Article
Assessment of the Prevalence of Alcoholic Beverage Consumption and Knowledge of the Impact of Alcohol on Health in a Group of Polish Young Adults Aged 18–35: A Cross-Sectional Study

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Abstract: Alcoholic beverages are widely consumed worldwide, especially by young adults. Their excessive consumption is associated with numerous health, social and financial damages. The level of knowledge of young adults about the health effects of consuming alcoholic beverages is low, and research in this area is conducted on small, unrepresentative groups. This cross-sectional study aimed to assess the prevalence of alcoholic beverage consumption and the level of knowledge about the impact of ethyl alcohol on health in a group of people aged 18–35. The survey results indicate that the majority of respondents regularly consume alcoholic beverages (94.6%), and they are at a low risk of excessive consumption (p < 0.0001). The most frequently chosen alcoholic beverage in the studied group was beer, and the least chosen one was vodka. The main motive for reaching for alcoholic beverages was the desire to improve mood. Respondents did not indicate significant changes in alcohol consumption during the COVID-19 pandemic, but participants in the high-risk group more often indicated an increase in alcohol consumption (p = 0.0025). The analysis of the level of knowledge showed that the participants in the study had an average or low level of knowledge about the effects of ethanol on health, with no significant relationships between the study groups. The obtained results indicate a strong need for the continuous education of young people on the effects of the excessive consumption of alcoholic beverages on the body, with particular emphasis on the consequences of using alcohol as a mood-enhancing agent.

Keywords: alcohol; alcohol consumption; young adult; knowledge; public health; health promotion

1. Introduction

Alcoholic beverages are the most frequently used psychoactive agent [1], and their regular consumption is declared by approximately 2.3 billion people in the world, with the average consumption in the world in 2019 estimated at 5.8 litres of pure ethanol per person over the age of 15 years [2].

The consumption of alcoholic beverages varies depending on the country, culture, and age of the drinkers [3]. Soundararajan et al. [4] indicate that young adults consume twice as much ethyl alcohol as adults per month. Although the consumption of alcoholic beverages is increasing more and more among the elderly, young adults are much more likely to engage in heavy binge drinking than people from other age groups [3,4]. The first exposure to ethanol is observed in increasingly younger age groups [5], and early alcohol initiation is associated with an increased risk of alcohol abuse later in life, as well as an increased risk of alcohol-related injuries [4–6]. Moreover, it has been shown that with age, the amount and intensity of alcohol consumption decrease [3].

The results obtained by Visontay et al. [7] indicate that harmful alcohol consumption by young adults may have decreased between 1989 and 2015. This means that alcohol-related
health problems in this age group may decrease despite persistent addiction problems and short- and long-term health consequences. Despite the promising results, the authors emphasise the need for further research, as it is not known whether the significant reduction in alcohol consumption in young adults will be sustained later in life. In addition, it is also important to identify the cause of the observed decrease in harmful alcohol consumption by young adults. Burgess et al. [8] suggest that this change is generational testifying to the greater sense of young people, and Torronen et al. [9] suggest that it may be related, inter alia, with the increased use of social media, but also a greater interest in a healthy lifestyle and physical activity. Given that drinking alcohol is firmly embedded in many cultures, Irizar et al. [10] recommend focusing health policy on changing the current drinking culture by establishing publicly understandable drinking guidelines and increasing the availability of non-alcohol alternatives.

The COVID-19 pandemic has recently been an additional factor influencing the consumption of alcoholic beverages. According to estimates, before the COVID-19 pandemic, nearly one in three adults in OECD (Organization for Economic Cooperation and Development) countries used to become inebriated at least once a month, but pandemic-related restrictions have impacted both alcohol consumption habits and sales of alcoholic beverages [11]. The survey data indicate not only an increase in the amount, but also the frequency of consumption of alcoholic beverages [11], as well as an increase in the frequency of heavy drinking during the pandemic compared to the period before the pandemic [12,13]. Research conducted in Poland showed that over 30% of respondents changed the frequency of consumption of alcoholic beverages during the pandemic, with 14% reporting an increase in their consumption [14]; similar results were obtained by German researchers who noted an increase in alcohol consumption in 14% of young adults and 17% of adults [15]. On the other hand, a survey conducted in Canada showed that 18% of respondents who were more often at home due to coronavirus declared that their alcohol consumption had increased [16]. The recent literature indicates that during the COVID-19 pandemic, in young adults the greatest increase in alcohol consumption was associated with the severity of symptoms of depression [17]. Other authors note that the changes in the frequency of alcohol consumption were likely partly due to drinking alone and at home, which was exacerbated by the COVID-19 pandemic [18]. For this reason, specialists dealing with the prevention of risky behaviours have proposed the implementation of comprehensive measures to promote the reduction of alcohol consumption in order to cope with stress and isolation [19,20]. However, the latest research results suggest that in young adults, the use of a mobile application to target alcohol-related behaviour may be more effective than traditional interventions [21].

Recognising the problem of the growing consumption of alcoholic beverages, the World Health Organization emphasises that alcohol consumption during a pandemic may potentially exacerbate health problems and engagement in risky behaviour [22]. Ethyl alcohol, as a component of alcoholic beverages and a psychoactive and toxic substance, is one of the most common risk factors for many diseases, as well as premature death [23]. Long-term alcohol consumption increases the incidence of severe mental health problems, including severe depression and anxiety disorders. The consumption of ethyl alcohol by young people is also positively correlated with deliberately inflicted injuries, such as self-mutilation and interpersonal violence, as well as unintentional injuries, the most frequent of which are road accidents, poisoning, falls, fires and drowning [23–26]. Ethanol also reduces inhibitions and increases impulsivity, which may directly translate into aggressive behaviour after drinking alcoholic beverages, which is common among young people [27].

Despite the undoubtedly adverse effects of the excessive consumption of alcoholic beverages on health, knowledge of the consequences of consuming alcoholic beverages or the impact of ethanol on health seems to be still insufficient [28,29]. The studies published so far are often conducted with the participation of a small group of respondents who cannot be considered representative [30,31]. The research on the knowledge of young adults carried out in Poland showed that people who consumed alcoholic beverages in a risky
manner were characterised by a low level of knowledge about the negative effects of alcohol abuse [32,33], and in addition, general awareness of the symptoms of alcohol dependence in the Polish population is very low [34]. Analysing research conducted in other countries, it was observed that the general knowledge of the British regarding alcoholic beverages is low, because most of the surveyed people did not know the concept of a “standard drink” in the context of ethyl alcohol, were unable to correctly estimate its energy value or indicate the possible dangers resulting from its excessive consumption [28,29].

