USE OF DRUGS AMONG STUDENTS IN A UNIVERSITY IN EL SALVADOR AND ITS RELATIONSHIP TO CHILDREN MALTREATMENT

Cristina de Amaya¹, Robert Mann², Hayley Hamilton³, Pat Erickson⁴, Bruna Brands⁵, Norman Giesbrecht⁶, Maria da Gloria Miotto Wright⁷, Francisco Cumsille⁸, Jaime Sapag⁹, Akwatu Khenti¹⁰

¹ M.Sc. Vice Academic Rector da Universidad Evangélica de El Salvador. San Salvador, El Salvador. E-mail: cristina.amaya@uees.edu.sv
² Ph.D. Investigator Centre for Addiction and Mental Health, CAMH, University of Toronto. Toronto, Canada. E-mail: robert.mann@camh.ca
³ Ph.D. Investigator CAMH, University of Toronto. Toronto, Canada. E-mail: hayley.hamilton@camh.ca
⁴ Ph.D. Investigator CAMH, University of Toronto. Toronto, Canada. E-mail: Pat.Erickson@camh.ca
⁵ Ph.D. Senior Scientist. Office of Research and Surveillance, Drug Strategy and Controlled Substances Programme, Health Canada and Public Health and Regulatory Policies, CAMH, University of Toronto. Toronto, Canada. E-mail: bruna.brands@camh.ca
⁶ Ph.D. Investigator, CAMH, University of Toronto. Toronto, Canada. E-mail: Norman.Giesbrecht@camh.ca
⁷ Ph.D. Former Coordinator Educational Development Program Inter-American Drug Abuse Control Commission (CICAD), Secretariat for Multidimensional Security. Washington, USA. E-mail: gloriamiottowright@gmail.com
⁸ Ph.D. Director Interamerican Drug Observatory, CICAD, Secretariat for Multidimensional Security at Organization of American States. Washington, USA. E-mail: fcumsille@oas.org
⁹ Ph.D. MD, MPH, CAMH. Toronto, Canada. E-mail: jaime.sapag@camh.ca
¹⁰ Doctoral Student. Director Transformative Global Health Office, CAMH. Toronto, Canada. E-mail: akwatu.khenti@camh.ca

ABSTRACT: The goal of the study was to examine the relationship between drug use and abuse and maltreatment during childhood among university students in San Salvador, El Salvador. This research was an exploratory study, with a cross-sectional design using a sample of 272 students. The results indicated that 43% (118) of students reported having used drugs sometime in their life; the most frequently used drugs in the past 12 months were alcohol, cannabis and tobacco, with prevalence of 14% (38), 9.3% (26) and 7% (19) respectively. Physical and verbal abuses were the two most common types of maltreatment, and sexual abuse was less frequent, but still present. Having friends who use drugs was a risk factor for drug use and abuse. Additionally there was a direct significant (<0.005) relationship between the use and abuse of drugs and physical abuse during childhood.


USO DE DROGAS ENTRE ESTUDANTES DE UMA UNIVERSIDADE EN EL SALVADOR E SUA RELAÇÃO COM MAUS-TRATOS NA INFÂNCIA

RESUMO: O objetivo do estudo foi examinar a relação entre o uso e o abuso de drogas e maus-tratos durante a infância em estudantes universitários na cidade de San Salvador, El Salvador. Trata-se de estudo exploratório, de corte transversal, com uma amostra de 272 estudantes. Os resultados indicaram que 43% (118) dos alunos relataram ter consumido drogas em algum momento da vida; as drogas mais utilizadas nos últimos 12 meses foram álcool (14%), maconha (9,3%) e tabaco (7%). Os abusos físico e verbal foram os tipos mais comuns de abuso e, menos frequente, porém existente, foi o abuso sexual. Ter amigos que usam drogas foi um fator de risco para o uso e abuso de drogas. Existe uma relação direta entre o uso/abuso de drogas e o abuso físico na infância, sendo essa associação estatisticamente significativa (<0.005).


