PEER GROUP, FAMILY RELATIONSHIPS, SPIRITUALITY AND ENTERTAINMENT INFLUENCES ON DRUG CONSUMPTION OF STUDENTS AT ONE UNIVERSITY IN MANABI, ECUADOR

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ABSTRACT: We examined the effect of family relationships, spirituality and entertainment on the relationship between resistance to peer influence and drug use among students of one university in Manabi in Ecuador, using a cross-sectional, descriptive-quantitative (n=250) design. The Questionnaire Socio-cultural Factors and Drug CICAD-CAMH 2011-2012 was applied. The 55.2% of the population reported having consumed legal drugs (8.4% for illegal drugs) in the last twelve months and 58.8% (9.6% for illegal drugs) in the past three months. The most widely used drugs in the past 12 months were alcohol and snuff, with 52.8% and 24.4% respectively. The level of sampling error was set at 0.01%. We found that there is a significant relationship between the influence of peers and drug use. Family relationships and spirituality (gender differences) are protective factors.


INFLUENCIA DE PARES, RELAÇÕES FAMILIARES, ESPIRITUALIDADE E ENTRETENIMENTO NO CONSUMO DE DROGAS POR ESTUDANTES DE UMA UNIVERSIDADE EM MANABI, EQUADOR

RESUMO: Examinamos o efeito das relações familiares, espiritualidade e entretenimento sobre a relação entre a resistência e uso de drogas entre estudantes de uma universidade em Manabí, Equador, utilizando um delineamento transversal, descritivo-quantitativa (n=250). O questionário de fatores sócioculturais e da toxicodependência CICAD-CAMH 2011-2012 foi aplicado. O 55.2% da população referiu ter consumido drogas legais (8.4% para drogas ilegais) nos últimos doze meses e 58.8% (9.6% para drogas ilegais) nos últimos três meses. As drogas mais utilizadas nos últimos 12 meses foram álcool e tabaco, com 52.8% e 24.4%, respectivamente. O nível de erro de amostragem foi de 0.01%. Descobrimos que existe uma relação significativa entre a influência dos pares e o uso de drogas. As relações familiares e a espiritualidade (com diferenças de gênero) são fatores de proteção.

INTRODUCTION

Drug use among young people is recognized as a set of behaviors that encompasses learning processes, cultural agents, and socialization. These agents, such as the family, peer groups, spirituality, and the entertainment industry, are some of the social institutions that young adults are exposed to daily and that have a very important cognitive influence on the decision-making process.

The use and abuse of addictive substances is a complex phenomenon that has adverse consequences upon the user’s health, family integration, and social development. Nowadays, the problems related to drugs have an impact at both the individual and collective level and constitute a public health problem that can trigger violence, the disintegration of families, and financial hardships.

Not only has the prevalence of alcohol and tobacco grown rapidly among the Ecuadorian population, but the average age of first use continues to decrease. In this survey, it was 12.8 years, in comparison with 13.7 and 14.8 noted in the 2005 and 1998 surveys, respectively. In other words, the age in this survey is almost one year younger than in the second survey and two years younger than in the first. In Ecuador, the consumption rate of over-the-counter tranquilizers among Ecuadorian students is 11.5%, higher than that registered in the 2005 survey. However, average age of first use remains the same as in the 2005 survey (13.2 years). On the other hand, the consumption rate of over-the-counter stimulants jumped significantly to 7.2% (2.7% in the 2005 survey), with the average age of first use remaining steady (13.4 years).

Cultural agents, however, have the potential to affect the traditional consumption process of alcohol, tobacco, and other drugs, as well as the social norms or practices that govern the use of certain substances within a culture.

All beliefs, habits, and practices are determined by culture, country, or region. For this reason, it is necessary to take into account cultural and legal aspects surrounding the use of drugs. Due to their daily presence and ancient origin in rising civilizations they became accepted and approved socially, providing individual characteristics, situational conditions, and/or environmental contexts that can be observed, and which inhibit, reduce, or mitigate the probability of use and/or abuse of drugs or transition in the level of involvement therewith.

