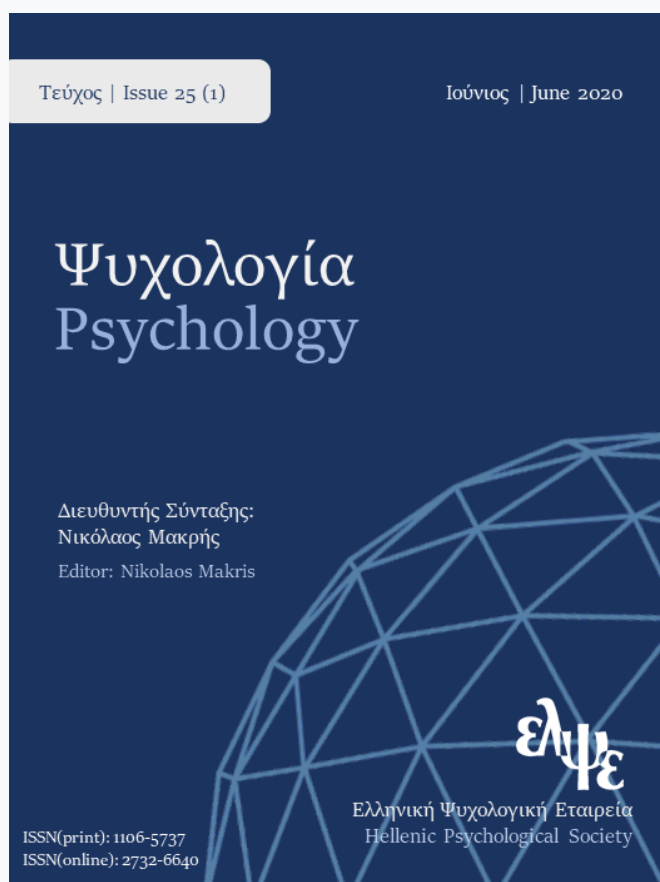


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ΒΙΒΛΙΟΓΡΑΦΙΚΗ ΑΝΑΣΚΟΠΗΣΗ | REVIEW PAPER

The recipe for Happiness: A critical review - introduction to a new theoretical model and a new psychometric tool for the measurement of Eudemonia

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self-acceptance,
self-knowledge,
psychological well-being

ABSTRACT

This critical review refers (a) to all scientific knowledge to date on the subject of Happiness and (b) to the creation of a new prototype psychometric tool, for its measurement. A new model for the development and increase of happiness levels, the Psychological Equilibrium Model (PEM), is proposed. The Psychological Equilibrium Model (PEM) aims to examine the factors of Happiness and contribute to a more comprehensive approach of the concept. According to the Psychological Equilibrium Model (PEM), Happiness is defined as the psychological result of growth in four areas. In particular, if a person experiences (a) high levels of self-acceptance, (b) positive relationships with family and (c) friends, and (d) is able to set goals and plans for the future, he or she will experience higher levels of Happiness. The main objective of this new model is to measure the objective factors and personal characteristics that make it easier for people to achieve and maintain optimal happiness. This may lead to the creation of a new psychometric tool for the objective measurement of happiness based on the Psychological Equilibrium Model. The purpose of the article is to help define the notion of Happiness in a new more comprehensive and holistic way.

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Happiness refers to the concept of flourishing of mankind and is based on the concept of Eudemonia, a Greek word proposed by Aristotle in the Nicomachean Ethics in 350 BC (Aristotle, trans. 1925). Eudemonia consists of the word "eu", meaning good, and the word "demon", meaning spirit. Aristotle suggests that happiness, not simply positive mood or life satisfaction, is one of the most important human emotions. The highest standard of living is living according to virtue (Ryff, 2014a). Virtue refers to man's ability to think and be able to use logic to achieve optimal goals based on a specific value code. Waterman (1984) translates happiness as: "the positive emotions that accompany the optimal behavior in the direction of the goal and according to the actual potential of each individual". Thus, the "demon" actually represents that the ideal outcome of an extraordinary goal is to make the individual as best as possible to achieve it, and thereby acquire the sense of a meaningful and purposeful life (Ryff, 1989).



In 1989, Carol Ryff, based on the previous theories of Maslow, Rogers, Allport, Jung, Jahoda, Frankl, Erikson, Buhler and Neugarten, suggested a multidimensional model for measuring happiness, in order to create a strong theoretical base that treats the variable as a crucial and basic component of positive human functioning and positive health (Ryff, 1989). This model consists of 6 psychological aspects in which humans may thrive and function in the most positive way. The six aspects of psychological well-being are self-acceptance (the knowledge and acceptance of oneself, including the awareness of one's limitations), purpose in life (finding meaning and direction in life despite challenging circumstances), positive relations with others (deeply connecting and maintaining this connection with significant others), environmental mastery (the skill of efficiently managing life situations and shaping the environment according to one's needs), autonomy (being self-determined and living according to one's authentic way) and personal growth (using one's talents and unique capacities). According to this theory, a human being is continually trying to improve all of the above aspects, in order to reach a eudemonic way of living. These six aspects are the basic components of psychological well-being and the essential features of positive human functioning, which individuals are trying to increase during their life (Baumeister, 1991). Nevertheless, we tend to approach happiness through its relative emotions (Carver & Scheier, 1990) and not via the prerequisites that form its foundation (Clarke et. al. 2000). The purpose of this article is to present traditional ways to approach happiness and propose a new model that may solve previous models' flaws.

The ingredients of Happiness

More analytically, self-acceptance is one of the basic characteristics of mental health, self-actualization, optimal functioning, and maturity (Ryff, 1989). Self-knowledge, which is a core factor of self-acceptance, creates a positive attitude towards oneself and a positive image of oneself (Diener, 2009). A human being, who has goals, intentions, and a direction in life, functions positively and has the feeling of a meaningful life (Ryff, 1989). Goals, intentions, and direction in life are included in the aspect of purpose in life, a dimension that seems to distinguish and can offer protection in physical health (Deiner & Seligman, 2002). Purpose in life might be a strong motivation to learn from negative experiences and reevaluate them in order to gain new capacities and manners and quickly refocus on one's goals and purpose (Schaefer et al, 2013). Additionally, purpose in life might be a resource, which can be used to cope with difficult situations, handling of these situations, balancing the effect of adverse experiences, and finally facilitating the learning process, while developing greater emotion regulation skills over time (Schaefer et al, 2013).

Purposeful life engagement has also been increasingly linked to better health outcomes, including assessments of morbidity and mortality (Dillon et al., 1985). Findings support that purpose in life is a protective factor for health, and more specifically higher levels of purpose in life can reduce the risk of a stroke in older adults (Kim et al., 2013), reduce the risk of myocardial infarction in heart disease patients (Kim et al., 2012), predict lower levels of allostatic load (Zilioli et al., 2015), provide better cognitive function in patients with Alzheimer (Boyle et al., 2012), raise the odds of using preventive health services (Kim et al., 2014) and promote longevity in older adults (Dykman, 1998; Hill & Turiano, 2014).

Impaired levels of purpose seem to be independent of the presence of psychopathology and these results agree with the existent concept of positive psychology that the presence of well-being does not simply correspond to the absence of disease and vice versa (Tomba & Tecuta, 2016). Optimal human functioning does not refer to the absence of disease or infirmity (Frijda, 1999). Instead, it refers to the

stage beyond neutral in which the human being functions in an optimal way, biologically, mentally, psychologically, and socially (Kimiecik, 2011).

