Profiles of Wellbeing in Soft and Hard Mountain Hikers

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Abstract: The aim of the study was to analyze the wellbeing profiles in a group of Polish mountain hikers. The study involved 242 young people (M = 23.50; SD = 4.40) who completed various wellbeing scales: The Oxford Happiness Questionnaire (OHQ), Meaning of Life Questionnaire (MLQ), Positive and Negative Affect Scale (PANAS), Time Satisfaction Scale (TSS), Hope Scale, General Self-Efficiency Scale, Ego Resiliency Scale, Revised Life Orientation Test (LOT-R), and Adventure-Seeking Behavior Scale. Cluster analyses revealed two types of mountain hikers: hard adventure hikers and soft adventure hikers, with different profiles of subjective wellbeing. Hard adventure hikers most often revealed high levels of life satisfaction, control of life, meaning of life, and positive emotions, along with low levels of negative emotions. Moreover, these hikers revealed high levels of satisfaction in various time perspectives (past, present, and future) and a high level of psychological capital. On the other hand, soft adventure hikers most often revealed an average level of satisfaction with life, control of life, and positive emotions, average satisfaction in the past and present time perspective, and average levels of psychological capital. Soft adventure hikers also revealed higher levels of negative emotions and satisfaction in the future time perspective. The present research indicated that mountain hikers are not a homogenous group. The profiles of wellbeing in the hikers varied depending on the type of stimulating behavior in a natural environment.

Keywords: outdoor recreation; hiking; adventure; wellbeing

1. Introduction

Hiking is a widely used term with a broad definition. Hiking involves walking in a natural environment on an established trail. There are day hikes and overnight hikes. A hike may last 1 h or more; moreover, it may be a simple outback trail, a loop hike, or a point-to-point hike. The terrain can vary from flat to very steep. Hiking tours include short hikes and daily excursions [1–3].

One of the most popular types of hiking is mountain hiking. Mountain hiking is the activity of going for long walks in mountainous areas with altitude differences. Therefore, mountain hikers must be in good physical condition. Sometimes, specific equipment is needed (e.g., helmet, crampons, axes, clip hooks, ropes, and poles) in order to mountain hike, which reduces the risk of accidents associated with mountain hiking [4–6].

Mountain hiking may include forms associated with a low possibility of accidents including those in which the risk, understood as the possibility of losing health or even life, is significant. A walk in a valley between low mountains is an example of high-safety hiking. However, hiking in the Alps, Dolomites, Himalayas, or other high mountains can be associated with a high risk. Hazards in such cases are connected with injuries from falls on the trail. In addition, strong winds, heavy rain, fog, dust, or large amounts of mud can place a significant mental and physical strain on hikers. Additionally, hiking in winter may be associated with intense cold, ice on the trail, high winds, or avalanches. Snowfall may limit visibility, erases track, and cover trail markings [7–9].

According to terminology of Hill and Millington et al. [10,11], I distinguish between hard and soft adventure hiking. Hard adventure hiking requires high skills, preparation, experience, and sometimes specialized equipment (such as mountain ice axes or harnesses) because the environmental dangers are quite high. Soft adventure hiking does not require...
competences and specialized equipment. This distinction is congruent with the classifications of hiking proposed by the Italian and Swiss Tourist Clubs. These clubs distinguish different types of hiking in mountains: mountain hiking, challenging mountain hiking, and alpine hiking. Different types of hiking are connected with different levels of difficulty: from marked trails with an easy terrain that is physically less demanding to usually unmarked trails with terrain that is very exposed, challenging, and dangerous [12–14].

The dangers of mountain hiking are a natural aspect of exploring the wilderness; however, we can also observe several benefits which can overshadow the hazards. The main health benefits of mountain hiking include losing excess weight, regulating blood pressure, body fat, body mass index, and total cholesterol, improving sugar levels, and building strength in muscles. Regular nature hikes strengthen the heart [15–18].