USO DE DROGAS EN ESTUDIANTES DE UNA UNIVERSIDAD DE EL SALVADOR Y SU RELACIÓN CON EL MALTRATO DURANTE LA NIÑEZ

RESUMEN: El objetivo del estudio fue examinar la relación entre el uso y abuso de drogas y maltrato durante la niñez en estudiantes de una universidad de la ciudad de San Salvador, El Salvador. La investigación fue exploratoria, con un diseño transversal, siendo la muestra de 272 estudiantes. Como resultado se obtuvo que el 43% (118) de los estudiantes afirmaron haber consumido drogas alguna vez en su vida; las drogas de mayor consumo en los últimos 12 meses fueron el alcohol, el cannabis y el tabaco, con prevalencias del 14% (38), 9.3% (26) y 7% (19) respectivamente. El abuso físico y el abuso verbal fueron los dos tipos de maltrato más frecuentes; el tener amigos que consuman drogas es un factor de riesgo. Adicionalmente existe una relación directa y significativa (< 0.005) entre el uso y abuso de drogas y maltrato físico durante la niñez.

DESCRIPTORES: Maltrato a los niños. Trastornos relacionados con substancia. Estudiantes.

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INTRODUCTION

El maltrato durante la niñez está culturalmente ingrainado en El Salvador. Although it has been proved that maltreatment during childhood is a risk factor associated with the use of drugs, the topic has not been treated in depth and with an evidence-based scientific approach in many Latin American and Caribbean countries, among them El Salvador.

Salvadoran society is characterized as being traditionally sexist, with its coercive and authoritarian features, in which children are considered as the property of adults, and in which abusing minors as a means of education, discipline, and punishment is considered normal.

Drug use in the country tends to be associated more with men rather than women. According to the first study on drug use and other issues among the student population from five universities in El Salvador (2010), 70.8% of university students reported having used some kind of substance at some time in their lives, and 45.1% of students have used an illicit or licit substance during the past year. If we exclude alcohol and tobacco, the most used substances in 2009 were: cannabis (3.3%); solvents (0.7%); cocaine (0.6%); and hashish (a little over 0.5%). As for tranquilizers, stimulants, and painkillers, 7.8% of university students reported having used tranquilizers at some time in their life.

Over the period 2004-2007, reported cases of maltreatment during childhood increased from 1,818 cases in 2004 to 4,403 cases in 2007. Four types of maltreatment during childhood are listed and legally recognized in El Salvador: physical abuse; psychological/emotional abuse; sexual abuse; and neglect or abandonment of children. The most frequent types of child maltreatment are physical abuse and psychological/emotional abuse. Many cases of child abuse go unreported, and only serious or extreme cases tend to be formally reported. Children are particularly more vulnerable to maltreatment by family members, relatives, or close friends.

The purpose of this investigation was to determine the relationship between drug use among university students and maltreatment during childhood. The results of this work provide valuable information for prevention, treatment, and rehabilitation programs, for both the use of drugs and for maltreatment during childhood, as the study provides a comprehensive overview that may have a positive impact on quality of life, on dignity, and on the health of children, adolescents, and the young adult population of El Salvador.

This study considers the following categories for classification of maltreatment: sexual abuse; physical abuse; psychological abuse; and neglect (physical and emotional). In this context, the research question was: Is there a relationship between the use and abuse of drugs and maltreatment during childhood among university students in El Salvador?

METHOD

EThis investigation is part of a multi-centered study of cross-sectional design. The sample used in this investigation consisted of university students (men and women) aged over 18 years, who attended the selected university.

El Salvador is located in Central America, with a total area of 20,000 km, and its capital is San Salvador. The country has a population of six million inhabitants and the official language is Spanish. The study was carried out at a university in San Salvador. A non-probabilistic sampling technique was used. A questionnaire was applied, which was composed of 60 questions to be completed in approximately 35 minutes. The questionnaire consisted of four instruments that aimed to assess the relationship between the use and abuse of drugs and maltreatment during childhood. These instruments were: the Adverse Childhood Experience questionnaire (ACE), the Kessler Psychological Distress Scale (K10) to assess psychological distress; a selection of questions from the CICAD-OAS questionnaire on the use of drugs; and a socio-demographic questionnaire. Two questions were related to the use of mental health services as the result either of maltreatment during childhood or of treatment for substance abuse. This questionnaire was translated into Spanish in order to facilitate its management.

