Evaluation of training on brief interventions for teachers: health contributions

Avaliação da capacitação em intervenções breves para professores: contribuições da saúde

Evalúación de la capacitación en intervenciones breves para maestros: contribuciones de salud

ABSTRACT

Objective: To evaluate the impact of training on brief interventions for use of substances on the attitudes; and, face validity and internal consistency of Brazilian versions of the Drug and Drug Problems Perceptions Questionnaire (DDPPQ-br) and the Short Alcohol and Alcohol Problems Perception Questionnaire (SAAPPQ) for use among teachers. Methods: Methodological (N=122) and quasi-experimental study (n=27). A sociodemographic questionnaire, the DDPPQ-br and the SAAPPQ were applied before and three months after the training. For analysis, were applied the Mann-Whitney and Wilcoxon tests. Results: The DDPPQ-br and SAAPPQ were considered valid by experts. The training improved teachers’ attitudes towards accountability on the approach to substance use at schools and on the readiness to perform this role. In relation to drugs, it increased the perception of support. Conclusions: Teachers’ training can improve their attitudes and strengthen the school in the function of preventing substance-related harm. Descriptors: Teacher Training; Health Knowledge, Attitudes, Practice; Street Drugs; Mental Health; Outcome Assessment (Health Care).

RESUMO

Objetivos: avaliar o impacto de uma capacitação em intervenções breves para o uso de substâncias sobre as atitudes e validade de face e consistência interna das versões brasileiras Drug and Drug Problems Perceptions Questionnaire (DDPPQ-br) e Short Alcohol and Alcohol Problems Perception Questionnaire (SAAPPQ) entre professores. Métodos: estudo metodológico (N=122) e quase-experimental (n=27). Foram aplicados um questionário sociodemográfico, o DDPPQ-br e o SAAPPQ antes e três meses após a capacitação. Para análise, foram utilizados os testes de Mann-Whitney e Wilcoxon. Resultados: O DDPPQ-br e o SAAPPQ foram considerados válidos pelos especialistas. Através da capacitação, foi possível melhorar as atitudes frente a responsabilização sobre a abordagem do uso de substâncias na escola e o preparo para exercer tal função. Em relação às drogas, a percepção de suporte foi potencializada. Conclusões: Capacitar professores pode melhorar suas atitudes e fortalecer a escola na função de prevenir danos relacionados ao uso substâncias. Descriptors: Capacitação de Professores: Conhecimentos, Atitudes e Prática em Saúde; Drogas Ilícitas; Saúde Mental; Avaliação de Eficácia-Efetividade de Intervenções.

RESUMEN

Objetivos: evaluar el impacto de la capacitación en intervenciones breves para el uso de sustancias en las actitudes; y, la validez nominal y la consistencia interna de las versiones brasileñas del Drug and Drug Problems Perceptions Questionnaire (DDPPQ-br) y el Short Alcohol and Alcohol Problems Perception Questionnaire (SAAPPQ) entre los maestros. Métodos: investigación metodológica (N=122) y cuasi experimental (n=27). Se aplicó un cuestionario sociodemográfico, el DDPPQ-br y el SAAPPQ, antes y tres meses después de la capacitación. Para el análisis, se utilizaron las pruebas de Mann-Whitney y Wilcoxon. Resultados: El DDPPQ-br y el SAAPPQ fueron considerados válidos por los especialistas. La capacitación pudo mejorar las actitudes con respecto a la responsabilidad del enfoque del uso de sustancias en la escuela y la disposición para realizar esta función. En relación a las drogas, aumentó la percepción de apoyo. Conclusiones: Capacitar a los maestros puede mejorar sus actitudes y fortalecer a la escuela en la función de prevenir daños relacionados con el uso de sustancias. Descriptores: Formación del Profesorado; Conocimientos, Actitudes y Práctica en Salud; Drogas Ilícitas; Salud Mental; Evaluación de Eficacia-Efectividad de Intervenciones.
INTRODUCTION

In Brazil, the transition from the conception of drug issues from a justice problem to a public health problem is recent, dating back to 1990s, and tied to the advent of AIDS in the 1980s. At that time, the government understood that preventive actions, including those at schools, should address the issue in the routine and various facets of the use of psychoactive substances.