Hiking is also linked to wellbeing. The wellbeing construct is not clear. Different conceptions of wellbeing reflect two types of happiness: hedonic and eudaimonic. Hedonic wellbeing can be defined as the presence of positive affect and the absence of negative affect. In turn, eudaimonic wellbeing is focused on an individual’s ability to realize their unique potential [19]. The eudaimonic approach suggests that wellbeing is more than just pleasure attainment and pain avoidance. Therefore, some researchers have proposed different complex models of wellbeing [20]. Seligman proposed the PERMA model of wellbeing. This model represents five core elements of wellbeing: positive emotions, engagement, relationships, meaning, and accomplishments [21]. In turn, Ryff [22] developed a model consisting of six core dimensions of psychological wellbeing: autonomy, environmental mastery, personal growth, positive relations with others, purpose in life, and self-acceptance. Diener et al. proposed the DRAMMA model of wellbeing, incorporating distraction, autonomy, challenges, relevance, and attachment [23].

Psychological wellbeing focuses on human resources or strengths. First-order positive psychological resources include hope, efficacy, resilience, and optimism. These four resources are included as a combined construct to form what Luthans and his coworkers referred to as positive psychological capital. Luthans claimed that “when these four resources are combined, they form, and have been empirically supported, as a higher-order core construct based on the shared commonalities of the four first-order constructs and their unique characteristics” p. 7 [24]. Research has shown that psychological capital is a key individual characteristic in the wellbeing of individuals [25].

Psychological wellbeing can be enhanced. Performing acts of kindness, expressing gratitude, and practicing forgiveness can improve wellbeing [26–28]. Psychological interventions such as cognitive behavioral (CB)-based approaches can also improve wellbeing [29,30]. Furthermore, interventions such as mindfulness training can be useful [31].

Research has indicated that hiking can also be effective in increasing wellbeing. For example, short walks surrounded by nature can lead to a significant increase in positive mood compared to walks in an urban environment [32–34]. Repeated hiking in a natural environment supports authenticity, autonomy, satisfaction with life, and a sense of meaning [35,36]. On the one hand, hiking promotes a reduction in stress, depression, internal anxiety, tension, anger, and even rumination [37–39]. On the other hand, hiking leads to the growth of positive emotions such as satisfaction or pleasure, as well as promotes resilience and the use of more effective coping strategies [40–43]. Hiking provides opportunities and places for social relations that lead to increased social connectedness and social cohesion [44,45].

Physically engaging in nature improves motor skills, efficacy, or self-esteem, as well as increases emotional intelligence and personal responsibility. This form of activity is also important for strong aesthetic and even transcendent experiences. The natural landscapes are those that cause admiration of the beauty and power of nature [46,47]. Contact with nature can also lead hikers to feel part of a larger project that goes beyond individual life [48]. Furthermore, hikers relaxing in close natural surroundings often return to the same places where they experienced something exciting. In this way, a specific identity of the place is formed that can increase the wellbeing of the hiker [49,50].
The above studies most often investigated the consequences of outdoor recreation for wellbeing. In other words, researchers aimed to determine how wellbeing changes when in contact with the natural environment. On the other hand, there is a lack of research on the everyday wellbeing of people undertaking recreation in the wilderness. Several studies analyzed the personality and temperament traits of recreationists, as well as self-efficacy or coping [51,52]. However, research on the mental wellbeing of recreationists is scarce.

Hence, the aim of the current research was to understand the daily wellbeing profiles of people engaging in mountain hiking. Another goal of the study was to distinguish types of mountain hikers depending on their wellbeing profiles and the type of adventures they undertake in the natural environment.

2. Method

2.1. Participants

A total of 242 participants (118 women and 124 men) from Poland took part in this research (M = 23.50; SD = 4.40). In total, 74.50% of the participants were from cities and 25.50% were from villages. All participants had at least a secondary level of education.

The respondents practiced hiking in the following Polish mountain ranges: The Tatras (62%), the Beskids (79%), and the Sudetes (63%). The hikers practiced hiking in the summer (100%), in the autumn (37%), in the winter (46%), and in the spring (58%).

