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Body Image Perception and Internalization Problems Indicators in Mexican Adolescents

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Abstract

The aim of the study was to determine the existing differences by gender in the indicators of internalizing problems regarding the body image perception of Mexican adolescents. A descriptive and transversal study was developed. The participants were students from four public middle schools in Guadalajara Mexico. The instrument used was an online survey constituted by a sociodemographic section, an internalizing problems indicators scale ($\alpha = .85$) and a body image perception scale ($\alpha = .70$). Parental consent was obtained using a waiver of active consent. The survey was applied online, during school hours at the computer labs. Descriptive statistics were calculated for the sociodemographic data and the body perception scale. Zscores were determined for the internalizing problems scale, being categorized into a three level rank. Statistical differences were estimated by gender using one-way analysis of variance (ANOVA). The sample included 2080 adolescents with a mean age of 13.6 years (SD 1), of which 51% (1059) were female and 49% (1021) male. 18.1% of the participants that describe themselves as about the right weight, followed by 13.9% that do it as slightly overweight, indicating that they are trying to lose weight. Regarding the differences by gender, 16% of the males and 17.9% of the females have high indicators of internalizing problems. Taking into consideration the body image, the males that describe themselves as very overweight and the females that do it as very underweight are the groups with higher indicators of internalizing problems. In summary, there are important differences between males and females in the internalizing problems indicators regarding the body image.

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Keywords

Body Image, Internalizing Problems, Gender

1. Introduction

Adolescence is a transition stage from childhood to adulthood which takes place between the age of 10 and 19 years. It is usually divided in two phases: early adolescence, 10 - 14 years old, and late adolescence, from 15 to 19 years (World Health Organization, 2014). This is an important development stage for the human being, in which intense biological and psychosocial changes are experience (Lima, Ferrer, Fernández, & González, 2012; Iglesias, 2013). At a biological level, the adolescent experiences important hormonal modifications, which mainly cause physical growth acceleration and the development of the secondary sex characteristics (Aliño, López, & Navarro, 2006). The hormonal changes have a strong association with the psychosocial modifications experience during adolescence; however, the individual personality traits and the social group characteristics will play an important role in the adolescent psychosocial changes, which in general involve the search for independence, the need for social acceptance by the peers, the identity development, and the beginning of the preoccupation for the body image (Lima, Ferrer, Fernández, & González, 2012; Iglesias, 2013).

The body image is defined as a construct that comprises the body perceptions (perceptive component); attitudes, feelings and thoughts (cognitive-affective component); and the behaviors generated from these components (Baile, 2003; Fernández, González, Contreras, & Cuevas, 2015). This set of elements contributes to the construction of the individual self-concept. In the complex process of the development of the body image, the esthetic model imposed by society generates an unavoidable comparison between the actual body figure and the ideal image, which usually generates feelings of dissatisfaction, especially during adolescence, because in this stage, the body is constantly changing in a process accompanied by the growing need of obtain approval from the peers, where the perception of the adolescent's body becomes fundamental at the time of interacting with others (Fernández, González, Contreras, & Cuevas, 2015).

When the adolescent has a negative perception of the body image, the presence of psychosocial alterations increases, being the most usual the eating disorders and low self-esteem (Griffoulière, Rivarola, Galarsi, & Penna, 2013; Tiunova, 2015; Pedro, Micklesfield, Kahn, Tollman, Pettifor, & Norris, 2016). Also, the studies report that a negative body image is associated with the generation of internalizing problems, such as depression and anxiety (Almeida, Severo, Araújo, Lopes, & Ramos, 2012; Lee, 2012; Herazo & Villamil, 2013); which are relevant problems during adolescence, because they can remain present until adulthood, being associated with important phenomenon's such as suicide, substance use, bullying, school dropout, etc. (Pérez, Rivera, Atienzo, de Castro, Leyva, & Chávez, 2010; Manrique, Ospina, & Garcia, 2011; Cubillas, Román, Valdez, & Galaviz, 2012; Holubcikova, Kolarcik, Madarasova, Van Dijk, &

Reijneveld, 2015).

Most of the studies aimed to analyze the association between body image and internalizing problems had been conducted in developed countries, being scarce the research develop about this topic in our context. In Mexico, most of the research focuses on the discrepancies between the Body Mass Index and the body image in adolescents (Sámano et al., 2015; Oliva, Ordóñez, Santana, Marín, Andueza, & Gómez, 2016); however, little is known about the difference in the internalizing problems indicators between those adolescents with a positive body image and those without, especially regarding the adolescent's gender, a factor considered relevant in this topic by several studies (Hagger, Stevenson, Chatzisarantis, Pereira, Leitão, & González, 2010; Almeida, Severo, Araújo, Lopes, & Ramos, 2012; Holubcikova, Kolarcik, Madarasova, Van Dijk, & Reijneveld, 2015). Because of this lack of information, the aim of this study was to determine the existing differences by gender in the indicators of internalizing problems regarding the body image perception of Mexican adolescents.

