Instruments to identify psychosocial risk factors at work: a systematic review

Instrumentos para identificar los factores de riesgos psicosociales en el trabajo: una revisión sistemática

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Abstract

The human factor within organizations is exposed to different types of risks, especially those that cause damage to their physical and psychological health, which if not identified and treated in time can generate irreversible damage to them. In recent years, investigations have been carried out that address the subject, in which different instruments have been implemented to identify and evaluate this phenomenon, so the purpose of this systematic review article was to analyze the instruments that allow identifying the factors of Psychosocial risks at work (FPR) in Latin America. The information search included databases on the web, such as Redalyc, Dialnet, Scielo and ProQuest. Three people independently selected the articles for review, in a period from 2015 to 2020, where the methodological quality of each of them was evaluated, as well as the inclusion and exclusion criteria considered for the research. It was observed that in recent years different methods and instruments have been implemented to evaluate this phenomenon from different areas, so it is important to determine which are the optimal instruments to identify FPR in workers.

Psychosocial risk, Scale of psychosocial risk, Latin America

Resumen

El factor humano dentro de las organizaciones se encuentra expuesto a diferentes tipos de riesgos, sobre todo a los que generan daños en su salud física y psicológica, los cuales si no se identifican y tratan a tiempo pueden generar daños irreversibles en ellos. En los últimos años, se han realizado investigaciones que abordan el tema, en las que se han implementado diferentes instrumentos para identificar y evaluar dicho fenómeno, por lo que el propósito de este artículo de revisión sistemática fue analizar los instrumentos que permiten identificar los factores de riesgos psicosociales laborales (FRP) en América Latina. La búsqueda de información incluyó bases de datos en la web, tal como Redalyc, Dialnet, Scielo y ProQuest. Tres personas seleccionaron los artículos para su revisión de manera independiente, en un periodo de 2015 a 2020, donde se evaluaron la calidad metodológica de cada uno de ellos, así como los criterios inclusión y exclusión considerados para la investigación. Se pudo observar que en los últimos años se han implementado diferentes métodos e instrumentos para evaluar este fenómeno desde diferentes ámbitos, por lo que resulta importante determinar cuáles son los instrumentos óptimos para identificar los FRP en los trabajadores.

Riesgo psicosocial, Escalas de riesgo psicosocial, América Latina

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Introduction

In recent years, human resource management has become increasingly important, since it is people who generate competitive advantages for organizations.

However, despite the fact that the human factor has been considered a valuable resource for organizations and that some of the traditional risks have been reduced with attention to the safety of workers, other risks continue to affect their health, as it has generated an increase in new occupational diseases without taking adequate prevention, protection and control measures (International Labor Organization [ILO], 2013b).

Human resources are frequently exposed to various factors in their workplace and in their social environment, which have generated problems in their physical, mental and emotional health, such as excessive workloads, role ambiguity, lack of social support, work-family conflict, among others, which are known as psychosocial risk factors that affect the productivity of the organization (European Agency for Safety and Health at Work [EU-OSHA], 2020).

This requires that studies be carried out to identify and evaluate the psychosocial risk factors caused by the different changes that organizations face, in order to prevent such risks and promote healthy environments for workers, considering work interactions, conditions organizational and performance environment, in order to guarantee productivity and organizational growth (Muñoz, Orellano & Hernández, 2018).

This article includes aspects related to occupational psychosocial risk factors and the importance that attention and assessment of these risks have generated in Latin American countries, so the objective of this research was to carry out a systematic review to determine and analyze the instruments that make it possible to identify and assess psychosocial risk factors and take the necessary measures with respect to them.

Psychosocial risk factors

Psychosocial factors at work are not a new phenomenon, since they have always been present in organizations, but their importance had been put in the background due to the presence of other occupational hazards that are more visible in workers.

Their study has evolved since the crisis of the 1970s, when a new capitalist accumulation regime was established, and they have been officially considered since 1984 by the ILO (Moreno, 2011; Neffa, 2015).

However, due to the relevance that the subject of occupational health has acquired in recent years, the study of psychosocial risk factors has been increasing, since it is necessary to analyze the interactions that the individual has with the work environment, where they interact genetic, psychological, social components and circumstances that can affect the health and wellbeing of workers, since no person who works will be exempt from being affected by them (Rodríguez, 2009).

