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ORIGINALES

School situation and psychoactive substance use among students with disabilities

Situação escolar e o uso de substâncias psicoativas por estudantes com deficiencia Situación escolar y uso de sustancias psicoactivas en estudiantes con discapacidades

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ABSTRACT:

Objective: To analyze the association between school situation and use of psychoactive substances by students with disabilities.

Methods: A cross-sectional study carried out in public schools. The study population was students with disabilities. The Teen Addiction Severity Index questionnaire was used. The data were analyzed using the Chi-square test, the linear trend Chi-square test (Mantel-Haenszel extension) and the ANOVA test. The study was approved by Research Ethics Committee.

Results: The participants were 110 students, most of them belonging to the age group between 20 and 30 years old, male, brown-skinned, Catholics, and with intellectual disabilities. 70% of the participants reported never having used psychoactive substances; in turn, 30% asserted having used these substances at least once in their lifetime. Among the substances consumed, 19.4% reported sedatives, 4.6% alcohol, 0.9% opioids, and 0.9% tobacco. There was an association between age and use of psychoactive substances. There was no significant association between school situation and use of these substances.

Conclusions: The findings highlighted that there is greater consumption of licit psychoactive substances among students with disabilities, which is associated with age. These results are important for nurses to develop their activities to prevent psychoactive substance abuse.

Keywords: Psychotropic Drugs, Substance-Related Disorders, People with Disabilities, Students.

RESUMO:

Objetivo: Analisar a associação entre a situação escolar e o uso de substâncias psicoativas por estudantes com deficiência.

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Métodos: Estudo transversal realizado em escolas públicas. A população do estudo foi composta por estudantes com deficiência. Utilizou-se o questionário *Teen Addiction Severity Index*. Os dados foram analisados por meio dos testes Qui quadrado, Qui-quadrado (extensão de Mantel-Haenszel) e ANOVA. Estudo aprovado pelo Comitê de Ética em Pesquisa.

Resultados: Participaram 110 estudantes. A maioria pertence a faixa etária entre 20 e 30 anos de idade, sexo masculino, pardos, católicos e com deficiência intelectual. 70% dos participantes referiu que nunca consumiu substâncias psicoativas, enquanto que 30% afirma ter consumido alguma substância pelo menos uma vez na vida. Dentre as substâncias consumidas, 19,4% relataram uso de sedativos, 4,6% uso de álcool, 0,9% uso de opiáceos e 0,9% de tabaco. Houve associação entre idade e o uso de substâncias psicoativas. Não houve associação significativa entre a situação escolar e o uso destas substâncias.

Conclusões: Os resultados destacaram que existe um maior consumo de substâncias psicoativas lícitas entre os estudantes com deficiência, o que está associado com a idade. Estes resultados são importantes para que os enfermeiros desenvolvam suas atividades de prevenção ao abuso de substâncias psicoativas.

Palavras-chave: psicotrópicos, transtornos relacionados com substâncias, pessoas com deficiência, estudantes.

RESUMEN:

Objetivo: Analizar la asociación entre situación escolar y uso de sustancias psicoactivas por parte de estudiantes con discapacidades.

Métodos: Estudio transversal realizado en escuelas públicas. La población de estudio fueron estudiantes con discapacidades. Se utilizó el cuestionario *Teen Addiction Severity Index*. Los datos se analizaron mediante la prueba Chi-cuadrado, la prueba de tendencia lineal Chi-cuadrado (extensión de Mantel-Haenszel) y la prueba ANOVA. El estudio fue aprobado por el Comité de Ética en Investigación. **Resultados:** Participaron 110 estudiantes. La mayoría pertenecientes al grupo etario de entre 20 y 30 años, del sexo masculino, morenos, católicos y con discapacidades intelectuales. El 70% de los participantes refirió nunca consumir sustancias psicoactivas, mientras que el 30% afirmó haber usado estas sustancias alguna vez en la vida. Entre las sustancias consumidas, el 19,4% reportó uso de sedantes, el 4,6% consumo de alcohol, el 0,9% uso de opiáceos y el 0,9% de tabaco. Se registró una asociación entre edad y uso de sustancias psicoactivas. No hubo asociación significativa alguna entre situación escolar y consumo de estas sustancias.

