



ORIGINAL ARTICLE

## Bullying and self-esteem in adolescents from public schools<sup>☆</sup>

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### KEYWORDS

Prevalence;  
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### Abstract

**Objectives:** To perform a situational analysis of bullying and self-esteem in municipal school units, by estimating the prevalence of bullying, according to gender, age, and role in bullying situations; and to identify the level of self-esteem of students by gender and role in bullying situations and correlate with the involvement in bullying situations.

**Methods:** This was a cross-sectional study with 237 students in the ninth grade of middle school from public schools participating in the School Health Program in the city of Olinda (PE). The questionnaire used in the study was divided into three blocks: a sociodemographic block; a block on bullying, validated by Freire, Simão, and Ferreira (2006); and a block to assess self-esteem, by Rosenberg (1989).

**Results:** The prevalence of bullying was 67.5%. The study population consisted of adolescents, mostly female (56.4%), aged 15–19 years (51.3%), of black ethnicity (69.1%). Most students lived with four or more people (79.7%) in their family-owned homes (83.8%), which had five or more rooms (79.1%). Observing bullying or being bullied were the most often reported situations (59.9% and 48.9%, respectively); when the roles of bullying are associated with self-esteem in relation to gender, it was observed that in the group of victims/aggressors and aggressors ( $p = 0.006$  and  $0.044$ , respectively), males had higher statistically significant self-esteem scores when compared to females.

**Conclusion:** The findings indicate a large number of students involved in the several roles of bullying, identifying an association between these characteristics and sex/gender and self-esteem of those involved. The present study has identified the need for further studies on the nature of the event.

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**PALAVRAS-CHAVE**

Prevalência;  
Adolescentes;  
Violência;  
Saúde Escolar

**Bullying e autoestima em adolescentes de escolas públicas****Resumo**

**Objetivos:** Realizar diagnóstico situacional do *bullying* e autoestima em unidades municipais de ensino, por meio de estimativa da prevalência do *bullying*, segundo o sexo, faixa etária e situação do ator; identificar o nível de autoestima dos escolares segundo sexo e situação do ator e correlacionar com o envolvimento em situações de *bullying*.

**Métodos:** Estudo transversal, realizado com 237 alunos, do 9º ano do ensino fundamental, em escolas públicas municipais do Programa Saúde na Escola de Olinda (PE). Foi utilizado um questionário dividido em três blocos, um sociodemográfico, outro sobre *bullying*, validado por Freire, Veiga e Ferreira, e um para avaliar a autoestima, de Rosenberg.

**Resultados:** A prevalência de *bullying* foi de 67,5%. A população do estudo foi composta por adolescentes do sexo feminino (56,4%), na faixa etária de 15-19 anos (51,3%), de raça/cor preta (69,1%). Grande parte mora com quatro ou mais pessoas (79,7%), em casa própria (83,8%) e com cinco ou mais cômodos na residência (79,1%). Presenciar ou sofrer *bullying* foram às situações mais registradas (59,9% e 48,9%, respectivamente); Quando se associou os papéis de *bullying* e autoestima em relação ao sexo verificou-se que no grupo de vítimas/agressores e agressores ( $p = 0,006$  e  $0,044$ ; respectivamente), o sexo masculino apresentou escores de autoestima superiores estatisticamente significativos em relação aos do sexo feminino.

**Conclusão:** Os achados apontam para um número grande de alunos envolvidos nos diversos papéis do *bullying*, identificando-se associação entre estas características e o sexo/gênero e autoestima dos envolvidos. Identifica-se a necessidade de estudos adicionais sobre a natureza do evento.

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**Introduction**

Violence is defined by the World Health Organization (WHO)<sup>1</sup> as "the intentional use of physical force or power, threatened or actual, against oneself, another person, or against a group or community that either results in or has a high likelihood of resulting in injury, death, psychological harm, maldevelopment, or deprivation".