Currently, people are exposed to various damages generated by their jobs, such as stress, burnout, workplace violence, fatigue, sleep disorders, addictions, alcoholism, among others, so the psychosocial risks at work began to be object of concern in various parts of the world, beyond traditional approaches to occupational safety and health (Henry, 2017).

Psychosocial risk factors are those characteristics of working conditions that affect people's health, through psychological and physiological mechanisms called stress, such as their internal and external environment, work activities and activities organization conditions, which interact with the worker's capacities, needs, culture and personal situation outside of work, (Joint ILO / WHO Committee, 1984; National Institute for Occupational Safety and Health [INSST], nd; ILO, 2013a).

Sometimes, psychosocial risk factors are convenient for the development of work activities and for the quality of work life and personal development of workers, but in most cases, these factors are unfavorable and have harmful consequences for their health and for their physical and mental well-being (Ruiz, Pulla, Parra, Parra and Zamora, 2017).

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Among the effects generated by these factors, we can mention work overload, interpersonal conflicts, low levels of participation in company decisions, role ambiguity, job insecurity, as well as different mental and health disorders, such as alterations in the sleep, anxiety, depression, work accidents, absenteeism and occupational diseases (Gil-Monte, López-Vílchez, Llorca-Rubio and Sánchez-Piernas, 2016).

However, not all workers react in the same way to the psychosocial risk factors to which they are exposed, and this will depend on the perceptions and experiences of each of them (Gil-Monte, 2012), as well as their own skills to handle the work situations they perform and the environment that surrounds them (Rodríguez, 2009).

It is inevitable that workers are exempt from various occupational risks, so it is necessary for organizations to seek and guarantee their protection and safety, in order to avoid damage to the health of personnel, as well as damage to the organization.

Therefore, it is necessary to identify and evaluate the psychosocial risk factors that negatively influence productivity and well-being at work, in order to design and implement strategies to counteract their negative effects, as well as strategies that allow satisfying the organizational and personal needs and objectives of workers (Muñoz, Orellano and Hernández, 2018).

Identification and evaluation of psychosocial risk factors in Latin America

Different international organizations such as the ILO, the World Health Organization (WHO), the EU-OSHA, the Organization for Economic Cooperation and Development (OECD), among others, have been concerned about the psychosocial aspects generated by work in people, classifying them as one of the world priorities to be treated, since psychosocial factors and stress generate negative effects on health, such as musculoskeletal disorders, metabolic dysfunctions, cardiovascular, physical and mental problems (Leka and Jain, 2010).

However, in Latin American countries, issues related to occupational safety and health have received little attention, since developed countries have an advantage of between 20 and 40 years over the study and attention to factors of psychosocial risks, while in Latin America in the last 10 years there have been advances in legal issues, such as rules, laws and regulations, as well as some academic research that has implemented standardized questionnaires, which are developed or adapted in countries such as Colombia, Peru, Chile, Mexico and Argentina (Juárez-García, 2015).

Such is the case of Mexico, that until October 23, 2018, the need to identify, evaluate and control psychosocial risk factors was regulated, through the Official Mexican Standard NOM-035-STPS-2018, which includes strategies for the identification, analysis and prevention of psychosocial risk factors, workplace violence, and the promotion of a favorable organizational environment (Ministry of Labor and Social Security [STPS], 2019).

In Colombia, psychosocial risk factors are regulated by legal statutes and the Ministry of Social Protection of Colombia, so the evaluation of these factors is based on Resolution 2646 of 2008, which was issued in the same year, as well as the psychosocial risk battery, which is an instrument designed by the Pontificia Universidad Javeriana and the Ministry of Social Protection of Colombia (Salamanca, Pérez, Infante and Olarte, 2019), with which it is possible to identify, evaluate, prevent, intervene and monitor permanently exposing people to psychosocial risk factors at work, as well as determining the origin of pathologies caused by occupational stress (Ministerio de la Protección Social, 2008).

In Argentina the situation is different, since the psychosocial risks generated at work have not been taken into due importance by the corresponding authorities, since these aspects are considered minor damages and are not mentioned or recognized as such in the legislation on the matter. risks at work, but is limited to risks that damage the physical health of workers, without considering the psychic and mental dimensions (Neffa, 2015, 2017).