The sums of percentages are higher than 100 because respondents practiced hiking in more than one mountain range and season.

2.2. Procedure

The study was approved by the University of Szczecin Institutional Review Board (14/2019; date of approval: 6 December 2019). I contacted mountain hikers through students, mountain tourism organizations, hiking associations, Nordic walking clubs, etc. The leaders from these organizations, associations, or clubs informed hikers about my research program. Mountain hikers who were interested in participating in the research clicked on a survey link. The hikers filled in questionnaires and sent them back to the author. Participation in the research was voluntary and anonymous.

Data collection took place between September and December 2021. The participants needed about 25 min to complete the questionnaires.

All of the participants were selected on the basis of the following criteria: (a) they had more than 1 year of experience in mountain hiking; (b) they were highly interested in participating in the research; (c) they were mountain hikers between 18 and 26 years old (I was looking for young hikers because they undertake harder adventures than other age groups [53]); (d) they practiced mountain hiking for at least 7 days per year.

Among the 258 interested outdoor recreationists, 16 did not meet the eligibility criteria. The exclusion criteria were (a) an age below 18 or above 26 years old, and (b) incidental mountain hiking (e.g., less than 1 week per year).

2.3. Materials

2.3.1. Oxford Happiness Questionnaire (OHQ)

The Oxford Happiness Questionnaire (OHQ) [54] is a 29-item scale with all items included in one factor. The Polish version of the OHQ includes two subscales: general satisfaction with life (Cronbach’s α = 0.88) and control of life (Cronbach’s α = 0.82). Responses are rated on a six-point Likert scale ranging from 1 (strongly disagree) to 6 (strongly agree) [55].

2.3.2. Meaning of Life Questionnaire (MLQ)

The MLQ [56] is a nine-item scale with two subscales: presence of meaning in life (Cronbach’s α = 0.86) and search for meaning in life (Cronbach’s α = 0.72). The Polish adaptation was presented in [57]. Responses are rated on a seven-point Likert scale ranging from 1 (absolutely true) to 7 (absolutely untrue).
2.3.3. Positive and Negative Affect Schedule (PANAS)

The PANAS [58] is a 20-item scale with two subscales: positive affect (PA) and negative affect (NA). The correlation coefficients are 0.73 for positive affect and 0.90 for negative affect. The Polish adaptation was presented in [59]. Responses are rated on a five-point Likert scale ranging from 1 (very slightly or never) to 5 (very much).

2.3.4. The Temporal Satisfaction with Life Scale

The Temporal Satisfaction with Life Scale [60] is a 15-item self-report instrument intended to diagnose the respondent’s past (Cronbach’s $\alpha = 0.81$), present (Cronbach’s $\alpha = 0.79$), and future life satisfaction (Cronbach’s $\alpha = 0.81$). Responses are rated on a seven-point Likert scale ranging from 1 (absolutely untrue) to 7 (absolutely true). The Polish adaptation was presented in [61].

2.3.5. Hope Scale

The Hope Scale [62] is a 12-item scale that measures the level of hope. The Hope Scale consists of two subscales: agency (e.g., measures one’s goal-directed energy to pursue one’s goals) (Cronbach’s $\alpha = 0.82$) and pathway (e.g., measures one’s extent of creating ways to achieve one’s goal) (Cronbach’s $\alpha = 0.72$). In this study, the agency subscale was used. Responses are rated on a seven-point Likert scale ranging from 1 (definitely false) to 7 (definitely true). The Polish adaptation was presented in [63].

2.3.6. General Self-Efficacy Scale

The General Self-Efficacy Scale [64] consists of 10 statements, with all items included in one factor. It diagnoses an individual’s general self-efficacy beliefs in the face of difficult situations (Cronbach’s $\alpha = 0.85$). Responses are rated on a four-point Likert scale ranging from 1 (not at all true) to 4 (exactly true). The Polish adaptation was presented in [65].

2.3.7. Ego Resiliency Scale

The Ego Resiliency Scale [66] consists of 14 items. It measures resiliency in different situations (Cronbach’s $\alpha = 0.78$). Responses are rated on a four-point Likert scale ranging from 1 (does not apply at all) to 4 (applies very strongly). The Polish adaptation was presented in [67].

