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ANXIETY PROBLEMS IN SCHOOL STUDENTS: A REVIEW OF THE SCIENTIFIC LITERATURE BETWEEN THE YEARS 2015-2020

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ABSTRACT

This study presents a systematic review conducted on anxiety in school students with the objective of analyzing the causes and consequences of this mental health problem in school students, through a systematic review from the years 2015 to 2020. For this purpose, a search was carried out in important scientific databases such as: Scopus, EBSCO and SciELO, using the most important keywords related to the topic. Selection criteria were applied to those papers that do not meet the proposed characteristics, through a rigorous selection process detailed by the search process flow of the PRISMA model. The main conclusions were the factors that could be considered as predictors of anxiety in children as the loss of habits and routines and psychosocial stress, children in poverty with problems of family cohesion and family dysfunctionality, as well as the socioeconomic level and nutritional status. Results show it is important to design prevention and early intervention programs in childhood and adolescence from the framework of transdiagnostic cognitive behavioral therapy, as well as to establish intervention proposals to promote prosocial behaviors in the educational institution.

Keywords: Systematic review, anxiety problems, school students.

INTRODUCTION

Mental health is the state of well-being in which the individual develops his or her skills, overcomes the normal stresses of life, works productively and fruitfully, and contributes something to his or her community, and therefore, not only the absence of conditions or illnesses. Since the 1970s, mental health came to be considered as a problem within public health, requiring an interdisciplinary and multisectoral vision by the State, in order to prevent it and avoid the economic burden it entails (Ticona, 2014).

Within the problem of mental health is school anxiety that is closely related to school phobia, considered as a serious difficulty to attend or remain in school regularly due to excessive and irrational fear associated with various school situations, which is a factor that impairs the social and cognitive development of children, such as having difficulty concentrating or maintaining concentration, memorizing, organizing information, etc. In addition, if its intensity reaches pathological levels, experiences of fear, dread, alarm, panic can be manifested, these problems also associated with school rejection (Delgado et al., 2019).

In that sense, in order to contribute to the research, the following question was posed: What are the causes and consequences of anxiety in school

students between 2015 and 2020? On the other hand, the aim of the study was to know the causes and consequences of anxiety in school students between the years 2015 to 2020.

METHODOLOGY

The study corresponds to a systematic review of scientific articles elaborated between the years 2015 to 2020, this with the purpose of knowing that it has been investigated referring to the problem of anxiety in school students. This type of systematic review, as described by Vera (2009), Guirao-Gooris et al. (2008) and others, aims to examine the published literature and place it in a certain perspective, where the information found is summarized and analyzed through a search using rigorous procedures. The compilation of the information was carried out using the main scientific databases such as Scopus, EBSCO, Scielo, using terms or keywords such as: Systematic review, anxiety problems, school students, mainly works written in English, Spanish and/or Portuguese. Those articles were selected since they contained information related to anxiety problems in school students, during the years 2015 to 2020, in addition to having qualitative, quantitative and / or mixed approaches.

Selection and evaluation process

A total of 75 scientific articles were identified (20 in *EBSCO*, 30 in *SciELO*,

25 in *Scopus*). After going through the selection process according to the detailed inclusion and exclusion criteria, as well as those duplicate works, these were reduced to 15 articles that refer strictly to *anxiety*

in school students, as can be seen in Figure 1, referring to the selection flow of the PRISMA model unit of analysis (Coronel et al., 2020).

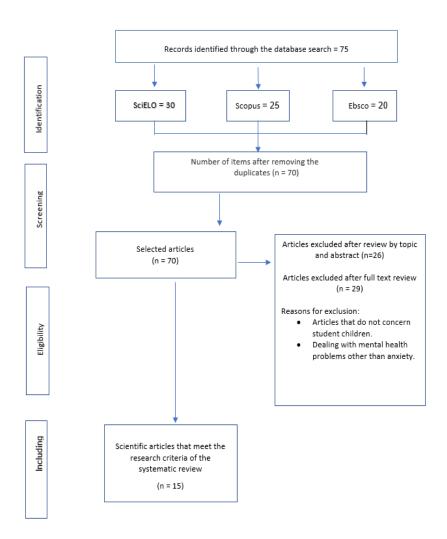


Figure 1. PRISMA model analysis unit selection flowchart (Coronel et al., 2020).