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These are just some countries in Latin America that have deficiencies in the prevention and assessment of psychosocial risk factors, which until a few years ago began to raise awareness of their importance to ensure the wellbeing of workers, therefore The regulatory policies of the countries should be the basis for organizations to manage these factors, through the different instruments that serve to diagnose and evaluate them (Potter, O'Keeffe, Leka, Webber, and Dollard, 2019).

Methodology

The methodology of this research is based on a review of the scientific literature, in relation to the instruments to identify the factors of occupational psychosocial risks, taking into account the inclusion criteria, such as articles in Spanish published in scientific journals in a period of 2015 to 2020, which include instruments to identify psychosocial risk factors at work, with samples from Latin American countries.

The search and review chain procedure was carried out by three people independently, in the period from 2015 to 2020, in databases such as Redalyc, Dialnet, Scielo and ProQuest, which are databases with scientific articles in Spanish, with publications from Latin America.

To carry out the initial search of the articles, terms such as "psychosocial risk", "psychosocial risk scales" and "Latin America" were used, which were entered into the databases directly or in combination, in order to find publications relevant to the content of this review, within the established search period (Figure 1).

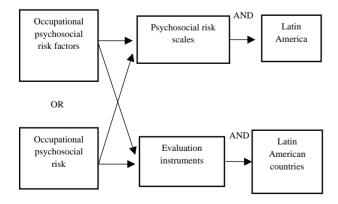


Figure 1 Keywords and Boolean operators used to search for information

Selection of documents

The articles were selected through a first filter, in which the following inclusion criteria were considered: a) articles published in scientific journals in a period from 2015 to 2020, b) publications of studies carried out with samples from Latin American countries , c) articles published in Spanish, d) articles presenting the research instrument implemented, e) articles that used instruments to identify psychosocial risk factors at work and f) articles with a quantitative research approach.

The following exclusion criteria were established: a) theses, books, abstracts of congresses and presentations, b) publications from countries other than Latin America, c) theoretical articles, d) duplicate publications, and e) articles with a research focus qualitative and mixed.

As a second filter, a manual review of the selected articles was performed, to verify that they met the specified criteria and that they were relevant to the research, which was carried out through meetings between the reviewers.

In this search, all those articles that were repeated in the selected databases, theoretical articles and articles that did not have a quantitative research approach, as well as those articles that did not report the psychosocial risk scales analyzed were excluded (Figure 2).

Finally, information was obtained from each of the articles, such as the title, authors, year of publication, country, study design, as well as the scales and main psychosocial risk factors.

With this information, we proceeded to analyze the instruments implemented to assess psychosocial risk factors in Latin American countries.

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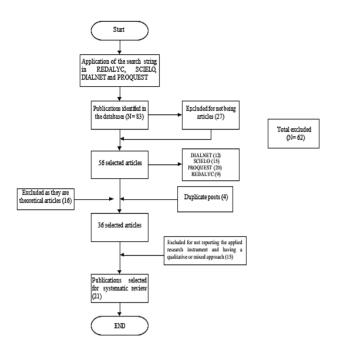


Figure 2 Selection process of the articles included in the systematic review

Results

The articles selected for the present systematic review responded to the indicated inclusion criteria, resulting in a total of 21 articles (Table 1).

The prevailing psychosocial factors were double presence (33.3%), followed psychosocial demands (28.6%), work conditions (23.8%), and workload (19%).

Code/ Base A1 DIALNET	Psychosocial factors and symptoms of occupational stress in workers in the production area of a metal-mechanic company in El Salto, Jalisco	Author/ Country Aranda, Mares, Ramírez and Rojas (2016). Mexico	Main FRP found Labor requirements (90.7%), Workload (86.7%), Job role and career development (77.3%), Workplace
A2 DIALNET	Diagnosis of psychosocial risk factors in the workplace in the company Miramar in the municipality of Maicao in the Guajira	Muñoz, Pitre and Amaya (2017). Colombia	(70.7%) and task characteristics (66.7%). Role Clarity (25.67%), Training (41.67%) and Participation and Change Management (16.67%) are at high risk.
A3 PROQUEST	Identification of psychosocial risk factors in a high complexity clinic	Bobadilla, Garzón and Charria (2018). Colombia	Work demands and control over work; at the extralaboral level: Time away from work, economic situation of the family group, characteristics of the home and its environment, and home-work displacement.