Conclusiones: Los hallazgos destacaron que existe mayor consumo de sustancias psicoactivas lícitas entre los estudiantes con discapacidades, lo que se asocia con la edad. Estos resultados son importantes para que los enfermeros desarrollen sus actividades de prevención del abuso de sustancias psicoactivas.

Palabras clave: Psicotrópicos, Trastornos Relacionados con Sustancias, Personas con Discapacidades, Estudiantes.

INTRODUCTION

Drugs are any substance that is not produced by the body and which can act on one or more of its systems, triggering changes in body functioning⁽¹⁾.

Regarding drug use in children and adolescents, approximately 50% to 80% of the schoolchildren use legal or illegal chemical and pharmacological substances with recreational purposes⁽²⁾.

A survey identified that the most used drugs by the students were alcoholic beverages and tobacco, with 42.4% y 9.6% per year, respectively⁽³⁾. Another study determined that, within the group of adolescents that used some type of drug, there was a high tendency to maintain this attitude⁽⁴⁾.

Consumption of psychoactive substances is associated with low grades, to the desire to dropout from school, to not doing the homework and to difficulty concentrating⁽⁵⁾.

People with disabilities can also become susceptible to drug use due to contact with different social groups and to curiosity to try new situations⁽⁶⁾.

Disabled individuals aged from 18 to 24 years old use heroin and cocaine more frequently that those with no disabilities⁽⁷⁾. A study conducted with visually impaired people showed that most of the individuals that drink alcoholic beverages are men aged from 11 to 30 years old and Incomplete High School. This same study verified that some of the reasons leading these people to drink alcohol are issues related to leisure and entertainment⁽⁸⁾.

A study showed that drug use by people with intellectual disabilities can be related to anxiety, depression, aggressive behavior, antisocial personality disorder and hyperactivity⁽⁹⁾.

Another study identified scarcity of studies on drug use by people with disabilities, which represents a gap on the topic⁽¹⁰⁾. In addition, in the city where the study was developed, the census indicated that there are 2,061 people with intellectual disabilities, followed by 552 that are unable to move by themselves, 273 blind individuals and 203 deaf subjects⁽¹¹⁾.

Consequently, it is important to understand the relationship between psychoactive substance use by students with disabilities and their school situation that nurses can make explicit in their interventions according to the principles from the Health at School Program. Hence our motivation to carry out this study.

Our hypothesis is that students with disabilities present high levels of psychoactive substance use, which is associated with their school situation. In this study, school situation is understood as participation in school-related activities, such as attendance, participation in extracurricular activities, uncomfortable situations at school or suspensions.

Therefore, the study objective was to analyze the association between school situation and psychoactive substance use among students with disabilities.

METHOD

This is a cross-sectional study with a quantitative approach. It was conducted in five municipal public schools. These institutions were selected because they offer inclusive education for people with disabilities.

The study population was comprised by students with disabilities enrolled in the schools providing inclusive education in the municipality. The inclusion criteria were the following: presenting some physical, auditory, visual or intellectual disability as per the student's file available in the school; both genders, and being aged at least 12 years old. We excluded students that presented multiple disabilities and those with difficulties to understand the questionnaire prompts.

According to the data provided by the municipal Education Department, 306 students with disabilities belonging to the age group from 12 years old onwards were enrolled in municipal schools during the data collection period. The formula for finite population

was used for sample calculation, resorting to the following parameters: 10% error; 95% confidence level; population size of 306 students; and 50% prevalence. Consequently, we estimated a sample comprised by 74 participants. The sampling process for the study participants was for convenience.

The data were collected from the Portuguese version of the *Teen Addiction Severity Index* (T-ASI)⁽¹²⁾, which assesses severity of psychoactive substance use by adolescents and other problems affecting their life. The questionnaire has 153 questions divided into seven domains: Psychoactive substance use; School situation: Employer; Family relationships; Peer relationships; Legal situation; and Psychiatric situation. Psychoactive substance use and School situation were investigated. These domains were chosen because they are related to the study purpose. The other domains were not researched for not being related to the objective proposed in this study. The questionnaire was validated for the Brazilian reality with a Cronbach's alpha of 0.89 in the Substance use domain⁽¹²⁾.

The research team visited schools that provided inclusive education. The team presented the research to the school coordinators and then to the students. In this way, the researchers obtained due informed consent from the students' parents. The students answered the questionnaire on their own to ensure secrecy and privacy.