2. Research Setting

The study was developed in Guadalajara and Tlaquepaque, two cities from the center area of Jalisco, Mexico. In our country, the school system is divided in kindergarten, elementary, middle school, high school and college. The research was conducted in public middle schools, educational level that consist of three grades, attended by the students when they are 12 to 15 years old.

3. Methodology

3.1. Participants

The research participants were middle school students. A list of public middle schools that met the criteria of having functional computer labs equipped with internet access was obtained. Four schools were selected randomly for the survey application. All the students present at the moment of the data collection were included in the sample if they met the requirement of being enrolled regularly in the school and have no difficulty in handling the computer by themselves.

3.2. Instrument

The participants answer an online survey constituted by a sociodemographic section, that gather data about: gender, age, mother school level, school grade and school shift attended. The next section included an internalizing problem indicator scale, constituted by nine questions destined to ask about the frequency in which the adolescent has experience internalizing problems related with anxiety, depression and impulse control; the answer options were in a four-point Liker Scale, going from never to almost always. The final part of the survey was the body image perception scale, composed by two questions, the first one related to the self-description of the participant's current weight, having five answer options: very underweight, slightly underweight, about the right weight, slightly overweight and very overweight; the second item asked about if

the adolescent was trying to do something with its weight, with four answer options: lose weight, gain weight, stay the same weight and I am not trying to do anything about my weight.

Cronbach's Alpha was calculated for the survey sections, obtaining a score of .8 for the internalizing problems scale and .70 for the body image perception scale.

3.3. Data Collection

The parental consent was obtained through a waiver of active parental consent. A document that contained the research aims, procedures and ethical aspects was sent to the parents, stablishing that the student's participation would be voluntary and confidential. The form instructed the parents to return it signed to the school administration. The schools took note of the parents that denied the students participation, proceeding to excluded them from the research

The survey was applied by the researchers' team in the school's computer labs. One session lasting 20 minutes was necessary for the students to answer the survey. At the beginning of the session, the procedures, aims and ethical considerations were explained to the participants, clarifying that their participation in the research will be voluntary and confidential at all moments, mentioning that it would be no consequences if they denied to participate or abandon the survey application. After the student's doubts were clear, the instructions to answer the survey were read aloud, instructing the participants to enter the survey site and use a password created for each school to enter the survey section. When the students finished answering the survey, they returned to their classrooms, without receiving any material or scholar gratification.

3.4. Data Analysis

A database was created and analyzed with SPSS version 20.0 program. Descriptive statistics were calculated for the sociodemographic data and the body perception scale. Z-scores were determined for the internalizing problems scale; the Z-scores were categorized into a three level rank, taking as low, the values lower than plus 2 standard deviation (SD); as medium, the scores between plus 2 SD and plus 4 SD; and high, for the values higher than plus 4 SD. The statistical differences existing in the internalizing problems indictors based in the body image perception were estimated by gender using one-way analysis of variance (ANOVA).

3.5. Ethic Considerations

The procedures for the development of the research were reviewed and approved by the Ethics Committee Review Board of the Inter institutional Doctorate in Psychology at the University of Guadalajara.

4. Results

4.1. Sociodemographic Characteristics

A total of 2080 students participated in the research. Mean age was 13.6 years (SD 1),

51% (1059) were female and 49% (1021) male. The mother school level is presented in **Table 1**.

The school variables distribution (school grade and shift), indicated that a higher number of students were attending school in the first grade and at the morning shift (Table 2).

4.2. Body Image Perception

The items from the body image perception scale were analyzed using frequencies and percentages. The results indicate that the adolescents that describe their weight as about the right weight and slightly overweight, are the ones that referred to try to lose weight more frequently (Table 3).

Table 1. Student's mothers school level.

School level	n	%
Did not finished high school	1376	66.1
Finished high school	467	22.4
When to college, but did not graduate	109	5.2
Graduated from college	128	6.1

n = frequency, sample = 2080.

Table 2. Student's school grade and school shift.

			School Shift					
		Morni	ng shift	Afternoon shift				
		n	n	%				
School grade	First grade	400	19.2	355	17			
	Second grade	379	18.2	376	18			
	Third grade	345	16.5	225	10.8			

n = frequency, sample = 2080.

Table 3. Weight perception and intentions about the current weight referred by the participants.