The first initiatives were not designed for implementation in conjunction with the work of teachers and their basis were moralizing presumptions and the provision of information. As of 2005, after promulgation of the National Drug Policy by the National Anti-Drug Council (Portuguese acronym: CONAD), it was indicated the importance of intersectoral work by constructing care networks.

Since the implementation of this policy, governmental initiatives have been created at various levels to address knowledge gaps of educators on the issue. In practice, there is still a lack of scientific knowledge and access to information on the subject.

In Brazil, courses for educators are usually publicized through joint actions with the National Secretariat for Drug Policy. Sometimes these courses are well evaluated by educators and achieve positive and transformative results, despite their punctual promotion.

This fact, coupled with the fear of retaliation (from students, parents and traffickers in the school environment), common-sense based opinions and the understanding that this work to be performed by health professionals, interferes with the implementation of permanent programs for the prevention of use of alcohol and other drugs in Brazilian schools. This is a sad reality, as epidemiological data on substance use among school-age children are alarming. In addition, a systematic review study on the evaluation of actions of this nature showed effective results in experimental research.

Several measures are useful for evaluating strategies to prevent psychoactive substance use at schools. One is to measure educators’ attitudes on this topic in their scope of work. Attitudes are evaluative responses created from the experiential process of the individual that can originate from personality traits or social determinants and be associated with cognitive and learning processes. Previous studies had the aim to evaluate prevention programs for use of alcohol and other drugs at schools, but did not evaluate primary and secondary school teachers. These professionals’ attitudes towards this problem have not been evaluated either, whereas studies of this nature have been conducted more systematically among health professionals.

Among instruments used to measure attitudes in the Brazilian context, are the Drug and Drug Problems Perceptions Questionnaire (DDPPQ-br) and the Short Alcohol and Alcohol Problems Perception Questionnaire (SAAPPQ). The DDPPQ-br assesses attitudes towards drug users and the SAAPPQ assesses attitudes in relation to alcohol users. Both were tested and validated in a sample of Nursing students and are originated and based on the same theoretical reference of the Alcohol and Alcohol Problems Perceptions Questionnaire (AAPQ).

The AAPQ is an instrument adapted and validated in English (United Kingdom) that was developed to evaluate the Model of Therapeutic Commitment. In this model, the therapeutic attitudes and bonding with users (of alcohol or other drugs) are influenced by: feeling of being prepared to adequately perform the care role, called “role adequacy”; extent to which individuals consider work as their responsibility (“role legitimacy”); and the support that practitioners recognize they receive from peers in order to help them play their role effectively (“support”). In this instrument, subscales were designed to evaluate the aforementioned model, which explains the attitudes regarding work with alcohol users: adequacy in function; role legitimacy; in their scope of work. Attitudes are evaluative responses created from the experiential process of the individual that can originate from personality traits or social determinants and be associated with cognitive and learning processes. Previous studies had the aim to evaluate prevention programs for use of alcohol and other drugs at schools, but did not evaluate primary and secondary school teachers. These professionals’ attitudes towards this problem have not been evaluated either, whereas studies of this nature have been conducted more systematically among health professionals.

OBJECTIVE

To evaluate the impact of a training on brief interventions for teachers: health contributions

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The study was approved by the local Research Ethics Committee. The guidelines recommended by Resolution number 466,
December 12th, 2012 of the National Health Council, Brazil were respected. All participants signed the Informed Consent form.

**Design, place of study and period**

The present study was conducted in two methodological stages. The first was the quasi-experimental method and pre- and post-test evaluations. The instrument evaluation included: (1) face validity, which is useful to check the clarity of the translation process by review and a panel of experts; and (2) reliability assessment by internal consistency, which shows how much the subscale items are related when evaluating the same construct of the Brazilian versions of the SAAPPQ and DDPPQ-br for use among teachers. Quasi-experimental studies are used to evaluate interventions without designated random sample and allow some reliability between cause and effect relationships. The data collection period was from September to December 2016.