Positive relations refer to the ability to love and be loved and it is considered as a basic feature of mental health. Individuals with a higher sense of self-actualization are more likely to feel empathy and affection for all human beings and at the same time experience deeper levels of love and friendship (Ryff, 1989). Being able to create, develop, and maintain close relationships with others is a crucial aspect of psychological well-being and an example of maturity, according to developmental theories (Li et al., 1999). The concept of positive relations not only refers to the close relations with family and friends but also includes the capacity of an individual for identification with others on a social level. Being able to identify with others means you are able to belong in a larger group, the broader society, and explore your developmental capabilities inside the security that this group offers (Lyubomirsky et al., 2004). So, positive relations refer to two dimensions (personal and social), which have a bidirectional relation as one promotes the other (Lyubomirsky et al., 2004).

At this point, it is important to note that if people are living according to their demon this doesn't mean that they don't experience stressful situations but they use their inner resources of subjective vitality that push them to choose behaviours helpful to revisit their feel of eudemonia (Klug et al., 2002). One of these behaviours is taking care of one's self. Health - promotion behaviours are more likely to be used by those who have higher levels of life purpose and positive relations with others (Ryff & Singer, 1998a). Healthy behaviours include engagement with life and self and participate in optimal functioning: *"taking good care of yourself presupposes that your life is worth taking care of"* (Ryff & Singer, 1998b).

Data from previous research suggest that a strong feeling of purpose in life can increase healthy behaviours, such as the use of preventive health services (Kim et al., 2014). Furthermore, higher levels of psychological well-being promote physical exercise on a frequent base and especially the aspect of self-acceptance seems to be a strong predictor of engaging in physical activities (Garcia et al., 2012). Based on the existing literature for the relationship between physical exercise and psychological well-being, previous results showed that when we enhance physical activity, we can improve the general well-being of an individual (Lyubomirsky et al., 2004). That suggests that this relationship might be bidirectional, and physical activity can be an appropriate strategy to increase well-being (Mack et al., 2012). Kagee and Dixon (2000) propose that when someone is choosing a healthy behaviour on a regular basis, he is expressing the concept of self-actualization and maximizes his personal fulfilment (Kagee & Dixon, 2000).

The aspect of environmental mastery is highly connected with creativity, in the notion that a human being, who can master his environment according to his needs, practically uses new and creative ways, through his physical and mental activities, in order to control external situations and take advantage of environmental opportunities (Ryff, 1989). This aspect includes the active participation of an individual in all aspects of life: you have to engage with the environment in order to change it. Active participation and environmental mastery are basic components of positive psychological functioning (Ryff, 1989). Furthermore, environmental mastery seems to be a part of positive ageing. Being able to maintain a higher level of psychological well-being in the face of the changes and losses of later life is generally considered a basic part of "healthy" ageing (Baltes & Baltes, 1990; Rowe & Kahn, 1998). One of the most influential definitions of positive ageing consists of three elements: absence of physical illness or disability, high levels of cognitive and physical functioning, and active engagement with life (Rowe & Kahn, 1998).



Autonomy is highly connected with motivation and self-determination theories (Lyubomirsky & Tucker, 2000). An autonomous person is able to decide for his own sake and be guided only from internal motives (Myers & Diener, 1995). An individual with the ability of autonomous functioning is described as having an internal locus of control (Ryan et al., 2008). Moreover, he or she has the ability to evaluate oneself by personal standards, and that gives him/her a sense of freedom from the typical norms (Ryff, 1982, 1989, 2012a, 2012b, 2014a, 2014b). The dimension of autonomy is the basic component of another theory for eudemonic well-being, the Self-Determination Theory (SDT – developed by Deci & Ryan, 1985), which suggests that when the personal needs for autonomy, competence and relatedness are satisfied, motivation and well-being are enhanced (Ryff et al., 2012). Likewise, if the above needs are not met, there is a significant negative impact on our well-functioning (Deci & Ryan, 1985). In this concept, the theory of Csikszentmihalyi about Autotelic Personality is also under the field of psychological well-being. Autotelic people are those who often engage in activities for their own sake, and experience flow states frequently (Csikszentmihalyi, 1999). Another scholar of the topic, Seligman (2002), suggests that both pursuits of engagement/flow and meaning can be considered eudemonic (Seligman, 2002).

The last dimension of psychological well-being theory is the dimension of personal growth (Ryff & Singer, 2008). Personal growth seems to be the concept that is closest to Aristotle's idea of eudemonia and that is because it refers to a continuous development and flourishing of one's unique talents and skills, which Aristotle's means by the word “demon”. In fact, “demon” refers to the unique talents and capacities of a human being, which one has to find, create, and develop, in order to fulfil his/her unique life goal. The two basics components of eudemonia are self-knowledge and fulfilling your true potential. Aristotle believed that every living creature has a special goal to fulfil in life and, therefore, everyone needs to find their true purpose and live according to it (Ryff et al., 2004). In order to achieve optimal psychological functioning, we need to grow and expand our capacities, during lifespan (Seligman & Csikszentmihaly, 2000). It is clear that personal growth refers to the capacity of a human being to transform and flourish in an unstoppable way and helps individuals to cope with new challenges or tasks at different periods of life (Ryff, 1989, 2002; Ryff et al., 2004).

The upper mentioned model depicts a synthesis of existing Happiness Models and has been selected in order to provide a panoramic view of existing literature. Most existing models agree that all of the above are parts of the notion of Happiness.

The measurement of Happiness

This multidimensional model of measuring Happiness established the concept of *eudemonia* as a main aspect of psychological well-being and these six aspects became central criteria for predicting psychological well-being (Ryff, 1989). Ryff's Scale of Psychological Well-being (Scale of Psychological Well-being [SPWB], 1989) was created and the concept of eudemonia started to gain a solid theoretical ground as a main aspect of positive human functioning. Meanwhile, eudemonic well-being is finally distinguished from hedonic well-being (life satisfaction and pleasure), and despite both of them include positive functioning, eudemonic well-being, and purposeful life can empower the organism when striving with life adversities (Sheldon & Kasser, 1995, 1998). Psychological well-being is highly correlated with the existential challenges of life (Ryff, 2002), such as the human striving for a meaningful and responsible life, even in difficult conditions (Stone et al., 1994). Existential philosophies are deeply connected with the sense of eudemonic well-being, and especially with purpose in life, as they both try to understand the process of full growth and development of a human being (Ryff et al. 2004). It is

important to state that the notion of Happiness is based on a deeply subjective emotion and it is the result of personal subjective cognitive appraisal and decision. This element is characteristic of the difficulty to successfully and accurately measure its levels in individuals (Wong & Fry, 1998).

Studies have examined socio-demographic variables (age, gender, and education) in the dimensions of Psychological Well-Being (Clarke et al., 2000; Keyes & Ryff, 1998; Marmot et al., 1997; Ryff & Keyes, 1995; Ryff & Singer, 1996) and have connected Psychological Well-Being with life transitions and experiences such as parenthood (Ryff et al., 1996), community relocation (Kling et al., 1997a; Kling et al., 1997b; Smider et al., 1996), and health changes of later life (Heidrich & Ryff, 1993). Psychological well-being was also related to resilience (Ryff et al., 1998; Singer et al., 1998). In addition, psychological well-being scales were used to examine well-being outcomes to diverse life challenges such as body consciousness (McKinley, 1999), work aspirations and achievements (Carr, 1997), marital status change (Marks & Lambert, 1998), caregiving (Li et al., 1999), recovery from depression (Fava et al., 1998) and personal projects (McGregor & Little, 1998). Studies have shown that optimal well-being is deeply connected with age and education and that midlife and older adults who had higher levels of education were most likely to flourish in life and have high perceived quality of life (Ryff, 2002). Additionally, age and education seem to have a positive association with psychological well-being and predict higher levels of well-being. Younger age was associated with higher psychological well-being and optimal experience. Similarly, university education predicted higher psychological well-being, optimal experience, and hedonic balance (Bassi et al., 2013). Furthermore, data suggests that a persistently high well-being level can be protective for health outcomes of educationally disadvantaged individuals known to have greater risks of subsequent health decline (Ryff et al., 2015).