Weight self-description Lose v n Very underweight 63	weight							
	Lose weight		Gain weight		Stay the same weight		I am not trying to do anything about my weight	
Very underweight 63	%	n	%	n	%	n	%	
	3	64	3	34	1.6	16	.7	
Slightly underweight 83	3.9	113	5.4	57	2.7	32	1.5	
About the right weight 378	18.1	198	9.5	432	20.7	133	6.3	
Slightly overweight 291	13.9	9	.4	30	1.4	15	.7	
Very overweight 94	4.5	10	.4	11	.5	17	.8	

n = frequency, sample = 2080.

4.3. Internalizing Problem Indicators

The total score from the internalizing problems scale was categorized by gender into three levels using the Z-scores. It is noteworthy that for both gender, a percentage higher than 10% of the participants score in the high rank of the categorization, corresponding to the group of students that could be having high indicators of internalizing problems (Table 4).

4.4. Internalizing Problems Indicators Differences by Body Image Perception

One-way analysis of variance (ANOVA) was used to determine the statistical differences existing by gender in the internalizing problems indicators based in the adolescent body image perception.

Statistically significant differences were observed between the groups for both gender (<.01). The data points out that the females tend to have higher internalizing problem indicators in all the weight perception groups. The differences by gender were, for the males, between those students that perceived their body image as very overweight and those that describe themselves as around the right weight, and for the females, between the adolescents with a very underweight body perception and those that describe themselves as around the right weight (Table 5).

Regarding the intentions about weight, no statistically significant differences were found by gender for the internalizing problems indicators (**Table 6**).

Table 4. Prevalence of internalizing problem indicators in middle school students.

		Levels of distribution					
	Gender —	L	ow	Med	lium	Hi	igh
		n	%	n	%	n	%
Internalizing problem	Male	195	19.1	663	64.9	163	16
indicators	Female	135	12.7	734	69.3	190	17.9

n = frequency, sample = 2080.

Table 5. Internalizing problem indicators compared based of the student's weight perception.

Weight perception								
			Mean ±	: SD			E	_
	Gender	VU	SU	ARW	SO	VO	F	Р
Internalizing problems	Male	2.07 ± .66	2.06 ± .60	1.91 ± .56	1.96 ± .59	2.18 ± .61***	4.96	.001
indicators	Female	2.24 ± .50***	$2.05 \pm .58$	$2.01 \pm .5$	$2.07 \pm .54$	2.17 ± .61	4.17	.002

Note: VU, very underweight; SU, slightly underweight; ARW, about the right weight; SO, slightly overweight; VO, very overweight. *p < .05 compared with very underweight group. ***p < .05 compared with slightly underweight group. ***p < .05 compared with about the right weight group. ***p < .05 compared very overweight group.

Table 6. Internalizing problem indicators compared based of the student's intentions about weight.

			Mean ± SD				
	Gender	Lose weight	Gain weight	Stay the same weight	I am not trying to do anything about my weight	F	p
Internalizing problems	Male	1.99 ± .60	1.99 ± .62	1.90 ± .60	1.93 ± .58	1.22	.299
indicators	Female	2.09 ± .56	$2.07 \pm .53$	1.98 ± .59	1.99 ± .51	2.44	.062

5. Discussion

The aim of the study was to determine the existing differences by gender in the indicators of internalizing problems regarding the body image perception of Mexican adolescents. The most relevant findings were that only a small percentage of the participants described their weight as normal and do not intent to do anything about it; regarding the differences by gender, the females tend to have slightly higher indicators of internalizing problems, difference that remains present when we take into consideration the body image perception.

Weight perception is an important part of the body image, because it reflexes the results from the comparison made between the ideal body and the perceived body. In our research we observed that only a small part of the participants, less than 30%, feels satisfied with their body weight, indicating that they are near the normal weight and that they are not trying to do anything about it. This finding differs from the mentioned by a study developed in Mexico City with 330 adolescents, in which 80% of the participants reported to feel satisfied with its body perception, this significant difference could be explain by the instrument used, the characteristics of the population and because of the difference in the adolescents age, given that the mean age of the participants of the other research was 16 ± 2 years old , points that need to be taken into consideration for the development of future research (Sámano et al., 2015).

Regarding the feelings of dissatisfaction towards the weight perception, we found that the adolescents that describe themselves as about the right weight and slightly overweight are the ones referring to be trying to do something to lose weight more frequently, we could say, they might be the most unsatisfied with their bodies, result that agrees with the mentioned by other studies that point out that the adolescents with higher weight tend to be more unsatisfied and therefore to apply more dietary restrictions aiming to lose weight (Goldfield, Moore, Henderson, Buchholz, Obeid, & Flament, 2010). However, other research has also found that a high number of the adolescents that perceive themselves as normal weigh are also currently trying to lose weight, result probably explained for the existing preference for thinness as an indicator of

beauty, more significantly present in the Western culture, expectation that could play an important role in the development of internalizing problems among the adolescents, when the ideal body does not match with the perceive one (Almeida, Severo, Araújo, Lopes, & Ramos, 2012).

