A structural model of well-being, spontaneity and self-efficacy: Italian validation between adolescents and young adults

Resumo

Introdução: A transição da adolescência para a idade adulta envolve muitos desafios e oportunidades de promover independência, autossuficiência financeira, assunção de responsabilidades e a saída da casa dos pais. A literatura mostra que, na passagem entre essas duas fases do ciclo vital, muitos fatores podem intervir, gerando mudanças significativas.

Métodos: Este estudo considerou três dimensões psíquicas: bem-estar, investigado através do Clinical Outcomes in Routine Evaluation-Outcome Measure (CORE-OM); espontaneidade, investigada através do Spontaneity Assessment Inventory-Revised (SAI-R); e autoeficácia, investigada por meio da escala General Self-Efficacy (GSE). O estudo envolveu dois grupos de participantes italianos: 495 adolescentes, aged between 13 and 19 years, selected at a high school; and 368 young adults, aged between 18 and 30 years, recruited by snowball sampling.

Resultados: Results of confirmatory factor analysis for each instrument in each group indicate the validity of the three instruments for both age groups. No significant differences were found between adolescents and young adults on total or subtotal scores of the CORE-OM, except for the risk factor. Conversely, the mean scores obtained with SAI-R and GSE were very different between adolescents and young adults.

Conclusões: Os resultados da análise fatorial confirmatória para cada instrumento em cada grupo indicaram a validade dos três instrumentos para as duas faixas etárias. Não foram observadas diferenças significativas entre adolescentes e jovens adultos nos resultados total e subtotal do CORE-OM, exceto pelo fator risco. Por outro lado, os resultados médios obtidos nos instrumentos SAI-R e GSE foram muito diferentes entre adolescentes e jovens adultos.

Descritores: Clinical Outcomes in Routine Evaluation-Outcome Measure (CORE-OM), Spontaneity Assessment Inventory-Revised (SAI-R), General Self-Efficacy scale (GSE), adolescence, adulthood.

Abstract

Introduction: The passage from adolescence to young adulthood introduces many challenges and chances aimed at promoting independence, financial self-sufficiency, assumption of responsibilities and separation from parents. Literature shows that in the continuum between these two phases of life, many factors intervene, producing significant differentiations.

Methods: This study considered three dimensions – well-being, measured through the Clinical Outcomes in Routine Evaluation-Outcome Measure (CORE-OM); spontaneity, measured through the Spontaneity Assessment Inventory-Revised (SAI-R); and self-efficacy, measured through the General Self-Efficacy scale (GSE). The study involved two groups of Italian participants: 495 adolescents, aged between 13 and 19 years, selected at a high school; and 368 young adults, aged between 18 and 30 years, recruited by snowball sampling.

Results: Results of confirmatory factor analysis for each instrument in each group indicate the validity of the three instruments for both age groups. No significant differences were found between adolescents and young adults on total or subtotal scores of the CORE-OM, except for the risk factor. Conversely, the mean scores obtained with SAI-R and GSE were very different between adolescents and young adults.

Conclusions: The results of path analysis show a significant mediation of spontaneity in the link between self-efficacy and all specific psychological distress domains for adolescents. Instead, there is a significant mediation of spontaneity between self-efficacy and all specific psychological distress domains except the risk domain for young adults.

Keywords: Clinical Outcomes in Routine Evaluation-Outcome Measure (CORE-OM), Spontaneity Assessment Inventory-Revised (SAI-R), General Self-Efficacy scale (GSE), adolescence, adulthood.
Introduction