Results of experiencing Happiness

In the last two decades, there is a flourishing ground in the field of research that correlates psychological well-being and health. This shift, which has been observed in the last two decades, is due to the recognition that psychology had focused mostly on human pain and suffering, and too little on human happiness and positive functioning (Ryff, 1989). Researchers started to point out that psychological well-being can influence quality of life, health behaviours and physical health (Ryff & Singer, 1998). Furthermore, Ryff et al (2004), in their research with older women, point out the fact that women with higher levels of psychological well-being had lower levels of daily salivary cortisol, pro-inflammatory Cytokines, cardiovascular risk and longer duration of REM sleep (Ryff et al., 2004). They also came to the conclusion that when the individual lives in an authentic way towards himself, he focuses on what is “intrinsically worthwhile” and that can lead to vitality and self-determination, which increase intrinsic motivations for new challenges, exploration, and learning (Ryan & Deci, 2001). Psychological well-being is the balance between internal motivation (true self) and external circumstances (environment), that leads to an authentic expression of self, vitality, and the sense of aliveness (Ryan & Deci, 2001).

Based on a recent literature review (Boufali-Bavella et al., 2017) results showed that individuals with higher levels of happiness had a lower risk of mortality or mobility disability (Zaslavsky et al., 2014), better health status during a period of 10 years (Ryff et al., 2015) and lower risk of frailty incidence (Andrew et al., 2012). Other data have shown a significant association between happiness and risk of pre-frailty, and also that men and women with higher levels of psychological well-being are less likely to become frail over a 4-year follow-up period (Gale et al., 2014).

In addition, findings (Boufali-Bavella et al., 2017) proposed that higher levels of happiness were associated with reduced CTRA gene expression, which is responsible for increased inflammation genes

expression and decreased expression of antiviral and antibody genes (Fredrickson et al., 2015; Fredrickson et al., 2013).

Biology, psychological well-being, and health seem to have an important interaction, and psychological well-being offers protective benefits that lead to better biological regulation and more positive disease results (Ryff, 2013). In addition, research suggests (Boufali-Bavella et al., 2017) that happiness is linked with specific neurobiological mechanisms, through which it may improve physical health. Increased levels of happiness were connected with sustained engagement of striatal and dorsolateral prefrontal cortex, which is also responsible for lower levels of cortisol (Boufali-Bavella et al., 2017). Striatal is linked with the reward system and working memory. Cortisol protects the organism from several diseases such as osteoporosis, and it is responsible for insulin production, wound healing, and electrolyte balance. It is important to note that these findings support the concept that happiness may act as a moderator of the physiological and biological systems (Ryff, 2014a). On this note, data suggests that eudemonic well-being is also closely associated with grey matter volume of insular cortex volume (Lewis et al., 2013). Specifically, happiness has been positively associated with one's grey matter volume of the right insular cortex. Purpose in life, positive relations, and personal growth scores showed positive correlations with right insular cortex volume. Positive relations also showed a significant association with left insular volume (Lewis et al., 2013).

These results show the important links between happiness and brain structure affecting physical health and may suggest that insular cortex accommodates happiness by producing the necessary capabilities to successfully managing exterior circumstances. These findings provide evidence of individual differences in the brain structure and link an important psychosocial trait with mental and physical health (Lewis et al., 2013). The importance of linking biology and happiness refers to the fact that well-being can gain a solid theoretical base as an internal way to flourish and function at optimal levels.

The linking of happiness with neurobiological mechanisms and specific genes expression, increase the concept that eudemonia is the right way to live and it might also be an alternative way to encounter physical illness and modify the existing medical models (Ryff & Singer, 1998).

Findings (Boufali-Bavella et al., 2017), confirm that happiness is a basic component of healthy ageing, it can be a protective factor against diseases and disorders, it promotes longevity, prevents better outcomes for specific diseases and enhances healthy behaviours.



Figure 1 Synthesis of existing Psychological Well Being Models

The ingredients of Happiness – Proposed Model of Psychological Equilibrium (PEM)

After a systematic review of previous research (Boufali-Bavella et al., 2017), we have indications that there is a stage of preparation before a human being can experience happiness and well-being. This preparative stage may be the Psychological Equilibrium stage (Boufali-Bavella et al., 2017) and according to our Psychological Equilibrium Model, we have approached Happiness as the result of significant performance in four fields. This systematic review of happiness serves as a psychometric basis for the development of our model and the prototype psychometric tool we are introducing. Before explaining in a more analytical way these four fields, it is crucial to note the basic limitation in the measurement of psychological well-being and happiness so far, which is the exclusive use of self-report measures. Their main disadvantage is that they force us to rely solely on subjective estimations of participants regarding their happiness levels, even though sometimes they lack knowledge as to what happiness consists of while at the same time their answers might be biased by following political correctness and social desirability tendencies. This phenomenon often leads to measures that lack reliability and validity. In order to cope with this problem, we are proposing a Psychological Equilibrium theoretical Model which measures the intensity of each field based on real-life characteristics.

The four fields that have been associated with Psychological Equilibrium and Happiness (Galanakis & Stalikas, 2019) are the following:

1. *Self-Acceptance / Positive Relationship with our self*. This dimension evaluates the degree in which the person knows itself and can regulate its emotions. It depends on variables such as self-esteem, self-image, skills, talents, satisfaction with oneself, major life accomplishments, major negative and positive life events, personal role in society, potential, opportunities, and threats.
2. *Interpersonal relationships*. This dimension focuses on the quality of relationships with friends, colleagues, acquaintances, as well as the quality of personal and sexual relationships. It also focuses on problems regarding socialization, loneliness, and superficial relationships. It reflects personal levels of emotional and social support regarding meaningful others.
3. *Family*. This dimension focuses on the quality of relationships between family members. It also deals with the variety of emotions emerging from family interaction, compatibility among family members, family history, and problematic situations regarding family matters. The notion of family relations and its quality refers to all new formulations and concepts of family that may be different from the traditional approach to the institution. Family is not only blood relations but mainly what the person defines as family based on the qualities of the relationship and the role of the members.
4. *Future goals*. This dimension focuses on whether the person has established goals for the future in a variety of fields career-wise, travel wise, personal life, expectations, aspirations and dreams.

The upper mentioned four factors as depicted in Figure 2 have also emerged from 2000 personal interviews with adults in Northern Greece. Happiness stems from the above four fields. If a person experiences a satisfying relationship with oneself, has self-esteem, uses his unique talents and skills, has deep interpersonal relationships with significant others and family, and finally, has a specific direction in life, he or she will experience high levels of happiness. These four axes appear to synthesize the theoretical basis of the model.

The Psychological Equilibrium Model aims to understand in a deeper way the concept of happiness and psychological well-being and investigate what really makes humans able or not able, to experience eudemonia and happiness.

Psychological Equilibrium Model



Figure 2 Psychological Equilibrium Model (Galanakis and Stalikas, 2019)

A basic goal of this critical review is the further development of research in the field of psychological health and positive human functioning. We aim to create a prototype psychometric tool that will aid us to better understand the phenomenon of happiness and psychological well-being, in order to design targeted interventions and psycho-educational programs, aiming to develop, increase and establish the basic features that facilitate the state of psychological health. This prototype psychometric tool will help us, and the wider scientific community, to investigate a complex concept of human optimal functioning, which is already connected with positive psychology variables such as mindfulness, self-compassion, positive emotions, positivity, optimism, meaning of life, hope, faith, psychological resilience, companionship, social support, and emotional intelligence, in terms of objective aspects of everyday life. The Psychological Equilibrium Model Scale (PEMS) will constitute an extension and evolution of the already existing research and our goal is to provide evidence for the pursuit of happiness and psychological well-being. Our expectation is that the PEMS will expand our knowledge on those two concepts and at the same time will establish a new conceptual framework in order to facilitate new applications of the model and further research projects.

