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## Knowledge, Education and Use of Teaching Styles in Physical Education

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Teaching styles in physical education are important for achieving teaching objectives. Therefore, the goal of this research was to analyse the knowledge, education and use of physical education teachers about these styles based on their teaching degree. The size of the sample was determined using the formula for finite populations physical, being a sample of 455 randomly chosen which are physical education teachers in primary and secondary schools in the Community of Madrid. An inferential analysis was carried out using correlation coefficients such as ANOVA and Welch. The results show significant differences in the use of different teaching styles regarding degree, such as command style (p=.011), task assignment (p=.033), guided discovery (p=.000), solving problem (p=.000) and free exploration (p=.000). One of the most significant conclusions reached, pointed out that the command style is the style most commonly used by graduate teachers in Physical Activity and Sport Sciences, while teachers with degree in Physical Education or teachers with both degrees use more the others styles. It is important to know what teaching styles are used by physical education teachers and so they increase their knowledge about creative teaching styles if it was necessary.

Keywords: physical education, teaching styles, productive styles, reproductive styles, degree

#### INTRODUCTION

The methodology which teachers use is essential for improving students' learning, and thus the teaching styles used in physical educational are vital for achieving the objectives of the activity.

For this reason, it is necessary more researches about pedagogical models which resolve different disadvantages of both models. Thus, Khalaf (2018) carried out a research aim to know advantages and disadvantages of traditional and inquired-based learning, and he observed that both pedagogical models have disadvantages.

In the same way, the teaching styles are important to improve the teaching-learning process, and for this reason, they should be reviewed too.

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In the first place, it should know that the expression "teaching styles" was created to establish the relationship between teacher and students, improving the educative experience and allowing students to gain different useful skills for their later life experience (Montero, 1995; Escudero, 2005).

Teaching styles make it possible to show the interaction between teacher and student when they make decisions in the teaching-learning process and also, what roles the teacher and student play in this process (Mosston, 1978). Thus, there are research which study the different models about teaching style throughout education (Byra, 2000; Goldberger, Ashworth and Byra, 2012). In them, it is possible to observe two categories of teaching styles to carry out the physical education classes, reproductive and productive styles. Goodyear and Dudley (2015), speak about productive styles, considering that "teacher must play an active role in the classroom and should be considered much more than a "guide on the side".

The teaching styles used, intervene in the teaching act, and are more efficient when teachers are able to use different styles, and mix them in their physical education class (Delgado, 1996).

Mosston developed the first proposal on teaching styles in 1966 with a book called "Teaching Physical Education. From command to discovery" (during a period of controversy) in which he included the Spectrum of teaching styles. This spectrum claims that teaching qualities depend on the number of decisions made by the students. The teaching styles in this period were: the command style, the task-based style, small groups, individual programmes, guided discovery, problem solving and creativity (Mosston, 1978).

Later, in 1986 Mosston changed his proposal and published another book where he reformed the teaching styles from the previous period (during a time with no controversy). In this period, teaching styles were intended to respond to the objective proposed. So, the difference between reproductive or productive styles depended on the decisions made by the students (Mosston and Ashworth, 2002). Thus, the reproductive styles are: Command style (A), Practice (B), Reciprocal teaching (C), Self-evaluation (D) and Inclusion (E). The productive styles are: Guided discovery (F), Problem solving (Divergent discovery) (G), Individualised programme (H), Learner-Initiated (I) and Self-teaching (J).

After that, Delgado (1991) taking Mosston's proposal as a reference, changed some teaching styles and added new ones, grouping them together in different families (Traditional styles: Command style, Modification of command style and Task assignment; styles which enable participation: Reciprocal teaching, Small groups and Microteaching; styles which promote individualisation: Individualisation by groups, Modular teaching, Programmed teaching and Individualised programmes; styles which involve the students cognitively: Guided discovery and Problem solving; styles which favour socialisation: Social style; styles which favour creativity: Free exploration

It exist different research carried out over the years on teaching styles. Thus, it is necessary to do a review about these research to prove our investigation after that.