Generally, in Western countries, the age between adolescence and young adulthood is characterized by many key developmental tasks to face, including consolidating the physical changes taking place after puberty, forming a social identity, obtaining higher education by attending secondary school and the university, leaving the childhood home, entering the workforce, forming intimate and long-term relationships, and starting a family. The passage from adolescence to young adulthood introduces the construction of independence by creating financial self-sufficiency, accepting responsibility, developing personal beliefs separate from their parents, and establishing equal adult relationships with their parents. All these changes may be particularly stressful, and therefore research has analyzed the importance of well-being in this period of life. Well-being is the state of successful performance throughout the life course, integrating physical, cognitive, emotional and social functions that produce the subjective feelings of contentment, happiness, satisfaction with one’s life experiences and role in the world of work, source of achievement, utility, and absence of distress, dissatisfaction, or worry. Since these two ages are different, because young adults have a sense of direction, in terms of the careers they have chosen, and work towards establishing a firm base for themselves, differently from adolescents, the focus of this study was to gain an understanding of some constructs that can intervene in well-being during such developmental phases, namely, spontaneity and self-efficacy.

The relationship between spontaneity and self-efficacy in adults has already been shown in the area of psychodrama research. In fact, spontaneity is a psychological construct not easily definable, which assumes an important role in the foundation of psychodrama. It was elaborated by Jacob Moreno, who defined it as “a response of an individual to a new situation and the new response to an old situation” and tried to operationalize such an idea in some early works. For a long time, only the non-standardized spontaneity test introduced by the author was used, which consists of observing and evaluating people’s performance in different situations. From this initial endeavor, some studies derived, among which Meyer’s and the one by Steitzel & Hughey. Finally, Kipper & Hundal introduced a new instrument, called Spontaneity Assessment Inventory (SAI), after which some studies were conducted to describe characteristics of spontaneity, e.g., acting from natural free will, lacking premeditation, thinking of the direction and the constraint implied by realistic and efficacious actions. Research finally confirmed that spontaneity correlates positively with the tendency to focus on behavior, feelings and thoughts related to the present situations, and correlates negatively with emotional inhibition.

Perceived self-efficacy refers to the belief in one’s own capabilities to produce a given attainment, encouraging perseverance through difficulties. A lack of this feeling, which concerns the belief of being able to control challenging situational demands, is associated with stress, depression, anxiety, and hopelessness. Even though Bandura et al. consider it as a domain-specific concept, some researchers provided findings that support the existence of a generalized sense of self-efficacy, which is strictly intertwined with self-confidence. Perceived self-efficacy influence people’s thoughts and behaviors and their emotional reactions to situations; furthermore, it determines how much effort they will expend facing obstacles. Spontaneity seems to be linked to self-efficacy, since it seems to be thought of as psychological energy that propels the individual to act adequately, without latent inhibitions, guilt, or self-doubts. Research has shown the relationship between well-being and self-efficacy, while in turn psychodrama improves the level of well-being, spontaneity and self-efficacy in adults.

This study was undertaken to investigate whether spontaneity and self-efficacy have impacts on well-being in both adolescence and young adulthood, and whether there are differences between the two age groups or not.

Aims and hypothesis

Considering that spontaneity is associated with both well-being and self-efficacy, the purpose of this study was to analyze the psychometric properties of a test battery used to investigate these constructs in a group of adolescents and young adults. The battery consists of three questionnaires: Clinical Outcomes in Routine Evaluation-Outcome Measure (CORE-OM), Spontaneity Assessment Inventory-Revised (SAI-R) and General Self-Efficacy (GSE). This work is divided in three parts: in the first part, we administer the test battery to a group of young adults and another group of adolescents; in the second part, we observe the differences between the two groups; in the third part, we test the mediation role of spontaneity in the relationship between self-efficacy and well-being.

The function of this battery is its usefulness in ex-ante and ex-post interventions of psychodrama for educative programs, in order to observe changes in the participants.
Methods

Adolescents
The participants were 495 adolescents (287 female, 203 male) recruited at a high school in Northern Italy, aged between 13 and 19 years (mean ± standard deviation = 15.43±1.50). With regard to the family situation, the group was characterized as follows: 81 were only child (16.5%), 304 had one brother or sister (62%), and 105 had more than one sibling (21.4%). Furthermore, 36 participants had separated parents (7.9%), 31 divorced (6.8%) and 385 married (84.2%); 5 did not answer this question. Most of the adolescents were single (77.4%), and 111 were involved in a relationship (22.6%).