The internalizing problems are a commonly find alteration among adolescents, because in this stage is common to observed that when the individual does not adapt, develops or fulfill its needs successfully, such problems could appear easily, either alone or accompanied by other alterations such as the behavioral (Wang & Dishion, 2011; Rawal et al., 2014). This idea is supported by our research findings that indicate that a percentage higher than 10% of the participant have high indicators if internalizing problems, result that needs to be taking into consideration for the development of future research and intervention strategies focus to reduce these indicators during adolescence, in order to prevent the generation of more serious alterations that could remain present until adulthood (Manrique, Ospina, & Garcia, 2011; Cubillas, Román, Valdez, & Galaviz, 2012; Holubcikova, Kolarcik, Madarasova, Van Dijk, & Reijneveld, 2015). There are reports that indicate the existence of difference by gender in the prevalence of this type of problems, where the females tend to have higher indicators of its presence compare to the males, results supported by the findings of this research that point out that the females tend to have slightly higher indicators of internalizing problems, probably because of the personality traits and the social patterns stablished for each gender (Hagger, Stevenson, Chatzisarantis, Pereira, Leitâo, & González, 2010; Van Oort et al., 2011; Strömbäck, Wiklund, Salander, & Malmgren, 2015).

The body image and the internalizing problems are aspects strongly linked, especially during adolescence, where the main preoccupation is to obtain peers acceptance, process in which the body image plays an important role, influencing in the characteristics of the social interactions. However, when the adolescent is not satisfied with its body image, it is common to observe the development of problems such as the internalizing type. In this aspect, there are studies that describe the existence of important differences in the way the adolescent experience this process by gender, agreeing with the results obtained from our research, that indicate that the females with body image dissatisfactions tend to have higher indicators of internalizing problems than the males (Hagger, Stevenson, Chatzisarantis, Pereira, Leitâo, & González, 2010; Waghachavare, Quraishi, Dhumale, & Gore, 2014).

Statistically significant differences in the indicators of internalizing problems regarding the body image perception were observed by gender. The results indicated that the males that describe themselves as very overweight presented the higher indicators of internalizing problems, while for the females, the girls that perceive themselves as very underweight had the higher indicators. The differences found in our research are consistent with the results from several studies that point out that the males have higher probabilities to develop internalizing problems, such as depression, when they perceive themselves as overweight or obese, body image perceptions that result more significant for the boys (Schiefelbein, Mirchandani, George, Becker, Castrucci, & Huelscher, 2012;

Oliva, Ordóñez, Santana, Marín, Andueza, & Gómez, 2016). In the female case, most of the studies report that the overweight and obese girls tend to have higher indicators of internalizing problems, because of the discrepancy between the ideal body weight and the adolescent perception, however, other studies also mention that the females tend to dislike the obesity but also the underweight, reporting that one of each five females want to have a bigger figures, not necessarily obese, but more voluptuous (Almeida, Severo, Araújo, Lopes, & Ramos, 2012; Oliva, Ordóñez, Santana, Marín, Andueza, & Gómez, 2016).

Finally, it is necessary to point out that no statistically significant differences by gender were observed for the internalizing problems indicators regarding the intentions about weight, indicating that this variable might not be a factor that makes a difference in the development of internalizing problems, where the adolescent's perception about its body could be playing a more important role in the generation of this type of alterations.

The research limitations are that only schooled adolescents were included, being necessary to develop future research that includes other groups of adolescents in order to be able to stablish if there are differences between them. Methodologically, it would be important to include other body image surveys that incorporate information about feelings and beliefs in future studies. Also, considering that the results obtained from this study have a descriptive level, it is necessary to develop other researches that extend to an association, correlation and predictive level. Despite these limitations, the findings obtained from this study represent an important input about relevant topics for adolescents, such as body image and internalizing problems indicators, which needs to be taken into consideration for the development of other researches that promote the generation of more effective prevention strategies that could favor the adolescent healthy development.

6. Conclusion

In summary, we were able to observe that only a small part of the adolescents felt satisfied with their body image, finding that the participants that described their weight as normal and slightly overweight were the ones trying to lose weight more frequently. About the internalizing problems indicators, the females tended to have higher levels than the males. Regarding the differences by gender in the internalizing problems indicators based in the body image perception, the findings indicate that the boys that describe themselves as very overweight and the girls that perceive themselves as very underweight were the groups that presented higher indicators of internalizing problems.

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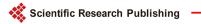
Conflict of Interest Declaration

The authors declare that there is no conflict of interests with the development of the study, the authorship and/or the publication of this paper.

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