**Sample and inclusion and exclusion criteria**

Non-probabilistic sampling. Participation of 122 primary and secondary school teachers from four Brazilian public schools in the study, of which three located in the inlands of the state of São Paulo and one in the state of Mato Grosso. Of these teachers, 27 made up the sample of the quasi-experimental stage of the study. The eligibility criteria were: teachers of both sexes, working in primary or secondary schools and a teaching time of more than six months. In the quasi-experimental stage, the exclusion criteria were: no full participation in the educational intervention and participation in some other course or training on prevention of alcohol and drug use at school before the second stage of data collection.

**Study protocol**

Some adjustments were necessary in the stage of instrument evaluation. The term “patients” was replaced by “students” in the DDPPQ-br and SAAPPQ. Subsequently, the version was sent to a committee of three researchers of the area of alcohol and drugs with experience in adaptation and validation of instruments (a social worker and two nurses). There were no semantic changes in the items and both instruments were deemed appropriate by judges. Then, the instruments were tested with two individuals in the target population (one primary and one secondary school teacher) and again, there were no doubts nor suggestions for changes.

The pre-test evaluation was carried out with teachers in the quasi-experimental stage. They assessed their attitudes toward working with students using psychoactive substances (dependent variable). Next, the contents of the brief intervention training as a means of preventing alcohol and other drug use for educators was adapted and applied in the context of an educational intervention (independent variable).

After three months, the same variables were measured again by considering that the purpose of this training was that teachers were able to carry out screening activities (identification) and apply intervention strategies at the school in a preventive way (with BIs principles). It was evaluated if the knowledge and information acquired by teachers during the intervention generated changes in their attitudes.

The intervention consisted of 12 hours of lectures and dialogic classes and included the following contents: (1) epidemiology of the main psychoactive substances used by adolescents in the Brazilian context and its consequences; factors of risk and protection associated with consumption; (2) prevention strategies of drug abuse in the school context; (3) substance use screening and (4) brief interventions at school. In the third class, the Alcohol, Smoking and Substance Involvement Screening Test (ASSIST) was used as a reference, since it has been useful in identifying the use of several substances in life and in the three prior months, including injectable drugs.

The developed questionnaire included the following: 1) sociodemographic information with the variables of age, sex, religion, discipline taught and time of experience in the profession. 2) Drug and Drug Problems Perceptions Questionnaire (DDPPQ-br), Brazilian version, assesses attitudes toward work with drug users (except alcohol and tobacco). This version is composed of five domains (role adequacy; support; job satisfaction; self-esteem; and legitimacy), as in the original English version and presents a good level of internal consistency (Cronbach's alpha=0.85). The answers are self-reported, statements are of the Likert type and range from zero (0) - totally agree to seven (7) - strongly disagree. For the calculation of DDPPQ-br scores, items 13, 15, 16 and 17 were inverted and then added up. The items assess if the knowledge acquired is enough for the following: performing their professional role; preparing to intervene and adequately advise people with problems related to drug use; feeling support to perform such roles; and the internal availability to address this topic in the work context. The higher the sum of scores, the worse or the more negative the attitudes towards the issue.

3) The Short Alcohol and Alcohol Problems Perception Questionnaire (SAAPPQ) assesses perceptions and attitudes toward work with people who have problems related to alcohol use or alcohol dependence. It was validated for Portuguese (including Brazil, where the study involved Nursing students). It has the following domains: adequacy; motivation (desire to work with alcohol users); legitimacy; satisfaction and self-esteem. The instrument has good indices of global internal consistency (Cronbach's
alpha=0.87). It is self-applicable and has 10 statements, where respondents indicate their level of agreement or disagreement; 1 point indicates strongly disagree, 3 points is neutral, and 5 points indicates totally agree. Items 3, 4 and 6 of the SAAPPQ were reversed. The higher the score the more positive the attitude toward work with the problem of alcohol use(33).

Both instruments do not have cutoff points because sensitivity and specificity were not assessed. The evaluation is done through comparison between groups by means of the average score.

