Global Life Satisfaction and General Antisocial Behavior in Young Individuals: The Mediating Role of Perceived Loneliness in Regard to Social Sustainability—A Preliminary Investigation

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Received: 7 March 2020; Accepted: 15 May 2020; Published: 16 May 2020

Abstract: Healthy development can be viewed as an important dimension of the general wellbeing index and can be based upon lifelong sustainable satisfaction. Young individuals can represent an important component for society and its development. The literature shows that increased levels of global life satisfaction (LS) can be associated with minimal levels of problematic behaviors and elevated levels of pro-social behaviors. However, low levels of LS can be associated with high levels of perceived loneliness (PL), which, in turn, can be associated with antisocial behavior (AS). In light of this, the current investigation aims to study the mediating effect of PL and the link between LS and AS. This study is a preliminary investigation referring to aggressive behaviors and cognition in relation to subjective wellbeing. The sample consisted of 81 young individuals (M = 27.57, Standard Deviation = 9.25) from Aurel Vlaicu University of Arad, Romania. AS was evaluated with the How I Think Questionnaire (HIT), PL was measured with a single item inquiry and LS was evaluated with the satisfaction with life scale (SWLS). The results display that there is a powerful association between LS and AS, between LS and PL and between PL and AS. After the inclusion of the mediator (PL) to the model, the influence of the independent variable (LS) increased and the effect of LS on AS significantly decreased. In light of this, the relationship between LS and AS can be explained by the mediating role of the PL variable. The results indicate the importance of perceived loneliness in regard to one’s life satisfaction and antisocial behaviors. In light of this, interventions that focus on the social aspect could prove useful for the improvement of sustainable life satisfaction, therefore decreasing the chance of the emergence of AS.

Keywords: social sustainability; global life satisfaction; subjective wellbeing; perceived loneliness; general antisocial behavior; young individuals; self-serving cognitive distortions

1. Introduction

Optimal aging [1] can be recognized as a key component of the general wellbeing index and can be represented by a lifelong sustainable overall personal and professional satisfaction, a journey that starts in youth and dynamically evolves as the individual develops.

The least described and the least understood approaches of addressing sustainability and sustainable development can be through social sustainability. In public discourse, social sustainability has earned far less coverage than economic and environmental sustainability. Social Sustainability is a mechanism or structure that encourages wellbeing within the members of an organization, while also promoting future generations’ ability to maintain a healthy community [2].
Young individuals can represent an important component of society as a whole and its development [3–5]. Therefore, the improvement of life satisfaction or wellbeing among young individuals can serve as an important factor in their contribution to society and a healthy self-development [6,7]. There is powerful information and evidence in the literature that an increased level of life satisfaction (LS) can be associated with positive individual (i.e., educational and professional success), psychological, behavioral, and social results [8–10]. For example, individuals with high levels of LS (or subjective wellbeing) can have a high levels of job satisfaction and performance and can experience lower levels of negative psychological outcomes (i.e., anxiety or depression) [11,12].

Life satisfaction is represented by the way in which individuals express their subjective perspectives and perceptions about their own life [13]. In other words, it can be represented by a series of cognitive judgmental actions in regard to one’s life in general [14]. Some authors refer to life satisfaction as a subjective form of wellbeing [15]. Subjective wellbeing is represented by the assessments of the conditions of life at an individual or personal level and can include both an affective/emotional (the frequency of experienced pleasant or unpleasant emotions about life) and a cognitive (judgment of overall life satisfaction in multiple domains, such as: education, career or workplace, health situation, social relationships, etc.) component [16,17]. Possible predictors of life satisfaction can be represented by the access to different forms of material and intellectual resources (i.e., income, nutrition, material comfort, education, health services and access to knowledge), the formation of social connections (i.e., positive family relationships, social position, social prestige, social influence and social bonds) and the existence of different individual skills (i.e., intellectual, physical and social abilities) [8–10,18].

In terms of problem behaviors, studies from the literature demonstrated that increased levels of life satisfaction were related to decreased levels of problematic behaviors and high levels of pro-social behaviors [10,19–21]. In the literature, problem behaviors are usually associated with antisocial behaviors [22–24]. It is stated that the emergence of antisocial behaviors can be associated with a disadvantaged socio-economic background, a lack of education or a very low education level, dysfunctional families and deviant peers [25–27]. All the mentioned factors can be associated with low life satisfaction [10,18,28,29], which, in turn, can lead to the development of antisocial behaviors [10,30]. In this paper, we will focus on antisocial behaviors from the viewpoint of self-serving cognitive distortions [31].

