

# Design and Validation of the Family Pressure To Be Thin Questionnaire in Mexican Undergraduates

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## ABSTRACT

**Introduction.** Eating disorders are serious illnesses with a complex, heterogeneous etiology. Sociocultural pressure from the media, family, and peers are among the risk factors associated with their emergence. **Objective.** To design, obtain construct and convergent validity, total and test-retest reliability at three weeks of a Family Pressure To Be Thin Questionnaire in a Mexican university population, and undertake a comparison with a clinical group diagnosed with an eating disorder, and by sex. **Method.** The study was undertaken with a sample of 369 university students (men/women/non-binary) and 50 subjects diagnosed with an eating disorder. Exploratory factor analysis and first and second order confirmatory factor analysis were performed and the reliability of the scale and the test-retest reliability at three weeks were obtained. Correlations were analyzed to obtain concurrent validity with the Family Pressure Subscale of the Sociocultural Attitudes Towards Appearance Scale (SATAQ-4), and comparisons were made with the clinical group and by sex. **Results.** Based on the exploratory factor analysis, the scale was divided into eight factors, reduced to seven in the confirmatory factor analysis, and 10 questions were eliminated, with a model that fit the data. A Cronbach's Alpha value of .94 was obtained and test-retest reliability was .86. **Discussion and conclusion.** The results highlight the importance of contextualizing the family environment when examining eating disorders, with interventions aimed at reducing criticism of bodies and food being crucial. The scale consisted of 29 items divided into seven factors and was valid and reliable for the sample studied and will be useful for detecting one of the sociocultural risk factors for eating disorders.

**Keywords:** Validity, reliability, family pressure to be thin, measurement.

## RESUMEN

**Introducción.** Los trastornos de la conducta alimentaria son enfermedades graves de etiología compleja y heterogénea. La presión sociocultural que proviene de los medios, la familia y los pares se encuentran entre los factores de riesgo asociados a su aparición. **Objetivo.** Diseñar, obtener la validez de constructo y convergente, la confiabilidad total y test-retest a tres semanas de un cuestionario de Presión Familiar hacia la Delgadez en población universitaria mexicana, así como la comparación con un grupo clínico diagnosticado con un trastorno de la conducta alimentaria y por género. **Método.** El estudio se llevó a cabo en una muestra de 369 estudiantes universitarios (hombres/mujeres/no binario) y 50 sujetos con diagnóstico de un trastorno de la conducta alimentaria. Se realizó un análisis factorial exploratorio y un análisis factorial confirmatorio de primero y segundo orden, se obtuvo la confiabilidad de la escala y la confiabilidad test-retest a tres semanas; se obtuvieron correlaciones para obtener la validez concurrente con la subescala de Presión Familiar del *Sociocultural Attitudes Towards Appearance* (SATAQ-4), y se hicieron comparaciones con el grupo clínico y por sexo. **Resultados.** A partir del análisis factorial exploratorio la escala se estructuró en ocho factores, que en el factorial confirmatorio se redujeron a siete, además de eliminarse 10 preguntas, con un modelo que ajustó a los datos. La confiabilidad Alfa de Cronbach fue de .94 y la test-retest de .86. **Discusión y conclusión.** Los resultados señalan la relevancia de contextualizar el ambiente familiar al investigar los trastornos alimentarios, siendo cruciales las intervenciones orientadas en reducir la crítica hacia los cuerpos y la alimentación. La escala se constituyó de 29 ítems distribuidos en siete factores y resultó válida y confiable para la muestra estudiada, y será útil en la detección de uno de los factores de riesgo socioculturales de los trastornos de la conducta alimentaria.

**Palabras clave:** Validez, confiabilidad, presión familiar hacia la delgadez, medición.

## INTRODUCTION

Eating Disorders (ED) are serious psychiatric illnesses (American Psychiatric Association [APA], 2013; Klump et al., 2009) associated with concern with body weight or shape, and subsequent behaviors designed to achieve weight loss such as dietary restriction, binge eating, compensatory behavior such as food restriction, laxative use, induced vomit, and overtraining (Culbert et al., 2015). Disordered Eating Behaviors (DEB) are inappropriate behaviors characteristic of ED that do not meet the necessary diagnostic criteria (Unikel-Santoncini et al., 2010).

EDs predominantly affect women aged 13 to 25, the diagnostic ratio being 10 females for every male (Erriu et al., 2020). According to data from the National Psychiatric Epidemiology Survey (Medina-Mora et al., 2003) conducted in the adult population, bulimia nervosa (BN) affects 1.2% (.6% of males, 1.8% of females) of the adult population.

Regarding the undergraduate population, studies from various countries have reported wide-ranging results regarding the prevalence of DEBs. For example, a study of Chilean students found that 16.9% of women and 8.7% of males are at a high risk of developing DEBs, while 25.6% of women and 33.8% of men are at a moderate risk (Escandón-Nagel et al., 2021). A study conducted in Spain reported that 19% of the population are at risk of developing EDs, including 21.2% of women and 15% of men. In Greece and Colombia, risk levels are between 44.1% and 61.1% for females, and between 9.6% and 38.9% for males (Martínez-González et al., 2014). Among Peruvian medical students, the risk of developing DEBs was found to be 12.5%, 31.7% for women and 10.8% for men (Zila-Velazque et al., 2022). (Mendoza & Olalde, 2019). A study of a representative sample of medical students in Mexico (Mendoza & Olalde, 2019) found that 8.6% were at high risk of DEBs, and 23.5% were classified as being at moderate risk. This was measured using the Brief Questionnaire for Measuring Disordered Eating Behaviors (Unikel-Santoncini et al., 2004). More males tended to be classified as high-risk (9.4% vs. 7.4%), whereas more females were classified as moderate risk (28.4% vs. 19.8%). The study also found that 5.9% of participants used diet pills, 1.6% used diuretics and .5% used laxatives (Mendoza & Olalde, 2019). A study conducted in Mexico City observed a DEB prevalence of 6.8% in females and 4.1% in males (Díaz de León-Vázquez et al., 2017). Conversely, a comparison of DEBs between Mexican and Canadian women found that the percentage of women at risk for developing DEBs was 17.7% and 4.5% respectively (Saucedo et al., 2017).

The etiology of EDs is complex and heterogeneous, involving both genetic and environmental factors (Mitchison & Hay, 2014). The interaction between temperament, early life relationships and life experiences may determine whether a person develops an ED (Le et al., 2017). In regard

to environmental factors, sociocultural models highlight the beauty standards or ideals of extreme thinness and objectification for women in western culture as specific risk factors for ED (Striegel-Moore, et al., 2007).