**Research Aim and Hypothesis**

Considering that ethyl alcohol is often abused by young adults and their knowledge of the effects of ethanol on health is insufficiently researched, the aim of this study was to assess the frequency, quality and style of alcohol consumption by young adults living in Poland aged 18–35 and to analyse the level of knowledge of the impact of alcoholic beverages on health.

During the study, a research hypothesis was put forward, according to which young adults aged 18–35 drink in a risky manner, and their knowledge about the influence of ethanol on human health is low.

**2. Materials and Methods**

**2.1. Ethical Statement**

Due to the epidemic situation in the country, the study was conducted using an anonymous online questionnaire hosted on the Google platform. All procedures were approved by the Ethics Committee of the Faculty of Human Nutrition Sciences of the Warsaw University of Life Sciences, Poland (No 3/2022). All participants consented to participate in the study and had the option to withdraw at any stage of the study.

**2.2. Studied Group**

The cross-sectional study was conducted in Poland in a group of adults aged 18–35. The data for the research was collected using the snowball method [35] over two time periods. The first round of survey data collection took place in the period from June to September 2021. Then, due to the increase in frequency of the consumption of alcoholic beverages observed in the winter [36], it was decided to return to collecting data from the respondents in the period from March to April 2022.

In the study 517 respondents participated. Of these, 1.8% (n = 9) were excluded due to age and 2.7% (n = 14) were excluded due to pregnancy or lactation. Additionally, 1.7% (n = 9) of the participants declared complete abstinence and 1% (n = 5) were addicted to alcohol, which resulted in their exclusion from the study. In the end, the data included in this study concerned the analysis of questionnaires that were correctly completed by 480 participants (Figure 1).

**Figure 1.** The flowchart showing the starting population, the exclusion criteria and the final population that completed the study.
2.3. Applied Questionnaire

The questionnaire created for this study was divided into three main parts (Table S1). The first part included questions about gender, age, body weight, height, marital status, size of the city of residence, employment and health assessment. Moreover, female respondents were asked about their current physiological state (pregnancy or lactation). Due to the risk associated with the consumption of alcoholic beverages by pregnant and breastfeeding women [37,38], as well as the recommended total abstinence in these periods [39], pregnant or breastfeeding women were excluded from the study. The second part included questions about the frequency and style of alcohol consumption, and the third focused on the assessment of the respondents’ knowledge of the impact of alcohol on health.

Questions on the frequency of consumption of alcoholic beverages were developed on the basis of the Chodkiewicz [40] and Sierosławski [41] questionnaires and the questionnaire published by Pretendent [42]. Most of the survey questions were closed, with the exception of age, weight, height, allergies and chronic disease. Moreover, the questionnaire included questions for which it was possible to provide one’s own answer, defined as “other”, if the variants proposed by the authors of the questionnaire were not appropriate. In the question “What type of alcoholic beverages do you most often consume currently?” the respondents had the opportunity to provide a type of alcoholic drink from outside the list proposed in the questionnaire. Single, non-recurring responses were classified as “other”. The section assessing drinking style used the Alcohol Use Disorder Identification Test (AUDIT) [43]. This test is a brief self-reported alcohol-screening test that is effective for assessing unhealthy alcohol use [43]. This instrument is a 10-question survey with a total score ranging from 0 to 40 points. Each item is rated from 0 to 4 points. A score of 8 or more on the AUDIT could indicate people who are risky drinkers or have alcohol use disorders. Commonly, the likelihood of a person having an alcohol use disorder is directly proportional to the highest score on the test. The second questionnaire whose questions were used in this part was developed by Žołnierczuk-Kieliszek et al. [44]. The last part, concerning the respondents’ knowledge of the impact of ethyl alcohol on health, was prepared on the basis of the Chodkiewicz questionnaire [40], Knowledge of Psychiatric Aspects of Alcohol Questionnaire [45] and the questionnaire published by the Health Research Board [46]. In order to estimate the level of respondents’ knowledge, a knowledge index developed for the purpose of this study was used. This instrument is a 28-question survey with a total score ranging from 0 to 28 points (Table S2). Each item is rated as 0 or 1 point. The answers to the questions considered “correct” are based on the current literature [47–60]. For three questions, 1 point was given to each respondent, regardless of the answer given, due to different interpretations. The interpretation of the Knowledge Index Score is presented in Table 1. In addition, the questionnaire also included a question about the impact of the COVID-19 pandemic on changes in drinking habits. In the question about sources of knowledge on the impact of ethanol on health, the answers provided by the authors of the questionnaire were “own observation”, which meant the individual experiences and observations of the respondent and “peers”, which meant learning about the impact of ethanol on health from the experiences of peers.

Table 1. Knowledge Index Score Interpretation.

| Number of Points | Interpretation          |
|------------------|-------------------------|
| 28–21            | High level of knowledge |
| 20–14            | Average level of knowledge |
| <14              | Low level of knowledge  |

2.4. Statistical Analysis

The required minimum sample size was calculated at 384 respondents. The sample size was calculated for the Polish population aged 18–35 (in total 8,267,480, based on Central Statistical Office data [61] in Poland), with a 95% confidence level and a 5% margin.
of error. A percentage of 50% was adopted, which maximizes the sample size (due to the lack of data on the expected percentage of results). Therefore, the collected sample of 480 respondents was interpreted as sufficient.

The statistical analysis was conducted using Statistica, version 13.0 (Statsoft Inc., Tulsa, OK, USA). To check the internal reliability of the questionnaire for the analysed group, Cronbach’s alpha coefficient (Table S3) was used, which was at a respectable level, indicating good internal consistency. The Kolmogorov–Smirnov test with Lillefors correction was used to analyse the normality of the distribution of continuous results. Then, due to non-parametric distributions, the subgroups were compared using Pearson’s chi-square test \(\chi^2\) and correlation analysis, which was performed using Spearman’s rank correlation coefficient. The significance level was set at \(p < 0.05\).

3. Results

3.1. Characteristics of the Studied Group and Results of the AUDIT Test

The characteristics of the anthropometric features of the participants included in the study are presented in Table 2. Women constituted more than half of the respondents, and statistical analysis showed that women had a significantly lower body mass index (BMI) than men participating in the study \((p < 0.0001)\), although all respondents had a normal body weight.