Table 1 Overview of research on teaching styles

Author/s	Year	Country	Author's proposal	Results
Boyce	1992	United States	Mosston and Ashworth (2002).	The most significant teaching styles are the
Delgado et al.	1996	Spain	Delgado (1991)	command style and task assignment.  The most accepted teaching styles are
Deigado et al.	1990	Spain	Deigado (1991)	social, individual, creative and cognitive
				styles
Delgado	1998	Spain	Delgado (1991)	The most accepted teaching styles are
Deigado	1770	Spani	Deigado (1771)	social, individual, creative and cognitive
				styles
				The most rejected teaching styles are
				traditional styles
Byra and Jenkins	1998	United States	Mosston and	They wanted to know which decisions are
_ ,			Ashworth (2002).	taken by students with the inclusion style.
				So, the research showed that students
				decide the work level.
Curtner-Smith et	2001	England	Mosston and	The results showed that the most used
al.		U	Ashworth (2002).	teaching style was the practice style.
Morgan,	2005	United	Mosston and	The teaching styles that most influence
Kingston, and		Kingdom	Ashworth (2002).	motivation and class environment are
Sproule		Ü		guided discovery and reciprocal teaching.
Cothran et al.	2005	Several	Mosston and	There are significant differences. Although
			Ashworth (2002).	all teachers used several teaching styles in a
				physical education class.
Salvara et al.	2006	Greece	Mosston and	There is positive motivation through guided
			Ashworth (2002).	discovery, the divergent style,
				individualised programmes, reciprocal
				teaching and self-evaluation
Derri and Pachta	2007	Greece	Mosston and	There were no significant differences. It is
			Ashworth (2002).	possible to observe that the command style
				allows better learning, although guided
	2000			discovery promotes knowledge acquisition
Patmanoglou et	2008	Greece	Mosston and	The self-evaluation style allows a more
al.			Ashworth (2002).	effective learning and creates a positive
7 . 1	2000	TT ': 10: :	M ( 1	attitude to sport in the students
Zeng et al.	2009	United States	Mosston and	The practice style produced better result in
			Ashworth (2002).	men, while inclusion and reciprocal styles
Jaakkola and	2011	Finland	M	were more effective in women.
Watt	2011	riniana	Mosston and	The most used teaching styles were the
watt			Ashworth (2002).	command style and practice style.  Practice and divergent styles were the ones
				that most favoured learning.
				Practice, divergent and inclusion styles are
				the most accepted by students.
				Finally, practice and inclusion are the most
				motivating for students.
Koloveloni.	2011	Greece	Mosston and	The reciprocal and self-evaluation styles
Goudas and	2011	Sicce	Ashworth (2002).	were the most effective to improve
Gerodimos.				academic performance.
Sánchez, Byra	2012	United State	Mosston and	The inclusion style allows more physical
and Wallhead	2012	Sinica State	Ashworth (2002).	and cognitive involvement. According to
			(2002).	social interaction, there are no significant
				and the state of t

Author/s	Year	Country	Author's proposal	Results
				Students prefer the inclusion style.
Isaza and Henao	2012	Colombia	Delgado (1991)	Individualised, participatory, creative and social styles are more accepted than traditional styles.
Hewitt and Kenneth	2013	Australia	Mosston (1978).	The practice style is the most used to teach tennis. In contrast, the least used is the command style
Amado, Sanchez-Miguel, Gonzalez-Ponce, Pulido-Gonzalez and del Villar	2016	Spain	Delgado (1991)	It is important to use reproductive and productive styles for a comprehensive education
Merino-Barreto, Valero- Valenzuela, and Moreno-Murcia	2017	Spain	Delgado (1991)	Teacher under the ages of 30 prefer creative and social styles and cognitives styles, but it changes to the extent teachers draw on age
Heras- Fernández, Espada, Cuellar- Moreno	2018	Spain	Mosston and Ashworth (2002)	The use of problem solving favour the participation cognitive, physical and emotional compared with command styles
Cuellar-Moreno and Caballero- Julio	2019	Spain	Mosston and Ashworth (2002)	Comparison between problem solving and command styles in dace. It is show that problem solving in more motivation for students and favour cognition in them
SueSee, Edwards, Pill and Cuddihy	2019	Queensland (Australia)	Mosston and Ashworth (2002)	Senior physical education teachers use several teaching styles in their classes

#### **Objectives**

- To analyse the level of knowledge of physical education teachers regarding their teaching degree.
- To find out if they had followed courses on teaching styles in the previous year and if there was a relation with their teaching degree.
- To ascertain the use of teaching styles by the physical education teachers regarding their teaching degree

## **METHOD**

A quantitative, descriptive and non-experimental methodology was used for this research, as it required an objective process through statistical analysis (Anguera 1992; González Tirados, 2009).

