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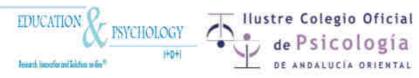
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Teacher motivation, work satisfaction, and positive psychological capital: A literature review

João Viseu¹, Saul Neves de Jesus², Claudia Rus³, & José M. Canavarro⁴

Portugal/Romania

Correspondence: João Nuno Ribeiro Viseu. Research Centre for Spatial and Orgnaizational Dynamics, University of Algarve, Campus de Gambelas – Building 9, 8005-139 Faro, Portugal. E-mail: joaonrviseu@gmail.com

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Abstract

¹ Research Centre for Spatial and Organizational Dynamics, University of Algarve, Faro

² Research Centre for Spatial and Organizational Dynamics, University of Algarve, Faro

Department of Psychology, Babes-Bolyai University, Cluj-Napoca
 Faculty of Psychology and Education Sciences, University of Coimbra, Coimbra

Joao Viseu et al.

Teacher motivation is vital for the educational system. For teachers to be motivated

their work satisfaction and positive psychological capital are crucial. The state-of-the-art on

teacher motivation requires a literature review regarding the studies that relate teacher motiva-

tion and the abovementioned constructs. In this paper, through electronic databases, the pub-

lished studies between 1990-2014 about these issues were identified. A total of 43 studies

were obtained. The main conclusions were the following: (a) 2012 was the year with more

publications (n = 7; 16.28%); (b) quantitative methodologies (n = 40; 93.02%) and self-report

questionnaires (n = 43; 89.59%) were the dominant methodology and instrument type; and (c)

work satisfaction was the most studied concept with teacher motivation (n = 42; 97.67%). Our

results underline the importance of work satisfaction on teacher motivation and emphasize the

need to realize more studies on the relationship between teacher motivation and positive psy-

chological capital.

Keywords: literature review, positive psychological capital, teacher motivation, work

satisfaction

Reception: 10.26.15 *Initial acceptance: 11.05.15* Final acceptance: 06.25.16 Motivación docente, satisfacción en el trabajo y capital psicológico positivo: una revisión

Resumen

La motivación docente es vital para el sistema educativo. Para que los profesores estén

motivados, su satisfacción laboral y el capital psicológico positivo son cruciales. El estado del

arte de la motivación docente necesita una revisión de la literatura sobre los estudios que rela-

cionen la motivación de los profesores y los constructos mencionados. En este artículo, a tra-

vés de bases de datos electrónicas, se identificaron los estudios publicados sobre estos temas

entre 1990-2014. Se encontró un total de 43 estudios empíricos. Las conclusiones principales

fueron las siguientes: (a) 2012 fue el año con más publicaciones (n = 7; 16.28%); (b) la meto-

dología cuantitativa (n = 40; 93.02%) y los cuestionarios auto-cumplimentados (n = 43;

89.59%) fueron la metodología y tipo de instrumentos predominantes; y (c) la satisfacción

laboral fue el concepto más estudiado con la motivación docente (n = 42; 97.67%). Nuestros

resultados apuntan a la importancia de la satisfacción laboral para la motivación docente y

enfatizan la necesidad de realizar más estudios sobre la relación entre la motivación docente y

el capital psicológico positivo.

Palabras Clave: revisión de la literatura, capital psicológico positivo, motivación docente,

satisfacción laboral

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Introduction

Work motivation is one of the most important constructs in psychology, being largely studied by academics and practitioners (Gomes & Borba, 2011). According to Gomes and Borba (2011), this construct is present in all work contexts, for example in education. In this context, one concept - teacher motivation - is a decisive factor for school success (Jesus & Lens, 2005). Several studies (e.g., Cardelle-Elawar, Irwin, & Lizarraga, 2007; Santisi, Magnano, Hichy, & Ramaci, 2014) underlined that this concept is crucial for student motivation and school functioning. A review of Jesus (2003), on this subject, evidenced that the majority of studies did not present a solid theoretical approach and the main addressed topics were the salary incentives, premises also corroborated by the work of Mueller and Hanfstingl (2010). In turn, Addison and Brundrett (2008) argued that teacher motivation is undervalued, in terms of research, comparatively to student motivation. Despite this situation, numerous aspects point to the importance of teacher motivation. Teachers have great influence on student motivation, especially because of the: (a) quality of teaching; (b) student performance; (c) class well-being; (d) improvement of students' self-efficacy beliefs; and (e) development of the teacher-student relationship (Santisi et al., 2014). In terms of school functioning, teachers are crucial in the implementation of educational policies (Jesus, 1996). In sum, teachers are fundamental in classroom and school management. Thus, it is important to address the constraints that affect these professionals and contribute to their demotivation.