Table 2. Anthropometric characteristics of the studied group of participants by gender.

| Parameter      | Total \((n = 480)\) | Females \((n = 271)\) | Males \((n = 209)\) | \(p^2\) |
|----------------|---------------------|-----------------------|---------------------|---------|
| Age (years)    | Mean ± SD           | 24.5 ± 4.0            | 23.5 ± 3.1          | 25.9 ± 4.6 | <0.0001 |
|                | Median 1 (min–max)  | 24 (18–35)            | 23 (18–35)          | 25 (18–35) | <0.0001 |
| Weight (kg)    | Mean ± SD           | 70.4 ± 16.7           | 61.8 ± 12.1         | 81.5 ± 15.3 | <0.0001 |
|                | Median (min–max)    | 68 (42–132)           | 59 (42–112)         | 80 (46–132) | <0.0001 |
| Height (cm)    | Mean ± SD           | 173.1 ± 9.9           | 166.8 ± 6.1         | 181.4 ± 7.5 | <0.0001 |
|                | Median (min–max)    | 171 (145–203)         | 167 (145–185)       | 180 (160–203) | <0.0001 |
| BMI (kg/m\(^2\)) | Mean ± SD          | 23.3 ± 4.2            | 22.2 ± 3.9          | 24.7 ± 4.3 | <0.0001 |
|                | Median (min–max)    | 22.6 (16.1–41.0)      | 21.5 (16.5–40.6)    | 24.3 (16.1–41.0) | <0.0001 |

1 non-parametric distribution (Kolmogorov–Smirnov test with Lillefors correction; \(p < 0.05\)); 2 comparison using Pearson’s chi-square test \(\chi^2\); \(p < 0.05\).

Table 3 presents the detailed characteristics of the socio-demographic features of the studied group. The men participating in the study worked part-time significantly more often compared to the women, the majority of whom were students \((p < 0.0001)\).

Table 4 presents the results of the AUDIT test, which enables the assessment of alcohol consumption habits. The statistical analysis showed that significantly more participants in the studied group were characterised by a low risk level of alcohol consumption \(66.7\% \text{ vs. } 33.3\%, p < 0.0001\). It has been shown (Table S4) that, compared to participants with a low risk level alcohol consumption, a significantly higher percentage of participants with a risky drinking style declared drinking alcohol 2–3 times a week \(35.0\% \text{ vs. } 11.9\%, p < 0.0001\), a significantly lower percentage declared consuming six or more alcohol drinks on one occasion less than once a month \(55.6\% \text{ vs. } 31.3\%, p < 0.0001\). In addition, it can be noted that a lower percentage of hazardous drinkers during the last year have been able to remember what happened the night before, despite drinking \(89.1\% \text{ vs. } 28.1\%, p < 0.0001\), have never done something inappropriate \(90.0\% \text{ vs. } 34.4\%, p < 0.0001\), have never had problem with stopping drinking after starting \(96.6\% \text{ vs. } 51.9\%, p < 0.0001\), have never had to drink in the morning to recover from “heavy drinking” \(97.2\% \text{ vs. } 53.1\%, p < 0.0001\), have never experienced guilt or remorse \(77.5\% \text{ vs. } 23.8\%, p < 0.0001\). Moreover, a higher percentage of respondents with a low level of risky drinking style declared that during the last year no one had been injured as a result of drinking alcohol \(90.6\% \text{ vs. } 57.1\%, p < 0.0001\).
vs. 56.3%, \( p < 0.0001 \)), and no one had had an interest in or suggested restricting alcohol consumption (95.9% vs. 63.8%, \( p < 0.0001 \)). Additional analyses assessing the impact of the data collection period on the audit test results are included in the Supplementary Materials (Tables S11 and S12). No influence of the participants’ recruitment period on the risk of alcohol consumption was found (\( p > 0.05 \)), however, a significantly higher percentage of respondents recruited in the second period of data collection declared that they did not consume alcoholic beverages (8.5% vs. 0.0%, \( p = 0.0050 \)). Furthermore, participants recruited earlier significantly more frequently consumed seven or more drinks on one occasion (16.3% vs. 10.3%, \( p = 0.0067 \)). Moreover, the same group of study participants significantly less frequently declared problems with stopping drinking after starting (2.1% vs. 10.6%, \( p = 0.0050 \)) or met with comments from relatives about their excessive drinking (9.4% vs. 3.5%, \( p = 0.0355 \)).

Table 3. Socio-demographic characteristics of the studied group of participants by gender.

| Parameter                  | Total \((n = 480)\) | Females \((n = 271)\) | Males \((n = 209)\) | \( p \)  |
|---------------------------|---------------------|-----------------------|---------------------|--------|
| Marital status            |                     |                       |                     |        |
| Single                    | 428 (89.2%)         | 249 (91.9%)           | 179 (85.7%)         | 0.0030 |
| Married                   | 44 (9.2%)           | 22 (8.1%)             | 22 (10.5%)          |        |
| Divorced                  | 8 (1.7%)            | 0 (0.0%)              | 8 (3.8%)            |        |
| Widowed                   | 0 (0.0%)            | 0 (0.0%)              | 0 (0.0%)            |        |
| Size of the place of residence |               |                       |                     |        |
| Village                   | 76 (15.8%)          | 49 (18.1%)            | 27 (12.9%)          |        |
| City up to 5000 residents | 24 (5.0%)           | 5 (1.9%)              | 19 (9.1%)           |        |
| City between 5000 and 50,000 residents | 70 (14.6%) | 41 (15.1%) | 29 (13.9%) | 0.0055 |
| City between 50,000 and 200,000 residents | 49 (10.2%) | 29 (10.7%) | 20 (9.6%) |        |
| City over 200,000 residents | 261 (54.4%) | 147 (54.2%) | 114 (54.6%) |        |
| Profession                |                     |                       |                     |        |
| Student                   | 270 (56.3%)         | 194 (71.6%)           | 76 (36.4%)          | <0.0001|
| Full-time job             | 171 (35.6%)         | 65 (24.0%)            | 106 (50.7%)         |        |
| Odd job                   | 28 (5.8%)           | 8 (2.9%)              | 20 (9.6%)           |        |
| Unemployed                | 11 (2.3%)           | 4 (1.5%)              | 7 (3.4%)            |        |

Values express counts (\( n \)) and percentages (%). Statistically significant differences between the sexes were analysed using Pearson’s chi-square test (\( \chi^2 \)).

Table 4. Drinking risk groups based on the AUDIT test results by gender.

| Interpretation                | Total \((n = 480)\) | Females \((n = 271)\) | Males \((n = 209)\) | \( p \)  |
|------------------------------|---------------------|-----------------------|---------------------|--------|
| Low-risk alcohol consumption | 320 (66.7%)         | 205 (75.7%)           | 115 (55.0%)         | <0.0001|
| High-risk alcohol consumption| 160 (33.3%)         | 66 (24.4%)            | 94 (45.0%)          |        |

Values express counts (\( n \)) and percentages (%). Statistically significant differences between the sexes were analysed using Pearson’s chi-square test (\( \chi^2 \)).