RESULTS

The search for information was carried out in the databases *EBSCO*, *SciELO*, *Scopus*, where a total of 75 research papers were found, which after going through the selection criteria, 15 articles were chosen (Table 1).

Table 1.*Choice of articles*

Database	Initial quantity	Final quantity
EBSCO	20	2
SciELO	30	2
Scopus	25	11
Total	75	15

Source: Own elaboration.

The coding process of the selected data was carried out, transferring them into a matrix with respect to the name of the article, its reference, year of publication, the population and sample studied, the instrument applied, the result of the study and the contribution achieved (Table 2).

Table 2. List of selected articles

	AUTHOR	TITLE	COUNT RY	POPULATI ON AND SAMPLE	INSTRUMENT	QUALIT ATIVE	QUANTIT ATIVE	CONCLUSIONS / RESULTS
1	(Espada et al., 2020)	Good Practices in Child and Adolescent Psychological Care before COVID-19	Spain	Children of China		X		Two factors that may be affected are loss of habits and routines and psychosocial stress, according to early studies reflecting on the psychological impact of COVID-19 quarantine.
2	(Lora-Muñoz & Moreno-García, 2016).	Negativism, anxiety, and social withdrawal as predictors of attention deficit hyperactivity disorder symptomatology	Spain	259 boys and 241 girls	Scale for the evaluation of ADHD. List of symptoms of oppositional defiant disorder in DSM-IV-TR State/Trait Anxiety Questionnaire in Children BAS. Socialization Battery 1, 2, 3.		X	The variables most implicated in the increase of attention deficit hyperactivity disorder are state anxiety, oppositional defiant symptoms and social withdrawal.

					Coopersmith Self-Esteem Inventory			
33	(Lagos et al., 2018)	Differences in school anxiety as a function of sex and academic year in a sample of Chilean elementary school students	Chile	1639 girls and 1573 boys and ages between 8 and 15 years.	School Anxiety Inventory for Primary Education		X	The results indicate that girls present significantly higher levels of anxiety than boys, although of a small magnitude. With respect to the academic year, statistically significant differences are observed between 4th and 5th grades, between 4th and 6th grades, and between 5th and 6th grades.
44	(Delgado et al., 2019)	School anxiety as an explanatory variable of cyberbullying in Spanish elementary school students	Spain	students (50.2% boys) in 5th and 6th grades of Primary Education.		X		Possible risk factors for being victimized, aggressor and aggressor-victimized, which makes possible a characterization of each role through school anxiety that allows improving the effectiveness of preventive strategies. The findings are discussed

							highlighting school anxiety as an explanatory variable of acting as a victim, aggressor and aggressor- victimized of cyberbullying, which can guide in the development of effective prevention programs.
55	(Velasco-Benitez et al., 2020).	Anxiety status and trait anxiety in Colombian schoolchildren and adolescents with and without functional gastrointestinal disorders	Colombi a	Children aged 8-18 years who were identified as having functional gastrointest inal disorders (FGIDs)	Screen for Child Anxiety Related Disorders- Parent/Child Report (SCARED-C/P)	X	About half of the children had a tendency to present anxiety states, with a predominance of female adolescents and with risk factors such as age, sex and having some FGD.
66	(Zuppardo et al., 2020).	The Impact of Dyslexia on Self- Esteem, Social- Emotional Behavior and Anxiety in Schoolchildren	Italy	Children and adolescents with dyslexia (n = 41) were	Multidimension al Anxiety Scale for Children (MASC)	х	Students with dyslexia showed a lower level of self-esteem and higher levels of behavioral problems than their peers without difficulties.