Self-serving cognitive distortions are represented by prejudicial cognitive models that give the individual a very good impression of himself/herself and isolate him/her from guilt or a negative self-concept [32]. They are classified in four categories, such as: Self-Centered (egocentric cognitions), Blaming Others (attributing one’s fault to external sources for one’s negative behaviors), Minimizing/Mislabeling (perceiving antisocial behavior as an acceptable means and viewing other as having no value) and Assuming the Worst (perceiving others or social situations as hostile and believing that one’s negative behavior is beyond improvement) [33]. The association of self-serving cognitive distortions with antisocial behaviors can be explained by a series of characteristics extracted from the Diagnostic and Statistical Manual of Mental Disorders, 4th edition (DSM-IV) [34], such as Opposition Defiance (no respect for rules, laws and authority), Lying, Stealing and Physical Aggression [31,33]. In DSM-V [35], antisocial characteristics can be identified as impulse control, disruptive and conduct disorders, which can determine whether individuals will act with anger or aggression toward other individuals or their property.

Antisocial behaviors can be associated with a series of factors [36–40]. One of the studied factors in this article, in relation to antisocial behavior, is the perception of loneliness. Studies from the literature [41,42] postulate that perceptions of loneliness can have some negative psychological outcomes (i.e., depression, anxiety), but other studies show that perceptions of loneliness can also be associated with the presence of antisocial tendencies [43–45], especially in younger individuals [46,47].

Loneliness is represented as a perceived emotional discomfort that can be associated with the perception of isolation or unfulfilling social connections [48]. There is evidence in the literature that feelings of loneliness are prevalent in young individuals [49] and can increase in level with age [50],
if untreated. It is also stated that Eastern European countries have the most elevated proportions of lonely individuals [50].

It was found that some of the main causes for loneliness can be represented by inadequacies at the individual level, developmental deficits, unsatisfying intimate connections, separations and social marginality [51].

Social bonds are very important factors for maintaining a healthy life satisfaction [18]. Studies have shown that elevated levels of loneliness are associated with decreased levels of LS [52–54] and it has already been mentioned that high levels of LS are linked with minimal levels of problematic behaviors and elevated levels of pro-social behaviors [10,19–21]. Therefore, as a preliminary investigation, in this article we want to study the mediating impact of perceived loneliness (PL) on the link between life satisfaction and general antisocial behavior.

2. Materials and Methods

2.1. Objective and Hypothesis

The scope of Tudor and Bratosin’s study on the social dimension of sustainability related to culturalisation, on the one hand, comprehended culture as an ideological, essential, basic factor in social processes and relationships concerning sustainability and, on the other hand, considered the mediatization of culture [55]. A culture of mediatization can be in constant development, with its main assets being mediated by current media technology. In this respect, as research conclusions have stated that mediatization is the result and consequence of relationships, interrelationships, connections, and interconnections between the use of communication methods by society and tools enhanced by digital technology and, at the same time, it refers to a new social context that concentrates deeply on those relationships, interrelationships, and associations that build a contemporary society [55].

The objective of the present investigation is to study the mediating effect of perceived loneliness (PL) on the link between global life satisfaction (LS) and general antisocial behavior (AS). This study is part of a preliminary investigation with reference to aggressive behaviors and cognition in relation to subjective wellbeing.

The hypothesis is that the link between LS and AS is mediated by PL, which is seen as a potential enhancer of antisocial behavior.

2.2. Participants

A total of 81 young individuals from Aurel Vlaicu University of Arad Romania voluntarily participated in this investigation, established via informal consent. The participants of this study were comprised of 55 females (67.9%) and 26 males (32.1%), N = 81, with an average mean (M) age = 27.57 and a standard deviation (SD) of 9.25. All the participants were enrolled in the University or at least finished an academic cycle (Bachelor Degree, Master Degree or Postgraduate Degree). This research has used convenience sampling. The participants were consecutively selected according to the order of appearance when completing the online questionnaire shared on social media platforms, following the convenient accessibility principle. The time frame used was December 2019–February 2020. The gender distribution reflects the large female population of students in the Educational Sciences, Psychology and Social Sciences department of the “Aurel Vlaicu” University of Arad. Being an online shared study, the low number of participants reflects students’ abilities to access online platforms and their willingness to participate.