Participation in this study was on a voluntary basis. Each participant signed a free and informed consent form prior to the survey. The study was previously approved by the Research Ethics Committee of the studied university in El Salvador and by the Research Ethics Board of the Centre for Addiction and Mental Health (CAMH), under number 141-2010. Students completed the questionnaire in approximately 35 minutes.

The selection process was conducted by the...
main investigator after the project was presented to the respective authorities of the university (President, Scientific Investigation Committee of the selected faculty) in order to obtain the permit. For data collection, purposive sampling was used. The sampling frame was limited to one faculty, of which six courses were randomly selected. The sample was composed of 272 students. A sampling error of 5% was found and considered acceptable, and it was used for sample size calculation. The inclusion criterion was to be aged over 18 years.

Participants were included in the study after: 1) they met the specific inclusion and exclusion criteria; 2) they agreed to participate in the study, after they were given a verbal description of the study objectives and a free and informed consent form to be signed so that confidentiality was ensured; 3) they were provided with answers to any questions they had about the study and data collection; and 4) they signed the free and informed consent form. Data were collected during classes, and their management was conducted by the main researcher. The questionnaire and the informed consent form were explained by the main researcher in 10 minutes and they were distributed to participants for completion. After the papers were completed, they were put inside two different boxes that were made available for this purpose.

An electronic database was created with the help of the software Statistical Package for the Social Sciences (SPSS), version 15.0 for Windows. Data entry was performed by the main researcher. This database was tested with preliminary data obtained from 10 questionnaires collected from other students who were not participating in the study. This test was performed to assess the effectiveness of the electronic database and the functionality of the questionnaire.

A descriptive statistical analysis was carried out; absolute and relative frequencies and measures of central tendency (mean, median) were found; and dispersion (standard deviation) was calculated for numeric variables. Contingency tables and a chi-squared test were done to assess the association between maltreatment during childhood and drug use and abuse; a binomial test was also applied to determine the accuracy of opinions. The relationship between variables was considered statistically significant where p<0.05.

RESULTS

Sociodemographic characteristics of the sample

The sample consisted of 272 students from a university in El Salvador. Only students from the university’s school of medicine were selected.

Table 1 shows that, out of the surveyed students, 55.1% (150) were women and 44.9% (122) were men; 75% (204) were aged between 18 and 24 years old; 81% (221) had a medium socioeconomic status; 69% (190) had parents who had completed higher education; 62.1% (169) had mothers who had completed higher education; for 68.8% (168), religious belief was considered very important; 90.8% (247) came from the city. Regarding the perception of maltreatment during childhood, only 12.1% (33) considered that they had been abused, while the others, 87.9% (239), did not think so.

Table 1 - Sociodemographic characteristics of university students. San Salvador, El Salvador, 2011

<table>
<thead>
<tr>
<th>Socio-demographic characteristics</th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18-24</td>
<td>88</td>
<td>116</td>
<td>204</td>
</tr>
<tr>
<td>25-29</td>
<td>32</td>
<td>31</td>
<td>63</td>
</tr>
<tr>
<td>30-34</td>
<td>2</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>35-40</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>40+</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total</td>
<td>122</td>
<td>150</td>
<td>272</td>
</tr>
<tr>
<td>Socioeconomic Status</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>High</td>
<td>4</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>Medium</td>
<td>89</td>
<td>132</td>
<td>221</td>
</tr>
<tr>
<td>Low</td>
<td>29</td>
<td>16</td>
<td>45</td>
</tr>
<tr>
<td>Total</td>
<td>122</td>
<td>150</td>
<td>272</td>
</tr>
</tbody>
</table>
Table 2 - Report of adverse experiences during childhood among university students. San Salvador, El Salvador, 2012 (n=272)