Different forms of violence have been showing increasing rates in Brazil, linked to a desire to destroy or annihilate the other, causing damage to varying degrees, whether to the physical or moral integrity, possessions, or cultural interests of one or several persons.<sup>2</sup> As a social fact, it affects different environments, including the school setting, in the form of intolerance and prejudice, among others.<sup>3</sup>

The most frequently observed types of violence are: physical, verbal, symbolic violence, and bullying, defined by aggressive, intentional, and repetitive behaviors, which occur without apparent reason, performed in an unequal power relationship, resulting in intimidation or harm to others.<sup>4,5</sup>

Bullying is a worldwide problem that can be observed in any school; it is not limited to one type of institution – public, private, primary or secondary, urban, or rural<sup>6</sup> – and brings, as consequence, fear, reduced school performance, and school absenteeism, and can even result in the suicide of victims. The aggressors may have antisocial behaviors that will often be repeated in other environments.<sup>7,8</sup>

Fante<sup>5</sup> describes the aggressive behavior through the classification of roles: typical victim (when the subject undergoes repeated cases of aggression); provocative victim (who causes and suffers aggressive reactions and does not face the consequences); aggressor victim (who repeat the

aggressions they received, bullying more fragile children); and the aggressor (individual that practices violence).

There have been reports that violence in schools is linked to students' self-esteem levels.<sup>9</sup> Studies have described self-esteem as a significant form of well-being and assessment of the value or importance that one gives to him or herself,<sup>10</sup> ratified by individuals that are significant in the education of children and adolescents, especially parents, teachers and friends.<sup>11</sup> A good degree of self-esteem is crucial to the adolescents' good social relations, as it helps them to believe in and trust themselves.<sup>12</sup> It is estimated that if relations are based on violence, they are likely to be associated with low self-esteem of those involved.<sup>9</sup>

The financial and social losses caused by bullying are diverse; thus, those involved in this process tend to need multidisciplinary help that encompasses education, health, and the individual's rights.<sup>13</sup>

To address the vulnerabilities that impair the full development of children, adolescents, and young Brazilians, the School Health Program (Programa Saúde na Escola - PSE) was created in Brazil in 2007.<sup>14</sup> The purpose of this program is to contribute to the formation of students through prevention, promotion, and health care actions. Among the objectives of the PSE are promoting health and a culture of peace, strengthening the prevention of health problems, and reinforcing the ability to cope with vulnerabilities that could affect full school development.<sup>15</sup>

The importance of the investigation on bullying focuses on identifying factors that favor its emergence and maintenance, so that policies can be undertaken to reduce their impact; thus, studies are needed for a better understanding of the issue and for developing more effective health promotion and bullying prevention actions.<sup>16</sup>

The absence of information on bullying and self-esteem in the schools of Olinda/PE indicates the need for studies aimed at understanding this phenomenon, in order to establish a baseline that will allow for a longitudinal follow-up of the problem and aid the planning of health surveillance actions, including the implementation of an information system for school violence.

This study aimed to perform a situational analysis of bullying in municipal schools in the city of Olinda, state of Pernambuco, Brazil that participated in the PSE, correlating bullying to the sociodemographic situation of those involved and the self-esteem level of students.

## Methods

This study was performed in public schools participating in the PSE in the city of Olinda, state of Pernambuco, from June to November of 2012. Olinda is located in the Metropolitan Region of Recife, 6 km from the capital, and has a population of 377,779 inhabitants (16.41% adolescents), occupying an area of 41.66 km<sup>2</sup>. There are 46 Elementary and Middle public schools, and 17,875 students are enrolled; the illiteracy rate in individuals older than 15 years is 9.3%.<sup>17</sup> There are currently 43 schools participating in the PSE, introduced in 2009, distributed among the ten political and administrative regions (regiões político-administrativas - RPAs) of the city, establishing communication channels to ensure the development of actions and expand its outreach to students and families.

This was a cross-sectional study, a design recommended for estimates of event frequencies and associated factors in specific populations, which is low cost, can be quickly performed, and is objective in data collection.<sup>18</sup>

The study population consisted of 8th graders (equivalent last year of Middle School in Brazil is the ninth), enrolled in schools participating in the PSE, identified in the list of schools and regular students in the databases of the Municipal Education Secretariat. The choice of school year was based on the influence of more years of schooling on the understanding of the assessed issues.