3.2. Analysis of the Correlation between Alcohol Consumption and Results of the AUDIT Test as Well as the Knowledge Test in the Studied Group

The analysis of the correlation between age and place of alcohol initiation, the type of alcoholic beverages consumed first, the type of alcoholic beverages consumed most often, changes in the consumption of alcoholic beverages due to the COVID-19 pandemic, the amount of expenditure on the purchase of alcoholic beverages and the frequency of binge drinking, and the results of the AUDIT test and the knowledge test in the group of young adults who participated in the study are presented in Table 5. It was observed that the analysed indicators were not related to the results of the knowledge test (\( p > 0.05 \)) except...
for the place of alcohol initiation, where a negative correlation was observed \((p = 0.0190; \ R = -0.1071)\), but some associations were observed for the AUDIT test results. Positive correlations were observed for the type of alcoholic beverages consumed most frequently \((p < 0.0001; \ R = 0.1830)\), the amount of money spent on purchasing alcoholic beverages \((p < 0.0001; \ R = 0.2395)\), and the frequency of binge drinking \((p < 0.0001; \ R = 0.3485)\), and negative correlations were observed for the age of alcohol initiation \((p = 0.0001; \ R = -0.0975)\) and the type of alcoholic beverage consumed first \((p = 0.0327; \ R = -0.1730)\). Statistical analysis showed (Table S5) that a significantly higher percentage of respondents declaring their first contact with ethyl alcohol at the age of 10–15 were people who consume ethyl alcohol at a risky level \((27.5\% \text{ vs. } 46.3\%, \ p < 0.0001)\). Moreover, compared to people with a low risk level of alcohol consumption, these people significantly more often, consumed alcoholic beverages at a social event for the first time, and vodka was the first alcoholic beverage consumed more often \((39.4\% \text{ vs. } 23.8\%, \ p = 0.0344 \text{ and } 23.8\% \text{ vs. } 15.9\%, \ p = 0.0214, \text{ respectively})\). Additionally, statistical analysis showed (Table S6) that people with a risky style of drinking alcohol, compared to people with a low risk level of alcohol consumption, choose vodka significantly more often \((20.0\% \text{ vs. } 5.3\%, \ p = 0.0001)\), as well as spending significantly more money \((\text{over 24 USD})\) on buying alcohol \((26.3\% \text{ vs. } 47.3\%, \ p < 0.0001)\). They also become inebriated more often \((61.9\% \text{ vs. } 21.3\%, \ p < 0.0001)\), and declared that they drunk more alcohol during the COVID-19 pandemic than before the pandemic \((18.1\% \text{ vs. } 7.8\%, \ p = 0.0025)\). Additional analyses assessing the impact of the data collection period on the alcohol consumption habits are included in the Supplementary Materials (Tables S13 and S14). No significant relationships were found in the discussed parameters, except for the amount of money spent on alcoholic beverages. Participants recruited to the study in the first period of data collection significantly more often spent much more money on alcoholic beverages \((34.1\% \text{ vs. } 28.6\%, \ p = 0.0148)\).

| Parameter | AUDIT Test | Knowledge Test |
|-----------|------------|---------------|
|           | \(p\)      | \(R^1\)       | \(p\) | \(R^1\) |
| Age of alcohol initiation | 0.0001 | -0.1730 | 0.0920 | -0.0770 |
| Place of alcohol initiation | 0.1412 | 0.0673 | 0.0190 | -0.1071 |
| The type of alcoholic drink consumed first | 0.0327 | -0.0975 | 0.8585 | 0.0082 |
| The type of alcoholic beverages consumed most often currently | <0.0001 | 0.1830 | 0.2762 | -0.0498 |
| The impact of the COVID-19 pandemic on the frequency of consumption of alcoholic beverages | 0.1228 | -0.0705 | 0.2517 | 0.0524 |
| The amount of money spent on purchasing alcoholic beverages | <0.0001 | 0.2395 | 0.0803 | -0.0114 |
| The frequency of binge drinking | <0.0001 | 0.3485 | 0.7492 | 0.0146 |

\(^1\) Non-parametric Spearman test.

The analysis of the correlation between the frequency of consumption of various types of alcoholic beverages and the results of the AUDIT test, as well as the results of the knowledge test is presented in Table 6. It was observed that the frequency of consumption of various types of alcoholic beverages was not related to the results of the knowledge test \((p > 0.05)\), but some relationships were observed for the results of the AUDIT test. Positive correlations were observed for the frequency of consumption of “coloured” alcoholic beverages...
beverages in the 12 months prior to the study \((p < 0.0001; R = 0.4153)\), as well as for the frequency of consumption of spirits \((p < 0.0001; R = 0.4443)\) in the 30 days prior to the study and “coloured” alcoholic beverages \((p < 0.0001; R = 3525)\) in the 30 days prior to the study, while a negative correlation was observed for the frequency of consumption of beer in the 30 days prior to the study \((p = 0.0002; R = −0.1681)\). Statistical analysis showed (Table S7), that a significantly higher percentage of respondents with a risky way of drinking alcohol, compared to those with a low level of alcohol consumption, declared drinking beer \((66.9\% vs. 35.6\%, p < 0.0001)\), vodka \((50.6\% vs. 13.4\%, p < 0.0001)\) and coloured alcoholic beverages \((29.4\% vs. 9.7\%, p < 0.0001)\) more often than once a month. Furthermore, it was shown (Table S8) that a significantly higher percentage of respondents with a low risk level of drinking, compared to respondents with a risky drinking style, declared that they had not drunk beer, vodka or coloured beverages in the last month \((34.1\% vs. 11.3\%, p < 0.0001, 59.1\% vs. 18.8\%, p < 0.0001, 66.3\% vs. 38.7\%, p < 0.0001\), respectively). Additional analyses assessing the influence of the period of data collection on alcohol consumption included in the Supplementary Materials (Tables S15 and S16) showed a relationship only for beer consumption. Previously recruited participants had consumed beer significantly more often in the last 30 days and 12 months prior to the study compared to respondents recruited in the second period of data collection \((30.5\% vs. 15.6\%, p = 0.0002 and 49.6\% vs. 44.5\%, p = 0.0005, respectively)\).

