satisfaction, positive affect, and negative affect (Andrews & Withey, 1976; Proctor, 2014), while psychological well-being can be subdivided into six components, namely autonomy, self-acceptance, personal growth, positive relations with others, purpose in life, and environmental mastery (Ryff, 1989). Thus, psychological well-being is considered a more stable predictor of future well-being than subjective well-being (Joshani, 2019).

Furthermore, there is evidence for a stronger relationship between psychological well-being and personality factors than the latter and subjective well-being (Grant et al., 2009). The purported mutual influence, as well as distinctiveness, of well-being constructs has been tested and, although it is actively debated, the proposition of relative substantial independence appears to have a higher prevalence (Chen et al., 2013). It is recommended, however, to consider the ways in which the psychological constructs pertaining to employee well-being can work together, as new and more efficient models may arise to the benefit of employees and organizations alike (see Page & Vella-Brodrick, 2009).

Regarding psychological well-being, according to McCrae and Costa (1991), the personality traits of extraversion, neuroticism, and openness were identified as having systematically affected well-being, with neuroticism having a negative association and extraversion having a positive association to psychological well-being. Similar conclusions regarding extraversion and neuroticism have been drawn by other studies (see Kokko et al., 2015).

In discussing subjective well-being, according to Zhai et al. (2013), extraversion would be the strongest predictor of subjective well-being (and a prime Big Five factor for job satisfactions), with conscientiousness and neuroticism being prominent traits also affecting well-being (see also Brajša-Žganec et al., 2011; Fadda & Scalas, 2016). The identified

relationship between extraversion, neuroticism, and conscientiousness and employees' well-being can be found in other research studies (Grant et al., 2009; Parent-Lamarche & Marchand, 2019). While the study was conducted in China, the authors' findings suggest that the relationship between these three Big Five traits and subjective well-being may be transferrable across cultures (a similar conclusion was also drawn by McCrae et al., 1998).

Soto (2015) conducted a study in Australia and concluded that subjective well-being is positively associated with extraversion, agreeableness, and conscientiousness and negatively associated with neuroticism. This study also suggests that elements of well-being and personality traits may affect each other over time, supporting the presence of a stable relationship between personality and well-being.

Limitations

It is worth mentioning one of the main criticisms of Western personality assessment models, namely the cultural limitations in the personality inventory (e.g., missing traits from other cultures). Furthermore, provided that measures and conceptualizations of well-being and personality may vary across cultures and populations, companies such as DF's should be mindful when setting a standard for well-being and personality-based assessments and company policies (Haybron & Tiberius, 2015; Youngman, 2017) and ensure the fair treatment of every candidate and employee, including respecting everyone's rights, personal information, and dignity, in accordance with the law (Calvasina & Calvasina, 2016; Cavico et al., 2015; Olšovská & Švec, 2017).

Other limitations include (1) the inability to ensure that individuals do not impersonate traits nor inauthentically respond to personality questionnaires and, in accordance with the position's perceived requirements, to meet demand characteristics (Fleeson & Wilt, 2010; Judge et al., 2008), (2) the bandwidth-fidelity dilemma (namely, the need for equity between the number of questions investigated and the accuracy of answers collected [Cronbach, 1990]; Kroeck & Brown, 2004; Ones & Viswesvaran, 1996; Salgado et al., 2015), and (3) novel technology challenges, such as LLMs' implicit biases (Bai et al., 2024; Gallegos et al., 2024) and data breaches (Lareo, 2024), which may cause assessment errors and data protection and privacy risks affecting current and prospective employees.

Despite limitations and acknowledgements of the insufficiencies presented (Dimitriou & Galanakis, 2022), the Big Five personality model is still considered one of the best models available today and can provide a valuable basis for informed, company-level, employee-focused action plans and interventions for DF's pharmaceutical company.

Conclusion

In conclusion, DF's company's need for an evidenced action plan is evident by virtue of its employees' struggles. The development of such action plan should be an informed process that begins with the selection of a personality measurement model and the development of model applications primarily focused on understanding and addressing employees' individual differences and psychological needs through data collection (e.g., through online questionnaires), analysis, and consequent actionable data-driven insights. The FFM framework provides a substantial theoretical basis for data collection, analysis, and decision-making as it applies to DF's case and the company's needs, and it may be accompanied by other assessment tools. However, caution should be exercised when implementing personality assessment models, particularly when automated with the use of technology, and ethical and legal considerations should be addressed prior to their deployment. Explored constructs, findings, limitations, and relationships between FFM personality traits, novel technologies, and the domains of employees' recruitment, selection, retention, and workplace well-being should be considered in order to compile inventory item questionnaires aimed at understanding employees' individual differences and needs and provide an evidenced basis for both imminent and future interventions.

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