Motivation and resistance as predictors of sports practice expectations: a case study of the
Physical and Sports Activity students of the Central University of Ecuador

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Abstract: This study analyzes factors that may influence the expectations of practicing future sports. Among these factors, the motivation and resistance towards the practice of physical activity and sports from 300 students of the Central University of Ecuador are analysed. The metaphorical constructions of the students are also interpreted in relation to the impact that the physical activity and sports -PAS has in their personal lives. The metaphorical constructions of the students, in relation to the meaning that the PAS represents in their personal life are also considered and the students’ perception of their Physical activity and Sports teachers also is requested. Finally, the expectations of PAS practice that they express are taken into account. The methodology is qualitative with an interpretative approach. The data collection technique is an interview that allows you to understand the problem from the perspective of its protagonists. In the data processing, the Aquad 6 computer program is used, which allows the analysis of the narratives through categories and codes. The results show that motivation exceeds resistance, and that the lack of time is its great difficulty to practice. In the study of metaphors, the level of satisfaction indicated, coincides with the metaphors of the value of PAS in personal life as a source of well-being and health. The findings show high expectations which could be correlated with the positive satisfactions in practice, the image of the teaching staff and the vital relevance they attach to the PAS.

Keywords: physical and sports activity practice, university students, driving force and resistance, teacher vision and practice expectative.

Introduction

The use of student voices in Physical Activity and Sports research -PAS, is a necessary methodology if we want all the complex variables that affect knowledge of the field to be considered. On the other hand, in the social, curricular and academic field we cannot expect any democratization of the PAS environment without considering the students’ cognitive and emotional processes. Attending to and analyzing the voices of students allows us to involve them in educational decisions (Enright, Coll, Ni Cróinín, & Fitzpatrick, 2017). We cannot forget that authentic learning needs reflection in collaborative and situated processes. All this contributes to a scientific action in the PAS spaces. Sfard and Prusak (2005) defend the narratives and life experiences to investigate learning as a culturally shaped activity. Individual identity is reflected in our voices and narratives, stories about ourselves, which when agglomerate it in a certain context, become a collective voice of a given context. The aforementioned authors stress the need to take into account the thinking, beliefs, attitudes and values of the PAS student in order to know the social and cultural influence from their environment. Numerous sport field researchers have used strategies that allow athletes to express their difficulties and needs. In this sense, Van Raalte, Vincent and Brewer (2016) propose the strategy of «self-talk», used by teachers and coaches as an internal and reflective dialogue, whether verbalized or written. In the self-talk we can appreciate victimization or decisive attitudes that effect an athlete’s behaviour. Other researchers such as Whitehead, Jones,Williams, Rowley, Quayle, Marchant and Polman, (2018) and Taylor (2017) have used cognitive and emotional strategies such as thinking out loud or self-reported as research tools. Athletes who verbalized their mental and somatic states about the task were benefited by the strategies according to the mentioned authors.

In addition to cognition and emotional perspectives, we have used metaphors in our research as an instrument of student thought analysis. In education research, an effective way to discuss students or teachers thinking is through
metaphors (Martínez et al., 2017). Students treasure a personal and social history, often intuitive and unconscious, which leaves an indelible mark on their mind, and could mark certain behaviour of action in their future professional practice. This belief is difficult to change as long as they do not consciously analyse it, hence its importance.

Rhodes, McEwan and Rebar (2019) place the perspective of Kahneman (2000), which establishes two systems of thought, as a dual theory. Kahneman (2011) in this dual perspective called System 1 of thought as a fast, intuitive and emotional thinking. In a sense it is in line with the personal metaphors, used in research to discover non-reflexive, spontaneous thoughts and derived from previous and cultural experiences not mentally processed. System 2, referenced by the aforementioned author, identifies a slower, conscious and reflective thought, for example when students write reflective diaries. The context has to do with both systems, because there may be a social context of support for shared reflection, or a context that precipitates actions and thoughtless responses.