The Ecuadorian executive branch submitted a bill for the Organic Integral Penal Code, which defines, in Article 8, Chapter 1, the “maximum dose for personal consumption,” where “possession of any drug intended exclusively for personal consumption and not exceeding the [set] amount, will not be punishable.” The limit is 10 grams for marijuana, five grams for cocaine, and 80 milligrams for methamphetamines, in granulated, powder, or crystal form or in units up to 400 milligrams.

This research is part of a multicentric study whose objective was to understand the correlation between cultural factors and drug use among students from an Ecuadorian university located in the city of Portoviejo, Manabi.

METHOD

This study used a cross-sectional descriptive approach, and examined the moderating factors of family relationships, spirituality, and entertainment in terms of the relationship between peers and legal and illegal drug use.

The study took place in a university in Manabi, Ecuador, a country located in northeastern South America, with an area of 245,370 km2. There are 14,306,876 inhabitants and the national language is Spanish. The quota sampling technique was used for the study, and 250 students, 18 years of age or over, were selected: 125 from the department of social sciences and 125 from the areas of human sciences/faculties of health sciences.

A self-administered questionnaire was used to collect data, which contained six sections and 81 questions, involving socio-demographics (7 questions), peer influence (4), family relationships (25), entertainment (9), spirituality (26), and drug use (10).

Participation in the study was voluntary. Each participant signed a free and informed consent form in advance. The study was previously approved by the Research Ethics Committee of the Addiction and Mental Health Center (CAMH). It took the students approximately 30 minutes to complete the questionnaire.

The selection process was performed by the main researcher, after the project was submitted to the respective authorities of the university (i.e., the dean of the scientific research committee of the faculty selected) to obtain their approval.

One approval criterion was to be 18 years of age or over. The students included in the study...
provided that: 1) the specific inclusion and exclusion criteria were met; 2) they were in agreement after receiving a detailed explanation regarding the research objectives, processes, the informed consent form and assurance of confidentiality; 3) all of their questions about the study and data collection process were answered; and 4) the free and informed consent form was signed.

The data were collected in the classrooms and the process was conducted by the main researcher, who explained the questionnaire and the consent form and distributed the questionnaire to the students to be completed in 10 minutes. As the participants completed the forms, they put them in two separate boxes that were placed in the classroom for that purpose.

An electronic database was developed using the Statistical Package for the Social Sciences (SPSS, Version 17.0 for Windows). The data was input by the main researcher. This database was tested with preliminary data from ten questionnaires completed by other students outside the study. This pilot study was performed to determine the effectiveness of the electronic database and the questionnaire.

A descriptive statistical analysis, with absolute and relative frequencies for the categorical variables and measures of central tendency, was performed; the measures of dispersion (standard deviation) for the numeric variables and bivariate correlations were also calculated. The relationships of the variables were considered statistically significant at $p<0.01$.

The research proposal was approved by the Ethics Committee of CAMH in November 2011 and by the Ethics Committee of the university in May 2012.

RESULTS

Sociodemographic characteristics

The sample consisted of 250 students, aged 18 to 24, from a university in Manabi, Ecuador. Of the students surveyed, 58.8% were female and 41.2% were male. The odds ratio for gender was $0.3 > 1$. Of the interviewees, 77.2% did not have children, 72.4% did not work, and 84% lived in the family home. The odds ratio for household situation was $4.7 > 1$.

In the study, 12.8% of the students were part-time and 87.2% were full-time. The odds ratio for enrollment was $3 > 1$; 79.5% of the students were in the 18 to 22 age range, as would be expected for university students.

Interviewees reported that there was a great deal of love in the family “most of the time” or “all the time” among 70.8% of the participants. They reported that they were proud of their families “most of the time.” Eight point four percent reported that they never use electronic media for entertainment. In terms of shopping-based entertainment, 55.2% responded “never”; 20.8% reported watching pornography as a form of entertainment, “very often.”

As far as the use of social networks, it was found that 26.4% “often participate.” The odds ratio for respondents who use interactive screen-based entertainment was $1.1 > 1$.