The Tripartite Influence Model posits that sociocultural pressure regarding appearance can be divided into three sources: peers, family, and the media. The model proposes that this pressure is a crucial factor in the development of body image and eating disorders, through the internalization of the thin body ideal. This is compounded by the subsequent comparison of one's own physical appearance with this ideal (Keery et al., 2004; Schaefer et al., 2019).

Family characteristics constituting risk factors for ED development have been detected. Families of patients with EDs have been identified as more dysfunctional than those without ED. Patients with EDs describe their families as having low cohesion, and poor adaptability and communication, compared to those of participants without EDs (Sainos-López et al., 2015). Furthermore, overprotective behaviors have been observed in parents of anorexia nervosa patients (Le Grange, 2009). Family criticism of weight and body shape, low cohesion, and high parental expectations have been recognized as antecedent factors of bulimia nervosa development, compared to control groups with mixed psychiatric disorders or no psychiatric disorders (Le Grange, 2009).

Family pressure to be thin has mainly been measured through isolated questions within larger questionnaires. Few questionnaires exist that specifically measure sociocultural pressure to be thin. For example, the Influence of Body Aesthetic Models Questionnaire (Spanish acronym CIMEC), validated in Mexico (Vázquez et al., 2000), measures the influence of situations and agents promoting the current aesthetic model. This questionnaire, however, has only one question about family pressure to be thin: "Do you talk to family members about weight-losing activities or products?". Conversely, the Sociocultural Attitudes Towards Appearance Questionnaire (SATAQ-4) includes a four-question subscale measuring family pressure to be thin. The third version of this questionnaire was validated in male Mexican undergraduates (Castillo et al., 2019). However, this version does not include questions specifically exploring comments by different family members, and the validation study did not include females.

Given the lack of a culture-specific psychometric instrument for measuring family pressure to be thin in a sample of Mexican undergraduates, a questionnaire was expressly designed for this purpose. Construct and convergent validity with SATAQ-4 was obtained together with a comparison with a clinical sample. Total reliability and test-retest reliability with a three-week period between responses were also calculated. Sex comparisons were made with all the variables included in the study. Both the clinical group and non-clinical were expected to obtain high scores in all variables.

## METHOD

### Participants

The eligibility criteria for the sample were being Mexican university students, being over 18, and being enrolled at a public or private Mexican university. Participants were selected through non-probabilistic convenience sampling.

The sample comprised 478 students, female ( $n = 259$ ), male ( $n = 104$ ), non-binary ( $n = 2$ ), and unspecified ( $n = 4$ ). Participants were enrolled in universities in Mexico City; Mexicali, Baja California; Villahermosa, Tabasco; Zacatecas, Zacatecas; and Morelia, Michoacán. Thirteen subjects did not agree to sign the informed consent form, 39 failed to meet the inclusion criteria and 57 answered the attention checks incorrectly, leaving a total of 369 participants (70.2% women, 28.2% men, .5% non-binary, 1.1% preferred not to answer). The average age was 20.75 ( $SD = 2.72$ ), with an age range of 18 to 45, with no statistical differences between genders (women/men/nonbinary/did not answer). Ninety-three point two percent of participants were single, 4.3% were in a common law union, 2.2% were married and .3% were widowed. The sample comprised students from 19 universities in Mexico ( $n = 10$  public schools and  $n = 9$  private schools).

To obtain test-retest reliability, questionnaires were administered to the same individuals three weeks after the first time, with responses being obtained from 60 participants (68.3% women/28.3% men/1.7% non-binary/1.7% preferred not to answer).

The clinical sample comprised 50 subjects (39 women and 11 men), 11 of which were patients undergoing treatment for an eating disorder. Thirty-nine were undergraduate students who answered the question "Have you been diagnosed with an eating disorder?" affirmatively and specified that they had a diagnosis defined by the Diagnostic and Statistical Manual of Mental Illnesses (DSM-5) (APA, 2013). Those who said that they had DEBs, ate due to depression, or bigorexia, were excluded. The average age for the clinical sample was 21.54 years ( $SD = 2.70$ ), with an age range of 18 to 43, 96% were single and 4% were in a common-law union. No statistically significant age differences were found between the student group and the clinical group.

### Instruments

The Brief Questionnaire for Measuring Disordered Eating Behaviors (BQDEB) comprises 10 items exploring concern about gaining weight. It also examines the feeling of lack of control when eating, and restrictive, purgative and binge eating behaviors, in the past three months and was validated in Mexican clinical and student populations (Unikel-Santoncini et al., 2004). A recent factor analysis obtained a Cronbach's alpha value of .76, and 64.7% of

explained variance, divided into the following three factors: binge eating/purging, compensatory measures, restriction (Padrós-Blázquez et al., 2022).

The Social Attitudes towards Appearance Questionnaire (SATAQ-4) (Schaefer et al., 2015) was validated in the Peruvian (Zevallos-Delzo et al., 2017) and Colombian population (Villegas et al. 2021) but has not yet been validated in Mexico. The instrument is divided into two factors. Internalization is the degree of acceptance of physical appearance expectations and stereotypes and includes the areas of thinness/low adipose index, muscularity, and general attractiveness. Pressure measures the level of perceived interference from various groups regarding their physical appearance. It includes family, peers, significant others, and the media (Schaefer et al., 2015). This questionnaire has four items specifically related to family pressure: "I feel pressure from my family members to look thinner," "I feel pressure from my family members to improve my appearance," "My family members encourage me to reduce my body fat level," and "My family members encourage me to get in better shape." Because this scale contains specific items about family pressure in the context of EDs, it is relevant for the validation of this scale. In the sample in this study, it obtained a reliability of .81 and was organized into a single factor explaining 64.11% of total variance.

The Family Pressure To Be Thin Questionnaire consists of 42 questions in Likert format, with five response options: 1-Never, 2-Almost never, 3-Sometimes, 4-Frequently and 5-Always. A higher score indicates greater pressure from the family regarding weight and body shape. Two attention checks were added to detect random responses, in the following format "If you are answering this questionnaire correctly, select the option "Frequently".

### Procedure

The study was divided into three parts: Phase 1) Selection and inclusion of items; Phase 2) Construct validity; and Phase 3) Concurrent validity.

#### Phase 1

A bibliographic study was conducted of sociocultural pressure from the family on weight and body shape and the development of disordered eating behaviors. Fourteen questions were devised to conduct a semi-structured interview for university students (such as Does anyone in your family diet? How much importance do they give to weight and body shape in your family?). With these questions, eight interviews were conducted and subsequently analyzed to develop the 42 questions in the instrument.

Three experts on EDs were asked to evaluate the pertinence, relevance and conceptual clarity of each of the items comprising the instrument. They recommended including

all the questions with certain modifications, such as adding “obesity” in all the sections including the term “overweight”. With the resulting version, a cognitive laboratory ( $n = 16$ , 13 women and three men) was organized with undergraduate students to check their understanding of the content and structure of the questionnaire.