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Code/ Base A4 REDALYC	Psychosocial factors at work and their relationship to the dual presence of women workers in primary health care	Author/ Country Toia, Mattos, Figueroa, Aguilar, Chavez , Del Carpio, Gamarra, García, Miranda, Romero and Muñoz (2018). Peru	Main FRP found Double presence (93.9%), Psychological requirements (59.2%), Active work (93.2%), Social support (100%)
A5 REDALYC	Psychological well- being, stress and psychosocial factors in workers of government institutions in Jalisco, Mexico	Saldaña, Polo, Gutiérrez and Madrigal (2020). Mexico	Control, autonomy and workload, conditions in the work environment and limited training. The FRPS were related to Stress and Burnout.
A6 SCIELO	Psychosocial risk factors and perceived stress in university teachers	Tacca and Tacca (2019). Peru	Stress is positively related to psychological demands, active work, double presence and compensation.
A7 SCIELO	Psychosocial risk factors and job satisfaction in seasonal workers in Chile	Palomo, Carrasco, Bastías, Méndez and Jiménez (2015). Chile	The factors Dual presence, and Active work and development possibilities had a high risk level. FRPs are negatively associated with job satisfaction.
A8 SCIELO	Diagnosis of the perceptions of psychosocial risk factors in the work of personnel in a manufacturing industry	Luna-Chávez, Anaya-Velasco and Ramírez- Lira (2019). Mexico	Work Content (55.2%) and Work Context (40.2%), making them likely psychosocial risk factors for Psychic Attrition.
A9 PROQUEST	Psychosocial risk in the nursing staff Emergency service at the University Hospital of Cartagena	Bustillo- Guzmán, Rojas- Meriño, Sánchez- Camacho, Sánchez-Puello, Montalvo- Prieto and Rojas-López (2015). Colombia	High levels of risk in Personnel Management (98%), Task Content (75%) and Organisation of Working Time (56.3%)
A10 REDALYC	Psychosocial factors, psychological stress and burnout in nursing: a model of trajectories	Brito-Ortíz, Juárez-García, Nava-Gómez, Castillo-Pérez and Brito-Nava (2019) Mexico	We found high levels of social support, labor control, and enthusiasm for work; moderate degrees of psychological demand and psychological stress; and low levels of psychological burnout, indolence, and guilt.

Code/	Title	Author/	Main FRP
Base A11 PROQUEST	Psychosocial factors and Burnout syndrome in general practitioners in Tepic, Nayarit (Mexico)	Country Aranda, Barraza, Romero, Quiñonez, Ceniceros, González and Esparza (2015). Mexico	Essence of the task (46.4%), Social interaction (33%) and lack of accomplishment (26.8%)
A12 REDALYC	Psychosocial risk factors in the workplace affect teachers' mental health depending on the type of facility's funding	Caceres, Campillay, Cvitanic and Bargsted (2015). Chile	Psychological requirements (53.31%), Double presence (48.36%) and Active work and development possibilities (33.15%).
A13 PROQUEST	Psychosocial risks, occupational stress and burnout syndrome in university workers at a bioanalysis school	Seijas-Solano (2019). Venezuela	Work rhythm (80.8%), Insecurity in working conditions (54.9%), Work stress (3%) and burnout syndrome (5%) in the most unfavorable situation. Double presence (52.7%) and Role conflict (38.9%), intermediate situation.
A14 PROQUEST	The double presence in female workers: balance between work and family life	Ruiz, Pullas, Parra and Zamora (2017). Ecuador	Double presence (54.25%), quantitative requirements (45.78%) and sensory requirements (74.39%).
A15 PROQUEST	Prevalence of Burnout Syndrome in teachers: Factors associated with the labor bonding statute in Colombia	Posada, Molano, Parra, Brito and Rubio (2019). Colombia	Working overtime, lack of communication spaces with the bosses, inadequate salary and lack of support from the bosses.
A16 REDALYC	Psychosocial, burnout and psychosomatic risks in public sector workers	Uribe-Prado (2020). Mexico	Performance recognition deficiente (26.9%), pain disorders (26.2%), workplace violence (24.9%), long hours, adverse leadership and work relationships deficiente (24.6%)
A17 SCIELO	Psychosocial risk factors and perceived stress in workers of an electricity company in Chile	Güilgüiruca, Meza, Góngora and Moya (2015). Chile	Social support (34.2%), psychological demands (32.2%), active work (31.5%), compensation (34.2%) and double presence (44%).