<table>
<thead>
<tr>
<th>Family experiences</th>
<th>f</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mother, caregiver, or guardian was physically abused</td>
<td>50</td>
<td>18.4</td>
</tr>
<tr>
<td>Divorced or separated parents</td>
<td>87</td>
<td>32.0</td>
</tr>
<tr>
<td>Lived with someone who suffered from depression or other mental illness</td>
<td>61</td>
<td>22.4</td>
</tr>
<tr>
<td>Family member who had attempted suicide</td>
<td>26</td>
<td>9.6</td>
</tr>
<tr>
<td>Lived with an alcoholic</td>
<td>66</td>
<td>24.3</td>
</tr>
<tr>
<td>Lived with a drug user</td>
<td>32</td>
<td>11.8</td>
</tr>
<tr>
<td>Had a family member who had been to prison</td>
<td>24</td>
<td>8.8</td>
</tr>
</tbody>
</table>

Use of psychoactive drugs

Forty-three percent of students stated that they had used drugs at some time in their lives, and this can be asserted with 66% of certainty. The most used drugs over the last 12 months were alcohol, cannabis, and tobacco, with a prevalence of 14% (38), 9.3% (26), and 7% (19) respectively. The most used drugs over the last 30 days were alcohol,
tobacco, and cannabis, with a prevalence of 16.9% (46), 11.0% (30), and 4.4% (12) respectively. The least used drugs over the last 12-month and 30-day periods were heroin and inhalants, respectively.

As for the frequency of use of psychoactive drugs, it was found that alcohol was the most used drug, with a monthly frequency of 13.2% (36), tobacco was the most used drug on a weekly basis at 3% (9), and over-the-counter drugs were the most used drugs on a daily basis at 4.1% (11).

In Table 3, we show that, according to the DSM-IV classification criteria, of the total number of students who reported having used drugs, 41.5% (49) met the criteria for psychoactive drug abuse, while 58.5% (69) were in the “use” category.

Tabla 3 - Report of cases of psychoactive drug abuse based on DSM-IV criteria. San Salvador, El Salvador, 2011 (n=118)

<table>
<thead>
<tr>
<th>DSM – IV</th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>f</td>
<td>%</td>
<td>f</td>
</tr>
<tr>
<td>Abuse</td>
<td>36</td>
<td>30.5</td>
<td>13</td>
</tr>
<tr>
<td>Use</td>
<td>33</td>
<td>28.0</td>
<td>36</td>
</tr>
<tr>
<td>Total</td>
<td>69</td>
<td>58.5</td>
<td>49</td>
</tr>
</tbody>
</table>

Of the total number students who reported having used drugs, only 2.5% (3) stated that they have received therapy or professional psychological support due to drug use and, according to the results of the chi-squared table, this can be confirmed with an error probability lower than 0.05.

One hundred and fifty-nine students surveyed (58.45%) had friends who use psychoactive drugs, whereas 53.24% (82) of students who reported not using drugs (n=154) had friends who use drugs. This proportion is greater when we analyze the group of students who reported use and abuse of drugs (n=118), where 65.25% (77) had friends who also use drugs.

Of the students who reported having used drugs at some time in their lives, 67.8% (80) stated that their first time was with a friend who had already used drugs, and 55.9% (66) stated that they tend to use drugs with friends. Alcohol and tobacco were the most used drugs by friends over the last 12 months with a prevalence of 79% (93) and 75% (89) respectively, which puts cannabis behind at 36% (42), and finally cocaine at 17% (20).

**Relationship between maltreatment during childhood and the use of psychoactive drugs**

In terms of relationships or associations between child maltreatment and the use of psychoactive drugs, according to the results of the chi-squared test, of the students who use drugs (69), 70% (48) had suffered some kind of maltreatment during childhood; of the students who reported drug abuse (49), 84% (41) had suffered some kind of maltreatment during childhood; and of the students who do not use drugs, 64% (98) had suffered some kind of maltreatment during childhood.

After the application of the chi-squared test, it was found that the probability of error regarding the relationship between use, abuse, or no use of psychoactive drugs and sexual abuse is 42.9%, which is not statistically significant, thus showing that there is no relationship with use and abuse of drugs for this type of maltreatment.

As for the relationship between use, abuse, and no use of psychoactive drugs and physical abuse, Table 4 shows, with a probability of error below 0.05, that 30.43% of students who use drugs had suffered physical abuse during childhood. Of the students who used drugs, 34.69% had suffered physical abuse during childhood, and only 18.83% of students who do not use drugs had suffered physical abuse during childhood.