With this consideration, we have selected interpretive research as a strategy for collecting and interpreting this kind of information. Our intention is to use the analysis of the student’s thinking to recognize predictors of voluntary practice.

Motivation and resistance to physical activity and sports of university students as predictors of future practice

The students’ satisfaction and resistance can be a predictor of their intention to persevere in sports practice in the future. Researchers as Ryan y Deci (2017) study the motivation applied to teaching and learning developing the so-called perspective of self-determination. Following this line, McDavid, Cox and McDonough (2014) find that levels of autonomous regulation and achievement are positive predictors, while absence of motivation or lack of self-regulation capacity complicates continuity (Brick, 2015). Along these lines, Behzadnia, Adachi, Deci and Mohammadzadeh (2018) investigated whether strategies to support student autonomy versus steering control influenced persistence in the practice of PAS finding that students felt better motivated with the strategies of support for autonomy while directive control produced more frustration, abandonment and low persistence.

Undoubtedly, the expectations of PAS practice in leisure time depend on an adequate balance between motivation and determination, driving force and difficulties. The motivation to continue practicing outside the regulated teaching environments may have increased thanks to several factors, for example the passion of the PAS teacher, and his methodological strategies as explained by Reeve (2016) and Ryan and Deci (2019). Teachers who have used self-regulation and autonomy have better prepared students to voluntarily continue with the PAS. Human needs regarding autonomy, achievement, socialization, and decision making require a teacher capable of creating a learning environment appropriate to these needs if you want to achieve a path of determined intentions in the student regarding the practice of PAS.

Haerens, Kirk, Cardon, De Bourdeaudhuij and Vansteenkiste (2010) investigated the motivational levels of high school students and their relationship with PAS practice in college. Taking data from the UK and Belgium, they infer that there is very little transfer between PAS practice in Secondary Education and university level practice. The opinion of the university students is that the PAS of Secondary Education has not prepared them to be involved in PAS outside of regulated education. PAS occurs in a complex learning environment that includes teaching strategies used by teachers, intended results, and motivational climate, so it is difficult to identify the variables of demotivation. However, it is widely accepted that the practice of PAS influences future expectations. For example, De Meester, Haerens and Cardon (2017) investigated whether extracurricular practice is a predictor of future involvement in that practice. On data on the participation of students who are offered extracurricular practices, they conducted a study in Belgium and found that students who participated in extracurricular practices had higher expectations and motivations to continue (Cloes, 2017).

Of course, the weight of the context and the economic, family, labour and cultural difficulties also count to a great extent. And each of them can be accompanied by demotivation and resistance. Research in PAS needs to incorporate the cultural and ethnic context into its agenda (Weinberg et al., 2000) since most research hadn’t been produced until a few decades ago in North America. Until the 90s there were not even 10% of studies published outside these perimeters, which has promoted a dominant vision in PAS research. In disadvantaged context it is necessary to consider factors such as resilience or strength to resist in such adverse context (Hill, Den Hartig, Meijer, De Jonge & Van Yperen, 2018). Studies are needed on the basis that there are contexts where the most basic needs can be superimposed on the needs described by the theory of self-determination (Deci & Ryan, 2016), for example there are countries where transport is a big problem, buses are insecure, running around the city is reckless, and a student’s economy does not allow him to train, so all of this must be considered.

With this intention, this research seeks to see the influence of the relationship between motivation, resistance and image of teachers in expectations and intentions to voluntarily persecute PAS in the future, in students from a Latin-American country.