The study variables were as follows: sociodemographic (age, family income, schooling level, family problems, ethnicity, religion, type of disability, cause of the disability); school situation (suspension from school, participation in some extracurricular activity, having attended some extracurricular activity, feeling uncomfortable at school, need for advice); and consumption of psychoactive substances (drug use in life, type of substance).

The SPSS software program was used for data analysis. As a first step, a descriptive analysis of the different variables collected was performed. The variables were expressed as absolute and relative frequencies. The Kolmogorov-Smirnov test was used to verify data normality. The following tests were used to analyze the relationship between school situation and psychoactive substance use: Chi-square; linear trend Chi-square (Mantel-Haenszel extension); and ANOVA (Kruskal-Wallis test). 5% statistical significance was adopted.

The study was approved by the Research Ethics Committee (CAAE 57691516.5.0000.5208). The participants were asked for their consent to take part in the research.

RESULTS

A total of 110 students took part in the study. Table 1 indicates the sociodemographic characteristics corresponding to the sample. None of the study participants had even been in a controlled environment (prison, psychiatric hospital, rehabilitation clinic) in the year prior to the research.

Table 1: Sociodemographic characteristics corresponding to the sample

	n % 95% CI			
_	110	100.0	Lower	Upper
Age (in years old)				
12-20	43	39.1	30.0	48.2
20-30	47	42.7	33.5	52.0
30+	20	18.2	11.0	25.4
Remuneration (in minimum wages)				
<1	7	6.4	1.8	10.9
1-3	101	91.8	86.7	96.9
>3	2	1.8	-0.7	4.3
Schooling level (in years)				
3-10	42	38.2	29.1	47.3
10-18	68	61.8	52.7	70.9
Family problems				
No	65	59.1	49.9	68.3
Yes	45	40.9	31.7	50.1
Degree of kinship				
No drug-related problems	65	59.1	49.9	68.3
First degree	24	21.8	14.1	29.5
Second degree and higher	11	10.0	4.4	15.6
Others	10	9.1	3.7	14.5
Gender				
Male	62	56.4	47.1	65.6
Female	48	43.6	34.4	52.9
Ethnicity				
White	34	30.9	22.3	39.5
Black	23	20.9	13.3	28.5
Brown	53	48.2	38.8	57.5
Religion	00	00.4	40.4	
Protestants	29	26.4	18.1	34.6
Catholics	53	48.2	38.8	57.5
None	28	25.5	17.3	33.6
Type of disability	4	0.0	0.4	7.4
Physical	4	3.6	0.1	7.1
Visual	10	9.1	3.7	14.5
Auditory	3	2.7	-0.3	5.8
Intellectual	93	84.5	77.8	91.3
Cause of the disability	00	00.0	76.7	00.5
Congenital	92	83.6	76.7	90.5
Acquired	18	16.4	9.5	23.3

Source: The authors

Note: 95% CI - 95% Confidence Interval

Table 2 shows the information about the participants' school situation.

Table 2: School situation of the participants

	n	%	95% CI		
	110	100.0	Lower	Upper	
Suspended from school					
No	102	92.7	87.9	97.6	
Yes	8	7.3	2.4	12.1	
Participation in some extracurricular activi	ty*				
No	55	50.0	40.7	59.3	
Yes	55	50.0	40.7	59.3	
Attending some extracurricular activity [†]					
No	74	67.3	58.5	76.0	
Yes	36	32.7	24.0	41.5	
Feeling uncomfortable at school					
No/Not at uncomfortable	102	92.7	87.9	97.6	
Slightly uncomfortable	6	5.5	1.2	9.7	
Moderately uncomfortable	2	1.8	-0.7	4.3	
Need for advice [‡]					
No/None	104	94.5	90.3	98.8	
Little	5	4.5	0.7	8.4	
Moderate	1	0.9	-0.9	2.7	

Source: The authors

Note: 95% CI - 95% Confidence Interval

Regarding psychoactive substance use, 70% of the students reported never having used them in life, whereas 30% stated consumed and/or having consumed them at least once. Among the students that use/used psychoactive substances, 19.4% reported sedatives, 4.6% alcohol, 0.9% opioids and 0.9% tobacco.

Table 3 shows the relationship between the sociodemographic variables and use of psychoactive substances.