A pilot study was subsequently conducted ( $n = 27$ ) with undergraduate Mexican students, the response time was recorded, and a Cronbach’s alpha reliability of .95 was calculated. This yielded a final version of the questionnaire which was subsequently tested with a sample of undergraduate students at Mexican universities to obtain its reliability and validity.

### Phase 2

Responses were collected through a digital survey on the Office Forms platform between February and March of 2024; the questionnaire was shared with professors from various universities in Mexico so that they in turn could share it with their students. Analyses were conducted to obtain exploratory and confirmatory factorial validity; the latter considered both first and second order analysis.

### Phase 3

The concurrent validity of the instrument designed with the Family Pressure Subscale of the SATAQ-4 and the BQDEB was obtained. Likewise, comparisons were made for each of the variables studied, by clinical group vs. student group, and by sex.

## Statistical analysis

Frequencies and percentages of demographic variables (gender, career, parents’ educational attainment, public or private school) were obtained, as well as the mean and standard deviation of the age variable. The sample was randomly divided into two groups. One comprised 60% of participants ( $n = 219$ ) to conduct the exploratory factor analysis (Field, 2009), and the other comprised 40% ( $n = 150$ ) to conduct the confirmatory factor analysis (Brown, 2015). The first sample met the quota of five to 20 participants for each survey item (Campo-Arias & Oviedo, 2008; Sánchez & Echevarry, 2004) while the second complied with the minimum of 150 subjects for confirmatory factor analysis (Wang & Wang, 2012). Item-total correlations were obtained considering a correlation of .20 or greater to retain an item according to the criterion proposed by Streiner and Norman (2008). In the exploratory factor analysis, we followed Yela’s criteria (1997): 1) An item must have a saturation equal to or greater than .40; 2) An item is only included in one factor, the one in which it has a higher level of saturation; 3) There must be conceptual congruence between all the items included in a factor; 4) A factor must comprise at least three items. The reliability of the instrument and its

factors was obtained with Cronbach’s alpha and the three-week test-retest reliability was obtained with a bivariate correlation analysis.

The DWLS estimation method was used to conduct the confirmatory factor analysis of both the first and second order. The goodness-of-fit criteria for the first-order CFA were  $RMSEA \leq .08$ ,  $CFI \geq .95$ ,  $TLI \geq .90$ ,  $GFI \geq .90$  and  $SRMR \leq .08$  and probabilities,  $Z$  values and variance estimates were reported for the second-order CFA.

Since the family pressure subscale of the SATAQ-4 questionnaire has not been validated in Mexico, Cronbach’s alpha reliability and the factorial structure of principal components with Varimax rotation were obtained. Bivariate correlations were performed with the total sample of students between DEBs, the Family Pressure To Be Thin Questionnaire, and the family pressure subscale of the SATAQ-4. Finally, we compared the sum of each instrument for the total sample of students with the sample with EDs, using a Student’s  $t$  for independent samples, and a one-way ANOVA for the comparison by sex (eliminating subjects who preferred not to answer). Analyses were conducted in SPSS for Windows version 21 (IBM, 2012) and JASP (JASP team, 2020).

## Ethical considerations

The project was approved by the Ethics Consulting service of the Anahuac University in Mexico. An informed consent form was designed for all the activities where information was collected and sent to all participants digitally prior to all activities.

## RESULTS

### Phase 2

#### Exploratory factor analysis

Item-total correlations were obtained, and since all the items showed values greater than .20, they were all included for exploratory factor analysis. A principal components analysis with Varimax rotation was conducted, yielding an eight-factor structure explaining 66.67% of variance (see Table 1). Factor 1, comprising 10 questions, was called “Negative comments directed at the individual’s physique.” Factor 2, consisting of nine questions, was called “Pressure to change an individual’s eating behavior.” Factor 3, including eight questions, was called “thin ideal-reinforcing comments.” Factor 4, containing six questions, was called “Family beliefs about being overweight”; Factor 5 and 6, each comprising three questions, were called “Pressure from grandparents” and “Parental concern about being overweight” respectively. Factor 7, comprising four questions,

Table 1  
Factor loadings of the exploratory factor analysis of the family pressure to be thin questionnaire

	Factor						
	1	2	3	4	5	6	7
8 A member of my family has made comments that have made me want to lose weight.	.678						
11 Comments made by my family about the body weight or shape of others have made me want to do things to lose weight (such as using laxatives or diuretics, dieting, exercise, and self-induced vomiting).	.749						
17 Comments made by my family members about the amount of food I eat have made me want to change my eating habits to lose weight.	.607						
19 Watching family members diet has resulted in me doing things to lose weight.	.708						
21 A member of my family has made comments that have made me want to lose weight.	.686						
32 A member of my family has made comments that have made me want to change my eating habits to lose weight.	.668						
35 Comments made by my family about their own body weight or shape have led me to do things to lose weight (such as using laxatives or diuretics, dieting, exercise, and self-induced vomiting).	.764						
39 Comments made by my family about my body weight or shape have led me to do things to lose weight (such as using laxatives or diuretics, dieting, exercise, and self-induced vomiting).	.793						
41 Watching my family members diet has negatively affected me.	.476						
2 During my childhood, my parents limited the amount or type of food I ate.		.580					
20 During my adolescence, my family members limited the amount or type of food I ate.		.698					
26 My family members have made negative comments about the amount or type of food I eat, insinuating that I am going to gain weight.		.575					
28 My father has commented that I should not gain weight.		.544					
29 My parents currently limit the amount or type of food I eat.		.685					
30 My family has pressured me to go on a diet to lose weight.		.479					
40 My family has pressured me to do exercise to lose weight.		.585					
1 Comments by family members about their own body weight or shape have negatively affected me.			.604				
7 Comments by my family about other people's body weight or shape have negatively affected me.			.627				
9 My mother has remarked that I should not gain weight.			.511				
10 My father has made negative comments about other people's overweight.			.463				
12 In my family, it is very important to have a thin body because of physical attractiveness.			.401				
14 Comments made by my family about my body weight or shape have negatively affected me.			.651				
15 My family members have made or make comments about the amount of food I eat.			.512				
42 My mother has made negative comments about other people's overweight.			.613				
3 My family members treat people with overweight or obesity poorly.				.523			
23 My family believes that people with overweight are physically clumsy.				.713			
24 My family regards thinness as a synonym of health.				.464			
31 My family believes that overweight people are less smart.				.814			
37 My family believes that overweight people are worth less.				.719			
38 My family believes that people with overweight have little willpower.				.630			
4 My grandparents have remarked that I should not gain weight.					.594		
16 My grandparents have made negative comments about other people's overweight.					.789		
27 My grandparents have remarked that they worry or dislike gaining weight.					.674		
5 My mother has commented that she is worried or annoyed about gaining weight.						.736	
33 My father has remarked that he is worried or annoyed about gaining weight.						.728	
34 My mother has dieted or is dieting to lose weight.						.568	
18 My siblings have remarked that I should not gain weight.							.586
22 My siblings have made negative comments about other people's overweight							.660
25 My brothers have engaged in or are engaged in diets to lose weight							.753
36 My brothers have commented that they are worried or annoyed about gaining weight							.783

was called “Sibling Influence.” Factor 8 included two questions, including number 24, which also loaded on factor 4, with which it had conceptual coherence. Question 13 was eliminated from the questionnaire as it failed to meet the necessary requirements to form a factor (Yela, 1997). Question 6 was excluded from the analysis.