				compared			Although they presented
				to their			more anxiety in general, the
				peers in the			differences were significant
				same class			only in social and separation
				without			anxiety. Due to its
				difficulties			repercussions at school
				(n = 25).			level, it is urgent to consider
							measures to remedy the
							consequences associated
							with learning difficulties,
							working directly on the
							emotional dimensions
							affected and reducing the
							academic difficulties of
							these students, as well as
							reflecting on the didactic
							methodologies in the class
							group.
77	(Cervantes-	Resilience, anxiety,	Colombi	The sample	•	X	Children and youth
	Perea et al.,	poverty and	a	consisted	Children's		experiencing poverty have
	2019).	depression in		of 73	Anxiety Scale		an elevated rate of
		children in two		students,	(SCAS)		Depression and a high risk
		Colombian cities		aged 10-12			of Anxiety Disorders, which
				years old			at the same time can be
				(22			linked to substance abuse,

				females and 51 males), all of them				delinquency, suicide and other significant psychological disorders.
88	(Borgeaud et al., 2017).	Problems in separation from the theory of transitional phenomena in children diagnosed with separation anxiety disorder.	Chile			Case Study		The present investigation, supposes the existence of a relation between the problematic ones in the separation and the experience of the transitional thing in the dyad and contributes to the understanding of this relation from Winnicott's theory of the transitional
99	(Aguilar- Yamuza et al., 2019).	Relationship between parenting style and depression and anxiety in children between 3 and 13 years old	Spain	children (288 boys and 266 girls) between the ages of 3 and 13, together	Child and Adolescent Behavioral Assessment System (BASC), and parenting style according to the Parental Parenting		X	phenomena. Children with high anxiety scores tended to have parents with low levels of support, discipline and autonomy, together with a low level of satisfaction with parenting and role distribution in the mother. Finally, the usefulness of

				with their	Questionnaire		these results for the
				parents.	(PCRI-M) and		development of parenting
					different family		programs based on specific
					variables.		aspects of daily educational
							practice is discussed.
110	(Fernández-	Effectiveness of the	Spain	123	Transdiagnostic	X	The intervention
	Martínez et al.,	program Super		Spanish-	prevention		significantly reduced
	2019).	Skills For Life in		speaking	program		emotional symptoms of
		reducing symptoms		children	designed for		anxiety and depression.
		of anxiety and		recruited	children with		Significant improvements
		depression in young		from 10	symptoms of		were also found in
		Spanish children		schools.	anxiety and		symptoms of specific
					depression		anxiety disorders and in the
					based on Super		interference of anxiety in
					Skills for Life		the child's life. It is
					(SSL) cognitive-		therefore a valuable
					behavioral		resource for the early
					therapy.		reduction of anxiety and
							depression symptoms in
							young Spanish-speaking
							children.
111	(Ferrer et al.,	Relationship of	Spain	314	Childhood	X	Results confirmed that
	2018)	adolescent anxiety		adolescents	Anxiety and		perfectionism (socially
		and depression with		(145 boys	Depression		oriented and self-oriented)
		two transdiagnostic		and 169	Scale Revised;		and rumination (negative

		1 .		.1.	"D ' '			1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1
		mechanisms:		girls) aged	"Ruminative			rumination and reflection)
		perfectionism and		between 12	Responses			are associated with general
		rumination		and 17.	Scale" (RRS)			anxious and depressive
					and the			symptomatology and with
					"Perfectionism			disorder-specific symptoms.
					Scale for			The findings have relevant
					Adolescents and			implications for the design
					Children"			of prevention and early
					(CAPS).			intervention programs in
								childhood and adolescence
								within the framework of
								transdiagnostic cognitive
								behavioral therapy.
112	(Vaz et al.,	Behavior problems,	Brazil	38	Difficulties and		X	Correlation between
	2020)	anxiety, and social		preschooler	Difficulties			anxiety, behavioral
		skills among		s (52.6%	Questionnaire			problems and social skills
		kindergarteners		girls)	(SDQ),			was verified, reinforcing the
		C		,	Preschool			interdependence between
					Anxiety Scale			aspects of socioemotional
					(PAS) and			development. These
					Preschool Social			findings can subsidize
					Behaviors Scale			intervention proposals to
					(PKBS-BR).			promote pro-social
					(1122 211).			behaviors at school.
	(Martínez-	Effectiveness of	Spain			Systematic	>	These interventions may be