After the application of the chi-squared test, a high probability of error was found regarding the relationship between the use of psychoactive drugs and verbal abuse, and between the use of psychoactive drugs and emotional or physical neglect. For this reason, this association cannot be made.

Tabla 4 - Use of psychoactive drugs and physical abuse: chi-squared test

<table>
<thead>
<tr>
<th>Items</th>
<th>Value</th>
<th>gl</th>
<th>Asymptotic sig. (bilateral)</th>
<th>Exact sig. (bilateral)</th>
<th>Exact sig. (unilateral)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pearson’s chi-squared test</td>
<td>12.378*</td>
<td>1</td>
<td>.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Correction for continuity</td>
<td>11.133</td>
<td>1</td>
<td>.001</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Likelihood ratio</td>
<td>11.268</td>
<td>1</td>
<td>.001</td>
<td></td>
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</tbody>
</table>

Texto Contexto Enferm, Florianópolis, 2015; 24 (Esp): 45-54.
DISCUSSION

En El Salvador la tendencia creciente en el consumo de psychoactive drugs among university students is considered a public health issue.13 According to the sociodemographic characteristics of the university population surveyed, there is no gender dominance and they belong mainly to the age group 18-24, because academic life takes place during this young adult stage. Most people surveyed belong to a medium socioeconomic status and both parents had completed higher education. These are the expected characteristics, according to the profile of people in El Salvador who have access to higher education.14

Religious beliefs were stated as very important to them and this is a protective factor; in fact some researchers have defined “non-religiosity”15 as a risk factor for drug consumption. Nearly all university students lived in the city during their childhood. Eighty-seven point nine percent of students believed that they were not abused during childhood, which is in line with the region’s cultural aspects, where the majority of adults consider physical maltreatment to be a tolerated means of educating and socializing.4-16

According to the results of the Adverse Childhood Experience questionnaire (ACE), and in contrast with the perception of maltreatment expressed by university students, 70% of students suffered some kind of maltreatment during childhood, in similar proportions for both genders, and this is a valuable piece of information to take into account, because many authors have found that experiencing maltreatment during childhood is a risk factor associated with drug use.1-3,15,17-28

Regarding the types of maltreatment reported by university students, physical abuse and verbal abuse were the two most frequent types, and although sexual abuse was the least frequent, it was also present. The results are in line with those of other studies that showed that most minors in Latin America and the Caribbean undergo physical and psychological maltreatment, with an incidence between 40-82%.4

Thirty-two percent of students stated that their parents were separated or divorced, and one-fourth stated that they lived either with someone who suffered from depression or another mental illness or with an alcoholic. A lower proportion of 20% stated that their mother, caregiver, or guardian had been physically abused, that they had lived with a drug addict, and/or that they had a family member who had tried to commit suicide or gone to prison. These results coincide with other studies that highlighted the violence that affects women and that has alcohol intake and the use of drugs as the main triggering elements of the abuser’s violent attitude.21-22

In addition, according to the studies carried out with young adults in the rehabilitation process at Hogares CREA, Fundación Desafío Juvenil, FUNDASALVA, and Fundación Alma in El Salvador throughout 2006,23-24 among the family factors that most influence the use of licit and illicit drugs the following can be mentioned: lack of communication between parents and children, followed by poor control of parents over their children’s activities, and a lack of commitment by parents regarding their children’s education. All of these contribute to family instability, parental rejection, separations or divorce, and conflicts that are the result of too much or too little discipline.

According to the parameters of measurement of psychological distress (Kessler scale) used in this study, most students had minimum to moderate levels of psychological distress, which is in line with other studies that showed that impulsiveness,1-2,17 emotional suffering,20 and physiological and genetic predisposition25 are important factors in drug use.