*Confirmatory factor analysis*

The first order confirmatory factor analysis yielded a seven-factor structure (see Figure 1) showing adequate goodness of fit: RMSEA =1.00, 90% CI [= .00]; CFI = 1.00; TLI = 1.03; GFI = .98; SRMR = .056; Chi<sup>2</sup> ( $\chi^2=140.89, df= 356, p = 1.00$ ). All items obtained statistically significant loads within their factors, with Z values between 7.06 and 30.73, all of which were statistically significant ( $p < .001$ ). There were no modified or residual covariance indices once items 2, 3, 9, 10, 12, 15, 28, 36, 37, 41 and 42 had been eliminated. The final distribution of the items by factor was as follows: 1) questions 8, 11, 17, 19, 21, 32, 35, and 39; 2) questions 2, 20, 26, 29, and 30; 3) questions 1, 7, and 14; 4) questions 23, 24, 31, and 38; 5) questions 4, 16, and 27; 6) questions 5, 33, and 34; 7) questions 18, 22, and 25 (see Appendix 1. for the final version of the questionnaire in Spanish.

*Second-order confirmatory factor analysis*

Second-order confirmatory factor analysis yielded a unidimensional solution, leaving seven factors as in the first-order solution. All factors showed a probability of less than .001, with Z values ranging from 5.05 to 9.76, and variance estimates ranging from .66 to 1.82.

*Reliability*

The reliability of the scale and its factors was obtained, as well as the three-week test-retest reliability. The scale

obtained a Cronbach’s Alpha value of .94, .94 for factor 1, .85 for factor 2, .90 for factor 3, .79 for factor 4, .77 for factor 5, .66 for factor 6 and .63 for factor 7. The three-week test-retest reliability coefficient for the total scale was .86. In the second-order confirmatory factor analysis, a Cronbach’s alpha value of .94 was obtained with a confidence interval of between .93 and .95.

**Phase 3  
Convergent validity**

Convergent validity was obtained by correlating the family pressure subscale of the SATAQ-4 with the total scale and factors of the Family Pressure To Be Thin Questionnaire. The results showed that all of them were statistically significant ( $p < .01$ ) and greater than .40 except for factor 7 of the scale and the SATAQ-4 Family Pressure Subscale (see Table 2).

Table 2  
*Correlations between the family pressure subscale of the SATAQ-4 and the total scale and factors of the family pressure to be thin questionnaire*

SATAQ-4 subscale	Factor						
	1	2	3	4	5	6	
Total scale	.725						
Factor 1	.663						
Factor 2	.634	.725					
Factor 3	.589	.718	.537				
Factor 4	.547	.479	.538	.482			
Factor 5	.422	.522	.501	.536	.504		
Factor 6	.488	.532	.532	.475	.561	.505	
Factor 7	.356	.405	.401	.314	.307	.330	.275

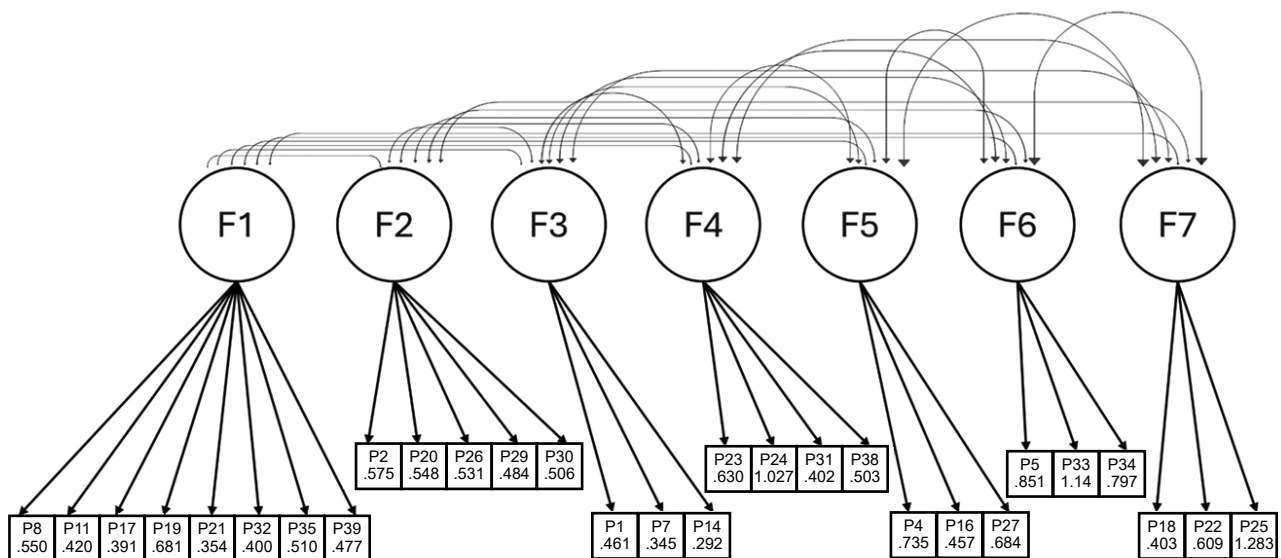


Figure 1. Confirmatory Factor Analysis of the Family Pressure To Be Thin Scale.

*Comparison between Clinical and non-clinical groups*

The student group and the clinical group were compared in regard to DEBs, the family pressure subscale of the SATAQ-4 questionnaire and the factors in the Family Pressure To Be Thin Questionnaire. The results showed statistically significant differences in all the variables measured with higher scores in the clinical group than in the student group (see Table 3).