The participants were selected by multistage probability sample. In the first stage, clusters of schools were selected by spatial distribution (RPA). In the second stage, simple random sampling was performed to select a class from each school, according to the relative weight of the school in the universe of eligible students.

Sample size was calculated using Statcalc of EpiInfo for Windows, release 3.5.2, with the following parameters: prevalence of bullying of 17% (lowest number in Brazilian studies as reported by Moura, Cruz, and Quevedo<sup>19</sup>); candidate population of 17,875 students;<sup>17</sup> power of study of 20%; and  $p < 0.05$ .

A semi-structured questionnaire was used, consisting of tools previously applied in studies with adolescent students similar to the target population of this survey and organized in three thematic blocks.

For the first thematic block - socio-demographic profile - the demographic questionnaire of the Brazilian Institute of Geography and Statistics (Instituto Brasileiro de Geografia e Estatística - IBGE), applied to the National Schoolchildren Health Survey (Pesquisa Nacional de Saúde do Escolar - PeNSE)<sup>20</sup> with variables categorized as: gender

(male/female), age group (13-14/15 or more years); ethnicity (black/non-black); housing (owned/rented); number of rooms (2-4/5 or more); and number of people living at home (2-3/4 or more).

To investigate the experience of violence at school (block 2), a tool validated by Freire, Simão and Ferreira<sup>21</sup> was used with adaptations to the regional language (e.g., to the term "humiliated", the expressions "made fun of", "beat up", and "knocked down", were added). The use of this tool allows for the identification and characterization of students' participation in bullying situations in the previous two weeks: a) role played: not involved, aggressors, victims, victims/aggressors, or observers; b) types of aggression/victimization c) environment where it occurred: in the classroom, outside the classroom, around the school. A positive response to at least one of the questions of the tool regarding the different manifestations of bullying was used for case definition.

The third block included the Rosenberg Self-Esteem Scale,<sup>12</sup> validated for Brazilian students,<sup>22</sup> consisting of ten closed questions with Likert response options, where each item response ranges from 1 to 4 points. The higher the score, the higher the level of self-esteem; and 30 was the cutoff for *high* self-esteem.

Data collection, which was completed by the students themselves, was performed by the main author of the study, processed with double entry in the Enter module of EpiInfo, release 3.5.2, and the resulting database was verified by the *Validate* module.

Regarding the analytical aspects,<sup>18</sup> descriptive statistics of sociodemographic variables, bullying roles, and self-esteem (means and percentages of occurrence) were processed using Epi-Info. For analysis of confounding factors, the interaction between variables was evaluated using the Mantel-Haenszel chi-squared test (MH  $\chi^2$ ). Then, the analysis of possible associations between bullying and the variables of interest was performed. The main measure of association was the odds ratio, used to measure the association between probable risk situations/exposure and the investigated event, with their respective confidence intervals at 95% (95% CI). The measure of statistical significance for differences in proportions was MH  $\chi^2$ , which was chosen as it is more conservative, considering a  $p$ -value  $< 0.05$ .

The project was approved by the Ethics and Research Committee of Plataforma Brazil and followed Resolution 196/1997 of the National Health Council,<sup>23</sup> and the material used in the present study resulted from an original research. The questionnaires were applied after obtaining consent from the school principals, previously scheduling, explaining the research, raising awareness among the students on the subject, and clarifying all doubts to prevent refusals and improve the quality of the collected data. Participation in the study was ratified by informed consent signed by students and their parents/guardians. The respondents' names were excluded from the questionnaires for confidentiality purposes.

## Results

A total of 237 students from municipal schools in Olinda, Pernambuco, participated in the study. There were no

**Table 1** Sociodemographic distribution (n, %) of adolescents from municipal schools participating in the School Health Program, 2012.

Variable <sup>a</sup>	n	%	95% CI
<i>Gender</i>			
Male	103	43.6	37.2–50.2
Female	133	56.4	49.8–62.8
<i>Age range</i>			
13-14	109	48.7	41.9–55.4
15-19	115	51.3	44.6–58.1
<i>Ethnicity</i>			
Black	159	69.1	62.7–75.0
Non-black	71	30.9	25.5–37.3
<i>Number of residents</i>			
2 to 3	48	20.3	15.3–25.9
4 or more	189	79.7	74.1–84.7
<i>Home</i>			
Owned	191	83.8	78.3–88.3
Rented	37	16.2	11.7–21.7
<i>Number of rooms</i>			
Two to four	48	20.9	15.8–26.7
Five or more	182	79.1	73.3–84.2

CI, confidence interval.