2.3. Instruments

2.3.1. Satisfaction with Life Scale (SWLS)

In order to evaluate LS, the satisfaction with life scale (SWLS) [15] was used, which aims to assess global cognitive judgments of one’s fulfillment with life. This instrument is made of five items,
with a seven-point response scale, which can range from strongly agree (7) to strongly disagree (1) [15]. SWLS [15] was linguistically validated in a previous study for Romanian usage [56] and, in the present study, it showed a high internal consistency, with a Cronbach’s alpha coefficient of 0.80.

2.3.2. The How I Think Questionnaire (HIT)

In order to measure AS, the How I Think Questionnaire (HIT) [33] was applied, which was created to evaluate the levels of self-serving cognitive distortions (i.e., Assuming the Worst, Blaming Others, Self-Centered and Minimizing/Mislabeling) and of the four classifications of antisocial behavior (i.e., Stealing, Physical Aggression, Lying and Opposition Defiance).

HIT [33] is represented by 54 questions, with a six-point Likert-type answer scale, which can range from strongly disagree (1) to strongly agree (6). Out of the 54 questions, 39 are constructed to assess the four categories of “self-serving” cognitive distortions and the four types of antisocial behavior, eight inquiries measure the level of anomalous responding (in order to determine the honesty of the given answers) and seven questions are constructed as positive filters in order to camouflage the 39 items [33]. The sum of Physical Aggression and Opposition Defiance compose the Overt Scale (antisocial manifestations that involve the victim in a direct way) and the sum of the Stealing and the Lying scales compose the Covert Scale (antisocial actions that involve the victim in an indirect way) [33]. The questionnaire can have a general score and it is composed of 12 scales [33].

HIT was validated for Romanian usage (linguistic validation) in a previous study [57] and the present study will use the total score of HIT in order to assess the level of general antisocial behavior (AS). In the present study, HIT showed a high internal consistency, having a Cronbach’s alpha coefficient that ranges from 0.68 to 0.84, with a global coefficient of 0.91.

2.3.3. Explorative Affirmations

In this study, based on studies and works from the literature [35,44,58–61] we developed a series of explorative affirmations that aim to identify the levels of violent/aggressive content (video, audio or text) preferences (e.g., I like to watch aggressive or violent content; measured by four inquiries); perceived positive childhood experiences (e.g., My childhood was a happy one; measured by three inquiries); control/domination of others (e.g., I like to control people around me; measured by three inquiries); perceived superiority (e.g., I consider myself more intelligent than the others; measured by three inquiries); schadenfreude (e.g., I feel good when something bad happens to other people; measured by one inquiry); openness (e.g., I easily relate to other people; measured by one inquiry); perceived loneliness (PL; e.g., I feel alone; measured by one inquiry); and self-isolation (e.g., I prefer to spend more time alone; measured by one inquiry). The 17 affirmations were assessed using a six-point Likert-type response scale, ranging from it does not characterize me at all (0) to it characterizes me to a great extent (5).

The explorative affirmations were applied for the first time in this study and the level of perceived loneliness (PL) will be used for this investigation. PL was measured by a single-item research question. It is a simple and explorative inquiry which identifies the level of perceived general loneliness.

2.4. Study Design and Procedure

The current investigation has a non-experimental mediation analysis design. The independent variable (IV) is the level of global life satisfaction (LS) and the dependent variable (DV) is the level of general antisocial behavior (AS). The mediator variable (MV) is the level of perceived loneliness (PL). The package of instruments (SWLS, HIT and the General Affirmations) was applied to the participants in a digital setting (via Google Forms). To verify if the participants were paying attention to the package of instruments we used the scores from the Positive Filters (PF) scale of the HIT questionnaire [33]. Those questions are different from the general questions of HIT, and if the scores for PF are higher than the general scores from HIT, then we can assume that the participants were paying attention to the inquiries. The score for PF was 5.46 (SD = 0.48), which can reflect the fact that the participants were
paying attention to the questions, because the scores for HIT were significantly lower 1.91 (SD = 0.57) (Table 1). The participation to this investigation was based on informed consent that consisted of an agreement to attend the study and assurances about the confidentiality of the data.

Table 1. Means and standard deviation for each variable (global life satisfaction (LS), perceived loneliness (PL) and antisocial behavior (AS)) according to gender.

| Gender | LS   | PL   | AS   |
|--------|------|------|------|
| Female | Mean | 5.41 | 1.58 | 1.85 |
|        | N    | 55   | 55   | 55   |
|        | Std  | 0.72 | 1.45 | 0.49 |
| Male   | Mean | 5.14 | 2.00 | 2.03 |
|        | N    | 26   | 26   | 26   |
|        | Std  | 1.31 | 1.86 | 0.70 |
| Total  | Mean | 5.32 | 1.72 | 1.91 |
|        | N    | 81   | 81   | 81   |
|        | Std  | 0.95 | 1.59 | 0.37 |

Level of global life satisfaction (LS); perceived loneliness (PL); antisocial behavior (AS); number of participants (N).