Analysis of results and statistics

A database was prepared in Microsoft Excel 2000 and the Statistical Package for the Social Sciences, version 19.0 (license number 10250887) was used. Descriptive statistics were used to evaluate sociodemographic data (measures of central tendency and dispersion). For evaluation of distribution of data to normality, was used the Shapiro-Wilk Test. After this test, to check the association between qualitative and quantitative variables with a description of two groups, the Mann-Whitney and Wilcoxon tests were used in the evaluation of the same variable at different moments (both in the absence of normal data distribution). The significance level of 5% was adopted for all tests.

RESULTS

In the methodological stage of the study, most of the sample was of women, 88 in total (72.1%), adults, mean age of 40.4±9.1 years, ranging from 21 to 64 years. Teachers have been teaching for 120.8±92.3 months on average. Table 1 shows the distribution of teachers by the fields investigated.

| Area         | Biological | Human | Exact | Polyvalent | Total |
|--------------|------------|-------|-------|------------|-------|
| City 1 SP    | School 1   | School 2 | School 3 | School 4 |
| n            | 18         | 14    | 17    | 2          | 57    |
| %            | 4.1        | 3.3   | 3.3   | 1.6        | 21.3  |
| City 1 MT    | School 5   | School 6 | School 7 |
| n            | 2          | 1.6   | 0.8   | 2.5        | 7     |
| %            | 1.6        | 1.6   | 1.6   | 1.6        | 26    |

Note: SP – São Paulo; MT – Mato Grosso.

| Area         | Biological | Human | Exact | Polyvalent | Total |
|--------------|------------|-------|-------|------------|-------|
| City 2 SP    | School 1   | School 2 | School 3 | School 4 |
| n            | 26         | 21.3  | 14    | 11.5       | 22    |
| %            | 26         | 21.3  | 14    | 11.5       | 22    |
| City 2 MT    | School 5   | School 6 | School 7 |
| n            | 1          | 0.8   | 1.6   | 1.6        | 3     |
| %            | 1          | 0.8   | 1.6   | 1.6        | 3     |

Table 2 - Comparison of Short Alcohol and Alcohol Problems Perception Questionnaire (SAAPPQ) and Drug and Drug Problems Perceptions Questionnaire (DDPPQ-br) subscales scores in the pre- and post-intervention (n=27), according to secondary and primary school teachers, São Paulo and Mato Grosso, Brazil, 2016

| Subscale    | Pre-intervention (n=27) | Post-intervention (n=27) | p value |
|-------------|-------------------------|--------------------------|---------|
|             | Mean±SD                 | Mean±SD                  |         |
| SAAPPQ      | Adequacy                | 4.9±1.6                  | 6.4±1.2 | <0.001   |
|             | Self-esteem             | 5.9±1.2                  | 6.6±1.5 | 0.055    |
|             | Motivation              | 5.7±1.3                  | 5.6±1.4 | 0.729    |
|             | Legitimacy              | 6.0±1.3                  | 6.7±1.4 | 0.039    |
|             | Satisfaction            | 4.8±1.9                  | 4.9±1.4 | 0.565    |
| DAPPQ-br    | Adequacy                | 34.7±7.8                 | 24.6±5.7| <0.001   |
|             | Support                 | 14.8±4.3                 | 12.8±3.1| 0.020    |
|             | Satisfaction            | 18.6±4.1                 | 17.0±3.5| 0.096    |
|             | Self-esteem             | 13.3±3.8                 | 12.2±3.3| 0.166    |
|             | Legitimacy              | 9.4±2.9                  | 7.2±2.7 | 0.002    |

Note: Wilcoxon Test; P value<0.001; SAAPPQ - Short Alcohol and Alcohol Problems Perception Questionnaire; DDPPQ-br - Drug and Drug Problems Perceptions Questionnaire.
As educators also prevent several types of harm simultaneously, they must be strengthened through continued education investments on specific topics, such as brief interventions for substance use. The school is considered a health interface environment, where actions such as screening, referrals and educational activities can be undertaken[38]. The findings of this research suggest that especially for the use of other drugs (other than alcohol), attitudes related to job satisfaction and the recognition of support are fundamental for performing these practices, which can be better developed through more than one training event. In a previous study, nursing students were offered a training on the subject, but divergent results were found and the intervention had more positive effects on attitudes toward alcohol than other drugs[37].