Table 6. The analysis of the correlation between the frequency of consumption of various types of alcoholic beverages and the results of the AUDIT test and the knowledge test in the group of young adults who participated in the study.

| Parameter                                                                 | AUDIT Test | Knowledge Test |
|---------------------------------------------------------------------------|------------|----------------|
| The frequency of consumption of alcoholic beverages                       | 0.2602     | 0.0515         |
| The frequency of consumption of beer in the 12 months prior to the test   | 0.2536     | −0.0522        |
| The frequency of consumption of wine in the 12 months prior to the test   | 0.2304     | 0.0548         |
| The frequency of consumption of spirits in the 12 months prior to the study| 0.7130     | 0.0168         |
| The frequency of consumption of “coloured” alcoholic beverages in the 12 months prior to the study | <0.0001 | 0.4153 |
| The frequency of consumption of beer in the 30 days prior to the test     | 0.0002     | −0.1681        |
| The frequency of consumption of wine in the 30 days prior to the test     | 0.4053     | 0.0381         |
| The frequency of consumption of spirits in the 30 days prior to the test  | <0.0001   | 0.4443         |
| The frequency of consumption of “coloured” alcoholic beverages in the 30 days prior to the test | <0.0001 | 0.3525 |

\(^1\) non-parametric Spearman test.

The analysis of the correlation between the average amount of alcoholic beverages consumed on one occasion and the results of the AUDIT test and the knowledge test is presented in Table 7. It was observed that the number of alcoholic beverages consumed on one occasion was not related to the results of the knowledge test \((p > 0.05)\). Positive correlations were observed for the AUDIT test results for the total amount of alcoholic...
beverages consumed on one occasion \( (p < 0.0001; R = 0.4497) \), beer \( (p < 0.0001; R = 0.2520) \),
wine \( (p = 0.0326; R = 0.0976) \), spirits \( (p = 0.0431; R = 0.0924) \) and “coloured” alcoholic beverages \( (p < 0.0001; R = 0.3760) \). The analysis of the amount of alcoholic beverage consumed on one occasion declared by the respondents showed (Table S9) that more than half drink 1–2 bottles or cans of beer; however, it was shown that a significantly higher percentage of respondents with a risky drinking style compared to those with a low risk level of drinking alcohol declared drinking 3–4 bottles or cans of beer on one occasion \( (29.4\% \text{ vs. } 9.7\%, p < 0.0001) \). In addition, more than half of the respondents declared that they usually drink 1–3 glasses of wine on one occasion, but it was shown that a significantly higher percentage of respondents with a risky drinking style compared to those with a low risk level of drinking alcohol reported drinking more than a bottle of wine on one occasion \( (13.1\% \text{ vs. } 3.1\%, p = 0.0007) \). Statistical analysis also showed that significantly more respondents from the group with a high risk level of alcohol consumption declared drinking more than five glasses of vodka \( (61.3\% \text{ vs. } 18.8\%, p < 0.0001) \) and more than three glasses of coloured alcoholic beverages \( (28.1\% \text{ vs. } 8.4\%, p < 0.0001) \) on one occasion, compared to people with a low risk level of alcohol consumption.

### Table 7. The analysis of the correlation between the average amount of alcoholic beverages consumed on one occasion and the results of the AUDIT test and the knowledge test in the group of young adults who participated in the study.

| Parameter                                      | AUDIT Test | Knowledge Test |
|------------------------------------------------|------------|----------------|
|                                                 | \( p \)    | \( R^1 \)      |
| Amount of alcoholic beverages consumed on one occasion | <0.0001    | 0.4497         |
| Amount of beer consumed on one occasion          | <0.0001    | 0.2520         |
| Amount of wine consumed on one occasion          | 0.0326     | 0.0976         |
| Amount of spirits consumed on one occasion       | 0.0431     | 0.0924         |
| Amount of “coloured” alcoholic beverages consumed on one occasion | <0.0001    | 0.3760         |

\( ^1 \text{non-parametric Spearman test.} \)

#### 3.3. Reasons for Consuming Alcoholic Beverages, Level and Sources of Knowledge about Ethyl Alcohol in the Study Group

Table 8 presents the reasons for the consumption of alcoholic beverages by the respondents divided into groups according to the risk level of alcoholic beverage consumption. Statistical analysis showed that significantly more people from the group at a high risk level of excessive alcohol consumption compared to people from the group at a low risk level of alcohol consumption declared that they drank alcohol because of drinking by friends \( (43.8\% \text{ vs. } 32.5\%, p = 0.0157) \), because of the desire to forget about troubles \( (25.6\% \text{ vs. } 8.1\%, p < 0.0001) \), to improve the mood \( (70.0\% \text{ vs. } 54.4\%, p = 0.001) \), to be courageous \( (21.3\% \text{ vs. } 7.5\%, p < 0.0001) \) or to kill boredom \( (30.0\% \text{ vs. } 8.1\%, p < 0.0001) \). Additional analyses assessing the influence of the period of data collection on the reasons for alcohol consumption included in the Supplementary Materials (Table S18) showed a relationship between the earlier recruitment period and the greater impact of taste on the desire to consume alcoholic beverages \( (59.6\% \text{ vs. } 42.2\%, p = 0.0005) \) and between the later recruitment period and the greater impact of drinking by friends on the desire to consume alcoholic beverages \( (39.2\% \text{ vs. } 29.1\%, p = 0.0350) \).
Table 8. Reasons for consuming alcoholic beverages in the study group divided according to the risk level of alcohol consumption.

| Parameter                                      | Total (n = 480) | Low Level of Risk (n = 320) | Risky Consumption of Ethyl Alcohol (n = 160) | p     |
|------------------------------------------------|-----------------|------------------------------|---------------------------------------------|-------|
| Why do you drink alcoholic beverages?          |                 |                              |                                             |       |
| Because friends drink                          | 174 (36.2%)     | 104 (32.5%)                  | 70 (43.8%)                                  | 0.0157|
| To forget about troubles                      | 67 (13.9%)      | 26 (8.1%)                    | 41 (25.6%)                                  | <0.0001|
| To have fun, be in a better mood               | 256 (53.4%)     | 174 (54.4%)                  | 112 (70.0%)                                 | 0.0010|
| To take courage                                | 58 (12.1%)      | 24 (7.5%)                    | 34 (21.3%)                                  | <0.0001|
| To kill boredom                                | 74 (15.4%)      | 26 (8.1%)                    | 48 (30.0%)                                  | <0.0001|
| It is tasty                                    | 227 (47.3%)     | 149 (46.6%)                  | 78 (48.8%)                                  | 0.6509|
| Out of curiosity                               | 28 (5.8%)       | 21 (6.6%)                    | 7 (4.4%)                                    | 0.3351|
| Other                                          |                 |                              |                                             |       |
| - Type of work                                 | 2 (0.4%)        | 1 (0.3%)                     | 1 (0.6%)                                    | 0.6163|
| - Support sleep                                | 1 (0.2%)        | 1 (0.3%)                     | 0 (0.0%)                                    | 0.4790|
| - I don’t drink alcohol                        | 9 (1.9%)        | 9 (2.8%)                     | 0 (0.0%)                                    | 0.0322|

Values express counts (n) and percentages (%). Statistically significant differences between the risk level of alcohol consumption were analysed using Pearson’s chi-square ($\chi^2$).