# **Participants**

This research used a sample of 455 teachers of whom 280 (61.5%) belonged to the primary stage and 175 (38.5%) belonged to the secondary stage. In addition, there were teachers who were graduates in physical activity and sport sciences (21.1%), graduates in physical education (47.7%) and teachers with both degrees (31.2%); 70.8% were men and 29.2% women.

To calculate the sample universe, the number of schools in the Autonomous Region of Madrid was determined from the different lists in this region, as it is impossible to know the exact number of teachers who work in these schools. The lists used are of the primary and secondary schools in the Region detailed in the regional schools guide (Autonomous Region of Madrid, 2014) and the list of municipalities and population in the same region for the year 2013 (Institute of Statistics from the Autonomous Region of Madrid, 2013), in total 1659 schools.

The size of the sample was determined using the formula for finite populations (Cea D'Ancona, 2004; Bravo Sierra, 2001), where the worst case is assumed regarding the population variance, with "P" and "Q" being equal, with a value of 50% each. The value of confidence was 95.5% with - 2 sigmas and + 2 sigmas for a normal distribution, and a margin of error of  $\pm$  4.75% for the established sample, obtaining a sample of 455 units in the population.

The sampling design was probabilistic, random cluster and stratified to achieve a more objective selection. The stratification consisted, in the first place, in dividing the population into municipalities, in the second place, into schools, randomly selecting the participating schools, and finally, choosing the teachers to be interviewed also randomly (a maximum of two teachers per school). This was done using the table of random numbers proposed by Rodríguez Osuna (2002).

Thus the collection of data was always proportional in the established criteria to municipal population size and geographic area, making the distribution according to the defined territorial areas of the total universe, taking into account the inhabitants per municipality, so more surveys were carried out in strata with more inhabitants (Cea D'Ancona, 2001).

## Measure

The instrument used in this case is a questionnaire which was used, designed and validated by Guedea (2010). This questionnaire is called the Questionnaire for the analysis of teaching styles used in Physical Education. Several Ph.D.s from Spanish Universities reviewed and validated it, finding a Cronbach alpha coefficient =.702.

The questionnaire has several dimensions. The dimension use in this research names *importance of teaching styles in Physical Education classes* and it include items about knowledge of teaching styles, if teachers have done course about them last year and used some of them. In this case, the measurement analysed the importance of teaching styles in Physical Education classes. The items used are eight, and they are closed, in the form of a scale from 1 to 5.

The items analyse in this research are:

- 1. Knowledge about teaching styles when physical education teachers start to work
- 2. Did you have courses last year?
- 3. Do you constantly use the command style?

- 4. Do you constantly use the task assignment style?
- 5. Do you constantly use the reciprocal teaching style?
- 6. Do you constantly use the guided discovered style?
- 7. Do you constantly use the problem solving style?
- 8. Do you constantly use the creative style?

#### **Procedure**

The first phase involved place location and contact with the schools and teachers selected for the study, following the guidelines established in the sampling design. Then, the standardised interviews were carried out with the questionnaire and the information obtained was collected and recorded.

It was a cross-sectional study (Sierra Bravo, 2001), in this case it took place in the 2014-2015 academic year during school hours, since it was aimed at physical education teachers in formal education. The interviews were carried out by a single interviewer, because this procedure is more effective and more rigorous although it involved more work (Cea D'Ancona, 2001).

#### **Statistical Analysis**

The statistical analysis involved, on the one hand, a descriptive analysis through frequencies, and on the other hand, an inferential analysis through correlation coefficients (Levene, ANOVA and Welch and the post-hoc test) all using the statistical program SPSS®, Version 20.

#### **FINDINGS**

The greatest difference can be seen in the first item about if teachers knew the teaching styles when they started to give classes, being higher in those respondents who have both degrees (M = 8.29; DT = 1.65).

Later, the inferential analysis through different correlation coefficients was conducted to analyse the items about knowledge, education and use of teaching styles.

The Levene test was carried out (table 2) showing significant differences of variance in item 1 about if teachers knew the teaching styles when they began to teach (p=.000); item 2 about whether they had had courses about teaching styles (p=.000); item 4 about whether they constantly used the task assignment style (p=.013); and item 7 about whether they constantly used the problem solving style (p=.000).

Table 2 Levene test based on degree.