Before calculating the mediation effect, a gender comparison was realized in order to determine if there were any differences regarding the studied variables (LS, AS, PL) between genders. For this analysis, the Wilcoxon W test was used because the gender distribution was unbalanced.

Later, we realized a correlational multi-group analysis by gender, regarding the studied variables, to see if the correlations differed according to gender (Tables 2 and 3).

Table 2. Pearson correlation coefficients between LS, AS and PL for the female participants (N = 55).

|        | AS       | PL       |
|--------|----------|----------|
| LS     | r(53) = 0.12 | r(53) = −0.13 | r(53) = 0.48 ** |
| AS     | r(53) = 0.48 ** |

Level of global life satisfaction (LS); perceived loneliness (PL); antisocial behavior (AS); ** correlation is significant at the 0.01 level.

Table 3. Pearson correlation coefficients between LS, AS and PL for the male participants (N = 26).

|        | AS     | PL     |
|--------|--------|--------|
| LS     | r(24) = −0.68 ** | r(24) = −0.61 ** |
| AS     | r(24) = 0.53 ** |

Level of global life satisfaction (LS); perceived loneliness (PL); antisocial behavior (AS); ** correlation is significant at the 0.01 level.

In order to calculate the mediation effect, a series of steps were followed [62–65]:

1. Verifying if all the studied variables (LS, AS and PL) can be associated with each other in a statistically significant way (p < 0.05) way (Table 4);

Table 4. Pearson correlation coefficients between LS, AS and PL for the whole group (N = 81).

|        | AS       | PL       |
|--------|----------|----------|
| LS     | r(79) = −0.33 ** | r(79) = −0.36 ** |
| AS     | r(79) = 0.51 ** |

Level of global life satisfaction (LS); perceived loneliness (PL); antisocial behavior (AS); ** correlation is significant at the 0.01 level.
(2) Determining path c by regressing the DV (AS) with the IV (LS) for confirmation that the IV is a significant predictor of the DV (Table 5; Figure 1);

![Path c](image)

**Path c** by regressing the DV (AS) with the IV (LS) for confirmation that the IV is a significant predictor of the DV (Table 5; Figure 1);

![Path a, b and c](image)

**Path a, b and c** between the variables LS, perceived loneliness (PL) and AS.

(3) Determining path a by regressing the MV (PL) with the IV (LS) to affirm that the IV is a significant predictor of MV (Table 5; Figure 2);

![Path a and b](image)

**Path a and b** between the variables LS, perceived loneliness (PL) and AS.

(4) Determining the paths b and c' by regressing the DV with both the MV and the IV to affirm that the MV is a significant predictor of the DV (path b). To have a mediation effect, path b must be statistically significant, while path c' must be reduced in significance (partial mediation) or even be reduced to insignificance (complete mediation) (Table 5; Figure 2);

![Path b and c'](image)

**Path b and c’** between the variables LS, perceived loneliness (PL) and AS.

(5) Determining the statistical importance of the indirect outcome by utilizing bootstrapping procedures and the Sobel test. This step can be achieved by using PROCESS macro version 2.16 [66] on SPSS Statistics version 20 (the version used in this study), or any version above.

Regarding the Wilcoxon W test, no significant differences were registered between the two genders regarding the studied variables (LS, Z = −0.07, p > 0.05; PL, Z = −0.84, p > 0.05; AS, Z = −0.87, p > 0.05).

3. Results

In addition to the investigation of the specified variables, the score for the Anomalous Responding scale was computed as well, to determine the honesty of the answers offered to the package of instruments (SWLS, HIT and the General Affirmations). If the calculated value of the Anomalous Responding scale was greater than 4.00, then the evaluation would be considered doubtful in terms of...
the honesty of the given replies; if the calculated value was beyond 4.25, then the evaluation could not be considered valid [33]. The calculated score for the Anomalous Responding scale in the current sample (N = 81) was M = 3.81 (SD = 1.12), which illustrates that the majority of the respondents gave honest answers to the inquiries about the instruments. There were individuals whose score exceeded 4.00 (N = 10) and 4.25 (N = 28), but they were not removed from the investigation because in the natural world there are persons who are dishonest and, in this format, the sample can be more appropriate. Dishonesty is prevalent in daily human existence [67].