2.3.8. Life Orientation Test Revised (LOT-R)

The Life Orientation Test Revised (LOT-R) [68] is a 10-item unidimensional scale (Cronbach’s $\alpha = 0.73$). The Polish adaptation was presented in [69]. The questionnaire measures dispositional optimism. Responses are rated on a five-point Likert scale ranging from 0 (strongly disagree) to 4 (strongly agree).

2.3.9. Adventure-Seeking Behavior Scale

The Adventure-Seeking Behavior Scale [70] was developed to assess an individual’s stimulating behavior in a natural environment. The ABSS is an eight-item scale that determines an individual’s willingness to engage in a variety of outdoor recreations despite water, gravity, and weather risks (Cronbach’s $\alpha = 0.80$).

2.4. Statistical Analysis

All tests were performed using Statistica 13.0 (StatSoft, Krakow, Poland). Different types of cluster analysis were used to extract clusters (profiles of mountain hikers): k-means clustering method and expectation (E)–maximization (M) clustering method.

The k-means clustering method was used in this study to extract the basic clusters of wellbeing of participants who undertook different forms of adventure in close contact with the natural environment. The main goal of the k-means clustering method is to extract clusters such that observations belonging to the same cluster are very similar or homogeneous and observations belonging to different clusters are different or heterogeneous [71].
EM cluster analysis was used to segment participants in this study. The general purpose of EM clustering is to detect clusters in examples and to assign participants to these clusters. The advantage of the EM method is that (unlike the classic method of cluster analysis) it enables the handling of not only quantitative variables (seeking adventure), but also qualitative ones (profiles of psychological functioning). This method also allows for the automatic identification of the optimal number of groups [71].

3. Results

3.1. Profiles of The Oxford Happiness Questionnaire in the Group of Mountain Hikers

The first step when using the k-means cluster method is to indicate the number of clusters that will be generated in the final solution. Therefore, I checked whether the variables general satisfaction with life and control of life could be grouped into two clusters. Results of the k-means cluster method indicated that this solution was unsatisfactory (higher variance between groups than variance within any single group is an important criterion in extracting clusters [71]). In the case of general satisfaction with life, this criterion was not met for two clusters. The k-means cluster method showed that the three-cluster model met this criterion. In this model, variance between the groups is higher than variance within the groups for both variables: general satisfaction with life and control of life. This means that participants in particular clusters obtained similar results for these two variables, and they were different from the results of subjects from other clusters (see Table 1).

Table 1. Variance within and between groups for the Oxford Happiness Questionnaire: results of k-means cluster analysis.

| Model      | Variable                      | Variance between Group | df | Variance within Group | df | F     | p   |
|------------|-------------------------------|------------------------|----|-----------------------|----|-------|-----|
| Two clusters | General satisfaction with life | 53.14                  | 1  | 58.09                 | 240| 219.55| 0.01|
|            | Control of life               | 97.64                  | 1  | 64.26                 | 240| 364.63| 0.01|
| Three clusters | General satisfaction with life | 66.43                  | 2  | 44.80                 | 239| 177.21| 0.01|
|            | Control of life               | 125.45                 | 2  | 36.46                 | 239| 411.17| 0.01|

Cluster analysis revealed three clusters. The first cluster contained 98 individuals who had high scores on both scales (i.e., a high score on the general satisfaction with life subscale and a high score on control of life subscale). The second cluster comprised 32 respondents who scored low on the general satisfaction with life subscale and low on the control of life subscale. The last cluster was composed of 112 respondents who received averages scores on both scales (see Figure 1).

![Cluster analysis revealed three clusters.](Figure 1. Clusters of OHQ in the sample of respondents.)
3.2. Profiles of Meaning of Life in the Group of Mountain Hikers

In next step, I analyzed profiles of the meaning of life in the group of outdoor recreationists. The results are presented in Table 2 and Figure 2.