After delivering the informed consent form to the participants’ parents, the battery was administered during school time. Each participant had a personal computer and the operation lasted 30 minutes.

Young adults
The research involved 368 participants (194 male, 174 female), aged between 18 and 30 years (22.01±2.67), recruited by snowball sampling. Among them, 307 participants were students (83%), 19 were employed (5.2%), 11 were workmen (3%) and 17 were freelance professionals (4.6%). Seventy-two participants were graduated (20%) and 276 had a high-school diploma (75%). Also, 360 participants were unmarried (97.8%) and five had children. The informed consent form was delivered along with the self-report questionnaire, and the young adult participants were advised about the study aims and procedures, being assured that participation was voluntary. The confidentiality of their responses was guaranteed. Informed consent was obtained from all participants.

The entire study followed Ethical Principles of Psychologists and Code of Conduct of the American Psychological Association and the principles of the Declaration of Helsinki.

Measures

Clinical Outcomes in Routine Evaluation-Outcome Measure (CORE-OM)

The CORE-OM was used in order to measure the level of well-being. CORE is a generic self-report measure of psychological distress. It was created as a brief, user-friendly questionnaire to assess and measure outcomes in psychological interventions. The CORE System is comprised of three instruments: CORE Assessment Form, CORE End of Therapy Form and CORE-OM. Only the last one was used in the present study.

The questionnaire consists of 34 items that measure how the participant felt during the last week; each item is evaluated on a 5-point Likert scale, ranging from 0 (not at all) to 4 (most or all of the time). Items can be divided in four domains: subjective well-being (4 items), problems (12 items), functioning (12 items) and risk (to self: 4 items; to others: 2 items). Higher scores on all domains indicate more distress, and the mean score of the item completed represents the total score.

Lyne et al.25 stated that the CORE-OM may be best scored as two scales: risk and psychological distress, which include the three remaining scales. Evans et al.26 observed good internal and test-retest reliability of the CORE-OM (0.75-0.95) and good convergent validity with seven other instruments. Furthermore, the questionnaire revealed large differences between clinical and non-clinical samples.

The Italian version of the CORE-OM27 has also shown good psychometric parameters: internal consistency was alpha > 0.90 and concurrent validity ranged from 0.79 to 0.87 for all the domains. There were statistically significant differences between clinical and non-clinical datasets on all scores.

Spontaneity Assessment Inventory-Revised (SAI-R)

This is the revised version of the original SAI,12 modified by Kipper & Shemer,24 who eliminated two idiomatic items and reduced the points of the Likert scale. The questionnaire was created to measure the occurrence of spontaneous state in people during day life. The SAI-R, like the original version, poses one initial question: “How strongly do you have these feelings and thoughts during a typical day?” The 18 items that follow represent peculiar feelings and thoughts in a spontaneous state, such as “energized” and “uninhibited,” and their occurrence during a typical day is measured on a 5-point Likert scale, ranging from 1 (very weak) to 5 (very strong). The total sum of the ratings of all the items represents a measure of the intensity of spontaneity. The Cronbach’s alpha for the SAI-R was 0.79.24 Other studies have already used the SAI-R as a measure of spontaneity.12,16

The Italian validation of the SAI-R24 showed good internal consistency (alpha = 0.81), with a mean score of 57.05±8.09. Moreover, research has shown a negative correlation between SAI-R and BDI-II (r = -0.33)/CORE-OM (r = -0.47), as indicated previously.24

General Self-Efficacy scale (GSE)

The GSE is a unidimensional scale that evaluates the belief in one’s own competence to deal with stressful or challenging situations. The original version of the GSE was developed by Schwarzer & Jerusalem in 1979 and
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Adolescents and young adults differences

The mean scores of the CORE-OM were very similar in the adolescent and young adult samples (Table 2): no significant differences were found on total and subtotal scores, except for the risk factor ($t_{860} = 2.22; p = 0.026$). The adolescents showed higher scores on the tendency to risk when compared to the young adults ($0.30 \pm 0.55$ vs. $0.22 \pm 0.49$).