Table 3: Association between drug use and sociodemographic characteristics

	Drugs used in life				Chi-square test		
	No		Yes		Odds	Value	
	n	%	n	%	Ratio	obtained in	ρ -value
	77	70.0	33	30.0		the test	
Age (in years old)							
12-20	36	83.7	7	16.3	1.00	9.63**	0.0019
20-30	32	68.1	15	31.9	2.41		
30+	9	45.0	11	55.0	6.28		
Remuneration (in minimum w	ages	5)					
<1	6	85.7	1	14.3	1.00	1.21**	0.2713
1-3	70	69.3	31	30.7	2.65		
>3	1	50.0	1	50.0	6.00		
Schooling level (in years)							
3-10	33	78.6	9	21.4	0.50	2.36*	0.1248
10-18	44	64.7	24	35.3			
Family problems							

^{*}Participation in some extracurricular activity: It refers to active participation in activities such as playing soccer. †Yes: It refers to more passive participation, such as attending a soccer match. ‡Advice: It refers to the guidelines for problems related to the school situation.

No	46	70.8	19	29.2	0.91	0.04*	0.8332
Yes	31	68.9	14	31.1			
Degree of kinship							
No drug-related problems	46	70.8	19	29.2	1	0.002**	0.9662
First degree	16	66.7	8	33.3	0.82		
Second degree and higher	8	72.7	3	27.3	1.1		
Others	7	70.0	3	30.0	0.96		
Gender							
Male	41	66.1	21	33.9	1.53	1.00*	0.3161
Female	36	75.0	12	25.0			
Ethnicity							
White	26	76.5	8	23.5	1	1.58**	0.2082
Black	17	73.9	6	26.1	0.87		
Brown	34	64.2	19	35.8	0.55		
Religion							
Protestants	22	75.9	7	24.1	1	1.53**	0.2159
Catholics	38	71.7	15	28.3	8.0		
None	17	60.7	11	39.3	0.49		
Type of disability							
Physical	3	75.0	1	25.0	1	0.37**	0.5449
Visual	6	60.0	4	40.0	0.5		
Auditory	1	33.3	2	66.7	0.33		
Intellectual	67	72.0	26	28.0	0.85		

Source: The authors

Note: *Chi-square test (Mantel-Haenszel extension),**Linear trend Chi-square test (Mantel-Haenszel extension)

Tables 4 and 5 show the relationship between drug use and the variables related to schooling.

Table 4: Consumption of psychoactive substances and school situation

	С	onsumptior of dru	Evaluation of the hypothesis*			
Variables	No (n=77)		_	s (n=33)	Value	
	Mean	Standard Deviation	Mean	Standard Deviation	obtained in the test	
Days not attending school	4.4	4.0	6.1	4.8	2.984	0.084
Lag days	0.1	8.0	0.4	1.4	0.655	0.418
Number of disciplinary measures due to misconduct	0.1	0.5	0.2	0.6	2,052	0,152
Days missing classes	8.0	1.6	2.1	3.2	3,271	0,071

Source: The authors

Note: *Mann-Whitney/Wilcoxon test for two samples (Kruskal-Wallis test for two groups).

Table 5: Association between consumption of psychoactive substances and school situation

	Consumption of some type of drug in life					Chi-square test	
		No		Yes	OddsRatio	Value	
	n	%	n	%	- Kalio	obtained in	ρ -value
	77	70.0	33	30.0		the test	
Suspended from school							
No	73	71.6	29	28.4	2.51	1.62	0.2019
Yes	4	50.0	4	50.0			
Participation in some extr	acurri	cular activ	∕ity [£]				
No	36	65.5	19	34.5	0.64	1.07	0.3004
Yes	41	74.5	14	25.5			
Attending some extracurr	icular	activity [†]					
No	50	67.6	24	32.4	0.69	0.63	0.4268
Yes	27	75.0	9	25.0			
Feeling uncomfortable at	schoo	ol					
No/Not at uncomfortable	73	71.6	29	28.4	1.00	3.24	0.071
Slightly uncomfortable	4	66.7	2	33.3	0.79		
Moderately uncomfortable	0	0.0	2	100.0	0.00		
Need for advice [‡]							
No/None	73	70.2	31	29.8	1.00	0.45	0.5038
Little	4	80.0	1	20.0	1.69		
Moderate	0	0.0	1	100.0	0.00		

Source: The authors

Note: *Chi-square test (Mantel-Haenszel), **Linear trend Chi-square test (Mantel-Haenszel extension) [£]Participation in some extracurricular activity: It refers to active participation in activities such as playing soccer. [†]Yes: It refers to more passive participation, such as attending a soccer match. [‡]Advice: It refers to the guidelines for problems related to the school situation.