Code/	Title	Author/	Main FRP	
Base		Country	found	
A18 SCIELO	Teaching stress and psychosocial factors in teachers in Latin America, North America and Europe	Alvites- Huamaní (2019). Peru	There is a significant correlation between teacher stress and psychosocial factors, with the level of stress due to anxiety, depression and maladaptive beliefs prevailing.	
A19 SCIELO	Psychosocial factors and Burnout syndrome in academics from a public university in Mexico	Villamar, Juárez, González and Osnaya (2019). Mexico	Social problems (40.9%), Organizational problems (34.8%), Burnout (33.6%)	
A20 DIALNET	Psychosocial factors that influence work behavior according to the processes of administrative management and human talent presented by employees of the company Distraves S.A. de Cúcuta	Jaimes, Márquez and Pernía (2015). Colombia	Lack of training; conditions in their jobs and availability of resources.	
A21 PROQUEST	Psychosocial factors and psychic wear and tear in the work environment	Carrión-García, Hernández- Gracia (2017). Mexico	Harmful Working Conditions in Working Context (13.6%), Working Content (22.1%), Individual Factors (11.4%) and Perceived Psychic Wear (11.4%)	

Table 1 Description of the articles selected for the systematic review

100% of the studies have a quantitative approach; however, there is a variation in the methodological aspects to assess psychosocial risk factors, where 66.7% is descriptive, 52.4% non-experimental, and 76.2% cross-sectional (Table 2).

The number of participants in the research ranged from 16 to 597, and included a total of 3,608 workers from companies in Latin American countries.

Regarding the sociodemographic data, only four investigations (19%) did not report the gender of the participants (studies A3, A15, A18 and A20), while in seven studies the sample of the male gender was larger (33.3%), and in 10 studies, the female gender sample prevailed (47.6%).

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Most of the studies were conducted in Mexico (38%), followed by Colombia (24%), Peru (14%), Chile (14%), Ecuador (5%) and Venezuela (5%). Of the selected investigations, the sector in which more inquiries have been made about psychosocial risk factors is education (29%), followed by the health sector (24%), while the energy sector (5%) and services (5%) are poorly studied.

Code.	Sample	Sector	Design	% Н	% M
A1	150 workers	Industrial	Descriptive,	68%	32%
A2	50 technicians,	Services	transversal Non-	80%	20%
	assistants and operators		experimental , descriptive, transversal		
A3	183 workers	Sanitary	Non- experimental , descriptive, transversal	-	-
A4	142 workers in health centers and posts	Sanitary	Non- experimental , descriptive, cross- sectional, relational	-	100%
A5	121 workers from a government institution	Of the administratio n	Non- experimental , correlational , cross-	44%	56%
A6	117 university teachers	Educational	sectional Correlational and transversal	52%	48%
A7	106 workers of a fruit trading and exporting company	Commercial	Observation al, transversal	=	100%
A8	199 workers in a manufacturing industry.	Industrial	Non- experimental , cross- sectional, descriptive, correlational	39.2%	60.8%
A9	16 nurses and 64 nursing assistants	Sanitary	Descriptive	10%	90%
A10	357 nurses	Sanitary	Cross- sectional, observationa l, analytical	2%	98%
A11	97 general practitioners	Sanitary	Cross- sectional, analytical	50.5%	49.5%
A12	340 teachers	Educational	Non- experimental , descriptive, comparative	40%	60%
A13	75 university professors	Educational	Descriptive, transversal	14.7%	85.3%
A14	67 employees of a textile company	Industrial	Descriptive, transversal	32.8%	65.7%
A15	54 teachers from an Educational Institution	Educational	Correlational , descriptive	-	1
A16	305 Mexican workers of a human rights institution	Of the administration	Descriptive, Pearson correlation analysis, structural equations.	50.8%	49.2%
A17	292 workers	Energetic	Non- experimental , descriptive, correlational	82.5%	17.5%
A18	81 basic and higher education teachers from Latin America, North America and Europe	Educational	Non- experimental , descriptive, correlational , cross- sectional	-	-
A19	247 professors and researchers	Educational	Non- experimental , cross- sectional, correlational	49.4%	50.6%
A20	12 employees of the company Distraves S.A.	Commercial	Non- experimental , descriptive, transversal	-	-
A21	597 workers of a company in the industrial sector in Jalisco (Mexico)	Industrial	Non- experimental , cross- sectional	57.8%	37.4%