Drug use

In the sample, the prevalence rate in the last 12 months and three months respectively for alcohol consumption was the highest among all of the drugs. The second most used drug in the last 12 months was tobacco with a prevalence rate of 24.4%, and the second most used drug in the last three months was tobacco with a prevalence rate of 27.2%. Cocaine and amphetamines were the least used drugs in the last 12 and three months respectively.
Influencia de pares, familia, espiritualidad, entretenimiento y...

Table 1 - Prevalence of drug use according to type of drugs by students in the last 12 and 3 months Manabí, Ecuador, 2012

<table>
<thead>
<tr>
<th>Type of drug</th>
<th>Last 12 months F</th>
<th>Last 12 months %</th>
<th>Last 3 months F</th>
<th>Last 3 months %</th>
<th>Last 12 months F</th>
<th>Last 12 months %</th>
<th>Last 3 months F</th>
<th>Last 3 months %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tobacco</td>
<td>61</td>
<td>24.4</td>
<td>68</td>
<td>27.2</td>
<td>189</td>
<td>75.6</td>
<td>182</td>
<td>72.8</td>
</tr>
<tr>
<td>Alcohol</td>
<td>132</td>
<td>52.8</td>
<td>147</td>
<td>58.8</td>
<td>118</td>
<td>47.2</td>
<td>103</td>
<td>41.2</td>
</tr>
<tr>
<td>Cannabis</td>
<td>14</td>
<td>5.6</td>
<td>14</td>
<td>5.6</td>
<td>236</td>
<td>94.4</td>
<td>236</td>
<td>94.6</td>
</tr>
<tr>
<td>Cocaine</td>
<td>10</td>
<td>4.0</td>
<td>10</td>
<td>4.0</td>
<td>240</td>
<td>96.0</td>
<td>240</td>
<td>96.0</td>
</tr>
<tr>
<td>Amphetamines</td>
<td>10</td>
<td>4.0</td>
<td>10</td>
<td>4.0</td>
<td>240</td>
<td>96.0</td>
<td>240</td>
<td>96.0</td>
</tr>
</tbody>
</table>

n=250.

Relationship between peer influence and drug use

En terms of the relationship between drug use and peer influence it was found, with a probability of error less than 0.01, that students who use drugs were influenced by their peers to do so. With regard to alcohol consumption in the last three months, 33.6% report having used it once or twice a month.

The statistical correlation of 0.01% demonstrates that there is a relationship between friends who use drugs and drug use, wherein a change in one of the variables has an influence on changes in the other. In this case, the variables are correlated: 14% of the university students report that their friends do not use drugs. Of the 250 students surveyed, 86% said that their friends have taken drugs at some point in their lives.

There is a direct relationship between peer influence and drug use, and this association is statistically significant at a level of 0.01 (two-tailed). Of the 250 students surveyed, 91.6% report that they have never used illegal drugs, compared to 8.4% who have used them a few times in the last 12 months and 9.6% in the last three months.

The mean of the measurements is not too far from the prediction (with distance measured in standard deviations). Therefore, we do not consider that the measurements contradict the theory. The statistical correlation of 0.01% indicates a relationship between peer influence and drug use, wherein a change in one of the variables has an influence on changes in the other. In this case, the variables are correlated. There is a perfect positive correlation. The index indicates a total dependence and direct relationship between the two variables: when one variable increases, so does the other in a consistent proportion. (Table 2)

Table 2 - ACorrelation analysis of peer influence and drug use. Manabi, Ecuador, 2012

<table>
<thead>
<tr>
<th>Variables</th>
<th>Rpb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peer influence and legal drug use in the last 12 months</td>
<td>-.332*</td>
</tr>
<tr>
<td>Peer influence and illegal drug use in the last 12 months</td>
<td>-.291*</td>
</tr>
<tr>
<td>Peer influence and legal drug use in the last 3 months</td>
<td>-.320*</td>
</tr>
<tr>
<td>Peer influence and illegal drug use in the last 3 months</td>
<td>-.239*</td>
</tr>
</tbody>
</table>

n=250; *p <0.01.