Metaphorical images as predictors

The construction of metaphors is based on the consideration that we learn from our experience and the social relationship during our life trajectory. This learning marks our disposition, motivation and goals in life. Somehow learning such an environment shapes us, as our brain and mind conforms our learning. In this process, we tend to turn our experiences in metaphorical stories that give meaning and expression to our life, our thinking and our emotions. Metaphors is an interplay between experience, context and mind. Not only keeping the footprint of our past history, metaphors also aim at objectives and driving us to action (Saban, 2010). A prolific number of researchers have chosen metaphorical narratives as a tool of research. We must not
forget that we are social beings and our life experiences are social experiences. The metaphors of our lives become mental models through a social and cognitive dialectic (Lakoff & Johnson, 1999). Metaphorical stories are determined by the processes of enculturation, which are reflections of a particular culture. This allows us to observe and mentally process our environment (Saban, Koebeker, & Saban, 2007).

The persistence of beliefs and their impact on personal identity requires its verbalization and assumption. The construction of educational metaphorical stories is an intuitive act that intersects life experiences, socialized and conceptualized their school life history. Following this argument, Mahllos, Massengill Shaw and Barry (2010) consistently emphasized that one way to examine the beliefs of students in initial teacher education is to identify the conceptual tools they use to make sense of their life, with the metaphor being the most powerful resource. As Rosaen and Florio-Ruane (2008) point out that metaphors conglomerate beliefs, knowledge, feelings and actions that guide practice. Thus, the metaphorical stories could help make the diluted students’ conceptions conscious.

**How can PAS teachers in the university field and metaphorical images of previous experiences become predictors of PAS in students?**

There are two factors inherent in teaching. The personality of the teacher and his methodologies. These two factors help to create a certain climate or learning space. Normally there is a high correlation between both factors. An executive professor, does not usually use autonomous learning methodologies, or student-centered learning, and if he does, then he will not be able to create a real autonomous environment.

Gutiérrez, Tomás and Catalayud (2017) have underlined the role of the PAS teachers to develop disposition and propulsion towards physical activity. An authentic PAS teacher is expected to expand students’ opportunities to learn, participate and benefit from PAS inside and outside academic centers. The teacher is a model, an image for their students, the commitment and responsibility that entails requires a great passion for PAS (Asún, 2010). The teaching staff establishes the scaffolding and the environment that supports or limits the opportunities that the student can obtain from PAS learning. Ayvazo, Ward and Stuhr (2010) highlight that the mastery of the contents and their skills by teachers are positive influences on students. Other researchers, Whittle, Telford and Benson (2015) highlight the positive response of the student to teacher availability and empathy; and to the delegation of responsibility showed that what works best in Physical Education are those classes where the teacher gives students a choice of tasks and knows how to use the rules of play for creating a democratic atmosphere in the classroom (Cothran et al., 2005). The physical education settings are relevant factors; those methodologies fostering motivation, autonomy and decision-making by students can provide greater satisfaction, interest and even higher levels of formal physical activity outside the educational setting (Krijgsman, Mainhard, Tartwijk, Borghouts, Vansteenkiste, Aelterman & Haerens, 2019).

On the contrary, Shen, Sun and Bernard (2010) found that the teacher’s lack of support leads to demotivation. This absence of support produces low expectations of future practice in the student. In this sense, students held that they disliked physical education classes because they did not like the teacher. Highlighted aspects such as the hurdles perceived by students, were lack of purpose and poor and monotonous activities. It is therefore the responsibility of physical education teachers to design a curriculum using the most up-to-date information, organizing activities to meet the needs of all students (Chen & Hypnar, 2015) and engaging them in learning, but above all creating a suitable environment for learning. Therefore, it is important to consider the students’ perception of their teachers (Larsson & Quennerstedt, 2016).

In addition, the cultural context of each society that affect students. Not all responsibility for success or failure can be attributed to teachers. Morgan and Hansen (2008) find how teachers contemplate institutional barriers such as lack of time, resources, large groups, and marginalization of the PAS. The lack of confidence, knowledge and experience of teachers are described as predictors of low quality teaching. The situation has been diagnosed but has not changed. Neither professional development nor resources improve, which shows that despite the alert of international organizations little is done and less is invested. As Cecchini et al. (2001) summarizes the influence of teachers in intrinsic motivation and involvement, it is necessary that teachers are qualified to create a stimulating environment.