113	Escribano et al.,	mindfulness-based				review		effective in children and
	2017).	interventions for						adolescents with anxiety
		the treatment of						symptoms and/or disorders.
		anxiety in children						However, it is still a
		and adolescents: a						developing field, made up
		systematic review						of studies with multiple
								limitations, and therefore
								requires further research.
114	(Escalante-Izeta	Nutritional	Mexico	259 boys	Reynolds and		X	Participants who were not
	et al., 2016).	variables associated		and girls	Richmond's			overweight/obese presented
		with anxiety and		between	Manifest			greater satisfaction with
		body self-		eight and	Anxiety Scale			their body image (68.3%).
		perception in		12 years	(CMAS-R)			No differences were found
		Mexican children		old who				between BMI and total
		according to the		were not				anxiety, nor with each of its
		presence of		overweight				dimensions.
		overweight/obesity.		/obese vs.				
				326 who				
				were				
				overweight				
				/obese in				
				three				
				public				
				schools in				
				the State of				

				Mexico.			
115	(Álvarez-	Anxiety in the	Mexico	406	Does not	X	There is an association
	Villaseñor et al.,	presence of food in		schoolchild	indicate		between anxiety,
	2020).	schoolchildren in		ren from 8			socioeconomic level and
		Baja California Sur		to 13 years			nutritional status. Anxiety in
				of age			the presence of food was
							present in 54.7% of the
							cases.

The selected articles, as can be seen in Figure 1, where developed in the following countries Spain with 7 out of 15 articles chosen (Espada et al., 2020; Lora-Muñoz & Moreno-García, 2016; Delgado et al., 2019; Aguilar-Yamuza et al., 2019; Fernández-Martínez et al., 2019; Ferrer et al., 2018; and, Martínez-Escribano et al., 2017). Also articles from Colombia with 2 out of 15 articles

(Velasco-Benitez et al., 2020; and, Cervantes-Perea et al., 2019); Chile also with 2 out of 15 articles; also from Mexico with 2 out of 15 selected articles (Escalante-Izeta et al., 2016; (Álvarez-Villaseñor et al., 2020); finallythere are articlesfromItaly(Zuppardo et al., 2020), and Brazil (Vaz et al., 2020) with one article each.

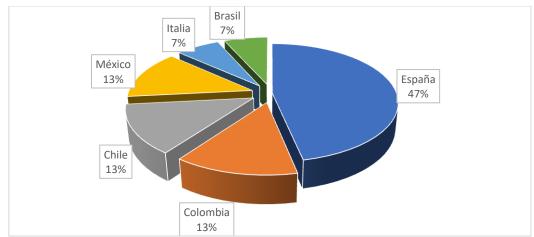


Figure 2. Sources of the selected articles.

Regarding the research approach, most of the studies correspond to quantitative studies with 11 of the 15 articles chosen (Lora-Muñoz & Moreno-García, 2016; Lagos et al., 2018; Velasco-Benitez et al., 2020; Zuppardo et al., 2020; Cervantes-Perea et al., 2019; Aguilar-Yamuza et al., 2019; Fernández-Martínez et al., 2019;

Ferrer et al., 2018; Vaz et al., 2020; Escalante-Izeta et al., 2016; Álvarez-Villaseñor et al., 2020). The qualitative papers are 2 of 15 selected articles (Espada et al., 2020) (Delgado et al., 2019); a systematic review paper (Martínez-Escribano et al., 2017) and a case study (Borgeaud et al., 2017)