DISCUSSION

Regarding the most consumed substances, a study on psychoactive substance use among High School students with no disabilities showed that the four most consumed substances at least once in life were alcohol (79.6%), cigarettes (24.6%), solvents (10.3%) and anxiolytics (10.1%)⁽¹³⁾, findings that are similar to those in this research.

Another survey is similar to this study, identifying that 33.9% of the people with disabilities used sedatives with no medical prescriptions, whereas this percentage was 15% among those with no disabilities⁽⁷⁾.

In a comparative study between individuals with and without disabilities, we noticed that the people with disabilities presented more chances of being smokers that those with no disabilities⁽¹⁴⁾. This differs from the study, where only 0.9% of the participants use tobacco. This divergence can be the difference between the participants' age groups in the studies since, in the aforementioned one, the age group was from 45 to

54 years old whereas it was from 20 to 30 years old in this paper, in addition to the cultural aspects between both research loci.

A study on the consumption of tobacco, alcohol and other drugs among adolescents with and without mild to moderate intellectual disabilities concluded that young people with such impairments present fewer chances of using legal and illegal substances than those with not disabilities⁽¹⁵⁾, which corroborates the results presented. There was absolutely no report on the use of illicit psychoactive substances in the study, which differs from previous surveys that evidenced consumption of these substances by adolescents with intellectual disabilities and schoolers with no disabilities. There was greater prevalence of cannabis among the most consumed illicit drugs⁽¹⁶⁻¹⁸⁾.

Regarding the school situation, we did not find any statistically significant association between psychoactive substance use and this variable in our study; however, we noticed that, on average, the students that use substances did not attend school and missed classes more days than those who do not make use of them.

In this sense, a study that compared groups of students who were "hearing impaired (HI) with multiple disabilities", pupils that were "only hearing impaired", schoolers with "some disability other than hearing impairment', and students "with no disabilities" showed that 72% of the "Hearing impaired with multiple disabilities" group members reported not attending school, whereas 46% of the students with no disabilities presented this school situation⁽¹⁹⁾.

A study compared alcohol consumption between adolescents with and without hearing impairments. Those without hearing impairments drank more alcohol and had worse school grades that their hearing impaired counterparts⁽²⁰⁾. Also in relation to the school situation, another study on the prevalence of risk behaviors due to consumption of cigarettes, alcohol and marijuana among students with no disabilities showed that the prevalence of such behaviors was higher in those who missed classes⁽²¹⁾, which is similar to the results herein pointed out, where the students that had school problems were psychoactive substance users.

The study limitation is related to the convenience sampling technique, reason why the results cannot be generalized to other realities.

CONCLUSIONS

In this study it was possible to verify the association between the "school situation" and "psychoactive substance us" variables among students with disabilities. The study highlighted that the consumption of sedatives was higher among the students with disabilities, which is related to age. Although there is absolutely no association with the school situation, it was observed that, on average, the students who use psychoactive substances did not attend school and missed classes more days.

These findings contribute to understanding the consumption patterns of psychoactive substances among students with disabilities. These results might help nurses to develop more specific strategies for these groups in their activities.