Table 2 Description of the gender data, sample and design of the selected studies

ISSN-On line: 2524-2067 RINOE® All rights reserved. The instruments for data collection varied depending on the objective and size of the sample, where 20 scales were identified to identify and evaluate the psychosocial risk factors (Table 3).

According to the data, the most widely implemented instrument is the ISTAS21, in its short and medium version (38.1%), which was designed by the Trade Union Institute of Work, Environment and Health (2002), and has 5 dimensions, with each of them.

Likewise, the Battery of instruments for the evaluation of psychosocial risk factors was implemented in 14.3% of the selected studies, an instrument designed by the Pontificia Universidad Javeriana and the Ministry of Social Protection of Colombia, which has different questionnaires to identify said factors (Ministry of Social Protection, 2010).

Codo	Instrument	Volunted dimensions
Code.	Instrument	Valuated dimensions
A1	- Symptomatic	- 18 items of symptoms associated
	Stress Scale	with stress (somatic,
	- Scale of	physiological or emotional
	Psychosocial	nature).
	Factors at Work	- Conditions of the workplace,
		Workload, Content and
		characteristics of the task, Labor
		demands, Labor role and career
		development, Social interaction
		and organizational aspects and
		Performance compensation.
A2	- Battery of	- Work demands (Quantitative
	instruments for	demands, Mental load demands,
	the evaluation	Emotional demands, Demands of
	of psychosocial	responsibility of the position,
	risk factors	Environmental and physical
	(Ministry of	effort demands, Demands of the
	Labor and the	working day, Consistency of the
	Javeriana	role Influence of the work
	University):	environment on the extra work).
	Questionnaire	 Control (Control and autonomy
	of intra-labor	over work, Opportunities for
	psychosocial	development and use of abilities
	risk factors	and skills, Participation and
	(form B)	change management, Clarity of
		role, Training).
		 Leadership and social relations at
		work (Characteristics of
		leadership, Social relations at
		work, Performance feedback,
		Relationship with collaborators).
		- Reward (Recognition and
		compensation Rewards derived
		from belonging to the
		organization and the work that is
		done).
A3	- Battery of	- Form B: Demands of work,
	instruments for	Control, Leadership and social
	the evaluation	relations at work and Reward,
	of psychosocial	described in publication A2.
	risk factors	- Non-work questionnaire: Time
	(Ministry of	away from work, Family
	Labor and the	relationships, Communication
	Javeriana	and interpersonal relationships,
	University):	Economic situation of the family
	Questionnaire	group, Characteristics of the
	on intra-	home and its environment,
	occupational	Influence of the non-work
	psychosocial	environment on work and Home-
	risk factors	work-home movement.
	(form B) and the	
	Questionnaire	
	on Non-	
	occupational	
	Psychosocial	
	Risk Factors.	
	1 400000	
	1	