A meta-analysis of Aloe, Shisler, Norris, Nickerson, and Rinker (2014) demonstrated that the incidence of burnout in teachers is high and considered as an international problem. A study of Jesus (2003) emphasized that teaching, in comparison with other occupations, presented higher distress levels. The emergence of malaise factors is related with several aspects, such as: (a) student misbehavior; (b) high workload; (c) relationship with school staff; (d) work intensity; and (e) extended work schedule (Aloe et al., 2014; Yu, Wang, Zhai, Dai, & Yang, 2014). These aspects have contributed to an increase of turnover rates, an indicator of demotivation. Jesus (1996) registered that in Portugal more than 50 percent of teachers desired to leave their profession, in 2011 Jesus and colleagues obtained analogous results in two different samples of teachers (Brazilian and Portuguese). Lambert and McCarthy (2006) found, in the United States of America, that the majority of teachers abandoned their profession after the first five years of work. A report of the Organisation for Economic Co-operation and Development (OECD) (2005) registered similar results.

Given the variety of work-related aspects that affect teachers and the malaise factors that emerge from these situations, it is crucial to elaborate a review on the studies about teacher motivation. Previous works (e.g., Aloe et al., 2014; Jesus, 2003) focused on variables related to the teacher itself (e.g., distress and burnout). However, few studies have addressed the influence of work attitudes and positive psychology constructs on teacher motivation, essential aspects in the promotion of work motivation. To accomplish this goal two variables were selected, work satisfaction and positive psychological capital (PsyCap).

Judge and Kammeyer-Mueller (2012) verified that work satisfaction is a fundamental construct for organizations, being defined as an evaluative process regarding one's working conditions and the profession itself. Several authors (e.g., Dalal, Baysinger, Brummel, & Le-Breton, 2012) affirmed that work satisfaction is the most important indicator of an individual's posture in a work context and is closely related with work motivation. Vieira and Jesus (2007) underlined that in teaching work satisfaction is a predictor of professional motivation. According to Hongying (2007), the satisfaction of teachers is based on the tasks performed and work environment, satisfied teachers present greater enthusiasm and psychological health. From the factors that promote satisfaction, interpersonal relations with managers and colleagues, and the work itself assume a significant relevance, in opposition salary issues, lack of professional development opportunities, work conditions, student behavior, and work-related stressors (e.g., extended schedule and work load) cause teacher dissatisfaction (Hongying, 2007). Furthermore, satisfied teachers are also more motivated, thus contributing to a better classroom and school functioning, which will facilitate the achievement of schools' objectives (Vieira & Jesus, 2007). Due to the importance of this relationship, it is essential to analyze the studies that relate teacher work motivation and satisfaction.

Compared to physical, structural, and financial resources, employees as human resources cannot be replicated (Luthans, Youssef-Morgan, & Avolio, 2015). Thus, human resources constitute a valuable form of capital to the organizations they belong to (Bakker & Schaufeli, 2008). There are several forms of capital and while human and social capital are widely recognized and studied, psychological capital was given less attention (Larson & Luthans, 2006). To distinguish between the positive organizational behavior field (POB) and other scientific positive approaches, several authors (e.g., Luthans et al., 2015) have proposed four essential criteria that must be met for a concept to be included in this approach:

(a) possess a solid theory and research; (b) have a relative uniqueness in the organizational behavior area; (c) to be state-like; and (d) have a positive impact on work performance. Considering these criteria, Luthans, Youssef, and Avolio (2007) advanced that the positive psychological capital constructs, self-efficacy, hope, resilience, and optimism, can be included in the POB field. Their combination is known as positive psychological capital or PsyCap (Luthans, Avey, Avolio, Norman, & Combs, 2006). PsyCap is defined as "an individual's positive psychological state of development and is characterized by: (a) having confidence (self-efficacy) to take on and put in the necessary effort to succeed at challenging tasks; (b) making a positive attribution (optimism) about succeeding now and in the future; (c) persevering towards goals and, when necessary, redirecting paths to goals (hope) in order to succeed; and (d) when beset by problems and adversity, sustaining and bouncing back and even beyond (resiliency) to attain success" (Luthans et al., 2007, p. 3).