This prototype tool will also solve existing limitations of self-report measurement, as it approaches happiness and psychological well-being, by measuring in an objective way, the intensity of the four aspects of the Psychological Equilibrium Model. This seems to be the basic problem of existing psychometric tools on happiness. Furthermore, this tool will be able to illuminate the unclear concept of why some people are happier than others and why people who are expected to score lower in the psychological well-being scales, finally do not. In a recent study (Bassi et al., 2013), which examined the levels of happiness in people with multiple sclerosis, their caregivers and their health professionals, results showed that the caregivers of persons with multiple sclerosis reported low levels of happiness, same as the people who were suffering from the disease. Based on previous research and existing literature (Boufali-Bavella et al., 2017), we came to conclude that it has to be a previous stage, including specific characteristics, which facilitates the presence of happiness. And, if this stage is not well established, none intervention can be beneficial for a long-time period. Maybe this stage is the Psychological Equilibrium stage that future research can empirically validate (Galanakis & Stalikas, 2019).

Measuring and examining the concept of psychological balance in difficult circumstances is a key point of the core of eudemonia and psychological well-being. If we take under consideration what is mentioned above, people living according to their demon doesn't mean that they don't experience stressful situations but they use their inner resources of subjective vitality to push them to choose

behaviours helpful to revisit their feel of eudemonia (Klug et al., 2002). Positive functioning and psychological balance do not prerequisite external balance or social prosperity. Conversely, psychological balance, and health are probably what keep people alive and fully functional in adverse conditions.

The concepts of happiness and its related aspects (well-being, eudemonia, prosperity) have not yet been fully understood and described in the scientific community. Their complexity and the self-referencing tools used in their research do not allow us to reveal their deeper contribution to psychological health. It is difficult to have a definition of these concepts because of their unique importance to each of us. The most common definition of happiness is in terms of frequent positive affect, high satisfaction with life, and rare negative experiences. Our aim is to eliminate this constraint and measure levels of psychological happiness with an objective psychometric tool based on the psychological balance model that measures the intensity of each aspect (self-acceptance, interpersonal relationships, family relationships, and future goals) about the real characteristics. We support the fact that all individuals are able to experience aspects of happiness if they have reached a psychological equilibrium phase.

Discussion

Literature suggests that happy people are more likely to achieve greater self-control, self-regulation and coping abilities (Aspinwall, 1998; Fredrickson & Joiner, 2002; Keltner & Bonanno, 1997), enhanced immune system (Dillon et al., 1985), and even to live a longer life (Danner et al., 2001; Ostir et al., 2000). Also, happy people are not just self-centered or selfish. Literature suggests that happy people tend to be more cooperative, philosophical, altruistic, and tend to help their fellow human beings. (Isen, 1970; Kasser & Ryan, 1996; Williams & Shiaw, 1999)

Although the sources of personal happiness may differ (Lyubomirsky, 2001; Lyubomirsky & Lepper, 1999), in almost every culture, people classify the pursuit of happiness as one of the most worthwhile goals in life (Diener & Oishi, 2000; Diener et al., 1995; Freedman, 1978; Triandis et al., 1990). Moreover, the positive effects of happiness seem to benefit not only individuals but families, communities, and societies (Myers, 1992; Veenhoven, 1988). However, little is known about the sources of individual differences in adult happiness and why some people manage to maintain happiness, while others are constantly oriented towards misery (Lyubomirsky, 2001).

In the area of happiness, very few intervention studies have been carried out. In fact, researchers are still surprisingly little awareness of how to increase happiness and help people become happier (Lyubomirsky et al., 2005). An important reason for this neglected area is scientific pessimism about whether increases in happiness can actually occur. Fortunately, there is a shift in this concept and a more optimistic viewpoint has been found in the scientific field, providing evidence that happiness can and should be increased (Lyubomirsky et al., 2005).

The results from previous surveys show that older people are happier than younger (Charles et al., 2001; Diener & Suh, 1998; Roberts & Chapman, 2000; Sheldon & Kasser, 2001). These data confirm the view that happiness can be achieved over time and more importantly not only by some people but perhaps by their majority (Lyubomirsky et al., 2005).

Another theoretical perception of happiness refers to the fact that if we influence the types of experiences and environments we have or seek to have, we can expect increased levels of happiness (Lyubomirsky et al., 2005). Researchers looked at the objective determinants of happiness in Western cultures and the extent to which happiness relates to environmental aspects and demographic factors such as age and gender. According to this objective view, happy people are the ones who have the most



advantages in everyday life, for example, a comfortable income or a supportive marriage. However, the general conclusion from almost a century of research on the determinants of happiness is that objective circumstances, demographic variables and life events are associated with the variable less strongly than expected and complementary evidence suggests that they cannot secure happiness or life satisfaction (Diener et al., 1999; Lyubomirsky & Ross, 1997). Circumstances, demographic variables, and life events do not account for more than 8% to 15% of the variance in levels of happiness (Andrews & Withey, 1976; Argyle, 1999; Diener, 1984).

Still, the question of the ability or not to increase happiness remains, where some theoretical perspectives show that happiness can increase, and other theories imply that it cannot. In addition, a critical question to be answered is what circumstances, activities or habits are most likely to bring benefits that can be maintained in order to increase happiness (Lyubomirsky et al., 2005). These elements are crucial and must serve as a theoretical basis for the development of new psychometric tools in the field of Positive Psychology.

Happiness is mostly a subjective experience that everyone defines in an exclusive and unique way. However, as Lyubomirsky (2005) points out: "The fact that the view of happiness is necessarily subjective does not mean that the influences on this view cannot be studied empirically." (Larsen & Fredrickson, 1999; Schwarz & Strack, 1999). In addition, Lyubomirsky (2005) adds a key point to the measurement of happiness suggesting that even if the appreciation of happiness is subjective, it does not necessarily mean that it is not related to relatively more "objective" variables.

In addition, another question about happiness needs to be answered: the question of how a person could take appropriate steps to "pursue" happiness. We have reasons to believe and, potentially, in the future, to investigate that it is possible to become happier if the four aspects of psychological equilibrium are growing and expanding. Based on the existing literature, it is already known that a change in deliberate activities can provide a potential for enhancing happiness. However, it is not yet clear how to maintain and expand this strengthening potential. We also know that happiness can increase but the data show that this will not last, mainly due to the hedonistic adaptation, which tends to move people back to their starting point after any positive change (Lyubomirsky et al., 2005). After a long period of research, we have come to another conclusion, which suggests that it is not the hedonic adaptation that reflects levels of happiness, but rather the level of psychological equilibrium that it has not yet been conquered.

Moreover, data show that wealth and health variables have little psychological effect on the well-being of people. Conversely, a series of psychological processes are required to alternate the effects of stressful events, living conditions, and demographic factors on levels of happiness (Lyubomirsky, 2001). We currently are on the way to collect valid evidence, based mostly on bibliographic research, that individuals experiencing higher levels in the four aspects of the psychological equilibrium model will be more able to mitigate the interpretation of unfavorable living conditions and at the same time maintain their high level of happiness. These data will serve as the conceptual basis of our model and will help us validate the psychometric qualities of the psychometric tool.