DISCUSSION

The perception that drugs are either not very dangerous or not at all dangerous can constitute a risk factor that leads to experimentation and continued use of psychoactive substances, whereas negative perceptions are viewed as a protective factor that significantly influences the decision not to starting using drugs.

The use of drugs by university students and their peers, especially tobacco and alcohol, occurs among a substantial percentage of the university population. We found that a high percentage of students surveyed claim that only 14% of their friends do not use drugs, which would indicate that a major percentage of the students’ friends have used drugs at some point in their lives. The fact that their friends use drugs is therefore a risk factor for drug use and abuse by university students.

Respondents living at home were less likely to have used illegal drugs during the past 12 months than those not living with their families. Those who live at home were less likely to use drugs than those who live alone or with friends.

Understanding the likelihood of alcohol, tobacco, cannabis, and amphetamine use is very...
useful for understanding the etiology and progress of the use of these substances and to develop more specific prevention and intervention strategies among university students.

Parents should communicate with their children and know how to promptly detect the signs that may be manifested by drug users. This is an important and valid protective factor in drug use prevention. Parents often close their eyes to this reality, but should confront it through good communication and by being close to their children.

One way parents can protect their children from drugs and other unwanted behaviors is to discourage their association with friends who engage in these behaviors, set bad examples, and otherwise exert negative socialization influences.

As far as the quality of family relationships, it should be noted that a large majority of participants responded that their family cares about them “all the time” and that they enjoy their family “most of the time,” indicating that there is much love in the family unit.

Participants claimed that their family is a source of great happiness to them and that they are proud of their family “all the time.” The behavior of parents is extremely important to counter the peer pressure to use drugs experienced by university students.

In terms of electronic entertainment, a logistic regression analysis showed that there is a significant relationship between technological entertainment and parties, as well as between poor family relationships and the inability to moderate the relationship between friends and drug use (p<0.01). A large number of participants stated that they had never used shopping-based entertainment. Technological progress, such as advances in the music industry and exposure to screen-based entertainment, has had a major influence on entertainment as a socio-cultural factor.

Social networks are widely used, underscoring that individuals, therefore, comply with the needs to be accepted and belong to a social network of their psychological peers outside the circle of their family, and this social relationship can affect an individual’s behavior. Social networks are important because related information is shared and perceptions of others and rules are formed. However, it is only reasonable that others know the amount of time they spend on them and the nature of the relationships—for example, proximity, reciprocity and frequency of contact—which, together, are contributors to social influence.7-8

Peer influence is defined as social pressure or extrinsic motivation exerted by peers or friends to behave in a manner acceptable to them. In its simplest form, a social network is a map of all relevant relationships between individuals and groups.9 The social context determines the opportunity for social interaction through the formation of social networks.

At parties attended in the past three months, participants reported that there was tobacco, alcohol, and drugs such as marijuana, cocaine, or amphetamines available, thus increasing the chances that students would use one of these drugs. As a result of technological advances in the music industry, there has also been a similar increase in the prevalence of drug use by young people, coinciding with dance parties or the rap scene.10

The leisure activities of people from ages 18 to 25 have changed dramatically over the past 10 to 15 years. For example, video games and Internet use increasingly dominate the leisure time of this population. A large proportion of university students are in this age range, and one can assume that this trend is likewise the case with them. They are entertained by watching pornography “often” or “very often,” or according to whatever new technological advance in the entertainment industry has the potential to provide for wide audiences in terms of information and leisure activities in new and innovative ways.11

Spirituality is correlated to the use of drugs and alcohol. The important role that religion has in the everyday life of students should not be downplayed, because the belief in a higher power plays its part in the continuation of society and social life. An independent sample involving spirituality (t-test) revealed that there was a significant difference between men and women, where females have higher levels of spirituality than males.