Although numerous empirical studies revealed the conceptual independence and discriminant validity of the elements of PsyCap, Luthans and colleagues (2007) have proposed a link between these components (i.e., a high order factor) that represents the common variance between self-efficacy, optimism, resilience, and hope. The components of PsyCap interact synergistically (Luthans et al., 2015). As a second order factor, PsyCap is considered as a positive assessment of physical and personal resources availability, the likelihood of reaching success through personal effort, achievement striving, and perseverance in a particular situation (Luthans & Youssef, 2007). The communality of the elements of PsyCap is also indicated by the psychological resources theory (Hobfoll, 2002) and the concept of core confidence (Stajkovic, 2006). In addition to these conceptual arguments for the integration of selfefficacy, hope, resilience, and optimism into a higher order factor, be it called psychological capital or other, Luthans and colleagues (2015) showed that compared to its components, PsyCap as a second order factor is a better predictor of employees' job performance rated by their supervisors. PsyCap has three essential attributes that permit its differentiation from other constructs with a positive approach: (a) individual level of analysis; (b) state-like nature; and (c) ability to predict relevant aspects for organizations (Luthans & Youssef, 2007). Given the purpose of this study, we will focus on the latter aspect. Recent meta-analyses and reviews found that PsyCap is positively related to desired employees' attitudes, behaviors, and performance (Avey, Reichard, Luthans, & Mhatre, 2011) and negatively related to undesired attitudes, behaviors, and performance in the workplace (Rus & Jesus, 2010). Although there is a lack of studies on the relationship between PsyCap and teacher motivation, a study of Siu, Bakker, and Jiang (2014), conducted in an academic context, underlined that individuals with high PsyCap are: (a) able to establish difficult and specific goals; (b) intrinsically motivated; (c) better performers; and (d) more engaged.

Review Objectives

The present literature review intended to examine the studies that related work satisfaction and PsyCap with teacher motivation, given that both constructs play a crucial role on the motivation of teachers. We expected this review to be useful for the development of the research on teacher motivation, because it evaluated the relationship between two of the most analyzed variables in the organizational area (i.e., work motivation and satisfaction) and considered an individual variable with positive nature (i.e., PsyCap) instead of the most commonly used individual variables that refer to malaise factors (e.g., distress and burnout).

Method

The selected studies should have been published between January 1990 and September 2014. This period was chosen according to the assumptions of Jesus (2003), this author argued that the flow of empirical studies on teacher motivation significantly increased during the 1990s (20th century). Nevertheless, it should be noted that one of the addressed concepts (PsyCap) has been developed in the first decade of 2000, however work satisfaction has a wider history and is one of the most studied variables in the context of teacher motivation. Thus, it was expected that the number of studies on work satisfaction was higher comparatively to PsyCap. In order to identify the relevant documents for this review, an electronic search on the following electronic databases was conducted: (a) Web of Science (Web of Knowledge); (b) PsychInfo, Psychology and Behavioral Sciences, and Education Resources Information Center (ERIC) (EBSCOhost); (c) ProQuest; (d) ScienceDirect; and (e) Wiley Online Library. In the databases ERIC, Psychology and Behavioral Sciences, and ProQuest the month and year defined as time limit for the search (i.e., January 1990 and September 2014) were included in the respective fields. In Web of Science, PsychInfo, ScienceDirect, and Wiley Online Library only the years of publication (i.e., 1990-2014) were included in the search field. The keywords used were teacher motivation, work satisfaction or job satisfaction, and positive psychological capital, psychological capital, or psycap. The keyword teacher motivation was included in all the searches being combined with the other keywords (e.g., teacher motivation and positive psychological capital or psychological capital or psycap, and teacher motivation and job satisfaction or work satisfaction).