<sup>a</sup> To calculate the % (n = 237), those with ignored variables were excluded from the total: gender (one; n = 236); age range (13; n = 224); ethnicity (seven; n = 230); home (ten; n = 227); number of rooms (seven; n = 230); self-esteem (18; n = 219).

refusals to participate. The results are based on responses provided by the students; some variables may have been left unanswered. Nine schools participated in the investigation, one school for each RPA in the city, except for RPA 10, which did not have a public school that offered ninth grade and participated in the PSE. For analysis of the associations of interest for the study, the sum of participants from all schools was used, considering there was no statistically significant difference for the demographic variables, gender, and age range.

The study population (Table 1) consisted mostly of female adolescents (56.4%), aged 15 to 19 years (51.3%), with a predominance of those who self-reported their ethnicity as black (69.1%). Most of them lived with four or more people (79.7%), in a house owned by their own families (83.8%), which had five or more rooms (79.1%).

Regarding the variable bullying, most students (67.5%) disclosed to have participated in some way in the previous two weeks. To have observed or suffered bullying, as isolated situations, were the most often reported occurrences (141/236 and 115/236, respectively), whereas slightly over one in four students had a double role: victims and aggressors (Table 2). Those who experienced bullying reported spreading rumors and name-calling as the most frequently experienced types of isolated bullying. Among the aggressors, slightly over 15% (12/76) said that name-calling is a frequent type of bullying. Over half (139/242) of the events occurred in environments outside the classroom (schoolyard, stairs, dining room, or restrooms).

When assessing self-esteem (Table 2), the total number of adolescents was equally distributed between the two extremes of classification (high and low), with a mean score of 29.97 points and a standard deviation of 4.99 (29.97 ± 4.99). The same behavior was observed intragroup for the female (29.92 ± 5.53) and male (30.03 ± 4.20) genders.

When analyzing the association between the bullying role and the gender and age group of the adolescent involved in the event (Table 2), there was a slight predominance of females and the age range of 13-14 years in all categories. Regarding self-esteem, females comprised slightly over 50% of the high self-esteem category (score > 30), and at an older age group (58.2% and 52.4%, respectively). These associations were not statistically significant.

When assessing the interaction between bullying and self-esteem, 53.7% of the adolescents presented low self-esteem scores, and there was a concentration of prevalence of cases among actors, with a mean score < 30 for all roles of bullying (victim, aggressor, victim/aggressor, and observer), corresponding to the category of low self-esteem, in contrast with those who did not participate in bullying events, who had higher scores (high self-esteem), although the mean values found in the two categories were similar (Fig. 1). The behavior of this interaction by gender showed that males surpass the threshold of high self-esteem when they assume the dual role of victim/aggressor, whereas females remain classified as low self-esteem in all situations of bullying, compared with those who reported not being involved in the event.

When the bullying roles were associated to gender, controlled by the level of self-esteem, it was observed that in the group of victims/aggressors and aggressors (p = 0.006 and 0.044, respectively), males had statistically significant higher self-esteem scores when compared to females (Table 3).

## Discussion

The results of this study showed that a high number of students declared they had been involved in bullying, which is in agreement with the results found by Bandeira and Hutz,<sup>24</sup> with similar levels of victimization for both males and females; however, this last statement was not supported by the findings of Liang, Flisher, and Lombard,<sup>25</sup> who reported that aggression and victimization occurred more commonly in boys.

The role most often reported in the study was observing bullying (59.7% of the participants), –followed by being a victim (48.9%) and being an aggressor (32.1%). These results are in agreement with a study by Silva et al.,<sup>2</sup> although the percentages found by these authors are higher (82% as observers, 56.9% as victims, and 38.5% as aggressors). A similar situation occurs for the concomitant condition of victim/aggressor described by Moura Cruz and Quevedo,<sup>19</sup> who found higher percentages compared with the present study (47.1% versus 27.4%).