Serra, Zaragoza and Generelo (2014) study the influences of parents, friends and teachers. Most studies, such as Van der Horst (2007), highlight the influence of friends, and other studies see the influence of teachers as negative (Trudeau & Shepard, 2005). Cox, Duncheon and McDavid (2009) see both teachers and classmates as a resource for students’ disposition in relationships, motivation and emotional response. Both influence motivation and enjoyment if there is teacher support and friendship and acceptance by both parties. Similarly, Woods, Tannehill and Walsh (2012) find enjoyment as the most influential motive that affects participation in physical activity and, likewise, conclude that student enjoyment and attitudes of Physical Education classes would increase if students were provided with a more appropriate learning environment and add that, in addition, students are more likely to enjoy their experiences and maintain intrinsic motivation by conducting PAS outside of schools.

In the study by Li, Chen and Baker (2014) positive attitudes were strongly associated with obtaining physical, personal and social benefits of Physical Education. As the authors have demonstrated support strategies, they must be accompanied by a structured learning environment that prevents the student from feeling lost (Reeve, Ryan, Deci, & Jang). This support works best, in our research (Ávalos, Martínez, & Merma, 2017) when produces in a scenario of collaborative practices where the objective is common and support offered to the group rather than to the individual. In the autonomous group, prosocial and mutual help behaviors are more frequent (Cheon, 2018).

In accordance with Romar, Åström and Ferry (2018) preservice teachers are influenced by previous acculturation
experiences. Therefore, both the reflective opinion of the student about his current PAS faculty, and the intuitive image taken from previous experiences that are configured through metaphors (Martínez, Ávalos, & Merma, 2017) can be instruments of reflection and debate to integrate meaningful new experiences.

Research context

In Latin America, the landscape of physical inactivity is increasingly worrying. The latest data from the World Health Organisation -WHO, confirms this. Although Ecuador has better rates than other countries, 27% of its population still does not meet the minimum (Guthold, Stevens, Riley, & Bull, 2018). Another important element of analysis in this context is the fact that physical inactivity differs according to socioeconomic level, thus people of lower socioeconomic levels tend to be more inactive. The study of Guthold et al. (2018) aims that more than 40% of the population is irregularly active in Latin America. Similarly, the latest survey of sports habits in Ecuador (Ministerio del Deporte de Ecuador, 2012) determines a sedentary behaviour in the Ecuadorian population, since 51% of respondents do not practice any sport. Additionally, the Survey Living Conditions 6th round 2015 (INEC, 2015) reveals that 80% of children between 5 years and under 10 years spend at least two hours a day in front of the TV. In Spain, we found research on the relationships between digital technologies, sedentary lifestyle and physical activity, for example, Beltrán et al. (2017) reports how adolescents with better health status have low sedentary behavior frequencies, as well as Golpe, Isorna, Gómez and Rial (2017) who underline the negative relationship between intensive internet use and sports practice.

In the case of the university population, the investigations carried out also reveal problems with the practice of physical sports activity of the students (Martins et al., 2019). In the university context in Latin America or Ecuador, studies show the transition from one stage to another is identified as one of the critical moments for abandoning the practice of physical activity and sport. Gómez, Sánchez and Labisa (2020) points out in the case of university students, possibly the fact of facing new situations such as the beginning of their university studies where they have to face demands regarding their academic performance, they can lead to a sedentary lifestyle. Also, they confirm this criterion and assert that research in Spain determines that the proportion of practitioners involves increasing the age, until reaching a time when the decrease in practitioners is high, and coincides with the age range of 18 to 25 years. In addition, the beginning of a university career usually implies a decrease in physical activity levels.