Five inclusion criteria were defined: (a) empirical paper; (b) publication in a peerreviewed journal between 1990 and 2014; (c) relate teacher motivation with work satisfaction
and PsyCap; and (d) Portuguese, English, Spanish, and German as publication languages. The
studies that failed to meet these criteria were excluded from the sample. The selection of studies was conducted by two researchers following a four-stage process: (a) respect for the inclusion criteria; (b) analysis of the studies title and abstract; (c) assessment of the full text; and
(d) search for duplicates. In situations of uncertainty, two independent reviewers were consulted. When a study was excluded from the review, the decision about the exclusion was
documented. The studies selected are marked with an asterisk (*) in the references section.
The reviewers achieved a 97% agreement level. The collected documents were evaluated descriptively regarding the: (a) year of publication; (b) author(s); (c) type of methodology employed (i.e., quantitative, qualitative, or mixed); (c) sample characterization (i.e., number of
participants, gender, and type of education provided); (d) type of instrument; and (e) number
of studies per construct. Subsequently, the studies were assessed regarding the examined concept (i.e., work satisfaction or PsyCap) and a synthesis of the main results was performed.

Results

The search process resulted in 78 studies. From these, 43 (55.13%) respected the inclusion criteria and were reviewed. 2012 was the year with the highest number of studies (n = 7; 16.28%), followed by: (a) 2010, 2011, and 2013 (n = 5; 11.63%); (b) 2009 and 2014 (n = 3; 6.98%); (c) 2000, 2001, 2002, and 2006 (n = 2; 4.65%); and (d) 1992, 1994, 1996, 1998, 1999, 2005, and 2007 (n = 1; 2.33%). There was no record of studies published in the years: (a) 1990; (b) 1991; (c) 1993; (d) 1995; (e) 1997; (f) 2003; (g) 2004; and (h) 2008. At the methodological design level, the majority of studies presented a quantitative approach (n = 40; 93.02%) followed by the works with a mixed approach (n = 3; 6.98%), in contrast there was no record of studies with a qualitative approach. The use of mixed samples (i.e., men and women teachers) was the most identified situation (n = 41; 95.35%), however works composed solely by women teachers were also observed (n = 2; 4.65%). Regarding the teaching level, studies composed by teachers from different levels (n = 22; 51.16%) were more common than those with teachers from the same level (n = 21; 48.84%).

Relatively to the instruments used, it was observed that self-report questionnaires (n = 43; 89.59%) were the measure most frequently applied, studies that used interviews (n = 3; 6.25%), focus groups (n = 1; 2.08%), and observations (n = 1; 2.08%) were also registered. The number of instruments exceeds the total of studies because some of the analyzed documents presented more than one type of measure. Concerning the number of participants in the studies, it was verified an average value of approximately 675 (M = 675.28; SD = 727.699). Taking into account that some studies had a high number of participants, it was also calculated the median value: 400. The estimation of this value was conducted, since the studies with larger samples could have influenced the mean value obtained. The relationship between teacher motivation and work satisfaction was examined in 42 studies (97.67%). In the case of PsyCap, this construct only possessed one study (2.33%) with teacher motivation.

A synthesis of the main results of each study, as well as data related with the methodological approach used, name of the authors, year of publication, number of participants, type of instrument administered, and education level of the samples are presented in Table 1.

Table 1. Synthesis of the key findings of the sample of studies (N = 43)

Author(s)	N	Methodology	Instrument	Sample composition	Main results
			Work satis	faction	
Aryee (1994)	217	Quantitative	SRQ	HS	
Buyukgoze-Kavas, Duffy, Guneri, & Autin (2014)	500	Quantitative	SRQ	ES, SS, and HS	Work satisfaction was a signifi-
Sesen & Basim (2012)	275	Quantitative	SRQ	HS	cant predictor of teacher motivation.
Skaalvik &Skaalvik (2011a)	231	Quantitative	SRQ	ES and SS	
Simbula & Gug- lielmi (2013)	157	Quantitative	SRQ	ES and SS	
van Dick, Schnitger, Buchelt, & Wagner	471	Quantitative	SRQ	Uni	