Conversely, the mean scores of the SAI-R and GSE were very different in adolescents and in young adults: significant differences were found on the SAI-R total score ($t_{860} = 2.88; p = 0.004$), and also on the GSE total score ($t_{860} = 4.79; p = 0.001$). Adolescents showed higher scores of spontaneity than young adults ($59.14 \pm 10.35$ vs. $57.13 \pm 9.76$), and showed lower levels of self-efficacy than young adults ($27.74 \pm 4.74$ vs. $29.27 \pm 4.46$).

All correlations between the study variables were significant at 0.01 level, except two correlations of the CORE-OM risk factor in the young adult sample, with SAI-R and GSE, respectively (Table 3). The CORE-OM showed negative correlations with SAI-R and GSE; in turn, GSE and SAI-R were positively correlated.

Path analysis

Path analysis was used to evaluate the contributions of perceived self-efficacy and spontaneity to values of psychological distress among adolescents and young adults in each specific domain, at a multivariate level. Gender was inserted in the model as a covariate. In order to get to the most parsimonious model, we preliminarily tested path coefficients of the control variable gender across models. As a result, the paths from gender on spontaneity and from gender on three specific psychological distress domains – problems, functioning, risk – were removed from the model, since they were nonsignificant in both groups. This model was tested separately for the two groups and fit indices were adequate for both adolescents ($\chi^2 = 6.34; df = 4; n = 490; p = 0.175; RMSEA = 0.035; CFI = 1.00; NNFI = 0.99$) and young adults ($\chi^2 = 17.29; 4; n = 367; p = 0.002; RMSEA = 0.095; CFI = 0.99; NNFI = 0.94$), providing a better fit to the data in the adolescent group.

The whole model accounted for different shares of the variance for each specific psychological distress domain (38% for subjective well-being; 22% for problems; 40% for functioning).

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**Table 2 - Cronbach’s alpha values, means and standard deviations of all study variables according to sample**

<table>
<thead>
<tr>
<th>Variable</th>
<th>Adolescents</th>
<th></th>
<th>SD</th>
<th>Adolescents</th>
<th></th>
<th>SD</th>
</tr>
</thead>
<tbody>
<tr>
<td>CORE-OM total</td>
<td>0.92</td>
<td>1.01</td>
<td>0.57</td>
<td>0.92</td>
<td>1.04</td>
<td>0.57</td>
</tr>
<tr>
<td>CORE-OM subjective well-being</td>
<td>0.72</td>
<td>1.32</td>
<td>0.88</td>
<td>0.66</td>
<td>1.39</td>
<td>0.84</td>
</tr>
<tr>
<td>CORE-OM problems</td>
<td>0.86</td>
<td>1.01</td>
<td>0.72</td>
<td>0.88</td>
<td>1.20</td>
<td>0.78</td>
</tr>
<tr>
<td>CORE-OM functioning</td>
<td>0.79</td>
<td>1.22</td>
<td>0.59</td>
<td>0.74</td>
<td>1.18</td>
<td>0.55</td>
</tr>
<tr>
<td>CORE-OM risk</td>
<td>0.78</td>
<td>0.30</td>
<td>0.55</td>
<td>0.82</td>
<td>0.22</td>
<td>0.49</td>
</tr>
<tr>
<td>SAI-R total</td>
<td>0.86</td>
<td>59.14</td>
<td>10.35</td>
<td>0.86</td>
<td>57.13</td>
<td>9.76</td>
</tr>
<tr>
<td>GSE total</td>
<td>0.84</td>
<td>27.74</td>
<td>4.74</td>
<td>0.85</td>
<td>29.27</td>
<td>4.46</td>
</tr>
</tbody>
</table>

CORE-OM = Clinical Outcomes in Routine Evaluation-Outcome Measure; GSE = General Self-Efficacy scale; SAI-R = Spontaneity Assessment Inventory-Revised; SD = standard deviation.