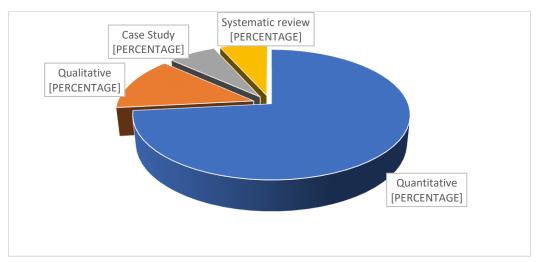


Figure 3. Focus of the selected articles

As for the types of instruments used, they were the Scale for the evaluation of ADHD. List of symptoms of oppositional defiant disorder in the DSM-IV-TR; Ouestionnaire of state/trait anxiety in children; BAS. Socialization Battery 1, 2, Self-Esteem 3. and Coopersmith (Lora-Muñoz Inventory & Moreno-García, 2016); the School Anxiety Inventory for Primary Education (Lagos et al., 2018); the Screen for Child Anxiety Related Disorders-Parent/Child Report (SCARED-C/P) (Velasco-Benitez et al., 2020); the Multidimensional Anxiety Scale for Children (MASC) (Zuppardo et al., 2020); the Spence Children's Anxiety Scale (SCAS) (Cervantes-Perea et al., 2019); the Behavioral Assessment System Children and Adolescents (BASC), and parenting style according to the Parental Parenting Questionnaire (PCRI-M) and different family variables (Aguilar-Yamuza et al., 2019); the Transdiagnostic Prevention Program designed for children with symptoms of anxiety and depression

based on Super Skills for Life (SSL) cognitive-behavioral therapy (Fernández-Martínez et al., 2019); the Revised Child Anxiety and Depression Scale: "Ruminative Responses Scale" (RRS) "Perfectionism the Scale and Children" Adolescents (CAPS) (Ferrer et al., 2018); the Difficulties and Difficulties Questionnaire (SDQ), Pre-School Anxiety Scale (PAS) and Pre-School Social Behaviors Scale (PKBS-BR) (Vaz et al., 2020); and, Reynolds and Richmond's Manifest Anxiety Scale (CMAS-R) (Escalante-Izeta et al., 2016).

DISCUSSION

Factors that could be considered as predictors of anxiety in children, especially, due to the psychological impact of COVID-19 quarantine, is the of habits and routines psychosocial stress, according to the first studies reflecting on this issue (Espada et al., 2020); and that could be reflected in attention deficit and hyperactivity (Lora-Muñoz & Moreno-García, 2016).

This problem affects in greater proportion, according to the studies reviewed in girls (Lagos et al., 2018; Velasco-Benitez et al., 2020); as well as in children in poverty, which at the same time can be related to the consumption of psychoactive substances, delinquency, suicide and other significant psychological disorders (Cervantes-Perea et al., 2019). Similarly, children with family cohesion problems and family dysfunctionality, have a tendency to suffer from anxiety (Borgeaud et al., 2017), as they also tended to present parents with low levels of support, discipline and autonomy, along with a low level of satisfaction with parenting and role distribution in the mother (Aguilar-Yamuza et al., 2019); behavioral problems and social skills, reinforcing the interdependence between aspects of socioemotional development (Vaz et al., 2020). As confirmed by Villaseñor et al. (2020), referring that socioeconomic level and nutritional status can also be considered predictors of anxiety in children.

In this sense, it is important to design prevention and early intervention programs in childhood and adolescence from the framework of transdiagnostic cognitive behavioral therapy (Ferrer et al., 2018); as well as to establish intervention proposals to promote prosocial behaviors at school (Escalante-Izeta et al., 2016). Although these interventions can be effective in children and adolescents with anxiety symptoms and/or disorders; however, it is still a developing field, formed by studies with multiple limitations, so it requires further

research (Martínez-Escribano et al., 2017).

CONCLUSIONS

Mental health is the state of well-being in which the individual realizes his or her capabilities, overcomes the normal stresses of life, works productively and fruitfully, and contributes something to his or her community; and, therefore, not merely the absence of disease or illness. Within the problem of mental health is school anxiety which is closely related to school phobia, considered as a serious difficulty to attend or remain in school regularly due to excessive and irrational fear associated with various school situations.

From the studies reviewed, it was found that among the factors that could be considered predictors of anxiety especially children, due to the psychological impact of the COVID-19 quarantine, is the loss of habits and routines and psychosocial stress, which would be affecting girls to a greater extent; in those who could be found in situations of poverty; in children with problems of family cohesion and family dysfunction; with parents with a low level of support, discipline and autonomy; the consumption of psychoactive substances, delinquency, suicide and other significant psychological disorders; in children with problems of family cohesion and family dysfunctionality; with parents with low support, of discipline autonomy; as well as those children in families with low socioeconomic status and poor nutritional status.

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