(2011)							
Wu & Short	610	Overetitetisse	CDO	ES, SS, and			
(1996)	612	Quantitative	SRQ	HS			
Caprara, Barbaranelli,							
Steca, & Malone	2184	Quantitative	SRQ	HS			
(2006)							
Ciftci, Ozgun, &	140	0	CDO	PS	Work satisfaction and teacher		
Erden (2011)	140	Quantitative	SRQ				
Di Fabio, Majer,	328		SRQ	HS	motivation established a positive		
& Taralla (2006)		Quantitative			and statistically significant corre-		
Federici (2013)	1818	Quantitative	SRQ	ES and SS	lation. The magnitude of the		
Federici &	1010	Overtitetisse	SRQ ES and S	E0 1 00	correlation coefficients varied between moderate and strong. In		
Skaalvik (2012)	1818	Quantitative		ES and SS			
Fernet, Austin, &	506	Ovantitativa	CDO	EC and HC	a specific case (Fernet et al.,		
Vallerand (2012)	586	Quantitative	SRQ	ES and HS	2012) it was observed that work		
Karabiyik &	02	Overetitetisse	CDO	ES, SS, and	satisfaction was negatively corre-		
Korumaz (2014)	83	Quantitative	SRQ	HS	lated with teachers controlled		
Karsh & Iskender	400	Quantitative	SRQ	ES, SS, and	motivation.		
(2009)	400			HS			
Klassen & Chiu	1430	Quantitative	SRQ	ES and HS			
(2010)	1430	Quanutauve	SKQ	LS and HS			
Klassen et al.	853	Quantitativa	SPO	ES, SS, and HS			
(2012)	633	Quantitative	SRQ				
Papaioannou &				ES, SS, HS,			
Christodoulidis	573	Quantitative	SRQ	and Uni			
(2007)				and OH			
Salehi &	341	Quantitative	SPO	Uni			
Gholtash (2011)		Quantitative	SRQ				
Skaalvik &	2569	2569	2560	2569 Quantitative	SDO	EC and CC	
Skaalvik (2013)			Quantitative	SRQ	ES and SS		
Skaalvik &	25/0	Quantitative	SRQ	ES and SS			
Skaalvik (2014)	2569	Quanutauve	SKQ	Es and ss			
Stan (2013)	106	Quantitative	SRQ	PS and ES			
Skaalvik &		Quantitative		ES and SS	Work satisfaction was negatively		
	2569		SRQ		correlated with teacher demotiva-		
					tion. The correlation coefficient		