Code.	Instrument	Valuated dimensions
A4	ISTAS 21	- Psychological demands
		(cognitive demands, quantitative demands, sensory demands,
		emotional demands and demands
		to hide emotions).
		- Active work (Development
		possibilities, Integration in the
		company, Control over working time, Sense of work, Influence on
		general work conditions and
		Influence on specific work
		conditions).
		- Social support in the company
		(Clarity of role, Conflict of role, Quality of leadership,
		Possibilities of social
		relationship, Quality of
		relationship with superiors and
		Quality of relationship with colleagues).
		- Compensations (Estimates,
		Insecurity regarding the
		conditions of the contract and
		Insecurity regarding the
		conditions of the work performed).
		- Double presence (Concerns about
		housework, Burden of
		housework).
A5	- FRP: (NOM-035-	- Conditions in the work
	STPS) (Campa, 2018), in the	environment, Workload, Lack of control over work, Working
	revised version by	hours, Interference in the work-
	Almirall, et al.	family relationship, Leadership,
	(2018).	Work relationships and Violence.
	- Shackelton's	 Extrinsic effort and reward.
	Reward-Effort Imbalance	
	Questionnaire,	
	Spanish Version	
A6	- ISTAS 21 short	- Dimensions mentioned in
	version.	publication A4.
	- PSS14 Perceived	- Perceived stress, Family and
	Stress Scale, Mexican	friend support, Hamilton Depression, Depressive
	adaptation	symptomatology and Violence
	1	and severity index.
A7	- ISTAS21	- Dimensions mentioned in
	- Questionnaire S10 / 12	publication A4 Satisfaction with the benefits
	510 / 12	received, Satisfaction with the
		physical environment of the
		company and Satisfaction with
A8	- Battery for the	supervision Work Context (Culture of the
Ao	- Battery for the study of	organization and management,
	Psychosocial	Role or role in the organization,
	Conditions of	Interrelation of work with family
	Work (CTCPS-	and social problems and
	MAC), validated in a Latin	Interpersonal relations at work) Work Content (Workload and
	American	rhythm, Work environments,
	population	Equipment and physical agents,
	(Colombia,	and Conceptions of job tasks).
	Ecuador, Mexico, Peru and	- Individual Factors (Psychic risk
	Venezuela) by a	buffers, Company characteristics and Personal characteristics).
	group of experts	- Psychic Burnout (Subjective
	8 - 1 - 1 - 1	symptoms and health disorders -
		Psychological states- Emotional
		cognitive response, Subjective
		symptoms and health disorders - Psychological states- Behavioral
		response and Subjective
		symptoms and health disorders -
		Psychological states-
A9	- Diagnosis of	Physiological response). - Content of the task, Human
ΛJ	- Diagnosis of Psychosocial	relations, Organization of work
	Factors	time and Personnel management.
		-
A10	- Perceived Stress Scale	 Favor of control and loss of control.
	- Job Content	- Psychological demands, Use of
	Questionnaire	skills, Decision authority, Social
	- Questionnaire for	support from colleagues and
	the Evaluation of	Social support from the boss.
	Burn-Out Syndrome	 Illusion for work, mental exhaustion, indolence and guilt.
	Syndrome	canaustron, muoience and gunt.
	Í.	i .