Table 9 presents the respondents’ knowledge of the impact of alcoholic beverages on human health. There were no statistically significant differences in the respondents’ knowledge of the impact of alcoholic beverages on human health depending on the risk level of alcohol consumption. The analysis of the results of the knowledge test about the health effects of consuming ethyl alcohol (Table S10) showed that compared to respondents with low-risk alcohol consumption, a significantly lower percentage of participants who consume alcohol in a risky style do not know the term “standard drink” in relation to alcohol (39.4% vs. 47.5%, $p = 0.0213$), indicate beer as a drink that can lead to addiction (85.6% vs. 95.9%, $p < 0.0001$), confirm that regular drinking of small doses of alcohol can lead to addiction (78.1% vs. 88.1%, $p = 0.0034$), exclude treating alcohol as a therapeutic agent (53.8% vs. 75.0%, $p < 0.0001$) and also indicate that beer does not make the heart stronger and does not decrease blood pressure (62.5% vs. 71.9%, $p = 0.0022$). At the same time, a higher percentage of respondents with low-risk alcohol consumption, believe that it takes the same amount of time to burn the consumed alcohol as to drink it (22.5% vs. 15.6%, $p = 0.0121$) and deny that the “hangover” lasts up to 20 h and begins after the body has rid the blood of the alcohol (36.9% vs. 29.7%, $p = 0.0320$). Additional analyses assessing the influence of the period of data collection on the level of knowledge about alcohol consumption are included in the Supplementary Materials (Tables S19 and S20). Significant differences were found between the data collection period and the score obtained in the knowledge test. The respondents recruited later had a significantly lower level of knowledge than the participants completing the questionnaire in the first period of data collection (1.45 vs. 8.6%, $p = 0.0055$).

Table 9. The level of knowledge about ethyl alcohol in the study group divided according to the risk level of alcohol consumption.

| Interpretation                  | Total (n = 480) | Low Level of Risk (n = 320) | Risky Consumption of Ethyl Alcohol (n = 160) | p     |
|--------------------------------|-----------------|------------------------------|---------------------------------------------|-------|
| High knowledge index           | 42 (8.8%)       | 28 (8.8%)                    | 14 (8.8%)                                   | 0.4432|
| Average knowledge index        | 285 (59.4%)     | 184 (57.5%)                  | 101 (63.1%)                                 |       |
| Low knowledge index            | 153 (31.8%)     | 108 (33.8%)                  | 45 (28.1%)                                   |       |

Values express counts (n) and percentages (%). Statistically significant differences between the risk levels of alcohol consumption were analysed using Pearson’s chi-square test ($\chi^2$).
Table 10 presents the respondents’ sources of knowledge about alcohol. It has been shown that a significantly higher percentage of participants with a high-risk level of excessive alcohol consumption indicated their own observations (81.3% vs. 70.5%, \( p = 0.0083 \)) and their peers (48.8% vs. 36.9%, \( p = 0.0126 \)) as sources of knowledge about alcohol, and a smaller percentage indicated teachers (14.4% vs. 21.9%, \( p = 0.0500 \)) compared to people with a low risk level of alcohol consumption.

### Table 10. Sources of knowledge on ethyl alcohol in the study group divided according to the risk level of alcohol consumption.

| Parameter                  | Total \( (n = 480) \) | Low Level of Risk \( (n = 320) \) | Risky Consumption of Ethyl Alcohol \( (n = 160) \) | \( p \)  |
|----------------------------|------------------------|-------------------------------|---------------------------------|--------|
| Where do you get information on the impact of alcohol on human health from? |                        |                               |                                 |        |
| Internet                   | 384 (80.0%)            | 259 (80.9%)                   | 125 (78.1%)                     | 0.4677 |
| Television                 | 75 (15.6%)             | 51 (15.9%)                    | 24 (15.0%)                      | 0.7897 |
| Radio                      | 22 (4.6%)              | 15 (4.7%)                     | 7 (4.4%)                        | 0.8774 |
| Own observation            | 354 (73.7%)            | 224 (70.0%)                   | 130 (81.3%)                     | 0.0083 |
| Press                      | 37 (7.7%)              | 24 (7.5%)                     | 13 (8.1%)                       | 0.8088 |
| Teachers                   | 93 (19.4%)             | 70 (21.9%)                    | 23 (14.4%)                      | 0.0500 |
| Parents                    | 99 (20.6%)             | 62 (19.4%)                    | 37 (23.1%)                      | 0.3385 |
| Peers                      | 196 (40.8%)            | 118 (36.9%)                   | 78 (48.8%)                      | 0.0126 |
| Books                      | 71 (14.8%)             | 50 (15.6%)                    | 21 (13.1%)                      | 0.4671 |
| Healthcare workers         | 78 (16.3%)             | 53 (16.6%)                    | 25 (15.6%)                      | 0.7930 |
| Other                      |                        |                               |                                 |        |
| - Social campaigns         | 1 (0.2%)               | 1 (0.3%)                      | 0 (0.0%)                        | 0.4790 |
| - I’m not interested       | 1 (0.2%)               | 1 (0.3%)                      | 0 (0.0%)                        | 0.4790 |

Values express counts (\( n \)) and percentages (%). Statistically significant differences between the risk level of alcohol consumption were analysed using Pearson’s chi-square test \( (\chi^2) \).

### 4. Discussion

Consuming alcoholic beverages by young adults is a significant problem not only of a social nature, resulting in injuries, accidents or aggressive behaviour [23], but also in terms of health, leading to addiction and health consequences, such as liver and kidney diseases, problems with the cardiovascular system or anxiety disorders [62–64]. Young adults consume alcoholic beverages during heavy drinking sessions, which are defined as the consumption of 60 g or more of pure ethanol consumed at least once a month, with the frequency of heavy drinking sessions highest in those aged 20–24 and especially high among young men [2,65]. According to current reports, the frequency of consumption of alcoholic beverages peaks at the age of 25–45 [2,66], and the level of knowledge of young adults about the effects of alcohol on health is insufficient [29,30].