					obtained was statistically signifi-
					cant.
Mertler (2012)	710	Quantitative	SRQ	SS and HS	Teachers work satisfaction varies
Scott, Cox, &	609	Quantitative	SRQ	ES	according to: (a) gender (Mertler,
Dinham (1999)	00)	Quantum	Sitty	LS	2012); (b) career position
Klassen et al.	1187	Quantitative	SRQ	ES and SS	(Mertler, 2012; Scott et al.,
(2013)					1999); (c) school's geographic
Billingsley &	902	Quantitative	SRQ	SE	location (Klassen et al., 2010;
Cross (1992)	902				Klassen et al., 2013; Mertler,
Klassen, Usher, &	500	0	SRQ	ES and SS	2012); (d) type of education pro-
Bong (2010)	500	Quantitative			vided (i.e., regular vs. special)
Griva, Panitsidou, &	100		SRQ, Int,	ES and SS	(Billingsley & Cross, 1992); (e)
Chostelidou (2012)	120	Mixed	Obs, and FG		subject taught (Griva et al.,
Poblete (2009)	539	Quantitative	SRQ	ES	2012); and (f) type of educational
					establishment (public vs. private)
					(Poblete, 2009; Pifczyk & Klein-
Pifczyk & Klein-					beck, 2000; Scott et al., 1999)
beck (2000)	48	Quantitative	SRQ	PS	which influences the relationship
300k (2000)					established with teacher motiva-
					tion.
					Malaise factors, such as depres-
Schonfeld (2000,	184	Quantitative	SRQ	PS and ES	sion and distress, influenced the
2001)					
2001)		Quantum	SKQ	15 and L5	relationship between work satis-
2001)		Quantumve	SitQ	15 and L5	relationship between work satisfaction and teacher motivation.
				ES, SS, and	•
Griffin (2010)	168	Quantitative	SRQ		faction and teacher motivation.
	168	Quantitative	SRQ	ES, SS, and HS	faction and teacher motivation. Dimensions of work satisfaction (a) work conditions (Griffin,
Griffin (2010) Wagner & French				ES, SS, and	faction and teacher motivation. Dimensions of work satisfaction (a) work conditions (Griffin, 2010); (b) salary (Griffin, 2010);
Griffin (2010) Wagner & French (2010)	168	Quantitative	SRQ SRQ and	ES, SS, and HS	faction and teacher motivation. Dimensions of work satisfaction (a) work conditions (Griffin, 2010); (b) salary (Griffin, 2010); (c) job security (Griffin, 2010);
Griffin (2010) Wagner & French (2010) Canrinus, Helms-	168	Quantitative	SRQ SRQ and	ES, SS, and HS	faction and teacher motivation. Dimensions of work satisfaction (a) work conditions (Griffin, 2010); (b) salary (Griffin, 2010); (c) job security (Griffin, 2010); (d) supervisor support (Wagner
Griffin (2010) Wagner & French (2010) Canrinus, Helms- Lorenz, Beijaard,	168	Quantitative	SRQ SRQ and	ES, SS, and HS	faction and teacher motivation. Dimensions of work satisfaction (a) work conditions (Griffin, 2010); (b) salary (Griffin, 2010); (c) job security (Griffin, 2010); (d) supervisor support (Wagner & French, 2010); and (e) rela-
Griffin (2010) Wagner & French (2010) Canrinus, Helms- Lorenz, Beijaard, Buitink, & Hofman	168 77	Quantitative Mixed	SRQ SRQ and Int	ES, SS, and HS PS	faction and teacher motivation. Dimensions of work satisfaction (a) work conditions (Griffin, 2010); (b) salary (Griffin, 2010); (c) job security (Griffin, 2010); (d) supervisor support (Wagner & French, 2010); and (e) relationship with students and col-
Griffin (2010) Wagner & French (2010) Canrinus, Helms- Lorenz, Beijaard, Buitink, & Hofman (2012)	168 77 1214	Quantitative Mixed Quantitative	SRQ SRQ and Int SRQ	ES, SS, and HS PS	faction and teacher motivation. Dimensions of work satisfaction (a) work conditions (Griffin, 2010); (b) salary (Griffin, 2010); (c) job security (Griffin, 2010); (d) supervisor support (Wagner & French, 2010); and (e) relationship with students and colleagues (Canrinus et al., 2012;
Griffin (2010) Wagner & French (2010) Canrinus, Helms- Lorenz, Beijaard, Buitink, & Hofman	168 77	Quantitative Mixed	SRQ SRQ and Int	ES, SS, and HS PS	faction and teacher motivation. Dimensions of work satisfaction (a) work conditions (Griffin, 2010); (b) salary (Griffin, 2010); (c) job security (Griffin, 2010); (d) supervisor support (Wagner & French, 2010); and (e) relationship with students and colleagues (Canrinus et al., 2012; Griffin, 2010; Karavas, 2010;
Griffin (2010) Wagner & French (2010) Canrinus, Helms- Lorenz, Beijaard, Buitink, & Hofman (2012) Karavas (2010)	168 77 1214 224	Quantitative Mixed Quantitative	SRQ SRQ and Int SRQ	ES, SS, and HS PS SS	faction and teacher motivation. Dimensions of work satisfaction (a) work conditions (Griffin, 2010); (b) salary (Griffin, 2010); (c) job security (Griffin, 2010); (d) supervisor support (Wagner & French, 2010); and (e) relationship with students and colleagues (Canrinus et al., 2012; Griffin, 2010; Karavas, 2010; Shann, 1998) affected teacher
Griffin (2010) Wagner & French (2010) Canrinus, Helms- Lorenz, Beijaard, Buitink, & Hofman (2012)	168 77 1214	Quantitative Mixed Quantitative	SRQ and Int SRQ	ES, SS, and HS PS	faction and teacher motivation. Dimensions of work satisfaction (a) work conditions (Griffin, 2010); (b) salary (Griffin, 2010); (c) job security (Griffin, 2010); (d) supervisor support (Wagner & French, 2010); and (e) relationship with students and colleagues (Canrinus et al., 2012; Griffin, 2010; Karavas, 2010;

tionship with students, did not					
improve the motivation of teach-					
ers (salary incentives) or contrib-					
uted to their demotivation (stu-					
dent misbehavior) (Canrinus et					
al,. 2012; Shann, 1998).					

Bentea & Anghelache (2012)	122	Quantitative	SRQ	ES, SS, and HS	Teacher motivation predicted work satisfaction and not the	
Duffy & Lent (2009)	366	Quantitative	SRQ	ES, SS, and HS	reverse.	
Jesus & Lens (2005)	258	Quantitative	SRQ	ES and SS		
Martin & Stef- fgen (2002)	402	Quantitative	SRQ	ES		
PsyCap						
Vink, Ouweneel, & LeBlanc (2011)	301	Quantitative	SRQ	Uni	Positive psychological capital was significantly associated with teacher motivation.	