The improvement of attitudes coupled with the dissemination of screening strategies and brief interventions for use of psychoactive substances among educators can increase their accountability before the theme, minimize their fear of addressing this issue at school (linked to the lack of theoretical knowledge and access to information on the theme), fear of retaliation (from students, parents and traffickers in the school setting), and facilitate the understanding that this matter is a job to be performed not only by professionals specialized in the area of Mental Health[10].

### Limitations of the study

The limitations of the study involve checking validity and reliability of the SAAPPQ and DDPPQ-br instruments among teachers, which was performed only by face validity (simpler and weaker)[29], and internal consistency. Other measures and analyzes can be evaluated in future studies for more robust results. In the case of SAAPPQ, reformulating some items could be undertaken[38]. The findings of this research suggest that especially for the use of other drugs (other than alcohol), attitudes related to job satisfaction and the recognition of support are fundamental for performing these practices, which can be better developed through more than one training event. In a previous study, nursing students were offered a training on the subject, but divergent results were found and the intervention had more positive effects on attitudes toward alcohol than other drugs[37].

### Contributions to the area of nursing, health or public policy

The findings show the potential impact of training on screening and brief interventions on attitudes of professionals outside the health area, since this universal tool can be used in different contexts[28], cooperate with the understanding of how and in what contexts these strategies can work and what their real effectiveness is, which is a gap raised in the scientific literature[39]. In a previous study, actions to prevent the use of substances were mentioned as more effective when implemented by teachers than those offered by specialists[38]. This reinforces the need to disseminate brief interventions among teachers, and nurses are the most recommended professionals for this purpose, given their competence in performing health education actions[28].

### DISCUSSION

The instruments used to assess the attitudes in the present study can be applied to secondary school teachers. The face validity of both was considered adequate by the panel of experts. The level of internal consistency of the DDPPQ-br was considered good (0.80-0.89) and close to its Brazilian version tested among Nursing students, which was 0.85. The internal consistency of the SAAPPQ was considered poor, but acceptable (0.50-0.59)[29]. The coefficient values found in the scales derived from the AAPPQ ranged from 0.69 to 0.94[14].

In general, the quasi-experimental study stage confirmed the hypothesis of the study and ratified the well-known effect of educational interventions on the change of attitudes related to work with the use of psychoactive substances[38]. However, this finding for the area of education opens a new panorama of discussion for the area of Health as a promoter of changes in attitudes of professionals from other areas with potential consequences to changes in practice, in this case, of these educators.

In this study, the intervention in screening and brief interventions for teachers broadened teachers’ sense of accountability (legitimacy) regarding the approach to alcohol and drug use at schools, as well as their adequate preparation and knowledge (adequacy) to perform this role. Only in relation to drugs, the perception of support was potentiated, that is, of being able to count on some additional resource to face the problem. In a previous study, was emphasized the importance of these attributes for providing adequate and effective care in the area of alcohol and drugs[39]. The lack of adequate training represents an important barrier to address this issue in work contexts, because of its relationship with levels of confidence, discomfort and inadequate attitudes, which distract professionals from the important role of preventive intervention[37].
CONCLUSION

The SAAPPQ and DDPPQ-br instruments can be used among teachers, despite the low level of internal consistency of the SAAPPQ. The educational intervention in screening and brief interventions was effective in improving teachers’ attitudes towards accountability (legitimacy) of approaching the use of alcohol and drugs at school and in the preparation (adequacy) to perform this role. In relation to drugs, the perception of support to face the problem got better.

Another conclusion was that attitudes related to the feeling of work satisfaction and the recognition of support are better developed through an education process not restricted to a single educational intervention. The dissemination of strategies of this nature by health professionals (especially nurses) in a school setting can strengthen the role of this place as a health education space. Another implication is related to the reflection on how brief interventions can work effectively in the school routine with the promotion of changes through educators in relation to the use of psychoactive substances by their students.

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