These differences in results are explained in the literature<sup>26</sup> that evidences a great variation in the frequency and type of bullying among different countries, regions within the same country, and schools. Bullying is a multi-causal phenomenon and several factors may contribute to

**Table 2** Distribution of bullying, number of events per role, and self-esteem; gender and age range in adolescents from public schools participating in the School Health Program, 2012.

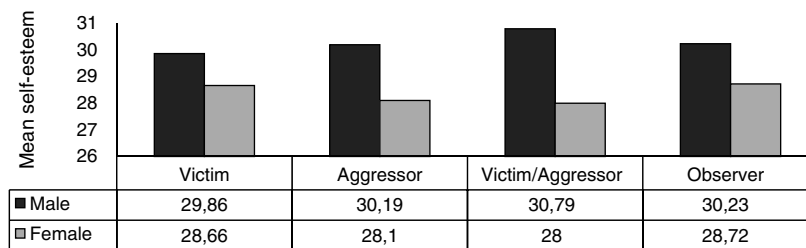
Variables	Gender						Age range (years)				p-value (MH) <sup>a</sup>			
	M		F		TOTAL	Odds (CI)	p-value (MH) <sup>a</sup>	13-14		15 or more		TOTAL	Odds (CI)	
	n (%) <sup>b</sup>	n (%) <sup>b</sup>	n (%) <sup>b</sup>	n (%) <sup>b</sup>				n (%) <sup>b</sup>	n (%) <sup>b</sup>	n (%) <sup>b</sup>				n (%) <sup>b</sup>
<b>Bullying-yes</b>	71 (44.7)	88 (55.3)	159	67.4	1.13 (0.63 < OR < 2.04)	0.653	80 (52.6)	72 (47.4)	152	67.8	1.65 (0.90 < OR < 3.03)	0.084		
Victim	48 (41.7)	67 (58.3)	115	48.5	0.86 (0.50 < OR < 1.49)	0.565	55 (50.5)	54 (49.5)	109	48.7	1.15 (0.66 < OR < 2.01)	0.600		
Aggressor	35 (46.7)	40 (53.3)	75	31.6	1.20 (0.66 < OR < 2.15)	0.523	41 (57.7)	30 (42.3)	71	31.7	1.71 (0.93 < OR < 3.14)	0.064		
Victim/aggressor	27 (42.2)	37 (57.8)	64	27.0	0.92 (0.50 < OR < 1.71)	0.783	33 (55.0)	27 (45.0)	58	25.9	1.42 (0.75 < OR < 2.68)	0.251		
Observer	65 (46.1)	76 (53.9)	141	59.5	1.28 (0.73 < OR < 2.25)	0.355	72 (53.3)	63 (46.7)	135	60.3	1.61 (0.90 < OR < 2.86)	0.084		
<b>Bullying - no</b>	32 (41.6)	45 (58.4)	77	32.6	0.88 (0.49 < OR < 1.59)	0.653	29 (40.3)	43 (59.7)	72	32.1	0.61 (0.33 < OR < 1.11)	0.084		
<b>Self-esteem</b>														
High (score > 30)	46 (41.8)	64 (58.2)	110	50.5	1.01 (0.57 < OR < 1.79)	0.981	49 (47.6)	54 (52.4)	103	47.0	0.89 (0.50 < OR < 1.60)	0.676		
Low (score ≤ 30)	45 (41.7)	63 (58.3)	108	49.5	0.99 (0.56 < OR < 1.76)	0.981	53 (50.5)	51 (49.5)	104	48.9	1.12 (0.63 < OR < 2.01)	0.676		

CI, Confidence interval.

<sup>a</sup>The Mantel-Haenszel (MH) chi-squared test was used for p-values.

<sup>b</sup>The % in brackets refers to the variable distribution between the categories of gender and age group, and those with ignored variables (n = 237) were excluded from the total: bullying by gender (one; n = 236) and age range (13; n = 224); bullying role by gender (four; n = 233) and age range (26; n = 211); self-esteem by gender (19; n = 218) and age range (30; n = 207).

<sup>c</sup>The overall % for each role (victim, aggressor, victim/aggressor, and observer) were calculated in relation to the total respondents with information for gender and age.