References

- Andrew, M. K, Fisk, J. D, & Rockwood, K. (2012). Psychological well-being in relation to frailty: a frailty identity crisis? *International Psychogeriatrics*, 24, 1347-1353. <https://doi.org/10.1017/S1041610212000269>
- Andrews, F. M., & Withey, S. B. (1976). *Social indicators of well-being: America's perception of life quality*. Plenum Press. <https://doi.org/10.1007/978-1-4684-2253-5>

- Argyle, M. (1999). Causes and correlates of happiness. In D. Kahneman, E. Diener, & N. Schwarz (Eds.), *Well-being: The foundations of hedonic psychology* (pp. 353-373). Russell Sage Foundation
- Aristotle (1925). *The Nicomachean Ethics*. Oxford University Press.
- Aspinwall, L. G. (1998). Rethinking the role of positive affect in self-regulation. *Motivation and Emotion*, 22, 1-32. <https://doi.org/10.1023/A:1023080224401>
- Baltes, P. B., & Baltes, M. M. (1990). Psychological perspectives on successful aging: The model of selective optimization with compensation. In P. B. Baltes & M. M. Baltes (Eds.), *Successful aging: Perspectives from the behavioral sciences* (pp. 1-34). Cambridge University Press.
- Bassi, M., Falautano, M., Silia, C., Goretti, B., Grobberio, M., Pattini, M., Pietrolongo, E., Viterbo, R. G., Amato, M. P., Benim, M., Lugaresi, A., Martinelli, V., Montanari, E., Patti, F., Trojano, M., & Delle Fave, A. (2013). The coexistence of well- and ill-being in persons with multiple sclerosis, their caregivers and health professionals, *Journal of the Neurological Sciences*, 337(1-2), 67-73. <https://doi.org/10.1016/j.jns.2013.11.018>
- Baumeister, R. F. (1991). *Meanings of life*. Guilford Press.
- Boufali-Bavella, C., Galanakis, M., & Stalikas, A. (2017). Eudemonic well-being and physical health. A systematic review. *International Journal of humanities and Social Studies (IJHSS)*, 5(3), 222-235. <http://internationaljournalcorner.com/index.php/theijhss/article/view/125301>
- Boyle, P. A., Buchman, A. S., Wilson, R. S., Yu, L., Schneider, J. A., & Bennett, D. A. (2012). Effect of purpose in life on the relation between Alzheimer disease pathologic changes on cognitive function in advanced age. *JAMA Psychiatry*, 69, 499-506. <https://doi.org/10.1001/archgenpsychiatry.2011.1487>
- Carr, D. (1997). The fulfillment of career dreams at midlife: Does it matter for women's mental health? *Journal of Health and Social Behavior*, 38, 331-344. <https://doi.org/10.2307/2955429>
- Carver, C. S., & Scheier, M. F. (1990). Origins and functions of positive and negative affect: A control-process view. *Psychological Review*, 97, 19- 35. <https://doi.org/10.1037/0033-295X.97.1.19>
- Charles, S. T., Reynolds, C. A., & Gatz, M. (2001). Age-related differences and change in positive and negative affect over 23 years. *Journal of Personality and Social Psychology*, 80, 136-151. <https://doi.org/10.1037/0022-3514.80.1.136>
- Clarke, P. J., Marshall, V. W., Ryff, C. D., & Rosenthal, C. J. (2000). Well-being in Canadian seniors: Findings from the Canadian Study of Health and Aging. *Canadian Journal on Aging*, 19, 139-159. <https://doi.org/10.1017/S0714980800013982>
- Csikszentmihalyi, M. (1999). If we are so rich, why aren't we happy? *American Psychologist*, 54(10), 821-827. <https://doi.org/10.1037/0003-066X.54.10.821>
- Danner, D. D., Snowdon, D. A., & Friesen, W. V. (2001). Positive emotions in early life and longevity: Findings from the nun study. *Journal of Personality and Social Psychology*, 80, 804-813. <https://doi.org/10.1037/0022-3514.80.5.804>
- Deci, E. L., & Ryan, R. M. (1985). *Intrinsic motivation and self-determination in human behaviour*. Plenum. <https://doi.org/10.1007/978-1-4899-2271-7>
- Diener, E. (1984). Subjective well-being. *Psychological Bulletin*, 95, 542-575.
- Diener, E. (2009). *Assessing well-being: The collected works of Ed Diener*. Springer.
- Diener, E., & Oishi, S. (2000). Money and happiness: Income and subjective well-being across nations. In E. Diener & E. M. Suh (Eds.), *Culture and subjective well-being* (pp. 185-218). MIT Press.
- Diener, E., & Seligman, M. E. (2002). Very happy people. *Psychological Science*, 13, 81-84. <https://doi.org/10.1111/1467-9280.00415>
- Diener, E., & Suh, M. E. (1998). Subjective well-being and age: An international analysis. In K. W. Schaie & M. P. Lawton (Eds.), *Annual review of gerontology and geriatrics: Vol. 17. Annual review of gerontology and geriatrics, Vol. 17. Focus on emotion and adult development* (p. 304-324). Springer.
- Diener, E., Suh, E. M., Smith, H., & Shao, L. (1995). National differences in reported wellbeing: Why do they occur? *Social Indicators Research*, 34, 7-32. <https://doi.org/10.1007/BF01078966>
- Diener, E., Suh, E., Lucas R., & Smith H. (1999). Subjective Well-Being: Three Decades of Progress. *Psychological Bulletin*. 125, 276-302. <https://doi.org/10.1037/0033-2909.125.2.276>