**Table 2.** Variance within and between groups for the *Meaning of Life Questionnaire* (MLQ): results of k-means cluster analysis.

| Model          | Variable                       | Variance between Group | df | Variance within Group | df | F     | p    |
|----------------|--------------------------------|-------------------------|----|-----------------------|----|-------|------|
| Two clusters   | Presence of meaning in life    | 320.57                  | 1  | 182.55                | 240| 421.44| 0.01 |
|                | Search for meaning in life     | 49.85                   | 1  | 282.27                | 240| 42.38 | 0.01 |
| Three clusters | Presence of meaning in life    | 297.34                  | 2  | 205.81                | 239| 172.62| 0.01 |
|                | Search for meaning in life     | 186.57                  | 2  | 145.54                | 239| 153.18| 0.01 |

**Figure 2.** Clusters of MLQ scale in the sample of respondents.

Cluster analysis revealed three clusters. The first cluster contained 114 individuals who had high scores on both scales (i.e., a high score on the presence of meaning in life subscale and a high score on search for meaning in life scale). The second cluster comprised 91 respondents who scored average on the Presence of meaning in life and scored high on the search for meaning scale. The last cluster was composed of 37 respondents who received averages scores on both scales (see Figure 2).

3.3. Positive and Negative Affect in the Group of Mountain Hikers

Another step included the analysis of profiles for PANAS scale (positive and negative affect). The results are presented in Table 3 and Figure 3.

**Table 3.** Variance within and between groups for PANAS scale: results of k-means cluster analysis.

| Model          | Variable       | Variance between Group | df | Variance within Group | df | F     | p    |
|----------------|----------------|-------------------------|----|-----------------------|----|-------|------|
| Two clusters   | Positive affect| 31.20                   | 1  | 74.36                 | 240| 100.70| 0.01 |
|                | Negative affect| 73.23                   | 1  | 71.46                 | 240| 245.96| 0.01 |
| Three clusters | Positive affect| 58.05                   | 2  | 47.51                 | 239| 146.01| 0.01 |
|                | Negative affect| 81.88                   | 2  | 62.81                 | 239| 155.78| 0.01 |
3.4. Temporal Satisfaction with Life in the Group of Mountain Hikers

The results of cluster analysis for the Temporal Satisfaction with Life Scale (see Table 4).

Table 4. Variance within and between groups for the Temporal Satisfaction with Life Scale: results of k-means clustering analysis.

| Model       | Variable       | Variance between Group | df | Variance within Group | df | F   | p    |
|-------------|----------------|------------------------|----|-----------------------|----|-----|------|
| Two clusters| Past satisfaction | 162.15                 | 1  | 301.35                | 240| 129.13| 0.01 |
|             | Present satisfaction | 256.04                 | 1  | 173.66                | 240| 353.85| 0.01 |
|             | Future satisfaction  | 169.93                 | 1  | 218.73                | 240| 186.44| 0.01 |
| Three clusters| Past satisfaction  | 253.70                 | 2  | 209.81                | 239| 144.49| 0.01 |
|             | Present satisfaction | 270.91                 | 2  | 158.79                | 239| 192.52| 0.01 |
|             | Future satisfaction  | 239.81                 | 2  | 148.85                | 239| 192.52| 0.01 |

The first cluster comprised 94 respondents who scored high for positive affect and low for negative affect. The second cluster contained 72 recreationists who had high scores on both PANAS scales. The last cluster was composed of 76 respondents who received a lower score for positive affect and a higher score for negative affect.

3.5. Psychological Capital in the Group of Mountain Hikers

The final step included an analysis of psychological capital in the group of outdoor recreationists. Psychological capital consisted of the following variables: hope, self-efficacy, resilience, and optimism. The results of cluster analysis revealed three clusters. The first cluster comprised 136 individuals who scored high on all three scales of psychological capital. The second cluster consisted of 27 respondents who received average scores for the past and present satisfaction scales but a high score for the future satisfaction scale (see Figure 4).