*Comparisons by gender*

The gender comparison showed that the non-binary group scored almost as high as women in the DEB variable, factor 1, and higher in the Family Pressure Subscale of the SATAQ-4. This group also scored higher in factors 3 and 5 of the Family Pressure To Be Thin Scale, followed by the group of women, with the exception of factor 7, in which men scored higher. Statistically significant differences were

**Table 3**  
*Comparison between the student group and the clinical group with EDs in DEBs, the family pressure subscale of the SATAQ-4 and the factors in the family pressure to be thin questionnaire*

	Student Group		Group with ED Diagnosis		t	p
	$\chi$	SD	$\chi$	SD		
CAR	6.51	4.96	12.50	6.32	-7.70	< .001
SATAQ-4 Subscale	10.14	4.27	13.32	4.42	-4.90	< .001
Total Scale	87.37	30.01	120.57	35.26	-7.09	< .001
Factor 1	16.76	8.26	25.66	9.35	-7.01	-7.01
Factor 2	8.69	4.10	12.48	5.46	-5.85	< .001
Factor 3	7.82	3.36	11.00	3.55	-6.21	< .001
Factor 4	8.27	3.58	10.96	3.70	-4.94	< .001
Factor 5	6.23	3.06	8.22	3.48	-4.23	< .001
Factor 6	7.38	2.94	9.28	2.85	-4.27	< .001
Factor 7	5.62	2.60	7.00	3.16	-3.38	< .01

**Table 4**  
*Comparison between genders in DEBs, the family pressure subscale of the SATAQ-4 and the factors in the family pressure to be thin questionnaire*

	Women n = 259		Men n = 104		Non binary n = 2	
	$\chi$	SD	$\chi$	SD	$\chi$	SD
DEB	7.82	5.89	5.73	4.0	7.50	3.53
SATAQ-4 Subscale	10.78	4.54	9.80	4.03	13.50	.70
Total Scale	94.79	34.41	82.81	25.97	77.0	4.24
Factor 1	18.84	9.13	15.09	7.64	18.0	2.82
Factor 2	9.33	4.64	8.65	3.80	6.0	1.41
Factor 3	8.94	3.43	6.19	3.02	10.0	1.41
Factor 4	8.77	3.91	8.30	3.06	5.0	1.41
Factor 5	6.86	3.34	5.47	2.54	7.0	0
Factor 6	7.76	3.11	7.26	2.70	6.0	1.41
Factor 7	5.76	0.16	5.84	2.18	3.50	.70

found in DEBs, the total Family Pressure To Be Thin Scale and factors 1, 3 and 5 of the same scale (see Table 4).

**DISCUSSION AND CONCLUSION**

The process of elaboration and validation yielded a 29-item instrument divided into seven factors. Answers to these items correlated with the Family Pressure To Be Thin Subscale in the SATAQ-4. The data fit the model and good total and test-retest reliability was obtained, showing that the instrument has adequate psychometric properties for the sample studied. The results showed that the structure and content of the items fit the family component of the tripartite theoretical model (Keery, 2004), covering the behaviors mentioned in this theory such as criticism of weight and body shape and eating habits. The Family Pressure To Be Thin Questionnaire is a reliable, valid instrument which can be useful for assessing the risk of developing eating disorders.

The clinical group scored higher on all the variables studied than the control group, which is consistent with other studies recognizing family pressure as a risk factor in the development of DEBs and EDs (Mitchison & Hay, 2014). This is consistent with the high parental expectations and higher incidence of family criticism of weight and body shape observed in families of patients with BN (Le Grange et al., 2009). It suggests that family pressure constitutes a risk factor for the development of eating disorders. Likewise, these results point to the relevance of contextualizing an individual's family environment when investigating an ED, and as a factor in treatment and prevention. Interventions designed to improve family dynamics and reduce criticism of an individual's body image and diet can be crucial in a comprehensive approach to eating disorders (Fuentes Prieto et al., 2020).

In a sample of American, Australian, Italian, and British university women (aged 17 to 30), the Family Pressure on Appearance Subscale of the SATAQ-4 was found to correlate significantly with the measurement of DEBs, body dissatisfaction and self-esteem. Similarly, in the present study, higher scores were found in the clinical group than the non-clinical group across all measurements (Schaefer et al., 2015).

The SATAQ-4 has also been adapted for men considering masculine beauty ideals (Schaefer et al., 2015). The questionnaire in the present study showed adequate reliability and validity values in women and men. However, the sample of men was not large enough to conduct a separate analysis by sex, which does not allow us to replicate the findings of this widely used instrument.

A study measuring family pressure on appearance in healthy women with an average age of 21 years found that neuroticism is related to critical comments towards children and the expression of certain values in that respect. It concludes that a negative effect only occurs when children

display some form of vulnerability, as borne out by theories on multifactorial influences in the etiology of EDs (Davis et al., 2004).

A systematic review of family pressure contributing to the development of eating disorders in the Asian population (Sun et al., 2023) found that pressure exerted by the mother is the variable with the greatest influence on the development of EDs. In general, it has been reported that parental criticism has a direct influence on the practice of dieting and weight loss in university students as found in the present study. Nevertheless, our study does not include specific questions on the pressure exerted by mothers (Chng & Fassnacht, 2016; Rodgers et al., 2009; Wertheim et al., 2002).

The study conducted by Ordaz et al. (2018) found that in women of Hispanic origin in the United States, pressure from family and the media is a key factor in the development and maintenance of eating disorders. This was also observed in another study on the central role played by the family in Hispanic culture in the development and maintenance of eating disorders (van den Berg et al., 2008). The tripartite model posits the influence of the media, family and peers in the development of DEBs and EDs. In Mexico, a country with high percentages of overweight and obesity (Barquera et al., 2024), where the family occupies a central role, it is important to measure the pressure the latter exerts on the development of DEBs and EDs.

The fact that women scored higher than men on factors 1, 2, 3, 4, 5, and 6 suggests that women experience greater family pressure to be thin than men. This is congruent with the higher incidence of both ED and DEB in women, consistently identified in national and international literature (Erriu et al., 2020; Medina-Mora et al., 2003; Escandón-Nagel et al., 2021; Martínez-González et al., 2014; Zila-Velazque et al., 2022; Mendoza & Olalde, 2019; Unikel-Santoncini et al., 2004; Díaz de León-Vázquez et al., 2017). It also provides a possible explanation for the difference in the incidence of EDs between genders. It highlights the fact that the ideal of beauty in women is prevalent in today's society, fostering the desire for thinness, whereas in men it is less prevalent given that the male body ideal tends towards increased muscle mass (Marcos Quiles et al., 2013).

People who self-identified as non-binary scored higher on nearly all the variables measured than women. These results suggest that non-binary individuals experience more family pressure to be thin than men and women. These results are congruent with the rate of 4.7% of non-binary people with a professional diagnosis of EDs (Diemer et al., 2018). This is higher than the rates for men and similar to that of women, meaning that as a group, non-binary people are at a higher risk of developing ED, at least in comparison with men. However, since there were only two non-binary individuals in this study, further research with a representative non-binary sample is required to confirm this finding.