Spirituality can be viewed as a protective factor, because a person is exposed to the positive influence of conventional institutions and builds strong ties with them. However, even young people who have been adequately socialized can still go astray and become involved with drugs. This deviation occurs even though strong ties had been forged early on in the individual’s life. Although young people may have been well socialized by different agents, they may also have experienced stressors that make the quality of family relationships in society, as well as spirituality and the influence of friends, even more important. These are factors that can help prevent them from using...
Influencia de pares, familia, espiritualidad, entretenimiento y... drugs or cause them to take action in relation to decisions they have made about drug use in general.

It can be seen that individuals are socialized by their friends in regard to drug use and that they choose their friends according to similar interests and lines of thought on the use of drugs.

When considered from a comprehensive perspective, the relationship between the peer group and drug use is evident in the results. This attests to the influence and effect that deviant behavior has on others in the group and demonstrates the importance of socialization as a continuous process, because this involves the resocialization of individuals by peers at a later stage in their lives and focuses on different groups and their impact, namely, the structure of family cohesion and religion/spirituality.12 In the socialization process, groups accept the individual based on common characteristics. To be accepted, the individual takes on the attitudes and behaviors of the group and yields to peer pressure.

Among those surveyed, the most commonly used drugs in the last 30 days were alcohol and tobacco, with increased consumption noted in the last 30 days. This is to be expected insofar as legal drugs such as alcohol and tobacco are the most accessible drugs for this population. It is worth noting that Article 63 of the current Law on Narcotics and Psychotropic Substances in Ecuador makes drug-dependent individuals subject to oversight. This will be determined, before trial, after an expert report from medical examiners. The current law punishes illegal tenure and possession with 12 to 16 years of imprisonment.

In Ecuador, the executive branch has submitted a bill to the Organic Integral Penal Code, which, in Article 8, Chapter 1, defines the “maximum dose for personal consumption” as “possession of any drug intended exclusively for personal consumption and not exceeding the [set] amount, will not be punishable.” The limit is 10 grams for marijuana and hashish; 4 grams for opium; 100 milligrams for heroin (diacetylmorphine); 5 grams for cocaine; 0.020 milligrams for LSD (lysergide); and 80 milligrams for methamphetamines, in granulated, powder, or crystal form or in units up to 400 milligrams. With the exception of these amounts, the law proposes direct punishment in five different areas for the production and transport of narcotics and psychotropic substances.

CONCLUSIONS

Most of the friends of the university students surveyed use drugs (Socio-Cultural Factors and Drug Use Questionnaire CICAD-CAMH 2011-2012). The substance most used by young people is alcohol, closely followed by tobacco and, to a lesser extent, by illegal substances such as marijuana, cocaine, and, lastly, amphetamines. Those surveyed totally agree with the importance of spirituality in difficult times, which indicates the level of principles and values that are imparted in Ecuadorian families, with spirituality acting as a protective factor, where females have higher levels of spirituality than males. Entertainment (screen-based entertainment and sports entertainment) had a moderating effect on the relationship between peer influence and drug use among university students. Family relationships also moderated the relationship between peer influence and drug use, serving as a protective factor against drug use.

Limitations

The data obtained is limited in its ability to make predictive conclusions about any other population in the sample, due to the sampling technique used. This limitation is acknowledged in order to avoid generalizations being made in relation to the entire university or general population based on the results of this study.

Recommendations

To the university that participated in the study, it is recommended to include in the curriculum, at both the undergraduate and graduate level, the topic of drug use prevention as cross axes in the curricula of every field of study and consider, as lines of research, different themes on drugs as part of its Institutional Research Policy. It is recommended to develop prevention programs for drugs that require medical prescriptions, particularly in terms of psychotropic drugs in the university population. Due to the important role of spirituality in the everyday lives of individuals, this variable should not be downplayed, because belief in a higher power plays its part in the continuation of society and social life, and can therefore have a protective effect against alcohol and drugs.

ACKNOWLEDGMENTS

To the Government of Canada-DFAIT, to the Inter-American Drug Abuse Control Commission.
(CICAD) of the OAS, to the Centre for Addiction and Mental Health (CAMH) in Toronto, Canada, and to its team of professionals and administrative staff for the opportunity that was provided; to the advisors and professors, and university and student population who participated in the study, and to all those who were directly or indirectly involved with it.

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