The first cluster comprised 85 respondents who scored high on all three scales of temporal satisfaction in life. The second cluster contained 72 recreationists who had average scores for temporal satisfaction with life. The last cluster was composed of 76 respondents who received average scores for the past and present satisfaction scales but a high score for the future satisfaction scale (see Figure 4).

Figure 3. Clusters of PANAS Scale in the sample of respondents.

Figure 4. Clusters of TSLQ scale in the sample of respondents.
3.5. Psychological Capital in the Group of Mountain Hikers

The final step included an analysis of psychological capital in the group of outdoor recreationists. Psychological capital consisted of the following variables: hope, self-efficacy, resilience, and optimism (see Table 5).

Table 5. Variance within and between groups for Psychological Capital Scale: results of k-means clustering analysis.

| Model       | Variable   | Variance between Group | df | Variance within Group | df | F     | p     |
|-------------|------------|------------------------|----|-----------------------|----|-------|-------|
| Two clusters| Hope       | 13.78                  | 1  | 25.83                 | 240| 1428.08| 0.01  |
|             | Self-efficacy | 26.16                  | 1  | 36.67                 | 240| 171.20| 0.01  |
|             | Resilience  | 24.21                  | 1  | 34.23                 | 240| 169.75| 0.01  |
|             | Optimism    | 26.96                  | 1  | 49.75                 | 240| 130.04| 0.01  |
| Three clusters| Hope       | 20.15                  | 2  | 19.46                 | 239| 123.71| 0.01  |
|             | Self-efficacy | 32.64                  | 2  | 30.20                 | 239| 129.14| 0.01  |
|             | Resilience  | 30.35                  | 2  | 28.09                 | 239| 129.12| 0.01  |
|             | Optimism    | 41.58                  | 2  | 35.13                 | 239| 141.45| 0.01  |

Cluster analysis revealed three clusters. The first cluster contained 136 individuals who had averages scores on all Psychological Capital scales. The second cluster comprised 79 respondents who scored high on the Psychological Capital scales. The last cluster consisted of 27 respondents who received low scores on all Psychological Capital scales (see Figure 5).

Figure 5. Clusters of psychological capital in the sample of respondents.

3.6. Typology of Mountain Hikers Based on Their Wellbeing Profiles and Adventure-Seeking Behavior Scale Scores

The results of the research on the psychological profiles of mountain hikers were the basis for the further statistical analyses presented below. The goal was to understand the psychological wellbeing profiles of people with different scores on the Adventure-Seeking Behavior Scale.

EM (expectation–maximization) cluster analysis was used to segment the participants in this study. The general purpose of EM clustering is to detect clusters in examples and assign those participants to the clusters. The advantage of the EM method is that (unlike the classic method of cluster analysis) it enables the handling of not only quantitative variables (seeking adventure), but also qualitative ones (profiles of psychological functioning). This method also allows for the automatic identification of the optimal number of groups [71].

EM cluster analysis revealed two types of mountain hikers with different scores on the Adventure-Seeking Behavior Scale (so-called hard adventurers \( n = 100 \) and soft adventurers...
The two groups of adventurers were also characterized by different profiles of psychological wellbeing (see Table 6).

Table 6. Profiles of wellbeing in the group of soft and hard adventurers.