- Dillon, K. M., Minchoff, B., & Baker, K. H. (1985). Positive emotional states and enhancement of the immune system. *International Journal of Psychiatry in Medicine*, 15, 13-18. <https://doi.org/10.2190/R7FD-URN9-PQ7F-A6J7>
- Dykman, B. M. (1998). Integrating cognitive and motivational factors in depression: Initial tests of a goal-orientation approach. *Journal of Personality and Social Psychology*, 74, 139-158. <https://doi.org/10.1037/0022-3514.74.1.139>
- Fava, G. A., Rafanelli, C., Grandi, S., Conti, S., & Belluardo, P. (1998). Prevention of recurrent depression with cognitive behavioral therapy. *Archives of General Psychiatry*, 55, 479-480. <https://doi.org/10.1001/archpsyc.55.9.816>
- Fredrickson, B. L., & Joiner, T. (2002). Positive emotions trigger upward spirals toward emotional well-being. *Psychological Science*, 13, 172-175. <https://doi.org/10.1111/1467-9280.00431>
- Fredrickson, B. L., Grewen, K. M., Coffey, K. A., Algoe, S. B., Firestone, A. M., Arevalo, J. M. G., M., J., & Cole, S. W. (2013). A functional genomic perspective on human well-being. *Proceedings of the National Academic Science of the United States of America*, 110, 13684-13689. <https://doi.org/10.1073/pnas.1305419110>
- Fredrickson B. L., Grewen K. M., Algoe S. B., Firestone A. M., Arevalo J. M. G., M. J., Cole S. W. (2015) Psychological Well-Being and the Human Conserved Transcriptional Response to Adversity. *PLOS ONE*, 11(6), Article e0157116. <https://doi.org/10.1371/journal.pone.0121839>
- Freedman, J. (1978). *Happy people: What happiness is, who has it, and why*. Harcourt Brace Jovanovich.
- Friedman, E. M., & Ryff, C. D. (2012). Living well with medical comorbidities: a biopsychosocial perspective. *The Journal of Gerontology Series B: Psychological Sciences and Social Sciences*, 67, 535-544. <https://doi.org/10.1093/geronb/gbr152>
- Frijda, N. H. (1999). Emotions and hedonic experience. In D. Kahneman, E. Diener, & N. Schwarz (Eds.), *Well-being: The foundations of hedonic psychology* (pp. 190-210). Russell Sage Foundation.
- Galanakis M., & Stalikas A. (2019) *Psychological Equilibrium. A new model and a new test for enhancing Psychological Well Being and Happiness* [Manuscript in Preparation]. School of Social Sciences, Hellenic Open University.
- Gale C., Gilbert P., Read N., & Goss K. (2014). An evaluation of the impact of introducing compassion focused therapy to a standard treatment programme for people with eating disorders. *Clinical Psychology and Psychotherapy*, 21(1), 1-12. <https://doi.org/10.1002/cpp.1806>
- Garcia, B., Stollar E. J., & Davidson A. R. (2012). The importance of conserved features of yeast actin-binding protein 1 (Abp1p): the conditional nature of essentiality. *Genetics*, 191(4), 1199-211. <https://doi.org/10.1534/genetics.112.141739>
- Heidrich, S. M., & Ryff, C. D. (1993). The role of social comparisons processes in the psychological adaptation of elderly adults. *Journal of Gerontology*, 48, 127-136. <https://doi.org/10.1093/geronj/48.3.P127>
- Hill, P., & Turiano, N. (2014). Purpose in Life as a Predictor of Mortality across Adulthood. *Psychological Science*, 25(7), 1482-1486. <https://doi.org/10.1177/0956797614531799>
- Isen, A. M. (1970). Success, failure, attention and reaction to others: The warm glow of success. *Journal of Personality and Social Psychology*, 15, 294-301. <https://doi.org/10.1037/h0029610>
- Kagee A., & Dixon N. D. (2000). Worldview and Health Promoting Behavior: A Causal Model. *Journal of Behavioral Medicine*, 23(2), 87-99. <https://doi.org/10.1023/A:1005465102002>
- Kasser, T., & Ryan, R. M. (1996). Further examining the American dream: Differential correlates of intrinsic and extrinsic goals. *Personality and Social Psychology Bulletin*, 22, 280-287. <https://doi.org/10.1177/0146167296223006>
- Keltner, D., & Bonanno, G. A. (1997). A study of laughter and dissociation: Distinct correlates of laughter and smiling during bereavement. *Journal of Personality and Social Psychology*, 73, 687- 702. <https://doi.org/10.1037/0022-3514.73.4.687>
- Keyes, C. L. M., & Ryff, C. D. (1998). Generativity in adult lives: Social structural contours and quality of life consequences. In D. McAdams & E. de St. Aubin (Eds.), *Generativity and adult development:*

- Perspectives on caring for and contributing to the next generation* (pp. 227– 263). American Psychological Association.
- Kim, E. S., Strecher, V. J., & Ryff, C. D. (2014). Purpose in life and use of preventive health care services. *Proceedings of the National Academy of Sciences of the United States of America*, 111(46), 16331-16336. <https://doi.org/10.1073/pnas.1414826111>
- Kim, E., Sun, J., Park, N., Kubzansky, L., & Peterson, C. (2012). Purpose in life and reduced risk of myocardial infarction among older US adults with coronary heart disease: a two-year follow-up. *Journal of Behavioral Medicine*, 36, 124-33. <https://doi.org/10.1007/s10865-012-9406-4>
- Kim, E. S., Sun, J. K., Park, N., & Peterson, C. (2013). Purpose in life and reduced stroke in older adults: the health and retirement study. *Journal of Psychosomatic Research*, 74, 427-432. <https://doi.org/10.1016/j.jpsychores.2013.01.013>
- Kimiecik, J. (2011). Exploring the promise of eudemonic well-being within the practice of health promotion: The “how” is important as the “what”. *Journal of Happiness Studies*, 12(5), 769-792. <https://doi.org/10.1007/s10902-010-9226-6>
- Kling, K. C., Ryff, C. D., & Essex, M. J. (1997a). Adaptive changes in self-concept during a life transition. *Personality and Social Psychology Bulletin*, 23, 989-998. <https://doi.org/10.1177/0146167297239008>
- Kling, K. C., Seltzer, M. M., & Ryff, C. D. (1997b). Distinctive late life challenges: Implications for coping and well-being. *Psychology and Aging*, 12, 288-295. <https://doi.org/10.1037/0882-7974.12.2.288>
- Klug, C., Neuburg J., Schwarz B., Kermer C., & Millesi W. (2002). Quality of life 2–10 years after combined treatment for advanced oral and oropharyngeal cancer. *Evidence-Based Medicines*, 31(6), 664-669. <https://doi.org/10.1054/ijom.2002.0301>
- Larsen, R. J., & Fredrickson, B. L. (1999). Measurement issues in emotion research. In D. Kahneman, E. Diener, & N. Schwarz (Eds.), *Well-being: The foundations of hedonic psychology* (pp. 40-60). Russell Sage Foundation.
- Lewis S. E., Aitken R. A., & Conner S. J. (2013) The impact of sperm DNA damage in assisted conception and beyond: recent advances in diagnosis and treatment. *Reprod Biomed Online*, 27, 325-337. <https://doi.org/10.1016/j.rbmo.2013.06.014>
- Li, L. W., Seltzer, M. M., & Greenberg, J. S. (1999). Change in depressive symptoms among daughter caregivers: An 18-month longitudinal study. *Psychology and Aging*, 14, 206-219. <https://doi.org/10.1037/0882-7974.14.2.206>
- Lyubomirsky, S. (2001). Why are some people happier than others?: The role of cognitive and motivational processes in well-being. *American Psychologist*, 56, 239-249. <https://doi.org/10.1037/0003-066X.56.3.239>
- Lyubomirsky, S., King, L. A., & Diener, E. (2004). *Is happiness a strength?: An examination of the benefits and costs of frequent positive affect?* *Psychological Bulletin* Copyright 2005 by the American Psychological Association 2005, Vol. 131, No. 6, 803– 855 0033-2909/05/\$12.00 DOI: 10.1037/0033-2909.131.6.803 <https://www.apa.org/pubs/journals/releases/bul-1316803.pdf>
- Lyubomirsky, S., & Lepper, H. S. (1999). A measure of subjective happiness: Preliminary reliability and construct validation. *Social Indicators Research*, 46, 137-155. <https://doi.org/10.1023/A:1006824100041>
- Lyubomirsky, S., Sheldon, K., Schkade, D. (2005). Pursuing Happiness: The Architecture of Sustainable Change. *Review of General Psychology*, 9, 111-131 http://www.escholarship.org/help_copyright.html#reuse
- Lyubomirsky, S., Sousa, L., & Dickerhoof, R. (2004). The medium is the message: The costs and benefits of thinking, writing, and talking about life's triumphs and defeats *Journal of Personality and Social Psychology* Copyright 2006 by the American Psychological Association 2006, Vol. 90, No. 4, 692-708 <https://doi.org/10.1037/0022-3514.90.4.692>
- Lyubomirsky, S., & Ross, L. (1997). Hedonic consequences of social comparison: A contrast of happy and unhappy people. *Journal of Personality and Social Psychology*, 73, 1141- 1157. <https://doi.org/10.1037/0022-3514.73.6.1141>