In this conceptual framework outlined, we have designed the research issues that have guided the study:

1. What motivation and resistance to the practice of physical activity and sports that the students of the Central University of Ecuador express?
2. What image of the PAS faculty do the students of the University of Central Ecuador perceive?
3. Which expectations of the practice of physical activity and sports do the students of the Central University of Ecuador maintain?

Research Methodology

Using an intentional and dynamic sample, students from the Central University of Ecuador were invited to participate. 300 students decided to do so voluntarily, most of them belong to the Faculty of Physical Culture, the remaining participants were student from different faculties who have chosen optative subjects from the Physical Culture curriculum, then all of them were linked to the practice of physical and sports activity. The 43.33% represent the male gender and 56.67% represent the female gender. The age of the students ranges from 18 years to 29 years.

The data collection instrument has been the semi-structured interview to access the thoughts and opinions of the participants. Individual written interviews were conducted, prior to the signing of the informed consent, information on the objectives of the study and the guarantee of the confidentiality of the information and anonymity of the participants.

For the data processing and analysis, the Aquad software program, developed by Huber and Gurtler (2013) was used. This program allows to identify, categorize and codify the units of meaning, and helps to relate categories and draw conclusions. Once the interpretative analysis of the emerging units of the narratives was carried out, a coding instrument was developed, recursive triangulation between researchers were performed until a definitive categorical map was obtained. For the presentation of the findings, tables of absolute and relative frequencies were developed, showing the interrelationships of codes. The research both for its conceptual framework -the analysis of the voices and thoughts of the students-, and for their narrative procedure of analysis is part of the qualitative paradigm, however we have added frequencies as a means of clarifying and visualizing results, usual fact as complement to qualitative interpretation. The exemplification of codes we believe helps the qualitative understanding of the results. The problem of concision limits the amount of narratives that can be presented.

Presentation of results

The present results contain the ordered sequence of partial results. In the Discussion the interrelation between categories is discussed in order to add coherence and consistency to the research. The description of the data is supported, in a complementary way, with tables and figures that show the absolute frequency (FA) of each code or number of times that participants narratives refer a determined code and the correspondent absolute frequency percentage (% FA).

Satisfaction and resistance towards the practice of physical and sports activity

In this section, the motivation that lead the students towards the practice of PAS is analyzed, as well as the causes of dissatisfaction or resistance that move them away from it. Alongside the tables are some narratives of the participants that exemplify the coding performed.
As can be seen in Table 1.1, according to the narratives of the students interviewed, the main reasons are health, satisfaction and enjoyment:

*It relaxes me a lot and helps me keep my body and soul healthy (Participant 25).*

I do it to maintain good health, also to avoid being overweight and for a better quality of life (P 168).

The attraction and passion satisfaction and motivation of university students for physical activity as one of their main reasons, shown in the following fragments:

The main cause I practice is because I love sports (P. 24).

The cause I practice sports is because I love sports (P. 25).

Other reasons expressed, to a lesser extent by both men and women, are: aesthetics, emotional and mental control, socialization, professionalization, obligation and earning money.

**Resistance to the practice of physical activity by students**

Next, the coded narratives that warn of the main causes of resistance on the part of the students towards physical activity and sports are exposed (see table 1.2).

| Causes of resistance to physical activity in participants | Codes | Participants narratives |
|----------------------------------------------------------|-------|------------------------|
| 1.2.1 Inadequate methodologies                            | 9     | 28,28                  |
| 1.2.2 Lack of time                                        | 111   | 35,35                  |
| 1.2.3 Prefer other activity                              | 20    | 6,36                   |
| 1.2.4 Illness                                             | 12    | 3,82                   |
| 1.2.5 I feel insecure / fearful                          | 5     | 1,59                   |
| 1.2.6 Economic, transport or others difficulties          | 4     | 1,27                   |
| 1.2.7 Don’t like, dislike, total                        | 3     | 0,93                   |
| Total                                                     | 144   | 47,77                  |

Table 1.2 shows that the main reason is the lack of time. The following piece of text expresses the experience of the participants in relation to the lack of time:

Due to lack of time due to university studies (P. 5).