Forty-three point three percent of students reported having used drugs at some time in their lives, with alcohol, cannabis, and tobacco being the most used within the last 12 months, and alcohol, tobacco, and cannabis within the last 30 days. As for the frequency of use, alcohol was the most used drug on a monthly basis, tobacco the most used on a weekly basis, and over-the-counter drugs on a daily basis. These results confirm those of other studies carried out in the country,13,23-24 while some studies have shown that the pattern of drug consumption among adolescents is currently “poly-drug use.”13,26

According to the first study on drug use
and other issues with student populations at five universities in El Salvador.6 70.8% of university students stated that they had used some kind of licit or illicit drug over the course of their lives, and 45.1% of students had used some kind of licit or illicit drug over the past year. Except for alcohol and tobacco, the results of this study conducted in 2009 show that the most used drugs were: cannabis, with 3.3%; solvents with 0.7%; cocaine with 0.6%; and hashish with a little more than 0.5%. As for tranquilizers, stimulants, and painkillers, 7.8% of university students reported having used tranquilizers at some time in their lives.13

According to DSM-IV classification, of all the students who stated that they used drugs, 41.5% are drug abusers, with a prevalence of the male gender, which is similar to other studies conducted with a young population in which drug use in El Salvador is reported to be more associated with men than women.5,23-24 The other 58.5% use drugs according to the DSM-IV classification and the pattern is similar for both genders.

Of students who use drugs, most have not received any kind of treatment, and this is true for more than 97% of the students surveyed. It is worth mentioning that the areas of treatment and rehabilitation must be strengthened in El Salvador.27 It has been stated that there are serious limitations in El Salvador’s national mental health system, especially in primary care, and there is also a lack of skilled human resources and a national record of services as well as treatment programs.28

As for peers, the influence of friends regarding drug consumption is clear, as most students who use and abuse drugs have friends who use drugs. This influence can be clearly seen among students who abuse drugs, of whom 65.25% have friends who use drugs. However, this study also revealed that 53.24% of students who do not use drugs have friends who do, and 46.76% have no friends who do. Moreover, we can see that more than 50% of the population that reports using drugs also state that their first time was with friends, and when they consume they tend to do it with friends. Studies carried out with a student population have shown that peer pressure, as well as the pressure and influence of media regarding psychoactive drugs, represented by alcohol and tobacco, are risk factors that favor simultaneous use.20-31

Previous studies with the university population in El Salvador have shown similar results in regard to the influence of peers as a risk factor for drug consumption.13,22 The drugs most used by friends over the last 12 months were alcohol, tobacco, and cannabis.

There is a direct relationship between the use and abuse of psychoactive drugs and physical abuse during childhood, which shows that this association does exist. Of the students who use drugs, 30.43% suffered physical abuse during childhood. Of the students who abuse drugs, 34.69% suffered physical abuse during childhood, and 18.83% of students who do not use drugs were maltreated during childhood. This relationship does not exist in the other three types of abuse: verbal abuse; sexual abuse; and neglect. These figures cannot be contrasted because there are no previous studies in El Salvador that investigate the use of drugs among university students and its relationship with maltreatment during childhood.

CONCLUSIONS

The students surveyed had suffered some kind of maltreatment during childhood to a similar extent in both genders. Physical abuse and verbal abuse were the two most frequent types of maltreatment, and sexual abuse was less frequent, but still present. The most used drugs were, in order of consumption, alcohol, cannabis, and tobacco. Having friends who use drugs was a risk factor for drug use and abuse by university students. There is a greater history of physical abuse during childhood among university students who have used and abused drugs than among those who do not. There is a direct relationship between the use and abuse of drugs and physical abuse during childhood.

Limitations

The sampling technique was a limitation, since it does not allow for the generalization of the results of this study to the whole university nor to the country’s general population. Students were asked to provide retrospective data on the events that might have occurred during their childhood and adolescence. These reports might have been affected by a loss of memory. It is worth mentioning that maltreatment and use or abuse of drugs might have been over-reported or under-reported, according to each student’s perceptions.

Recommendations
To all universities in El Salvador, we recommend the inclusion of drug and violence issues in their institutional research policy as one of the main lines of university scientific research, because both have been listed as social issues with serious impacts on the country. Prevention programs for drug consumption within university premises, and involvement of student bodies coordinating with competent bodies are essential. Research studies can gain new perspectives on maltreatment during childhood and its relationship with individual factors (personality-temperament), social influence (media, the country’s historical context), the legal framework, and socioeconomic conditions, among others.

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