Regarding the different types of validity assessed with the questionnaire in our study, it is important to note that the modifications proposed by the experts consulted mainly involved adding obesity in addition to overweight. They also involved ensuring that the language did not include words that could be interpreted as offensive or aggressive. In general, the authors regarded the questions as pertinent, relevant and clear, and considered that they adequately covered the construct they were designed to measure.

In regard to construct validity, the instrument measures the variable it is intended to measure since the explained variance exceeded 50% (obtained value = 66.67%). In other words, this is not due to chance and each item is selected to develop the operational definition, so that the instrument has construct validity. Conversely, the results of the concurrent validity of the instrument show that the same construct is being measured with an external parameter, the family pressure subscale of the SATAQ-4, an instrument widely used in international research. This shows that the instrument adheres to what was previously theoretically established. Likewise, the fact that higher values were obtained in the clinical sample than in the non-clinical sample, and with statistically significant differences, indicates that there is an association between the constructs and the pathology studied. The results of the second-order confirmatory analysis indicate that the instrument has adequate psychometric characteristics, making it a useful tool in the study of family pressure to be thin in Mexican university students.

This instrument allows us to measure a factor in the development of eating disorders that was previously impossible to measure in depth. At least in Mexico there are only isolated questions in various questionnaires (Schaefer et al., 2015; Unikel-Santoncini et al., 2004) to measure this construct. The Family Pressure To Be Thin Scale is useful for diagnosing the risk of DEBs and EDs in academic, institutional and health contexts. It measures a construct previously identified as a risk factor for EDs (Le Grange et al., 2009; Keery et al., 2004; Schaefer et al., 2019), which will allow the design of more accurate prevention and intervention programs. It will also allow for more research and understanding of the DEBs and EDs phenomena.

The non-probabilistic convenience sample constitutes the greatest limitation of the present study, since it prevents the generalizability of the use of the scale developed to the entire population of Mexican university students. This study included an exploratory factor analysis of the Family Pressure To Be Thin Subscale of the SATAQ-4 questionnaire to obtain convergent validity. However, it would also be important to validate the questionnaire with a different sample and corroborate its validity. At the same time, the self-report format of this questionnaire poses a risk of response bias due to social desirability or lack of motivation (del Valle & Zamora, 2021). It would be useful to administer the questionnaire to other populations, and to obtain its

predictive and divergent validity. Validating this psychometric instrument with a probabilistic and representative sample of the population, and exploring divergent validity and predictive validity could enhance its psychometric qualities and usefulness and relevance for statistical, clinical and research-focused applications. In conclusion, the modified, validated questionnaire obtained adequate psychometric characteristics, making it a brief, useful tool for examining the relationship between family pressure and other constructs associated with mental health in the Mexican university population.

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### Conflict of interest

The authors declare no conflict of interest.