Another reason corresponds to the preference for other activities, highlighting the use of social networks as one of the main activities:

Because in my free time I do other activities that seem more fun to me, like the use of social networks (P. 165).

Finally, the narratives in which respondents argue that they do not perform physical activity due to laziness, insecurity, illness or because they do not like it appear less frequently.

**Metaphoric Thought**

As we explained at the beginning, they were asked to build a metaphor that represented what sense the PAS had in their personal lives. When analyzing the metaphors, there were six different categories in which the conception of PAS as a vital necessity, something idealized, had the highest frequency of metaphors. On the contrary, the PAS as a profession or fun were not relevant (see table 1.3).

| Table 1.3 Physical activity and sports metaphors | Participants narratives |
|-------------------------------------------------|------------------------|
| Codes                                           | AF | AF%  |
| 1.3.1 A vital and essential necessity           | 49 | 25,88 |
| 1.3.2 A mental and emotional heal               | 32 | 18,60 |
| 1.3.3 Physical Health                           | 54 | 31,39 |
| 1.3.4 Self-improvement                          | 16 | 9,50  |
| 1.3.5 Fun / Socialization                       | 19 | 11,04 |
| 1.3.6 Professionalization/Competition           | 2  | 1,16  |
| TOTAL                                           | 172|       |

The metaphors that highlight the importance of AFD for health, followed by those that express an imperious and vital need that you could not do without are the most numerous:

Physical activity is an oak full of strength and life.

Physical activity is like an impetuous river that seeks to provide solutions to social and personal problems.

Physical and activity sports is a morning walk that gives you the wonderful things in life.

PAS is a problem turned into a challenge, and your tiredness turned into greatness.

The sport is like a paradise.

Physical Education is like a breath.

It is relevant to highlight in the design of metaphors, students show a great expressive force.

**Students’ perceptions regarding their physical education teachers**

The answer to the question about actual teachers who exhibit a quite good opinion about teacher contrasting with a lower appreciation of the methodologies (table 2.1).

| Table 2.1 Student opinion regarding physical education teachers | Codes | Participants narratives |
|---------------------------------------------------------------|-------|------------------------|
| Codes                                                         | AF | AF%  |
| 2.1.1 Good methodologies                                      | 43  | 10,59                  |
| 2.1.2 Good teacher                                            | 203 | 52,18                  |
| TOTAL                                                         | 246 | 62,38                  |
| 2.1.3 Inadequate methodologies                                | 89  | 22,87                  |
| 2.1.4 Inexperienced                                           | 55  | 14,13                  |
| TOTAL                                                         | 144 | 37,0                   |
| 2.1.5 Good methodology                                        | 389 | 100                    |

Table 2.1 highlights the satisfactory opinions of the interviewees through the code about teachers. Even though a majority consider that their teachers have been excellent and well prepared and have used appropriate methodologies, the code inappropriate methodology appears as another reason for dissatisfaction. Following is a fragment of the narratives that record the positive experiences:

I think they do their job well and are trained (P. 285).

Reflecting the negative experience, we present the following text units:

The physical education teachers were strict and the physical activities were basically the same every year and no specific sport was strengthened, I think they lacked preparation (P. 99).

I think they need to encourage more physical education activity with new methods that make it more interesting and fun (P. 280).

Although there is a higher percentage of positive perceptions, it should be noted that both positive and
negative perceptions are directly related to the methodology in the teacher’s learning and preparation process. It will depend on the perception that students have.

**Metaphoric vision of PAS teachers**

The construction of one metaphor that reflected the image of an PAS teacher was done by half of the participants (table 2.2).

The metaphors designed by the participants involve four basic interpretations. The less predominant metaphors are that which contains a meaning of a paternalistic and a transmitting and directing professor.