Article

Code.		Instrument		Valuated dimensions
A11	-	Guide for the	-	Emotional exhaustion,
		identification of		depersonalization and decreased
		psychosocial		personal fulfillment at work.
		factors of the Mexican Institute		
		of Social Security		
	-	Scale of "Maslach		
		Burnout		
A12	-	Inventory (MBI)" ISTAS 21	_	Dimensions mentioned in
7112	_	DASS 21		publication A4.
	-	MBI scale	-	Depression, anxiety and stress.
			-	Emotional exhaustion,
				depersonalization and decreased personal fulfillment at work.
A13	-	ISTAS21,	-	Dimensions mentioned in
		medium versión		publication A4.
A14	-	ISTAS21, short	-	Dimensions mentioned in
A15		versión Battery of		publication A4. Communication with superiors,
AIS	_	instruments for	_	Sufficient salary, Working
		the evaluation of		overtime, Social recognition,
		psychosocial risk		Absences and penalties, Support
		factors (Ministry of Labor and the		from superiors, Pauses during the day, Work evaluation, Tasks
		Javeriana		according to the teaching
		University).		profession, Relationship with
				colleagues, Working hours, Union membership and
				Union membership and Opportunities training.
A16	-	Occupational	-	Emotional exhaustion,
		burnout and		Depersonalization, Achievement
		psychosomatic manifestations		dissatisfaction, Sleep disorders, Pain disorders, Gastrointestinal
		were measured		disorders, Psychoneurotic
		with the Uribe-		disorders, Anxiety indicator and
		Prado EDO scale		Depression indicator.
	_	(2008) Standard 035	-	Recognition of poor performance, Work violence, Long working
		Scale (Reference		hours, Pain disorders, Emotional
		Guide III; STPS,		burnout, Adverse leadership,
		2018)		Poor work relationships, Work-
				family interference, Sleep disorders, Anxiety indicator,
				Achievement dissatisfaction,
				Depression indicator, Disorders
				Gastrointestinal, Depersonalization and
				Depersonalization and Psychoneurotic Disorders.
A17	-	ISTAS21, short	-	Dimensions mentioned in
		version		publication A4.
	-	Perceived Stress Scale	-	Unpredictability, Uncontrollability, Overload, and
		Scarc		direct questions about
				experienced stress levels.
A18	-	Questionnaire on	-	Workplace conditions, Workload,
		Psychosocial Factors in		Content and characteristics of the task, Labor demands, Academic
		Academic Work		role and career development,
				Social interaction and
				organizational aspects and Performance compensation.
A19	 -	Online battery	-	Social and organizational
		adapted from the		problems, Excessive working
		questionnaire on		hours, Insufficient spaces and
		Psychosocial Factors of		materials, Problems with students, Dissatisfaction with
		Academic Work		financial reward, Mental and
		(FPSIS)		physical effort and Biochemical
	-	Questionnaire for the Evaluation of		risks.
		the Evaluation of Burn-Out	-	Illusion for work, Psychic exhaustion, Indolence, Guilt.
		Syndrome for		, madence, Guin.
		Education		
		Professionals		
		(CECOT DE)	1	
A20	_	(CESQT-PE) ISTAS 21	-	Dimensions mentioned in
A20	-	(CESQT-PE) ISTAS 21	-	Dimensions mentioned in publication A4.
A20 A21	-	ISTAS 21 Battery for the	-	publication A4. Dimensions mentioned in study
	-	Battery for the study of	-	publication A4.
	-	ISTAS 21 Battery for the	-	publication A4. Dimensions mentioned in study
	-	Battery for the study of psychosocial	-	publication A4. Dimensions mentioned in study

Table 3 Scales to identify and evaluate Psychosocial Risk Factors in selected studies

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Conclusions

In organizations, people are the most important resource; However, they are exposed to different risks that generate health problems, especially those that damage their mental health, known as psychosocial risk factors, so it is necessary to incorporate processes and strategies that promote their physical and mental well-being. through the implementation of instruments that allow identifying and evaluating the influence of these factors, in order to eliminate or reduce them (Muñoz, Orellano and Hernández, 2018).

The review and analysis carried out in this work have made it possible to know the different scales that have been designed to identify and evaluate the psychosocial risk factors at work, where in recent years their study has become more relevant, since norms, laws have been implemented and regulations to regulate and oblige companies to analyze and evaluate these factors.

However, one of the findings found in this research revealed that the identification and evaluation of psychosocial risk factors is still deficient, since so far there are no relevant investigations in many of the Latin American countries, since they have not been detected in the search, and most of the articles excluded were for having a merely theoretical approach, so the corresponding authorities should raise awareness about the importance of addressing these risks in a timely manner before they negatively influence workers.

Although there are different scales for the study of these factors, the best known and implemented are the ISTAS21 (38.1%) and the Battery of instruments for the evaluation of psychosocial risk factors (14.3%), which are versions that can be applied in Spanish-speaking countries; However, it does not mean that they are adequate to apply in all investigations, since there is a variety of instruments that can be chosen, depending on the factors to be investigated.

The review of the selected studies confirms the presence of psychosocial risk factors in workers from different sectors of Latin American companies, prevailing factors of double presence (33.3%), psychosocial demands (28.6%), as well as the conditions (23.8%) and workload (19%), which can be reflected not only in work errors, but also in work accidents, in the development of work stress and in diseases that can even lead to death (Moreno and Báez, 2010). Psychosocial risk factors generate negative impacts on personnel regardless of gender, also influencing their quality of life, as well as the productive conditions of the organization, so it is important to ensure the physical and mental well-being of workers (Cobo, Muñoz, Martos, Carmona, Pérez, Cirici and García-Parés, 2010). Ultimately, such risks must be prevented and healthy environments created, taking into work interactions, organizational conditions and other factors that influence the performance of workers, in such a way that productivity and growth of the company can be guaranteed.

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