Data in the literature indicate an increasing percentage of adolescents and young adults who consume alcoholic beverages, but also declare themselves as binge drinking or drinking alcohol every day [67–69]. In this study, the majority of respondents declared drinking alcoholic beverages in the last 12 months, and even in the last 30 days. Moreover, a significant proportion of respondents reported having become inebriated at least several times in their life. Research conducted in the younger age group indicates the problem of regular drinking of alcohol by adolescents. In Australia, more than half of the surveyed adolescents aged 12–17 declared that they had drunk alcohol in the last year [70], while regular drinking was reported by slightly more than 10% of Canadian youths aged 12–17 [71]. Although the results of more recent studies indicate a reduction in the frequency of drinking alcoholic beverages among young adults, high-risk alcohol consumption is still observed among students [72,73]. The authors of the research describe students as heavy and risky drinkers. Davoren et al. [74] showed that the vast majority of the studied students were in the group of risky consumption of ethanol, and about 20% of them declared regular
consumption of alcoholic beverages on weekdays. On the other hand, Boniface et al. [75] and John et al. [76] reported that the majority of young adults surveyed reported exceeding consumption limits and binge drinking during the last week. Another study by Black and Monrouxe [77] shows that a significant proportion of students report consuming at least 15 units of alcohol per week. Lee et al. [78] analysed the influence of the type of work on the frequency of consumption of alcoholic beverages, showing that the unemployed were much less likely to develop heavy drinking episodes (HED) than those working full-time. Moreover, the unemployed consumed less alcoholic beverages per week and experienced fewer health consequences, while in the group of full-time workers the consumption of alcoholic beverages was the highest, and they were much more likely to exceed alcohol consumption limits. The possible causes of alcohol abuse by working young adults may include the higher income of full-time workers, workplace amenities such as “happy hour” and the desire to reduce work-related stress, but also the need to feel more independent from parents [79–81].

In this study, the AUDIT test, which is a commonly used tool, was used to assess the drinking style of alcoholic beverages in a group of young adults. It was shown that the majority of the studied people were at a low risk level of alcoholic beverage consumption, with a greater percentage being women. In other studies, which also used the AUDIT test, an increase in the percentage of respondents drinking in a risky manner was observed in the group of students. The study by Beenstock [82] showed an increase in the percentage of people who obtained at least 8 points in the AUDIT test compared to previous years [83] (80% vs. 65%), which indicates an increase in the percentage of students abusing alcohol. In this study, a third of the respondents obtained at least 8 points in the AUDIT test. On the other hand, Messina et al. [84] conducted a study in a group of almost 2000 students using the AUDIT test, and the results show that more than half of the respondents had a high risk level of ethanol consumption, with a greater percentage of them being women. In a study by Heather [73], which analysed risky drinking among students at seven UK universities, the author did not find a significant difference in the AUDIT scores for men and women. Similar results were obtained in the study by O’Brien [85], which showed that students belonging to a sports team sponsored by the alcohol industry displayed more risky drinking behaviour, regardless of gender. Taking into account the research indicating an indirect relationship between alcohol sponsorship in sports and the subsequent development of risky behaviours related to alcohol consumption [86], the need to prohibit the advertising of alcoholic beverages and sports sponsorship by the alcohol industry is indicated [87,88].

The results of this study indicate that the consumption of alcoholic beverages for the first time by respondents who drink in a hazardous manner occurred around the age of 10–15 years old. The problem of an earlier alcohol initiation is indicated by the authors of many studies conducted in Poland [89–91] and around the world [5,92–94]. According to Grant and Dawson [95], starting alcohol consumption earlier (before the age of 15 years old) is associated with an increased risk of developing alcohol-related problems later in life. Guttmannova et al. [96] attempted to determine the effect of the age of starting alcohol use on alcohol abuse and alcohol dependence in adulthood. It was assumed that the period of early adolescence (11–14 years) is a sensitive period of development, in which starting to drink alcohol is particularly harmful. However, it has been shown that no period of puberty is more sensitive than others. It has been observed that people who started drinking alcohol regularly before the age of 21 years old had a higher rate of alcohol dependence in adulthood, while starting regular alcohol use at the age of 14 years old or earlier was not associated with a higher risk of alcohol dependence than starting regular alcohol use in middle or late puberty. The age of alcohol initiation may be influenced by many factors, such as socio-demographic variables, family, peers, personality traits and behavioural variables [97,98]. Alcohol consumption between the ages of 15–17 and earlier may be associated with damage to the developing brain [99], lead to the development of alcohol dependence later [100] and also increase the risk of disability [101]. This underscores the importance of screening for alcoholic beverage consumption among...
children and adolescents in order to implement appropriate measures to delay the age of first exposure to ethyl alcohol [102,103].

This study reported that young people with a high-risk level of alcohol consumption were more likely to consume alcoholic beverages at a social gathering for the first time. Similar results were obtained in other studies which showed that the main places where adolescents first consumed alcohol were at parties with friends or family or at street events [104,105]. Among the factors influencing the age of alcohol initiation there are social factors such as the company of peers or the family situation [97,98]. In addition, Osaki et al. [106] indicate that the first interaction of young people with alcohol is the result of the behaviour of family members and peers, with the influence of peers being much stronger. The minimum age limits for consumption of alcoholic beverages are less applicable in social settings such as the family home and social gatherings. Young people can easily succumb to the incentives to consume alcoholic beverages as part of their daily interactions with peers. Research has shown that peer drinking influences alcohol consumption among friends, while widespread disapproval of drinking among peers is associated with delayed initiation and lower alcohol consumption [65]. The results of the analysed studies indicate that the social space plays an important role in the first experiences related to alcohol consumption by adolescents. Therefore, it seems very important to plan and undertake appropriate educational activities with increasing involvement of parents, aimed at creating safe social spaces for young people and preventing the development of alcohol-related disorders in young people [107,108].

The choice and preferences of alcoholic beverages are related to many factors, including risky one-time alcohol use [109], daily alcohol consumption [109,110], health status, age and gender [111–114]. The analysis of the drinking style of alcoholic beverages by the respondents of this study showed that they most willingly drink beer, then wine and least frequently vodka. Other Polish questionnaire studies also showed that young adults most often drink beer [115,116]; a similar style of alcoholic beverage consumption is also observed in adolescents [117–119]. It should be emphasized that the current study also showed that significantly more people with a risky drinking style, compared to people with a low-risk level of alcohol consumption, drank vodka, which was also the first alcoholic drink they consumed. The available literature does not provide data on the preferences of alcoholic beverages in young adults who drink in a risky manner. In the study conducted by Cook et al. [120] in the group of adult men, no correlation was found between the amount of ethanol consumed from beer, wine and spirits and the results of the AUDIT test. It seems that this issue should be addressed in well-planned scientific studies, because our results show that risky drinkers of alcoholic beverages started their alcohol consumption with spirits and continue to drink them later in life, which may contribute to the faster development of health problems [121–123].