REFERENCES

- 1. Word Health Organization (WHO). Classificação de transtornos mentais e de comportamento da CID-10. Porto Alegre: Artes Médicas Sul, 1993.
- 2. Freitas NO, Souza JC, Araújo EC. O consumo de bebidas alcoólicas e de outras substâncias psicoativas entre os jovens. Rev. Enferm. UFPE on line. 2015:9(8). http://periodicos.ufpe.br/revistas/revistaenfermagem/article/view/10658
- 3. Centro Brasileiro de Informação sobre Drogas Psicotrópicas (CEBRID). VI Levantamento Nacional sobre o consumo de drogas psicotrópicas entre estudantes do ensino fundamental e médio das redes públicas e privada de ensino nas 27 capitais brasileiras. Brasília: SENAD; 2010.
- 4. Ferreira BVO, Frazão IS, Chaves LCMR, Souza JS, Brito VCNG, França VV, et al. Atitudes de adolescentes escolares sobre o consumo de álcool e outras drogas: estudo transversal. Rev baiana enferm. 2022;36:e44908.
- 5. Cardoso LRD, Malbergier A. Problemas escolares e o consumo de álcool e outras drogas entre adolescentes. Psicol Esc. Educ. 2014;18(1). https://doi.org/10.1590/S1413-85572014000100003
- 6. Pagliuca LMF, Cezario KG, Mariano M R. A percepção de cegos e cegas diante das drogas. Acta paul enferm. 2009;22(4):404-11. https://doi.org/10.1590/S0103-21002009000400009
- 7. Gilson SF, Chilcoat HD, Stapleton JM. Illicit drug use by persons with disabilities: insights from the National Household Survey on Drug Abuse. Am. J. public health. 1996;86(11):1613-1615 10.2105/ajph.86.11.1613
- 8. Silva GRF, Macêdo KNF. Alcohol Consumption among People with Visual Deficiencies. Enferm. Glob. 2005;4:1-7.
- 9. Didden R, Embregts P, Van MDT, Laarhoven N. Substance abuse, coping strategies, adaptive skills and behavioral and emotional problems in clients with mild to borderline intellectual disability admitted to a treatment facility: a pilot study. Res. dev. disabil. 2009;30(5):927-932.https://doi.org/10.1016/j.ridd.2009.01.002
- 10. Guimarães FJ, Mariano MR, Pagliuca, LMF. Psychoactive Substance Use and Disabled People: An Integrative Review. Health. 2016;8:1411-1422. http://dx.doi.org/10.4236/health.2016.814142
- 11. Instituto Brasileiro de Geografia e Estatística (IBGE). Censo 2010. Disponível em: https://censo2010.ibge.gov.br/
- 12. Sartes LMA. Versão brasileira do T-ASI (Teen Addiction Severity Index): análise da consciência interna e validação da área de uso de substâncias. Universidade Federal de São Paulo; 2005. http://repositorio.unifesp.br/handle/11600/20638.
- 13. Lopes AP, Rezende MM. Consumo de substâncias psicoativas em estudantes do ensino médio. psicol. teor. prát. 2014;16(2). http://pepsic.bvsalud.org/scielo.php?script=sci_arttext&pid=S1516-36872014000200003&lng=pt&tlng=pt.
- 14. Brawarsky P, Brooks D, Wilber N, Gertz R, Klein W. Tobacco use among adults with disabilities in Massachusetts. Tob. Control. 2002;11(2):29-33
- 15. Robertson J, Emerson E, Baines S, Hatton C. Self-reported smoking, alcohol and drug use among adolescents and young adults with and without mild to moderate intellectual disability. J. intellect. dev. disabil. 2018;45(1):1-11 https://doi.org/10.3109/13668250.2018.1440773
- 16. Malta DC, Mascarenhas MDM, Porto DL, Duarte EA, Sardinha LM, Barreto SM, et al. Prevalência do consumo de álcool e drogas entre adolescentes: análise dos dados

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- da Pesquisa Nacional de Saúde Escolar. Rev Bras Epidemiol. 2011;14:136-146. https://doi.org/10.1590/S1415-790X2011000500014
- 17. Neto C, Fraga S, Ramos E. Consumo de substâncias ilícitas por adolescentes portugueses. Rev Saúde Pública. 2012;46:808-815. https://doi.org/10.1590/S0034-89102012000500007
- 18. Swerts, C., Vandevelde S, Vandernagel JEL, Vanderplasschen W, Claes C, Maeyer J. Substance use among individuals with intellectual disabilities living independently in Flanders. Res Dev Disabil. 2017;63:07-117. http://hdl.handle.net/1854/LU-7169185
- 19. Brunnberg E, Boström ML, Berglund M. Self-rated mental health, school adjustment, and substance use in hard-of-hearing adolescents. Journal of Deaf Studies and Deaf Education. 2007;13(3):324-335. https://doi.org/10.1093/deafed/enm062 20. Pinquart M, Pfeiffer JP. Alcohol use among students with and without hearing loss. J deaf stud deaf educ. 2015;20(1):82-90. http://pubmed.ncbi.nlm.nih.gov/25318927/
- 21. Bovet P, Viswanathan B, Faeh D, Warren W. Comparison of Smoking, Drinking, and Marijuana Use Between Students Present or Absent on the Day of a School Based Survey. J sch health. 2006;76(4):133-137. https://doi.org/10.1111/j.1746-1561.2006.00081.x

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