| Profile                                      | Soft Adventurers | Hard Adventurers | Number |
|----------------------------------------------|------------------|------------------|--------|
| The Oxford Happiness Questionnaire          |                  |                  |        |
| Profile 1: high satisfaction with life/high control of life | 8                | 90               | 98     |
| Profile 2: lower satisfaction with life/lower control of life | 32               | 0                | 32     |
| Profile 3: average satisfaction with life/average control of life | 102              | 10               | 112    |
| $\chi^2 = 174.13, \ p < 0.01; G^2 = 103.05, \ p < 0.01$ |                  |                  |        |
| Meaning of Life Questionnaire                |                  |                  |        |
| Profile 1: high presence of meaning/high search for meaning | 30               | 84               | 114    |
| Profile 2: average presence of meaning/high search for meaning | 77               | 14               | 91     |
| Profile 3: average presence of meaning/average search for meaning | 35               | 2                | 37     |
| $\chi^2 = 94.17, \ p < 0.01; G^2 = 205.34, \ p < 0.01$ |                  |                  |        |
| Positive and Negative Affect Scale           |                  |                  |        |
| Profile 1: high positive affect/low negative affect | 16               | 78               | 94     |
| Profile 2: high positive affect/ high negative affect | 50               | 22               | 72     |
| Profile 3 average positive affect/ high negative affect | 76               | 0                | 76     |
| $\chi^2 = 124.23, \ p < 0.01; G^2 = 153.75, \ p < 0.01$ |                  |                  |        |
| Temporal Satisfaction with Life              |                  |                  |        |
| Profile 1: high in past/high in present/high in future | 19               | 66               | 85     |
| Profile 2: average in past/average in present/average in future | 56               | 2                | 58     |
| Profile 3: average in past/average in present/high in future | 67               | 32               | 99     |
| $\chi^2 = 83.87, \ p < 0.01; G^2 = 95.83, \ p < 0.01$ |                  |                  |        |
| Psychological Capital                        |                  |                  |        |
| Profile 1: average hope/average self-efficacy/average resilience/average optimism | 97               | 39               | 136    |
| Profile 2: high hope/high self-efficacy/high resilience/ high optimism | 18               | 61               | 79     |
| Profile 3: lower hope/lower self-efficacy/lower resilience/ lower optimism | 27               | 0                | 27     |
| $\chi^2 = 69.95, \ p < 0.01; G^2 = 80.37, \ p < 0.01$ |                  |                  |        |

The two types of mountain hikers differed in terms of subjective wellbeing profiles. Hard adventurers most often revealed the following wellbeing profiles: high level of life satisfaction and high level of life control, high level of meaning in life and high level of searching for new meaning in life, high level of positive emotions and low level of negative emotions, high level of satisfaction in various time perspectives (past, present, and future), and a high level of psychological capital. On the other hand, soft adventurers most often revealed an average level of satisfaction with life and average level of life control, average level of the meaning of life and high level of searching for the meaning of life, the average level of positive emotions and higher level of negative emotions, high level of satisfaction in a future perspective and average levels of satisfaction in past and present time perspectives, and average level of psychological capital.

4. Discussion

The conducted research was primarily aimed at distinguishing the wellbeing profiles of people undertaking mountain hiking. In turn, the separated wellbeing profiles and the Adventure-Seeking Behavior Scale score were the basis for the classification of types of mountain hikers.

The results of cluster analysis using the EM method indicated two main types of mountain hikers: hard adventure hikers and soft adventure hikers. Hard adventure hikers like being active in the natural environment despite various threats to their health or even life. The sources of these threats are water conditions, gravity conditions, or unfavorable weather conditions.

The research results indicated that hard adventure hikers were characterized by high mental wellbeing. They considered themselves in control of their own lives. In everyday life, they revealed a high level of positive emotions and a low level of negative emotions. Hard adventure hikers were satisfied with the past, present and future. They found meaning in their own lives, but also looked for new meanings. They had a high level of personal resources. This is in line with research outcomes that identified low levels of
negative emotions and a high level of psychological potential in a group of risk takers in the wilderness [72–74].

The profile of hard adventure hikers included high levels of personal resources. Personal resources allow people to achieve personal aspirations, reducing different costs associated with the demanding conditions of environments. Personal resources promote subjective wellbeing [73] High levels of personal resources in the group of hard adventure hikers granted them more resources at their disposal to cope with dangers in the wilderness and allowed them to influence the outcomes of events, both positive and negative. To them, adventure in the wilderness could stimulate personal growth. This is in line with research outcomes that identified high levels of psychological capital in a group of adventurers [73].

In contrast the previous group, soft adventure hikers were more likely to have lower wellbeing. They also had lower confidence in control of their own life. Compared to hard adventure hikers, they also experienced negative emotions more often. The source of their greatest satisfaction was the future. They were less satisfied with the past and present. Less often, compared to hard adventure hikers, they had a sense of the presence of meaning in life; however, they also looked for new meanings. They had lower psychological capital scores compared to hard adventure hikers.