**Table 3 - Correlation matrix for all study variables according to sample**

<table>
<thead>
<tr>
<th>Variable</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. CORE-OM total</td>
<td>-</td>
<td>0.84</td>
<td>0.94</td>
<td>0.088</td>
<td>0.63</td>
<td>-0.35</td>
<td>-0.29</td>
</tr>
<tr>
<td>2. CORE-OM subjective well-being</td>
<td>0.85</td>
<td>-</td>
<td>0.76</td>
<td>0.071</td>
<td>0.36</td>
<td>-0.42</td>
<td>-0.35</td>
</tr>
<tr>
<td>3. CORE-OM problems</td>
<td>0.93</td>
<td>0.76</td>
<td>-</td>
<td>0.071</td>
<td>0.52</td>
<td>-0.29</td>
<td>-0.22</td>
</tr>
<tr>
<td>4. CORE-OM functioning</td>
<td>0.87</td>
<td>0.69</td>
<td>0.67</td>
<td>-</td>
<td>0.48</td>
<td>-0.37</td>
<td>-0.54</td>
</tr>
<tr>
<td>5. CORE-OM risk</td>
<td>0.68</td>
<td>0.46</td>
<td>0.56</td>
<td>0.048</td>
<td>-</td>
<td>-0.05~</td>
<td>-0.06~</td>
</tr>
<tr>
<td>6. SAI-R total</td>
<td>-0.57</td>
<td>-0.59</td>
<td>-0.47</td>
<td>-0.61</td>
<td>-0.21</td>
<td>-</td>
<td>0.49</td>
</tr>
<tr>
<td>7. GSE total</td>
<td>-0.43</td>
<td>-0.47</td>
<td>-0.33</td>
<td>-0.51</td>
<td>-0.10</td>
<td>0.61</td>
<td>-</td>
</tr>
</tbody>
</table>

* All correlations are significant at level 0.01, except for correlations indicated with -.
Standardized path coefficients calculated separately for the two groups are reported in Figure 1. The direct and negative links between self-efficacy and the specific psychological distress domains were significant only for subjective well-being and functioning in both groups. The direct and negative link between spontaneity and the specific psychological distress domain of risk was significant only in the adolescent group; for all other domains there was a significant negative direct link with spontaneity in both groups. The effects of gender on subjective well-being and on self-efficacy were significant in both groups, indicating that females had more psychological distress and that they had less self-efficacy than males. Results of the Sobel test supported a mediating role of spontaneity in links between self-efficacy and all specific psychological distress domains for adolescents ($\beta = -0.29$, $z = -7.78$, $p < 0.001$ for subjective well-being; $\beta = -0.26$, $z = -6.71$, $p < 0.001$ for problems; $\beta = -0.29$, $z = -7.61$, $p < 0.001$ for functioning; $\beta = -0.14$, $z = -2.92$, $p < 0.01$ for risk). Instead, in the young adult group, the Sobel test results supported the mediation of spontaneity for all domains except for the risk domain ($\beta = -0.16$, $z = -4.96$, $p < 0.001$ for subjective well-being; $\beta = -0.12$, $z = -3.48$, $p < 0.001$ for problems; $\beta = -0.13$, $z = -3.70$, $p < 0.001$ for functioning; $\beta = -0.01$, $z = -0.27$, $p = 0.978$ for risk).
Discussion

Although all measures herein considered, focusing on well-being (measured through the detection of psychological distress), spontaneity and self-efficacy, have been previously validated for the general population in Italy, the present study confirms their validity also for adolescents and young adults.

The present study adds to the researchers’ understanding of the differences between adolescents and young adults with regard to spontaneity, self-efficacy and psychological distress.