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### REFERENCES

- American Psychiatric Association. (2013). *The diagnostic and statistical manual of mental disorders, fifth edition: DSM 5*. American Psychiatric Association.
- Barquera, S., Hernández-Barrera, L., Oviedo-Solis, C., Rodríguez-Ramírez, S., Monterrubio-Flores, E., Trejo-Valdivia, B., Martínez-Tapia, B., Aguilar-Salinas, C., Galván-Valencia, O., Chávez-Manzanera, E., Rivera-Dommarco, J., & Campos-Nonato, I. (2024). Obesidad en adultos. *Salud Pública de México*, 66(4), 414–424. <https://doi.org/10.21149/15863>
- Brown, T. A. (2015). *Confirmatory factor Analysis for Applied Research* (2nd ed.). The Guilford Press.
- Campo-Arias, A., & Oviedo, H. C. (2008). Propiedades Psicométricas de una Escala: la Consistencia Interna. *Revista Salud Pública*, 10(5), 831-839.
- Castillo, I., Solano, S., Prieto, P., Rodríguez, A. M., & Sepúlveda, A. R. (2019). Mexican validation of the Sociocultural Attitudes Towards Appearance Questionnaire (SATAQ-3) in men undergraduate students. *Revista Mexicana de Trastornos Alimentarios*, 10(2), 173–184. <https://doi.org/10.22201/fesi.20071523e.2019.2.566>
- Chng, S. C. W., & Fassnacht, D. B. (2016). Parental comments: Relationship with gender, body dissatisfaction, and disordered eating in Asian young adults. *Body Image*, 16, 93–99. <https://doi.org/10.1016/j.bodyim.2015.12.001>
- Culbert, K. M., Racine, S. E., & Klump, K. L. (2015). Research Review: What we have learned about the causes of eating disorders – a synthesis of sociocultural, psychological, and biological research. *Journal of Child Psychology and Psychiatry*, 56(11), 1141–1164. <https://doi.org/10.1111/jcpp.12441>
- Davis, C., Shuster, B., Blackmore, E., & Fox, J. (2004). Looking good—family focus on appearance and the risk for eating disorders. *International Journal of Eating Disorders*, 35(2), 136–144. <https://doi.org/10.1002/eat.10250>
- Del Valle, M. V., & Zamora, E. V. (2021). El uso de las medidas de auto-informe: ventajas y limitaciones en la investigación en Psicología. *Alternativas en Psicología*, 47(8), 22–35. <http://hdl.handle.net/11336/173600>
- Díaz de León-Vázquez, C., Rivera-Márquez, J. A., Bojórquez-Chapela, L., & Unikel-Santoncini, C. (2017). Variables associated with disordered eating behaviors among freshman students from Mexico City. *Salud Pública de México*, 59(3), 258-65. <https://doi.org/10.21149/8000>
- Diemer, E. W., White Hughto, J. M., Gordon, A. R., Guss, C., Austin, S. B., & Reiser, S. L. (2018). Beyond the Binary: Differences in Eating Disorder Prevalence by Gender Identity in a Transgender Sample. *Transgender Health*, 3(1), 17–23. <https://doi.org/10.1089/trgh.2017.0043>
- Erriu, M., Cimino, S., & Cerniglia, L. (2020). The Role of Family Relationships in Eating Disorders in Adolescents: A Narrative Review. *Behavioral Sciences*, 10(4). <https://doi.org/10.3390/bs10040071>
- Escandón-Nagel, N., Apablaza-Salazar, J., Novoa-Seguel, M., Osorio-Troncoso, B., & Barrera-Herrera, A. (2021). Factores predictores asociados a conductas alimentarias de riesgo en universitarios chilenos. *Nutrición Clínica y Dietética Hospitalaria*, 41(2). <https://doi.org/10.12873/412barrera>
- Field, A. (2009). *Exploratory Factor Analysis in Discovering Statistics using SPSS* (5th ed.). Sage Publications.
- Fuentes Prieto, J., Herrero-Martín, G., Montes-Martínez, M., & Jáuregui-Lobera, I. (2020). Alimentación familiar: influencia en el desarrollo y mantenimiento de los trastornos de la conducta alimentaria. *Journal of Negative & No Positive Result*, 5(10), 1221–1244. <https://doi.org/10.19230/jonnp.3955>
- IBM Corp. (2012). *IBM SPSS Statistics for Windows* (Version 21.0.) [Computer software]. Armonk. IBM Corp.
- JASP Team. (2020). *JASP* (Version 0.17.1) [Computer software]. <https://jasp-stats.org/>
- Keery, H., van den Berg, P., & Thompson, J. K. (2004). An evaluation of the Tripartite Influence Model of body dissatisfaction and eating disturbance with adolescent girls. *Body Image*, 1(3), 237–251. <https://doi.org/10.1016/j.bodyim.2004.03.001>
- Klump, K. L., Bulik, C. M., Kaye, W. H., Treasure, J., & Tyson, E. (2009). Academy for eating disorders position paper: Eating disorders are serious mental illnesses. *International Journal of Eating Disorders*, 42(2), 97–103. <https://doi.org/10.1002/eat.20589>
- Le Grange, D., Lock, J., Loeb, K., & Nicholls, D. (2009). Academy for Eating Disorders Position Paper: The role of the family in eating disorders. *International Journal of Eating Disorders*, 43(1), 11–5. <https://doi.org/10.1002/eat.20751>
- Le, L. K. D., Barendregt, J. J., Hay, P., & Mihalopoulos, C. (2017). Prevention of eating disorders: A systematic review and meta-analysis. *Clinical Psychology Review*, 53, 46–58. <https://doi.org/10.1016/j.cpr.2017.02.001>
- Marcos Quiles, Y., Sebastián, M. Q., Aubalat, L. P., Ausina, J. B., & Treasure, J. (2013). Peer and family influence in eating disorders: A meta-analysis. *European Psychiatry*, 28(4), 199–206. <https://doi.org/10.1016/j.eurpsy.2012.03.005>
- Martínez-González, L., Fernández Villa, T., Molina de la Torre, A. J., Ayán Pérez, C., Bueno Cavanillas, A., Capelo Álvarez, R., Mateos Campos, R., & Martín Sánchez, V. (2014). Prevalencia de trastornos de la conducta alimentaria en universitarios españoles y factores asociados: proyecto uniHcos. *Nutrición Hospitalaria*, 30(4), 927–934. <https://doi.org/10.3305/nh.2014.30.4.7689>
- Medina-Mora, M. E., Borges G., Lara C., & Benjet C. (2003). Prevalencia de trastornos mentales y uso de servicios: Resultados de la Encuesta Nacional de Epidemiología Psiquiátrica en México. *Salud Mental*, 26(4), 1–6.
- Mendoza, M., & Olalde, G. (2019). Body Image Self-Perception and Risky Eating Behaviors in Medicine Undergraduate Students in Xalapa, Veracruz, Mexico. *Revista Ciencias de la Salud*, 17(1), 34–53. <https://doi.org/10.12804/revistas.urosario.edu.co/revsalud/a.7612>
- Mitchison, D., & Hay, P. J. (2014). The epidemiology of eating disorders: Genetic, environmental, and societal factors. *Clinical Epidemiology*, 89–97. <https://doi.org/10.2147/celep.s40841>
- Ordaz, D. L., Schaefer, L. M., Choquette, E., Schueler, J., Wallace, L., & Thompson, J. K. (2018). Thinness pressures in ethnically diverse college women in the United States. *Body Image*, 24, 1–4. <https://doi.org/10.1016/j.bodyim.2017.11.004>
- Padrós-Blázquez, F. P., Pintor-Sánchez, B. E., Martínez-Medina, M. P., & Navarro-Contreras, G. (2022). Análisis factorial confirmatorio del Cuestionario Breve de Conductas Alimentarias de Riesgo en universitarios mexicanos: AFC del CBCAR. *Revista Española de Nutrición Humana y Dietética*, 26(1), 83–91. <https://doi.org/10.14306/renhyd.26.1.1487>
- Rodgers, R., & Chabrol, H. (2009). Parental attitudes, body image disturbance and disordered eating amongst adolescents and young adults: A review. *European Eating Disorders Review*, 17(2), 137–151. <https://doi.org/10.1002/erv.907>
- Sainos-López, D. G., Sánchez-Morales, M.T., Vázquez-Cruz, E., & Gutiérrez-Gabriel, I. (2015). Funcionalidad familiar en pacientes con anorexia nerviosa y bulimia. *Atención Familiar*, 22(2), 54–57. <https://doi.org/10.1016/S1405->