Note. For each study were presented the author(s), year of publication, number of participants (*N*), methodology employed, type of instrument used, and sample composition. As some studies possessed similar results, in those situations the main results were aggregated. SRQ: Self-report questionnaire; Int: Interview; Obs: Observation; FG: Focus group; PS: Pre-school teachers; ES: Elementary school teachers; SS: Secondary school teachers; HS: High school teachers; Uni: University teachers; SE: Special education teachers.

Discussion

The objective of this review was to examine the studies that related work satisfaction and PsyCap with teacher motivation. In educational establishments, teacher motivation emerges as a vital construct because of the teachers' role in classroom and school functioning (Jesus & Lens, 2005). Thus, it is important to evaluate how teacher motivation and work satisfaction are related, given the close relationship between both concepts. In the case of PsyCap, this individual variable was chosen since it focuses on individual strengths in contrast with the majority of the individual variables studied with teacher motivation, which refer to malaise factors (e.g., Aloe et al., 2014).

The publication flow was higher between 2010 and 2014 (58.15%) which indicates an increase in the research on this theme over the past years. In the majority of studies was observed a preponderance of quantitative methodologies (93.02%) and self-report questionnaires (89.59%), situation that might have occurred because quantitative methodologies facilitate the access to larger samples and self-report questionnaires enable the evaluation of several variables simultaneously (Gelo, Braakman, & Benetka, 2008). The combination of these aspects allows the gathering of information regarding an individual's work environment, providing a complete and accurate picture of that context. The number of studies that related work satisfaction with teacher motivation underlined the importance of this relationship. In opposition, the lack of studies that associated PsyCap and teacher motivation points to the need of further research, because greater PsyCap may increase professional motivation, since this concept possesses a motivational nature.

The correlation coefficients between teacher motivation and work satisfaction emphasized the importance of these variables in educational context. Motivated and satisfied teachers have better teaching quality and motivate their students (Vieira & Jesus, 2007). Some studies demonstrated that work satisfaction affects teacher motivation and vice-versa, which may indicate a bidirectional relationship (Judge & Kammeyer-Mueller, 2012). Fernet and colleagues (2012) observed that work satisfaction was negatively correlated with teacher controlled motivation, this might be explained because controlled motivation is associated with a sense of obligation to engage in professional activities which is translated into reduced autonomy and performance (Gagné & Deci, 2005). Aspects, such as the type of educational establishment (public vs. private), malaise factors, salary incentives, socio-demographic variables, and students' behavior are responsible for variations in this relationship. Liu and Meyer (2005) observed that teachers from private schools reported higher satisfaction than those from public schools. Taking into account the association between work satisfaction and teacher motivation, it can be stated that private school teachers are more satisfied and motivated. Work-related malaise factors contributed to an increase in turnover rates, which can be considered as an indicator of demotivation (Yu et al., 2014). Past studies (e.g., Jesus et al., 2011; Lambert & McCarthy, 2006; OECD, 2005) emphasized that turnover rates in teaching have significantly grown in the last years, becoming a relevant problem. The impact of salary incentives on satisfaction and motivation is unclear, as shown by the analyzed studies. In the literature, there are also contradictory findings. On the one hand, there are studies (e.g., Green & Heywood, 2008) that indicate that salary incentives reduce work satisfaction and motivation. On the other hand, other studies (e.g., Marsden, French, & Kubo, 2001) demonstrated that salary incentives contribute to professional demotivation. In the case of socio-demographic variables, Glisson and Durick (2008) stressed that in teaching these variables significantly influence work satisfaction. Nevertheless, their impact is limited. Lastly, student misbehavior is a major source of teacher dissatisfaction and demotivation being responsible for the appearance of malaise factors (Aloe et al., 2014).

Vink and colleagues (2011) registered that PsyCap presented benefits for teacher motivation. This situation might point to the importance of developing self-efficacy, optimism, resilience, and hope in teachers in order to improve their motivation, which will influence the quality of teaching and student motivation, and reduce malaise factors and turnover rates.