What is the significance of the obtained research results for functioning in the natural environment? What are consequences of these results for taking up challenges in the natural environment? These results suggest that hard adventure hikers may control stress more effectively than soft adventure hikers, and they may react significantly less often with negative emotions in the wilderness. This means that their personal safety may be less at risk in the wilderness than soft adventure hikers. Moreover, they may tend not to focus on the potential negative consequences of remaining in a threatening natural environment. Hard adventure hikers are optimistic persons with high levels satisfaction with life. However, one must remember that this may often be unrealistic optimism, which may lead to underestimation of the risk of death in the wilderness [75].

The results can also be interpreted using different complex models of wellbeing. The PERMA model emphasizes the importance of achievements in creating wellbeing [21]. Similarly, the DRAMMA model includes the component of challenges [23]. In turn, Ryff’s six-factor model of wellbeing describes environmental mastery as an important component of personal happiness [22]. Hard adventure recreation enables the achievement of challenging goals and the improvement of one’s own competences in a natural way; thus, its relationship with mental health and positive functioning seems obvious.

4.1. Limitations of the Study and Future Directions

An important limitation of the present study is that the participants in this study were young people. They were a select group and not a representative sample of the population. This fact limits the generalizability of the results. In future research, it would be important to assess not only young adults but also other groups of people.

Another important limitation of the present study is that information regarding the socioeconomic factors of participants was very limited. The findings likely apply to participants of different socioeconomic backgrounds, in terms of including educational attainment, profession, race and ethnicity, and household income. Future research should explain the role of socioeconomic status in the typology of outdoor recreationists.

The data were collected in Poland. This limits the generalizability of the results for people from other geographical regions. Therefore, in future research, it would be interesting to analyze the profiles of wellbeing in hikers from other countries.

In this study, only some of the variables of wellbeing were subjected to analysis. Future research might encompass other variables of wellbeing such as flow, flourishing, vitality, or the dimensions of wellbeing proposed by Ryff [22].

In the current study, the participants of the study were not diagnosed during outdoor recreation. In future studies, adventure participants could fill out the questionnaires
during outdoor recreation. Furthermore, future research can examine participants before embarking on an adventure in the wilderness and after completing their adventure.

The current research focused only on one type of outdoor recreation (mountain hiking). This means that the results can only be applied to a very narrow population. Therefore, in future research, it would be interesting to analyze profiles of wellbeing in other recreationists such as skydivers, paragliders, or skiers.

An important limitation of the current study is that some differences between hard and soft adventurers were not very significant and should more be considered a trend.

4.2. Applications of Current Study

The research results showed that people who are looking for adventures in the natural environment are more often characterized by high wellbeing profiles. This knowledge can be an important argument for people who hesitate with regard to taking up challenges in the natural environment. Moreover, the obtained research results can be used in outdoor education. Information that an adventurer in the natural environment may be associated with higher wellbeing can be a valuable hint for people conducting adventure therapy or people who manage survival schools.

5. Conclusions

Researchers very often analyze the motivational or personality factors of outdoor recreationists. This perspective explains why adventurers explore the natural environment; however, it says little about the daily subjective wellbeing of these people. The present research indicated that two types of wellbeing profiles exist among outdoor recreationists: hard adventurers and soft adventurers. Distinguishing these types of recreationists can allow us to better understand the phenomenon of outdoor recreation.

Funding: This research received no external funding.

Institutional Review Board Statement: The study was conducted in accordance with the Declaration of Helsinki, and approved by the Bioethics Committee of Institute of Psychology at the University of Szczecin (14/2019; date of approval: 6 December 2019).

Informed Consent Statement: Informed consent was obtained from all subjects involved in the study.

Data Availability Statement: The datasets used during this study are available from the author.

Acknowledgments: The author would like to thank all persons who participated in the study.

Conflicts of Interest: The author declares no conflict of interest.

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