As Figure 2 depicts, the standardized regression values between the level of LS and the level of PL was statistically significant, as was the standardized regression value between PL and the level of AS. The standardized indirect effect was (−0.38) × (0.45) = −0.17. These results support the mediation hypothesis. After the inclusion of the mediator (full mediation), the level of LS was no longer a significant predictor of the level of AS. Approximately 28% of the variance in the AS variable was accounted for by the predictors, i.e., LS and PL (r² = 0.28). Unstandardized indirect outcomes were calculated for every 5000 bootstrapped samples, and the 95% confidence interval (CI) was calculated by establishing the indirect outcomes. The bootstrapped unstandardized indirect outcome was B = −0.10, standard error (SE) = 0.04 and the 95% CI ranged from −0.21 and −0.04. The Sobel test score was −0.10, SE = 0.04, p < 0.01. These results show that the indirect effect was statistically significant.

4. Discussion

As a central conclusion, we would like to further emphasize how culture and mediatization of social sustainability transform daily behavior, in light of the study’s conclusions. Nowadays, both digital and real existence seem to be bound to the terms of the democratization of information. This brings clear advantages, in terms of faster access to plenty of information, meaning that individuals are better informed and well-equipped to think reasonably, make effective decisions, and solve diverse problems [68], and even seek medical help [69]. With all these technological advances, the problem of individual solitude and loneliness has not been adequately addressed so far.

The current study investigated the mediating outcome of PL to the link between LS and AS in young individuals. The results show that decreased levels of LS and increased levels of PL are important risk factors for the occurrence of AS, but elevated levels of LS and minimal levels of PL can discourage the emergence of AS. Furthermore, the link between LS and AS was completely mediated by PL, meaning that this relationship can be explained by the role of the mediator.

The multi-group correlational analysis showed that significant correlations between the three variables (LS; PL; AS) were registered only for the male gender. For the female gender, the most significant variable was PL in its relationship with AS, meaning that there was a significant association between AS and PL. There were no significant differences between the two genders in relation to the Wilcoxon W test and the insignificant correlations between the level of LS and the levels of AS and PL for the female gender could be due to that fact that they obtained slightly higher scores for the level of LS (with lower SD) and lower scores for the level of PL and AS (with a lower SD) than the male participants. On the other hand, the insignificant correlations for the female gender may be due to the fact that the value of subjective wellbeing may differ for each gender (females might value the wellbeing of others more than males and value materialism and competition less than males; males might value sports, sexual activity, being liked, and having a quality social life more than females and females might value helping others, being close to family, and being loved more than men) [70]; this might also be due to the fact that females tend to internalize behaviors, whereas males tend to externalize behaviors [71–73].

As for the group as a whole, the findings are consistent with the literature [10,19–21], meaning that the level of LS can contribute to the emergence of AS. Therefore, due to the lack of an appropriate education, professional path, social relationships, healthcare and financial situation (factors that can affect the perception of global life satisfaction), one can develop antisocial tendencies as a form of psychological, social and behavioral adaptation [25,58,74].
Furthermore, the results indicate that the level of global life satisfaction is negatively correlated with the level of perceived loneliness. The human species are designed to be social creatures [75]. Humans desires touch, social interactions and a feeling of connection and belonging [76]. The feelings of belonging and social connections can represent important factors for life satisfaction [54,75]. Low levels of perceived loneliness can affect one’s emotional state in a negative way (i.e., depression) [41], but it can also affect one’s behavioral state (i.e., problematic or antisocial behavior) [43–45], especially in younger individuals [46,47].

5. Conclusions

A suppressor model in the mediation framework leads to an inconsistent mediation model, where the mediated and the direct effect have opposite signs. Suppression focuses on the adjustment of the relationship between the independent and dependent variables, but in the unusual case where the size of the effect actually increases when the suppressor variable is added [77], in a two-factor model, a suppressor variable leads to a previously undetected type of suppression (reciprocal suppression), which occurs when predictors with positive zero order validities are negatively correlated with one another [78], such as in the results from our current research.