- Lyubomirsky, S., Tkach, C., & Sheldon, K. M. (2004). *Pursuing sustained happiness through random acts of kindness and counting one's blessings: Tests of two six-week interventions* [Unpublished data]. University of California, Riverside.
- Lyubomirsky, S., & Tucker, K. L. (2001). *Social comparison processes among happy and unhappy people: Affective and cognitive responses to hedonically conflicting feedback*. *European Journal of Social Psychology*, 31, 511-535. <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.379.5&rep=rep1&type=pdf>
- Mack J. W., Cronin A., Keating N. L., Taback N., Huskamp H. A., Malin J. L., Earle C. C., & Weeks J. C. (2012). Associations between end-of-life discussion characteristics and care received near death: a prospective cohort study. *Journal of Clinical Oncology*, 30(35), 4387-95. <https://doi.org/10.1200/JCO.2012.43.6055>
- Marks, N. F., & Lambert, J. D. (1998). Marital status continuity and change among young and midlife adults: Longitudinal effects on psychological well-being. *Journal of Family Issues*, 19, 652-686. <https://doi.org/10.1177/019251398019006001>
- Marmot, M., Ryff, C. D., Bumpass, L. L., Shipley, M., & Marks, N. F. (1997). Social inequalities in health: Converging evidence and next questions. *Social Science and Medicine*, 44, 901-910. [https://doi.org/10.1016/S0277-9536\(96\)00194-3](https://doi.org/10.1016/S0277-9536(96)00194-3)
- McGregor I, Little B. R. (1998). Personal projects, happiness, and meaning: on doing well and being yourself. *Journal of Personality and Social Psychology*, 74, 494-512. <https://doi.org/10.1037/0022-3514.74.2.494>
- McKinley, N. M. (1999). Women and objectified body consciousness: Mothers' and daughters' body experience in cultural, development, and familial context. *Developmental Psychology*, 35, 760-769. <https://doi.org/10.1037/0012-1649.35.3.760>
- Myers, D. G. (1992). *The pursuit of happiness*. William Morrow.
- Myers, D. G., & Diener, E. (1995). Who is happy? *Psychological Science*, 6, 10-19. <https://doi.org/10.1111/j.1467-9280.1995.tb00298.x>
- Ostir, G. V., Markides, K. S., Black, S. A., & Goodwin, J. S. (2000). Emotional well-being predicts subsequent functional independence and survival. *Journal of the American Geriatric Society*, 48, 473-478. <https://doi.org/10.1111/j.1532-5415.2000.tb04991.x>
- Roberts, B. W., & Chapman, C. N. (2000). Change in dispositional well-being and its relation to role quality: A 30-year longitudinal study. *Journal of Research in Personality*, 34, 26-41. <https://doi.org/10.1006/jrpe.1999.2259>
- Rowe, J. W., & Kahn, R. L. (1998). *Successful aging*. Pantheon Books.
- Ryan, R. M., & Deci, E. L. (2001). On happiness and human potentials: a review of research on hedonic and eudemonic well-being. *Annual Review of Psychology*, 52, 141-166. <https://doi.org/10.1146/annurev.psych.52.1.141>
- Ryan, R., Huta, V., & Deci, E. (2008). Living well: A self-determination theory perspective of eudemonia. *Journal of Happiness Studies*, 9, 139-170. <https://doi.org/10.1007/s10902-006-9023-4>
- Ryff, C. D. (1982). Successful aging: A developmental approach. *The Gerontologist*, 22, 209-214. <https://doi.org/10.1093/geront/22.2.209>
- Ryff, C. D. (1989). Happiness is everything, or is it? Explorations on the meaning of psychological well-being. *Journal of Personality and Social Psychology*, 57, 1069-1081. <https://doi.org/10.1037/0022-3514.57.6.1069>
- Ryff, C. D. (2002). Optimizing Well-Being: The empirical encounter of two traditions. *Journal of Personality and Social Psychology*, 82(6), 1007-1022. <https://doi.org/10.1037/0022-3514.82.6.1007>
- Ryff, C. D. (2012a). Existential well-being and health. In P. T. P. Wong (Ed.), *The human quest for meaning* (2nd ed., pp. 233-248). Routledge.
- Ryff, C. D. (2012b). Varieties of resilience and their biological underpinnings. *European Health Psychologist*, 14(3), 70-75. <https://doi.org/10.1037/e544782013-005>

- Ryff, C. D. (2013). Eudemonic well-being and health: Mapping consequences of self-realization. In A. S. Waterman (Ed), *The best within us: Positive psychology perspectives on eudemonia* (pp.77-98). American Psychological Association.
- Ryff, C. D. (2014a). Psychological well-being revisited: Advances in the Science and Practice of Eudemonia. *Psychotherapy and Psychosomatics*, 83, 10-28. <https://doi.org/10.1159/000353263>
- Ryff, C. D. (2014b). Self-realisation and meaning making in the face of adversity: A eudemonic approach to human resilience. *Journal of Psychology in Africa*, 24, 1-12. <https://doi.org/10.1080/14330237.2014.904098>
- Ryff, C. D., Friedman, E. M., Morozink, J. A., & Tsenkova, V. (2012). Psychological resilience in adulthood and later life: Implications for health. In B. Hayslip, J. & G. C. Smith (Eds.), *Annual review of gerontology and geriatrics: Vol. 32. Annual review of gerontology and geriatrics, Vol. 32. Emerging perspectives on resilience in adulthood and later life* (pp. 73-92). Springer Publishing Co. <https://doi.org/10.1891/0198-8794.32.73>
- Ryff, C. D., & Keyes, C. L. M. (1995). The structure of psychological well-being revisited. *Journal of Personality and Social Psychology*, 69, 719-727. <https://doi.org/10.1037/0022-3514.69.4.719>
- Ryff, C. D., Keyes, C. L. M., Hughes, D. L. (2004). Psychological well-being in MIDUS: profiles of ethnic/racial diversity and life course uniformity. In O. G. Brim, C. D. Ryff, R. C. Kessler, (Eds.), *How Healthy Are We? A National Study of Well-being at Mid-life, The John D. and Catherine T. MacArthur Foundation Series on Mental Health and Development: Studies on Successful Midlife Development* (pp. 398-424). University of Chicago Press.
- Ryff, C. D., Radler, B. T., & Friedman, E. M. (2015). Persistent psychological well-being predicts improved self-rated health over 9-10 years: Longitudinal evidence from MIDUS. *Health Psychology Open*, 2, 112-121. <https://doi.org/10.1177/2055102915601582>
- Ryff, C. D., Schmutte, P. S., & Lee, Y. H. (1996). How children turn out: Implications for parental self-evaluation. In C. D. Ryff & M. M. Seltzer (Eds.), *The parental experience in midlife* (pp. 383-422). University of Chicago Press.
- Ryff, C. D., & Singer, B. (1996). Psychological well-being: Meaning, measurement, and implications for psychotherapy research. *Psychotherapy and Psychosomatics*, 65, 14-23. <https://doi.org/10.1159/000289026>
- Ryff, C. D., & Singer, B. H. (1998a). The contours of positive human health. *Psychological Inquiry*, 9, 1-28. https://doi.org/10.1207/s15327965pli0901_1
- Ryff, C.D., Singer, B.H. (1998b). The role of purpose in life and personal growth in positive human health. In P. T. P. Wong & P. S. Fry (Eds.), *The human quest for meaning: A handbook of psychological research and clinical applications* (pp. 213-235). Erlbaum.
- Ryff, C. D. & Singer, B. (2008). Know thyself and become what you are: a eudemonic approach to psychological well-being. *Journal of Happiness Studies*, 9, 13-39. <https://doi.org/10.1007/s10902-006-9019-0>
- Ryff, C. D., Singer, B., & Love, G. D. (2004). Positive health: connecting well-being with biology. *Philosophical Transactions of the Royal Society Biological Sciences*, 359(1449), 1383-1394. <https://doi.org/10.1098/rstb.2004.1521>
- Ryff, C. D., Singer, B., Love, G. D., & Essex, M. J. (1998). Resilience in adulthood and later life: Defining features and dynamic processes. In J. Lomranz (Ed.), *Handbook of aging and mental health: An integrative approach* (pp. 69-96). Plenum.
- Schaefer, S. M., Boylan, J. M., Van Reekum, C. M., Lapate, R. C., Norris, C. J., Ryff, C. D., & Davidson, R. J. (2013). Purpose in life predicts better emotional recovery from negative stimuli. *PLOS ONE*, 8, 188-199. <https://doi.org/10.1371/journal.pone.0080329>
- Schwarz, N., & Strack, F. (1999). Reports of subjective well-being: Judgmental processes and their methodological implications. In D. Kahneman, E. Diener, & N. Schwarz (Eds.), *Well-being: The foundations of hedonic psychology* (pp. 61-84). Russell Sage Foundation.
- Seligman, M. E. P., & Csikszentmihalyi, M. (2000). Positive psychology: An introduction. *American Psychologist*, 55, 5-14. <https://doi.org/10.1037/0003-066X.55.1.5>