8871(16)30049-9

- Sánchez, R., & Echevarry, J. (2004). Validación de Escalas de Medición en Salud. *Revista Salud Pública*, 6(3), 302–318.
- Saucedo-Molina, T., Zaragoza, J., & Villalón, L. (2017). Eating disorder symptomatology: Comparative study between Mexican and Canadian university women. *Revista Mexicana de Trastornos Alimentarios*, 8(2), 97–104. <https://doi.org/10.1016/j.rmta.2017.05.002>
- Schaefer, L. M., Burke, N. L., Thompson, J. K., Dedrick, R. F., Heinberg, L. J., Calogero, R. M., Bardone-Cone, A. M., Higgins, M. K., Frederick, D. A., & Kelly, M., Kelly, M., Anderson, D.A., Schaumberg, K., Nerini, A., Stefanile, C., Dittmar, H., Clark, H., Adams, Z., Macwana, S., ... & Swami, V. (2015). Development and validation of the Sociocultural Attitudes Towards Appearance Questionnaire-4 (SATAQ-4). *Psychological Assessment*, 27(1), 54–67. <https://doi.org/10.1037/a0037917>
- Schaefer, L. M., Burke, N. L., Anderson, L. M., Thompson, J. K., Heinberg, L. J., Bardone-Cone, A.M., Higgins Neyland, M.K., Frederick, D.A., Anderson, D.A., Schaumberg, K., Nerini, A., Stefanile, C., Dittmar, H., Klump, K.L., Vercellone, A.C., Paxton, S.J. (2019). Comparing internalization of appearance ideals and appearance-related pressures among women from the United States, Italy, England, and Australia. *Eating and Weight Disorders - Studies on Anorexia, Bulimia and Obesity*, 24(5), 947–951. <https://doi.org/10.1007/s40519-018-0544-8>
- Streiner, D. L., & Norman, G. R. (2008). *Health measurement scales: A practical guide to their development and use*. (4th ed.). Oxford University Press.
- Striegel-Moore, R. H., & Bulik, C. M. (2007). Risk factors for eating disorders. *American Psychologist*, 62(3), 181–198. <https://doi.org/10.1037/0003-066x.62.3.181>
- Sun, V., Soh, N., Touyz, S., Maguire, S., & Aouad, P. (2023). Asian students in the anglosphere – unravelling the unique familial pressures contributing to eating pathology: a systematic review. *Journal of Eating Disorders*, 11(1). <https://doi.org/10.1186/s40337-023-00733-y>
- Unikel-Santoncini, C., Bojórquez-Chapela, I., & Carreño-García, S. (2004). Validación de un cuestionario breve para medir conductas alimentarias de riesgo. *Salud Pública de México*, 46(6), 509–515. <https://doi.org/10.1590/s0036-36342004000600005>
- Unikel-Santoncini, C., Nuño-Gutiérrez, B., Celis-de la Rosa, A., Saucedo-Molina, T. D. J., Trujillo, E. M., García-Castro, F., & Trejo-Franco, J. (2010). Conductas alimentarias de riesgo: prevalencia en estudiantes mexicanas de 15 a 19 años. *Revista de Investigación Clínica*, 62(5), 424–432.
- Van den Berg, P., Neumark-Sztainer, D., Eisenberg, M. E., & Haines, J. (2008). Racial/Ethnic Differences in Weight-related Teasing in Adolescents. *Obesity*, 16(S2). <https://doi.org/10.1038/oby.2008.445>
- Vázquez, R., Alvarez, G., & Mancilla, J. M. (2000). Consistencia interna y estructura factorial del Cuestionario de Influencia de los Modelos Estéticos Corporales (CIMEC), en población mexicana. *Salud Mental*, 23(6), 18–24.
- Villegas Moreno, M. J., Londoño Pérez, C., & Pardo Adames, C. A. (2021). Validación del Cuestionario de Actitudes Socioculturales sobre la Apariencia (SATAQ-4) en población colombiana. *Acta Colombiana de Psicología*, 24(1), 86–95. <https://doi.org/10.14718/acp.2021.24.1.8>
- Wang, J., & Wang, X. (2012). Sample size for structural equation modeling. In: *Structural Equation Modeling. Applications using MPlus*. (2nd ed., pp. 443–481). John Wiley & Sons Ltd. <https://doi.org/10.1002/9781119422730.ch7>
- Wertheim, E., Martin, G., Prior, M., Sanson, A., & Smart, D. (2002). Parent Influences in the Transmission of Eating and Weight Related Values and Behaviors. *Eating Disorders*, 10(4), 321–334. <https://doi.org/10.1080/10640260214507>
- Yela, M. (1997). La técnica del análisis factorial [The technique of factor analysis]. Biblioteca Nueva.
- Zevallos-Delzo, C., Maguiña, J. L., Catacora, M., & Mayta-Tristán, P. (2020). Adaptación cultural y validación del SATAQ-4 “Sociocultural Attitudes towards appearance Questionnaire-4” para población peruana. *Revista chilena de neuro-psiquiatría*, 58(1), 16–28. <https://doi.org/10.4067/s0717-92272020000100016>
- Zila-Velasque, J. P., Grados-Espinoza, P., Regalado-Rodríguez, K. M., Luna-Córdova, C. J., Calderón, G. S. S., Diaz-Vargas, M., Diaz-Vélez, C., & Sifuentes-Rosales, J. (2022). Prevalencia y factores del trastorno de conducta alimentaria en estudiantes de Medicina Humana del Perú en el contexto de la pandemia de COVID-19: estudio multicéntrico [Prevalence and factors associated with eating disorders in Peruvian Human Medicine students in the context of the COVID-19 pandemic: a multicentre study]. *Revista Colombiana de Psiquiatría*, 54(S1), 1–10. <https://doi.org/10.1016/j.rcp.2022.07.005>

## APPENDIX 1

### *Final version of the family pressure to be thin questionnaire in spanish*

#	Item
1	<i>Algún miembro de mi familia ha hecho comentarios que me han llevado a querer hacer ejercicio para bajar de peso</i>
2	Los comentarios de mi familia sobre la figura o peso corporal de otros me han llevado a realizar alguna acción para bajar de peso (uso de laxantes, diuréticos, dietas, ejercicio, vómito autoinducido, etc.)
3	Los comentarios de mis familiares sobre la cantidad que como me han llevado a querer cambiar mis hábitos de alimentación, para bajar de peso
4	Ver que mis familiares hacen dietas me ha llevado a realizar alguna acción para bajar de peso
5	<i>Algún miembro de mi familia ha hecho comentarios que me han llevado a querer bajar de peso</i>
6	<i>Algún miembro de mi familia ha hecho comentarios que me han llevado a querer cambiar mis hábitos de alimentación para bajar de peso</i>
7	Los comentarios de mi familia sobre su propia figura o peso corporal me han llevado a realizar alguna acción para bajar de peso (uso de laxantes, diuréticos, dietas, ejercicio, vómito autoinducido, etc.)
8	Los comentarios de mi familia sobre mi figura o peso corporal me han llevado a realizar alguna acción para bajar de peso (uso de laxantes, diuréticos, dietas, ejercicio, vómito autoinducido, etc.)
9	Durante mi infancia, mis familiares me limitaban la cantidad o el tipo de comida que consumía
10	Durante mi adolescencia, mis familiares me limitaban la cantidad o el tipo de comida que consumía
11	Mis familiares han hecho comentarios negativos sobre la cantidad o el tipo de comida que consumo, insinuando que voy a subir de peso
12	En la actualidad, mis familiares me limitan la cantidad o el tipo de comida que consumo
13	Mi familia me ha presionado a hacer dietas para bajar de peso
14	Los comentarios que ha hecho mi familia sobre su propia figura o peso corporal me han afectado negativamente
15	Los comentarios de mi familia sobre la figura o peso corporal de otros me han afectado negativamente
16	Los comentarios que ha hecho mi familia sobre mi figura o peso corporal me han afectado negativamente
17	Mi familia cree que las personas con sobrepeso son físicamente torpes
18	Mi familia considera que la delgadez es sinónimo de salud
19	Mi familia cree que las personas con sobrepeso son menos inteligentes
20	Mi familia cree que las personas con sobrepeso tienen poca fuerza de voluntad
21	Mis abuelos han comentado que yo no debería subir de peso
22	Mis abuelos han hecho comentarios negativos acerca del sobrepeso de otros
23	Mis abuelos han comentado que les preocupa o les desagrada subir de peso
24	Mi mamá ha comentado que le preocupa o le desagrada subir de peso
25	Mi papá ha comentado que le preocupa o le desagrada subir de peso
26	Mi mamá ha hecho o hace dietas para bajar de peso
27	Mis hermanos han comentado que yo no debería subir de peso
28	Mis hermanos han hecho comentarios negativos acerca del sobrepeso de otros
29	Mis hermanos han hecho o hacen dieta para bajar de peso