Items	Levene	gl1	gl2	Sig.
1. Knowledge about teaching styles when physical education teachers start to work	10,868	2	452	0
2. Did you have courses last year?	9,685	2	452	0
3. Do you constantly use the command style?	2,481	2	452	0,085
4. Do you constantly use the task assignment style?	4,408	2	452	0,013
5. Do you constantly use the reciprocal teaching style?	2,308	2	452	0,101
6. Do you constantly use the guided discovered style?	1,961	2	452	0,142
7. Do you constantly use the problem solving style?	15,168	2	452	0
8. Do you constantly use the creative style?	0,5	2	452	0,607

Then the Welch test was applied (table 3), where there were significant differences all of items. In item 1, about if teachers knew teaching styles when they started to work (p=.002); item 2, about whether teachers had had courses about teaching styles (p=.007); and items 4 and 7, about whether teachers constantly used the task assignment and the problem solving styles (p=.033; p=.000).

Table 3 Welch test regarding degree.

Itmes	Stadistic	gl1	gl2	Sig.
1. Knowledge about teaching styles when physical				
education teachers start to work	6,191	2	244	0,002
2. Did you have courses last year?	5,12	2	227	0,007
4. Do you constantly use the task assignment style?	3,453	2	246	0,033
7. Do you constantly use the problem solving style?	10,373	2	236	0

The Games – Howell post-hoc test was used to discover where these differences were (Table 4), and they existed in item 1, about if teachers knew teaching styles when they started to work, because there were significant differences between teachers who have both degrees, who said that they knew teaching styles when they started to work, in comparison with those who are graduates in physical education (p=.002).

In item 2 about whether teachers had had courses about teaching styles in the previous year, it possible to observe that more teachers who have both degrees had had courses in the previous year compared to graduates in physical education (p = .005).

Similarly, regarding if teachers constantly used the task assignment style, there were significant differences between teachers who have both degrees and those who are graduates in physical education (item 4; p = .033). Again the teachers who have both

degrees were the ones who constantly used this style compared to teachers who are graduates in physical education.

Regarding the constant use of the problem solving style, significant differences were revealed between teachers who are graduates in physical education or who have two degrees constantly using the problem solving style compared to teachers who are graduates in physical activity and sport sciences (p=.000, p=.025).

Table 4
The Games - Howell post - hoc test regarding degree

The Games - Hov	vell post - hoc test reg	garding degree.			
Items	(I) Degree	(J) Degree	Mean difference (I-J)	Typical error	Sig.
1. Knowledge about		Physical activity and			
teaching styles when	Graduates in physical	sport sciences			
physical education	education	graduates	-0,45	0,21	0,075
teachers start to work		Both degrees	-,561*	0,16	0,002
	Physical activity and	Graduates in physical education	0,449	0,21	0,075
	sport sciences graduates		•	,	
		Both degrees	-0,11	0,18	0,811
		Graduates in physical education	,561*	0.16	0.002
	Both degrees	Physical activity and	,301"	0,16	0,002
		sport sciences			
		graduates	0,112	0,18	0,811
2. Did you have		Physical activity and	0,112	0,10	0,011
courses last year?		sport sciences			
courses last year.	Graduates in physical	graduates	-0.465	0.342	0.365
	education	Bradattes	000	0.0.2	0.000
		Both degrees	979*	0.309	0.005
		Graduates in physical			
	Physical activity and	education	0.465	0.342	0.365
	sport sciences graduates	Both degrees	-0.514	0.391	0.389
		Graduates in physical			
		education	.979*	0.309	0.005
	Both degrees	Physical activity and			
		sport sciences			
		graduates	0.514	0.391	0.389
4. Do you constantly		Physical activity and			
use the task	Graduates in physical	sport sciences			
assignment style?	education	graduates	-0.377	0.213	0.184
		Both degrees	445*	0.177	0.033
	Physical activity and	Graduates in physical			
	sport sciences graduates	education	0.377	0.213	0.184
		Both degrees	-0.068	0.212	0.945
		Graduates in physical			
		education	.445*	0.177	0.033
	Both degrees	Physical activity and			
	-	sport sciences			
		graduates	0.068	0.212	0.945
7. Do you constantly	Graduates in physical	Physical activity and	.637*	0.242	0.025

use the problem solving style?	education	sport sciences graduates			
		Both degrees	-0.382	0.175	0.075
	Physical activity and sport sciences graduates	Graduates in physical education	637*	0.242	0.025
		Both degrees	-1.018*	0.228	0
		Graduates in physical education	0.382	0.175	0.075
	Both degrees	Physical activity and sport sciences			
		graduates	1.018*	0.228	0

<sup>\*</sup> The difference of means is significant at .05.