**Figure 1** Bullying roles and mean self-esteem by gender of adolescents in the School Health Program, 2012.

these differences, such as the methodology used in data collection, differences between the studied schools, the culture of each location, social class, ethnicity, age, and gender of the participants.<sup>26</sup>

The type of bullying most frequently used by adolescents was verbal aggression, especially name-calling and spreading rumors. These findings have also been described in other studies,<sup>19,24</sup> which have confirmed the verbal type as the most often used in bullying at this stage of life. Cruel, derogatory nicknames may explain the prevalence of this type of bullying.<sup>19</sup>

The schoolyard, stairs, cafeteria, or restrooms were the places where bullying most frequently occurred, which is corroborated by the findings of Moura Cruz and Quevedo,<sup>19</sup> and Silva et al.,<sup>2</sup> who found that most aggressions occurred outside the classroom environment.

There were no statistically significant results for the variables bullying and self-esteem when they were analyzed individually in relation to gender, which may be due both to the relatively small sample size and due to the tool used in the study. The tool, by incorporating the different manifestations of bullying with the same weight, improves the sensitivity to the phenomenon, constituting an important screening test for the event, but has little discriminatory power (low specificity). In the study of Bandeira and Hutz,<sup>24</sup> no difference was found regarding bullying victimization in relation to gender. In the study by Silva et al.,<sup>2</sup> there was no statistical significance between gender and being a victim or aggressor, similarly to the findings from Moura Cruz and Quevedo,<sup>19</sup> who found a prevalence of bullying among male adolescents.

Regarding the interaction between bullying roles and self-esteem in relation to gender, statistically significant results were found, as victims/aggressors and male aggressors have high self-esteem, while the female gender shows

scores that are predominantly < 30 (low self-esteem); these findings are similar to those described in the study by Bandeira.<sup>27</sup> One possible explanation is related to the different factors that influence self-esteem in the identity formation of males, focused on being successful towards their objectives, whereas females are controlled by feelings.<sup>28</sup>

Regarding the male gender, it was observed that the victims have mean low self-esteem, which was not observed in the roles of aggressor, victim/aggressor, and observer, who presented higher means. The fact that the victims are unable to defend themselves or react to bullying can impact their self-esteem; these findings were also observed by Bandeira.<sup>26</sup>

This study aimed to investigate bullying, self-esteem, and frequencies by gender and role. It was observed that this phenomenon is a common occurrence, representing a universal fact, observable in all schools.

The results showed a large number of students involved in the different roles of bullying, identifying associations between these characteristics and sex/gender and self-esteem of those involved, which may serve as useful information for the development of local intervention policies and inspiration for future research.

It must be emphasized that this study does not exhaust the discussion on this phenomenon, but helps to give visibility to the bullying event and to develop projects and actions that can be taken, involving the entire school community and its specificities.

Among the recommendations for a greater understanding of bullying and its interaction with self-esteem, the need for additional studies on the nature of this event, including family dynamics and other situations of vulnerability, as well as qualitative strategies to investigate the phenomenon are highlighted.

**Table 3** Distribution of bullying role by gender and self-esteem status in adolescents from public schools participating in the School Health Program, 2012.

Bullying role	Females				Males				Odds (CI)	p-value (MH) <sup>a</sup>
	High SE		Low SE		High SE		Low SE			
	n	% <sup>b</sup>	n	% <sup>b</sup>	n	% <sup>b</sup>	n	% <sup>b</sup>		
Victim	25	40.3	37	59.7	24	55.8	19	44.2	1.87 (0.79 < OR < 4.44)	0.119
Aggressor	14	36.8	24	63.2	19	61.3	12	38.7	2.71 (0.92 < OR < 8.17)	0.044
Victim/aggressor	12	34.3	23	65.7	17	73.9	7	26.1	4.65 (1.33 < OR < 16.9)	0.006

CI, Confidence interval; SE, self-esteem.

<sup>a</sup> The Mantel-Haenszel (MH) chi-squared test was used for p values.

<sup>b</sup> The % refers to the distribution of the variable between the categories bullying status and gender.

## Conflicts of interest

The authors declare no conflicts of interest.

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