Our review provided a synthesis of the studies that related teacher motivation with work satisfaction and PsyCap. In the case of the relationship between work motivation and satisfaction, it was possible to aggregate several studies that assessed these variables obtaining a clear image of the state-of-the-art. A recent bibliometric study (Viseu, Jesus, Quevedo-Blasco, Rus, & Canavarro, 2015) observed that work satisfaction was the most evaluated construct with teacher motivation, underlining its importance in this field. In turn, the lack of studies that related teacher motivation and PsyCap is a major gap. According to the POB criteria, job performance and satisfaction were the main outcomes to be studied. With the growing interest of studying PsyCap, the attention was focused on the desirable and undesirable attitudes, and behaviors. PsyCap includes a motivational propensity and it was less of interest to study associations between various motivational variables than studying relationships between motivational variables and work outcomes.

Regarding the addressed variables (work satisfaction and PsyCap), it is crucial to emphasize how they can be improved in order to increase teacher motivation. The satisfaction of teachers may developed through the creation of social support networks between colleagues (e.g., for sharing work experiences) and the existence of an effective leadership able to provide constructive feedback (Hongying, 2007; Judge & Kammeyer-Mueller, 2012). Likewise, other aspects may facilitate teacher satisfaction, for example interpersonal relationships may be fostered through intervention programs (e.g., Leiter, Laschinger, Day, & Gilin-Oore, 2012), enhancement of professional development opportunities (e.g., teachers with better a

performance may have the possibility to gain access to personal and professional development programs), create better work conditions (e.g., appropriate teaching materials), greater autonomy in the tasks performed, and reduction of work-related stressors (e.g., work schedule and workload) (Hongying, 2007). These measures will improve the satisfaction and motivation of teachers, and contribute to a decrease in turnover rates, fundamental elements to promote school success (Hongying, 2007; Judge & Kammeyer-Mueller, 2012). Avey (2014) proposed a set of actions to increase workers PsyCap and organizational performance. In terms of selection, teachers may be selected in terms of their PsyCap levels (Avey, 2014). In addition, school principals may receive leadership training, as there are types of leadership (e.g., authentic leadership) that promote the psychological skills of employees, and job redesign may improve PsyCap. (Avey, 2014). Moreover, intervention programs have been created seeking to develop the dimensions that compose this concept (Luthans et al., 2006; Luthans, Avey, & Patera, 2008; Luthans et al., 2015).

This review possesses some limitations. For example, other positive psychology variables (e.g., psychological and subjective well-being, and creativity) could have been included due to the need of improving teachers' mental health. Furthermore, the inclusion of organizational variables (e.g., organizational culture and justice) could have been considered, in order to understand how they relate to teacher motivation. Thus, the addition of the abovementioned variables, along with work satisfaction and PsyCap, would be beneficial to analyze which of them are more studied in the teacher motivation area. Thereby, future reviews may consider this suggestion, which will make possible an assessment of the relationship between these variables and teacher motivation, and will provide an accurate picture of the aspects that influence the motivation of these professionals. Also, future studies may develop an integrative model for the evaluation of teacher motivation similar to the work of Jesus and Lens (2005). This model should integrate different types of variables, such as organizational and individual (e.g., organizational culture and justice, and creativity). The assessment of these variables could be helpful to understand how they are linked to teacher motivation and to develop possible solutions. These solutions may be focused on intervention programs based on PsyCap and stress management (Jesus, Miguel-Tobal, Rus, Viseu, & Gamboa, 2014), because they will contribute to an increase of professional motivation, as well as a decrease on distress, burnout, and depression. This situation will benefit school and classroom functioning, namely in the implementation of educational policies, quality of teaching, and student motivation.

In sum, it is important that educational leaders are aware of the importance of teacher motivation, because teachers are one of the most important pillars in the entire educational system. As stated above, teachers play an important role on student motivation, but also in the quality of teaching. Moreover, teachers are key actors in the implementation of educational reforms. Thus, only with motivated teachers will be possible to keep students motivated and deliver a quality education. For this to happen, and taking into account the reviewed studies, school leaders must invest in the work conditions of teachers, as the work satisfaction and motivation of these professionals are closely linked. Furthermore, although the number of studies between PsyCap and teacher motivation is reduced, schools should invest in the promotion of this construct, since it presents a motivational nature. Consequently, when working on the psychological strengths of teachers schools will be contributing to their motivation.

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