An ANOVA test was carried out for items in which there were not significant differences in the Levene test (table 5), nor differences of variance, like in items 3, 5, 6 and 8, about if teachers constantly used the command style, reciprocal teaching, guided discovery and free exploration styles.

In these cases, the ANOVA test showed significant differences in the items about if teachers constantly used the command style (item 3; p=.011), guided discovery item 6; (p=.000) and free exploration (item 8; p=.000).

Table 5 ANOVA test regarding degree.

Items		Sum of squares	gl	F	Sig.
3. Do you constantly use the					
command style?	Inter-grupos	41,003	2	4,542	0,011
	Intra-grupos	2040,425	452		
	Total	2081,429	454		
5. Do you constantly use the					
reciprocal teaching style?	Inter-grupos	3,1	2	0,502	0,605
	Intra-grupos	1394,184	452		
	Total	1397,284	454		
6. Do you constantly use the					
guided discovered style?	Inter-grupos	83,015	2	11,511	0
	Intra-grupos	1629,873	452		
	Total	1712,888	454		
8. Do you constantly use the					
creative style?	Inter-grupos	112,72	2	14,316	0
	Intra-grupos	1779,486	452		
	Total	1892,207	454		

The Tukey post-hoc test was performed to gain more in-depth knowledge about what groups revealed these differences (Table 6). Differences were found regarding if

teachers constantly used the command style, with the teachers who are graduates in physical activity and sport sciences using this style more than teachers who are graduates in physical education (item 3; p=.008).

In addition, differences were observed between teachers who are graduates in physical education and graduates in physical activity and sport sciences regarding the guided discovery style (p = .000), with teachers who are graduates in physical education using this style more often than graduates in physical activity and sport sciences. Also, teachers with both degrees use guided discovery more often than teachers who are only graduates in physical education (item 6; p = .018).

Finally, with respect to the free exploration style (item 8), teachers who are graduates in physical education (p=.000) and teachers with both degrees (p=.002) use this style more than teachers who are graduates in physical activity and sport sciences.

Table 6
Tukey's post - hoc test in relation to degree

	(I) Degree	(J) Degree	Mean	Typical	Sig.
			difference (I-J)	error	
	Graduates in	Physical activity and sport			
	physical education	sciences graduates	783*	0.26	0.008
2 Da vou	physical education	Both degrees	-0.283	0.229	0.435
3. Do you	Physical activity and	Graduates in physical			
constantly use the	sport sciences	education	.783*	0.26	0.008
command	graduates	Both degrees	0.501	0.281	0.176
		Graduates in physical			
style?	D-41- 1	education	0.283	0.229	0.435
	Both degrees	Physical activity and sport			
		sciences graduates	-0.501	0.281	0.176
	0.1	Physical activity and sport			
5. Do you	Graduates in	sciences graduates	-0.191	0.215	0.648
constantly	physical education	Both degrees	-0.141	0.19	0.736
use the	Physical activity and	Graduates in physical			
reciprocal	sport sciences	education	0.191	0.215	0.648
teaching	graduates	Both degrees	0.05	0.232	0.975
style?		Graduates in physical			
		education	0.141	0.19	0.736
	Both degrees				
		Physical activity and sport			
		sciences graduates			
			-0.05	0.232	0.975
	Graduates in	Physical activity and sport			
	physical education	sciences graduates	1.112*	0.233	0
6. Do you		Both degrees	0.426	0.205	0.095
constantly	Physical activity and	Graduates in physical			
use the	sport sciences	education	-1.112*	0.233	0
guided	graduates	Both degrees	686*	0.251	0.018
discovered		Graduates in physical			
style?	Both degrees	education	-0.426	0.205	0.095
	Dom degrees	Physical activity and sport			
		sciences graduates	.686*	0.251	0.018
8. Do you	Graduates in	Physical activity and sport	1.301*	0.243	0

constantly	physical education	sciences graduates					
use the		Both degrees	0.419	0.214	0.125		
creative	Physical activity and	Graduates in physical	Graduates in physical				
style?	sport sciences graduates	education	-1.301*	0.243	0		
		Both degrees	882*	0.262	0.002		
		Graduates in physical					
		education	-0.419	0.214	0.125		
	Both degrees	Physical activity and sport					
		sciences graduates	.882*	0.262	0.002		

<sup>\*</sup> The difference of means is significant at .05.