Studies show a significant association between the COVID-19 pandemic and the increase in alcoholic beverage consumption, exceeding recommended consumption limits and binge drinking [12,124,125]. According to psychological behavioural theories, social and environmental constraints related to the COVID-19 pandemic may have resulted in an increase in alcohol consumption to deal with the negative effects of lock-down stress [126]. In this study, it was observed that the consumption of alcoholic beverages among the respondents did not change. A significant proportion of respondents reported a reduction in consumption, but a significantly higher percentage of risky drinkers reported an increase in alcohol consumption during the pandemic. In studies by other authors that analysed changes in the frequency of alcohol consumption during the COVID-19 pandemic compared with behaviour before the pandemic, both increased and decreased alcohol consumption in various population groups were reported [127]. Moreover, many studies have observed elevated AUDIT scores compared to the pre-pandemic period [128–131], and some studies have also found an increase in the frequency of drinking before 5.00 p.m. [132]. On the other hand, Killgore et al. [130] showed a positive correlation between the length of isolation and the average result obtained in the AUDIT test. Although a study by Sallie et al. [133] found
that overall AUDIT scores decreased during the pandemic, respondents who increased their alcohol consumption during the pandemic also increased their drinking frequency. In addition, Weerakoon et al. [134] found that pre-pandemic alcohol abusers were more likely to increase their alcohol consumption during the pandemic compared to those who did not drink at a risky level. According to Calina et al. [135], in the context of the COVID-19 pandemic, alcohol consumption is a way for many people to relieve stress. The COVID-19 pandemic can affect the amount of alcohol consumed and the way of someone relates to that consumption, but it can also cause medium to long-term changes in health behaviour and the health status of many people. Due to the high global consumption of alcohol and the consequences related to its consumption, such as, for example, the weakening of the immune system [136], or the impaired development of immunity in response to vaccination [137], OECD [18] points out that comprehensive measures, including limiting the promotion of alcoholic beverages, or changes in the availability of alcoholic beverages, may be effective and economically beneficial in the fight against excessive drinking during a pandemic.

The present study showed that the majority of respondents consumed alcoholic beverages to improve their mood and feel better. Similarly, other authors indicate that young people most often drink alcoholic beverages in order to improve their mood, escape from problems or become like their peers [138–140]. A study of Italian students [84] showed that a significant proportion of high-risk respondents consume alcoholic beverages to cope with negative emotions, and low-risk individuals consume them under the influence of their peers. Similar results were obtained in our study, in which a significant proportion of the respondents, especially those from the group with a high-risk level of excessive alcohol consumption, also indicated that ethyl alcohol is helpful in overcoming difficulties such as trouble, lack of courage or overcoming boredom, while people from the low-risk group declared that they consume alcoholic beverages in order to improve mood and under the influence of friends. During a pandemic, an additional cause of increased alcohol consumption is increased stress, greater availability of alcohol and boredom, moreover, the stress associated with a pandemic increases the amount of alcohol drunk, which poses a health risk both from the perspective of the individual and wider society [12]. These results confirm the necessity of conducting educational activities aimed at increasing consumer awareness of the risks and negative effects of excessive alcohol consumption in order to cope with difficult emotions.

There are few studies assessing the level of knowledge of young people about the health effects of alcohol. The available literature which analysed respondents’ knowledge of alcohol focused on specific aspects, such as the energy value of alcoholic beverages [141], knowledge of the term “standard drink” [142–144] or their impact on health [30,145] and foetal development [146]. However, there are no studies that assess all these aspects in a single questionnaire. For this reason, this study includes questions that test the level of knowledge of all of the abovementioned aspects. The results showed that the respondents’ level of knowledge was average or low. Respondents with a high-risk level of alcohol consumption more often showed a lack of knowledge of the term “standard drink” in relation to alcoholic beverages. In the study by Vallance et al. [144], less than one third of the respondents correctly indicated the number of standard drinks in one package of various types of alcoholic beverages. Moreover, the older participants, with greater health awareness, more often gave correct answers compared to the younger and less health-conscious participants. In the study by Chodkiewicz [40], students’ beliefs about popular stereotypes about ethanol were tested. It was shown that almost 25% of participants did not associate the regular consumption of beer with the possibility of alcohol dependence, and over 80% of respondents denied the possibility of addiction resulting from regular binge drinking. Almost half of the respondents indicated ethyl alcohol as a treatment adjuvant. In the present study, it was observed that people with a high-risk level of excessive alcohol consumption responded more frequently, similar to the participants in the Chodkiewicz study [40]. In a study by Messina et al. [84], a relationship was observed
between risky alcohol consumption, determined on the basis of the AUDIT test results, and better knowledge of the respondents. Based on these results, the authors concluded that the mere awareness of the effects of alcohol on the body is not sufficient to prevent the occurrence of disorders associated with its excessive consumption. The authors emphasise the need for further research, as well as intensified educational activities, due to the long-term health consequences of alcohol abuse at a young age, as well as the high social and financial costs of ethanol addiction [147,148].

5. Limitation

The questionnaire on the knowledge about the health impact of ethyl alcohol used in the study was developed on the basis of questionnaires by other authors. The created questionnaire contained three questions to which there are no unambiguous answers in the currently available scientific literature, and which are formulated in an ambiguous manner, which could raise doubts in the respondents and affect the answers provided. Therefore, for the purposes of future research, better tools should be developed to assess the level of knowledge about the health effects of ethanol. An additional limitation of the study was that it was conducted in two stages (from June 2021 to September 2021 and from March 2022 to April 2022), which could have had a direct impact on the results of this study due to the possible differences in alcohol consumption during different periods of the year by study participants. In order to reduce the impact of this limitation, additional statistical analyses were performed and discussed in the results. Another limitation of the study is the fact that there is little possibility of generalising the results, because the sample is not fully representative.

6. Conclusions

The results of the presented study show that young adults, especially men, consume alcoholic beverages in a risky manner, and the main motive for reaching for alcoholic beverages is the desire to improve mood. Additionally, knowledge about the influence of ethanol on health among young adults is insufficient, and the most frequently mentioned sources of obtaining knowledge are the Internet and participants’ own observations, which confirms the research hypothesis made at the beginning of the study. Based on the presented results, it can be concluded that there is a need for more research, especially among young adults, into controlling alcohol abuse, as well as regular educational activities increasing the level of reliable knowledge about the impact of ethyl alcohol on the body. Educational and preventive activities should be based on the promotion of limiting the consumption of alcoholic beverages in social media, as well as using the latest technologies based on attributes such as anonymity and self-sufficiency, which are important for young adults. In addition, it is wise to take all necessary measures to prevent alcohol abuse problems from escalating during the coronavirus pandemic. Therefore, it seems warranted for governmental authorities to monitor alcohol consumption on a regular basis to determine the long-term health effects of drinking during a pandemic.

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