Adolescents have significantly higher spontaneity scores than young adults. According to Moreno, these results indicate no limitations or restrictions in childhood; only as people grow do they start to limit themselves and to experience anxiety and fear.5,6

Self-efficacy is significantly higher in young adults than in adolescents, demonstrating that a person acquires greater knowledge and security of their abilities as they grow. Adolescence is a period of time that requires physical, cognitive and educational changes. Adolescents must make important decisions that require a great sense of responsibility, and the development of a good perception of self-efficacy is crucial to the positive overcoming of this phase.35

No significant differences between the well-being of adolescents and young adults have been observed in our study, confirming that adolescents successfully overtake development tasks, which are a source of well-being and self-esteem.36 Only in the risk domain, adolescents showed higher scores than young adults, as already stated by other studies.37,38 Also, 19% of adolescents have been shown to perform gestures of self-harm, and 3% commit serious suicide attempts.39

The present study also adds to researchers’ understanding of the relationships among spontaneity, self-efficacy and psychological distress in adolescents and young adults.

Self-efficacy and spontaneity are positively correlated, according to Daveelaar et al.,7 who identified how being confident of their abilities led people to behave more spontaneously. The authors’ argued that spontaneity is an internal motivational push that is not left to influence external factors but is channeled into appropriate behaviors through the intellectual abilities of the person and taking into consideration their past experiences.

Psychological distress and self-efficacy were negatively correlated, confirming the link between wellness and self-efficacy reported in other studies.40,41 Even psychological stress and spontaneity were negatively correlated, confirming the results of Kipper & Shemer.42 A very low negative correlation was observed for the risk domain with both self-efficacy and spontaneity, significant only in adolescents.

A final purpose of this study was to test a theoretical model linking spontaneity and self-efficacy to psychological distress while controlling for gender effect in adolescents and young adults. It was based on the confirmation that spontaneity and self-efficacy are negatively related to psychological distress; meanwhile, self-efficacy and spontaneity were positively related. This property of the model is in agreement with the literature and confirms that it could be considered as a psychological “trait aspect” instead of a “state aspect,” characterizing a wide part of the cycle of life, adolescence included. It would be important to investigate whether this could be extended to childhood. However, the mediating role of spontaneity in the links between self-efficacy and psychological distress showed the presence of a particular difference, which intervenes in the passage from adolescence to young adulthood. Indeed, individuals who are more confident in their abilities are more likely to experience an elevated spontaneous state during day life, which, in turn, is related to lower psychological distress levels, in all dimensions for adolescents and in all domains except risk for young adults. This result suggests that the management of risk undergoes a transformation in this phase of life, and further research could be developed in order to investigate how the loss/improvement of spontaneity in adulthood is related to the awareness of risk. In particular, in adolescents, spontaneity can be attributed to having low self-control and consequently more risk-taking behavior. As shown by Steinberg,43 reward-seeking and impulsivity develop along different timetables, and the difference in their timetables helps account for heightened risk-taking during adolescence, while vulnerability to risk-taking in middle adolescence may be due to the combination of relatively higher inclinations to seek rewards and still maturing capacities for self-control. This kind of analysis results useful in the area of psychotherapy, especially with adolescents and young adults who adopt risk behaviors. Indeed, from our study, its emerges that particular attention should be paid to the influence of low or high self-confidence and risk behaviors and how they are related to lack of spontaneity, because of the unconscious assumption of maladaptive or stereotypical roles.

So, the battery validated in the present investigation could be useful in future longitudinal studies designed to investigate the effectiveness of psychodrama interventions in educative settings with adolescents and young adults, and it could also be used to study the relationship between spontaneity and risk in adulthood,
administering further specific instruments. Moreover, each specific instrument can be used autonomously with adolescents and young adults. According to the literature, the further development of research with this population could improve the analysis of relationships and differences among creativity, spontaneity and attachment styles with regard to well-being, reasons for living and spontaneity in adolescence and young adulthood.

A final note inherent to the use of CORE-OM: the authors did not specifically validate the subscales. However, our validation operation showed that its use in the Italian language is possible and also useful.

References


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