- Seligman, M. E. (2002). *Authentic Happiness: Using the New Positive Psychology to Realize Your Potential for Lasting Fulfilment*. Free Press.
- Sheldon, K. M., & Kasser, T. (1995). Coherence and congruence: Two aspects of personality integration. *Journal of Personality and Social Psychology*, 68, 531-543. <https://doi.org/10.1037/0022-3514.68.3.531>
- Sheldon, K. M., & Kasser, T. (1998). Pursuing personal goals: Skills enable progress but not all progress is beneficial. *Personality and Social Psychology Bulletin*, 24, 1319-1331. <https://doi.org/10.1177/01461672982412006>
- Sheldon, K. M., & Kasser, T. (2001). Getting older, getting better?: Personal strivings and psychological maturity across the life span. *Developmental Psychology*, 37, 491-501. <https://doi.org/10.1037/0012-1649.37.4.491>
- Singer, B., Ryff, C. D., Carr, D., & Magee, W. J. (1998). Life histories and mental health: A person-centered strategy. In A. Raftery (Ed.), *Sociological methodology* (pp 134-156). American Sociological Association.
- Smider, N. A., Essex, M. J., & Ryff, C. D. (1996). Adaptation to community relocation: The interactive influence of psychological resources and contextual factors. *Psychology and Aging*, 11, 362-371. <https://doi.org/10.1037/0882-7974.11.2.362>
- Stone, A. A., Neale, J. M., Cox, D. S., Napoli, A., Vadlimarsdottir, V., & Kennedy-Moore, E. (1994). Daily events are associated with a secretory immune response to an oral antigen in men. *Health Psychology*, 13, 440-446. <https://doi.org/10.1037/0278-6133.13.5.440>
- Tomba, E., & Tecuta, L. (2016). Well-Being Therapy in a Patient with Anorexia Nervosa. *Psychotherapy and Psychosomatics*, 85, 369-370. <https://doi.org/10.1159/000448052>
- Triandis, H. C., Bontempo, R., Leung, K., & Hui, C. H. (1990). A method for determining cultural, demographic, and personal constructs. *Journal of Cross-Cultural Psychology*, 21, 302-318. <https://doi.org/10.1177/0022022190213003>
- Veenhoven, R. (1988). The utility of happiness. *Social Indicators Research*, 20, 333-354. <https://doi.org/10.1007/BF00302332>
- Waterman, A. S. (1984). *The Psychology of Individualism*. Praeger.
- Williams, S., & Shiaw, W. T. (1999). Mood and organizational citizenship behavior: The effects of positive affect on employee organizational citizenship behavior intentions. *Journal of Psychology*, 133, 656-668. <https://doi.org/10.1080/00223989909599771>
- Wong, P. T. P., & Fry, P. S. (Eds.). (1998). *The human quest for meaning*. Erlbaum.
- Zaslavsky, Oleg & Cochrane, Barbara & Thompson, Hilaire & Woods, Nancy & Herting, Jerald & Lacroix, Andrea. (2012). Frailty A Review of the First Decade of Research. *Biological research for nursing*. 15. <https://doi.org/10.1177/1099800412462866>
- Zilioli, S., Imami L., & Slatcler R. B. (2015). Life satisfaction moderates the impact of socioeconomic status on diurnal cortisol slope. *Psychoneuroendocrinology*, 60, 91-95. <https://doi.org/10.1016/j.psyneuen.2015.06.010>

BIBΛΙΟΓΡΑΦΙΚΗ ΑΝΑΣΚΟΠΗΣΗ | REVIEW PAPER

Η συνταγή της Ευτυχίας: Μια συστηματική επισκόπηση και ένα νέο ψυχομετρικό εργαλείο για τη μέτρηση της.

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ΛΕΞΕΙΣ ΚΛΕΙΔΙΑ	ΠΕΡΙΛΗΨΗ
<p>αυτοαποδοχή, αυτογνωσία, διαπροσωπικές σχέσεις, ευδαιμονία, ευτυχία, μέτρηση, Μοντέλο Ψυχολογικής Ισορροπίας (ΜΨΙ), συστηματική επισκόπηση, ψυχολογική ευημερία, ψυχομετρικό εργαλείο</p>	<p>Αυτή η συστηματική επισκόπηση επικεντρώνεται α) στην μέχρι σήμερα επιστημονική γνώση σχετικά με την Ευτυχία και β) στην διαδικασία δημιουργίας ενός νέου πρωτότυπου ψυχομετρικού εργαλείου για τη μέτρηση της. Για τον σκοπό αυτό προτείνεται ένα νέο μοντέλο για την επιδίωξη και την αύξηση της Ευτυχίας υπό τον τίτλο «Μοντέλο Ψυχολογικής Ισορροπίας» (ΜΨΙ). Το Μοντέλο Ψυχολογικής Ισορροπίας (ΜΨΙ) στοχεύει στο να εξερευνήσει τους βασικούς παράγοντες Ευτυχίας και να συμβάλει σε μια πιο συνθετική προσέγγιση της έννοιας. Σύμφωνα με αυτό το μοντέλο η Ευτυχία ορίζεται σαν το ψυχολογικό αποτέλεσμα αέναης ανάπτυξης σε τέσσερις τομείς. Συγκεκριμένα, αν το άτομο βιώνει α) υψηλά επίπεδα αυταξίας – αυτοαποδοχής, β) θετικές σχέσεις με την οικογένεια του και γ) τους φίλους του και δ) βρίσκεται σε διαδικασία επιδίωξης υψηλών στόχων για το μέλλον, τότε θα είναι σε θέση να κατακτήσει υψηλά επίπεδα ευτυχίας. Ο κύριος στόχος αυτού του νέου μοντέλου είναι να βασίσει την ευτυχία στην αξιολόγηση αντικειμενικά μετρήσιμων παραγόντων και προσωπικών χαρακτηριστικών, σε αντιδιαστολή με την απλή υποκειμενική αντίληψη – αυτοαναφορά που έχει κυριαρχήσει μέχρι σήμερα για την μέτρηση της. Με αυτόν τον τρόπο μπορούμε να οδηγηθούμε στην ανάπτυξη ενός νέου αντικειμενικού τρόπου μέτρησης του βαθμού ευτυχίας συνδυάζοντας τις επιμέρους μετρήσεις των διαστάσεων του Μοντέλου Ψυχολογικής Ισορροπίας (ΜΨΙ). Απώτερος στόχος μας είναι η προσέγγιση της ευτυχίας με έναν νέο πιο ολιστικό και κατανοητό τρόπο.</p>
ΣΤΟΙΧΕΙΑ ΕΠΙΚΟΙΝΩΝΙΑΣ	
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