In light of this, the preliminary results of the study can suggest that persons who possess increased levels of life satisfaction are less likely to feel alone, therefore minimizing the chance for the emergence of antisocial behavior. However, if individuals perceive their global life satisfaction as being low, they can feel alone more often and can be inclined to adopt antisocial behaviors. Socialization is very important for any individual’s development [79–81] and these results underline the necessity to take into consideration the social aspect (the need for human connection) in relation to life satisfaction and the development of antisocial behavior (especially for individuals who already committed crimes). A good example comes from a previous study [40], where individuals with increased levels of social support (a significant component that give the individual a sense of belonging) have had higher levels of education and decreased levels of antisocial behaviors and criminal history. In light of this, intervention and prevention programs can be developed that focus more on the social aspects (i.e., human connections and meaningful relationships) when it comes to dealing with low life satisfaction levels and high levels of antisocial tendencies.

Thus, these results underline the suppressive effects of increased levels of perceived loneliness on the relationship between global life satisfaction and general antisocial behavior in young individuals and can represent a need for psychological intervention in lowering the negative incident rates in accordance with social sustainability principles.

As a final remark, these findings align with the paradigm that, while aggressive manifestations of seeking control over others still govern human interactions, individuals have an equal and powerful need for acceptance, social approval, and a good sense of connectedness to social and personal supportive environments. These two antagonistic forces collide and emerge on a personal level and on a social level, which can represent human needs that eventually orient towards seeking mental and physical life satisfaction or wellbeing [82–84].

The practical implications of these preliminary results can be significant for future investigations and underline the necessity to take into consideration the loneliness aspect when dealing with young individuals’ antisocial behaviors and life satisfaction. In order for an individual to appreciate his own life and to reduce the development on antisocial behaviors, one must feel that he belongs to and is accepted within a given society. Different educational programs can be developed in schools and universities, which can focus on reducing the levels of loneliness and increasing the levels of life satisfaction. Interventions that focus on the social aspect could prove useful for the improvement of a sustainable life satisfaction, thus decreasing the chance of the emergence of antisocial behaviors (AS).

In the era of the mediatization of everything [85–87], the loneliness paradigm seems paradoxical. Even if mediatization as a socially sustainable phenomenon is supposed to bring people closer than ever, it may actually trigger a higher loading of perceived loneliness in youth. Taken together,
the cumulative positive effect on society in terms of individuals in this new era of openness might bring a live issues related to individuals’ perceived exclusion from digital society, a new sort of social isolation, which brings with it a prevalent sense of perceived loneliness and, in turn, raises individuals’ risk of antisocial behavior. This psychological mutation, in the broad sense of affected belonging, is impregnated in young people’s mentalities, as scores on the HIT scale reflect, indicating a clear psychological shift, an induced change in human interactions and social practices.

Limitations and Future Research

In terms of the limitations of this study, considering that this was an internet-based research sample, respondents have completed measurements at different locations, which may have influenced the findings because of the lack of control over environmental factors. In addition to this limitation, some participants were suspected of being dishonest as regards to the Anomalous Responding scale. An explanation for the presence of dishonesty can be the fact that the majority of the participants were students and it is stated in the literature that dishonesty is present in the academic sector [88,89] and more capable individuals tend to be more dishonest [90]. Other studies suggest that dishonesty is prevalent in our daily lives [67] and that dishonesty is part of Self-Concept Maintenance [91]. In regard to this limitation, further research is required to investigate the dishonesty component in regard to life satisfaction, loneliness and antisocial tendencies.

Another one of the limitations can be represented by the small number of participants (N = 81) and the unbalanced gender distribution, meaning that these results do not allow for an extension on certain categories of age, gender or educational category. Therefore, future studies on homogeneous groups could provide more useful information to construct a more relevant image of the investigated subjects in different population categories.

In future research, the bidirectionality of the relationships between the variables (LS, PL and AS) could be investigated, meaning that high levels of antisocial behavior can also be related to low life satisfaction levels, which may lead to loneliness. By taking into account the bidirectionality of the studied variables, future interventions might prove to be more successful in dealing with low life satisfaction levels and high levels of antisocial behavior.

Being a preliminary study, future investigations will be developed on larger samples, while taking into account more variables that can be associated with life satisfaction and antisocial behaviors, thus creating a better image for maintaining healthy life satisfaction and development.

Author Contributions: Conceptualization, E.D. and D.R.; methodology, E.D. and D.R.; software, E.D. and D.R.; validation, E.D. and D.R.; formal analysis, E.D.; investigation, E.D.; resources, D.R.; data curation, D.R. and E.D.; writing—original draft preparation, E.D.; writing—review and editing, D.R. and E.D.; visualization, E.D.; supervision, D.R. All authors have read and agreed to the published version of the manuscript.

Funding: This research received no external funding.

Conflicts of Interest: The authors declare no conflict of interest.

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