#### DISCUSSION

Regarding if physical education teachers knew teaching styles when they started to work, this research show that teachers who have both degrees (degree in Physical Education and graduates in physical activity and sport sciences), have more knowledge about teaching styles in this first time. The same way, teachers with both degrees are the ones who had had courses in the previous year about teaching styles in physical education in comparison with teachers who are graduates in physical education. Some researches claim that students finish their initial education and they feel insecure. It is for this reason that students have to learn through practice, that is "learning by doing" (Johannes, Fendler and Seidel, 2013).

In addition, the use of different teaching styles depends on the degree. Thus, teachers who are graduates in physical activity and sport sciences use the command style more often than teachers who are graduates in physical education. These results coincide with the research by Cothran et al. (2005), who carried out a study in different countries, observing that one of the most used styles is the command style. Similarly, Jaakkola and Watt (2011) and Hewitt and Kenneth (2013), through their research in different schools in Finland and Australia respectively, concluded that one of the more commonly used teaching styles is the command style. In addition, Boyce (1992) and Derri and Pachta (2007), in their research, observed a greater use of the command style because this style makes it easier to improve the skills which are worked on and learned in physical education classes, as well as improving the retention of such learning.

In addition, the results about if teachers constantly used task assignment, the same style as Mosston's practice style (1986), show that teachers who have both degrees used this style more often than teachers who are graduates in physical education. These results reflect the findings obtained in the research by Curtner - Smith et al. (2001) and Cothran et al. (2005), who say that, other than the command style, the practice style is another teaching style more used because it is the most effective for learning sports skills. Thus, Jaakkola and Watt (2011) and Hewitt, Kenneth (2013) state that, although the command style is one of the styles used more often, physical education teachers also often use the practice style. In addition, Boyce (1992) in his research claims that the task assignment style is used because it helps to improve the learning and retention of students in physical education. In contrast, Brya, Sánchez and Wallhead (2014), claim that although

practice ando command style are used, students prefer used the inclusion style, because it allows more autonomy and improves their motivation.

Regarding styles that favour students cognitively, this research shows that the use of the guided discovery style depends on the degree held by the teacher. Thus, this style is used more often by teachers who are graduates in physical education and teachers with both degrees than teachers who are graduates in physical activity and sport sciences. Similarly, with respect to the problem solving style, results show that teachers who are graduates in physical education and teachers with both degrees used this style more compared with teachers who are graduates in physical activity and sport sciences. In the research of Medina and Viciana (1996) and Delgado (1998) it is possible to observe that styles which cognitively favour the student are the ones most often chosen by physical education teachers. In addition, Pithers (2002) claim in his research that cognitive learning allows a major individual learning, and therefore students find great satisfaction in their learning and attitudes in classes. This preference about styles which cognitively favour the students, according to the results of research by Morgan, Kingston, and Sproule (2005) and Derri and Pachta (2007), is due to enabling better retention of knowledge as well as improving the class atmosphere and motivation.

Finally, regarding the free exploration style, it is revealed that teachers with both degrees and teachers who are graduates in physical education used this style more often than teachers who are graduates in physical activity and sport sciences. In the same way, Delgado, Medina and Viciana (1996) and Delgado (1998) show in their research that the creative styles are included as one of the five styles preferred by physical education teachers, which could be because creativity is associated with intelligence (Andiliou and Murphy, 2010).

In others styles which are analyzed, it do not find significant different regarding physical education teachers' degrees. Nevertheless, there are researches which show that teaching style such as reciprocal and the self-check styles improve the learning in students (Kolovelonis, Goudas and Gerodimos, 2011).

To summarise, teaching styles are important for giving physical education classes, because they influence learning and motivation in the students (Morgan et al, 2005 and Salvara, Jess, Abbott and Bognar, 2006), as well as academic achievement (Isaza and Henao, 2012). Despite this, teachers prefer to use various teaching styles in the same physical education class, because this facilitates the achievement of objectives (Cothran et al., 2005). Teachers should encourage students to get involved cognitively in their learning, and in this way to increase their learning potential and favour a comprehensive education and motivation (Goudini, Ashrafpoornavaee, and Farsi, 2019; Smith, 2000).

# **CONCLUSIONS**

Thus, it concluded that the knowledge about teaching styles in physical education, the realization of course year about them, and what teaching styles used more often depend on the degree.

It can be because of contents teach in different degrees and therefore, how teachers are prepared to give a class.

For this reason, it should research about the knowledge of physical education teachers about different methodologies when they finish their degree.

Thus, it is important to keep in mind that the use of productive styles has a positive influence on the students' learning, and continuous education is essential for being able to use them.

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