The metaphoric vision of PAS teachers

| Codes                        | AF  | AP% |
|------------------------------|-----|-----|
| 2.2.1 Guide                  | 60  | 42.25|
| 2.2.2 Idealized              | 34  | 23.94|
| 2.2.3 Directive transmitter of knowledge | 29  | 20.42|
| 2.2.4 Paternalistic          | 19  | 13.38|
| Total                        | 142 |     |

The physical education teacher is like a grandfather, his teachings do not forget them.

The idealized teacher:

- The physical education teacher is like the sea because his daily mission is a whole.
- The teacher progides your way to touch the sky with your hands.

Finally, the teacher code as a guide, the majority metaphor:

- The teacher is a great carpenter who builds the student as a true human being.
- The Physical Education teacher is an engine that starts and drives us.
- The teacher is the one who shows the path that builds your knowledge.
- The teacher is like a foundation of a house.

**Expectations regarding the continuity in the physical and sports activity that you practice**

| Codes                        | AF  | AP% |
|------------------------------|-----|-----|
| 3.1.1 I will continue practicing Physical activity | 217 | 71.38|
| 3.1.2 I would like to increase practice | 83  | 27.30|
| Total                        | 300 | 98.68|
| 3.1.3 I will not practice physical activity | 1   | 3.31|
| Total                        | 301 |     |

Finally, we reflect the results obtained from the question about future expectations about the practice of PAS in their free time.

Table 3.1 shows that the positive responses represent the greatest presence and also the increment code is relevant:

- I plan to continue practicing, because physical activity provides me with a good state of physical and mental health (P. 82).
- I plan to increase the time I dedicate to the practice of sports, because I am aware of the importance and benefits that it gives to the physical and emotional well-being of people (P. 59).

**Discussion and Conclusions**

What motivation and resistance to the practice of physical activity and sports do the students of the Central University of Ecuador express?

Our findings coincide with those made by McDavid et al. (2014), about the strength of satisfaction and motivation to act as predictors of high practice expectations Behzdnia et al. (2018). The results obtained on motivation in the practice of PAS as a means of emotional and physical health of students has been a coincidental finding in several investigations. However, as Adams et al. (2006) points out, it is necessary for universities to include in their curriculum knowledge the need for physical activity and sports for health and availability of resources.

Our results also converge with other research on motivation to perform physical activity and sports, such as enjoyment, and entertainment, often emerging in the
narratives of the interviewees (Fradeja & Espada, 2018). These results coincide with those found by Wallhead, Garn and Vidoni (2013) and Poldin, Valeeva and Yudkevich (2016), being fit and making new friends informing the reasons for social approval and demonstration of skills. However, the low value granted by participating students to socialization in the practice of PAS cannot be ignored because the self-regulation of the practice of PAS is also a product of interpersonal interactions. In other study conducted with adolescents the socializing function of sport and what it entailed in entertainment was much more present. This can lead us to conclude that although the value of the competition is not very present, neither is the team and collaboration vision to achieve the goals. It seems that the participants are not aware or value the socialization that sports practice produces. Perhaps too individualistic teaching has influenced their perspectives. Therefore, in the initial studies of Physical Education and Sports, it is necessary to work with more collaborative methodologies and underline the need to develop social skills in this field. Wallhead et al. (2013), sports practice can be highly relevant in the construction of affiliation and enjoyment motivations. For example, Van den Berghe, Vansteenkiste, Cardon Kirk and Haerens (2014) points out how many students practice AFD for enjoyment and for the emotion inherent in the task. Therefore, the scarce presence of the perception of physical activity as a means of socialization and fun among the participating university students is worrying. It is possible that students from both countries where climate and customs favour life outside the home do not need PAS to socialize.

In relation to the resistance to the practice of physical activity, one of the main reasons is the lack of time (35.35%) for university studies, with a percentage It should also be noted that in the results of the causes of disaffection To the physical and sports activity, a group of students have appeared that state that they prefer other activities (6.36%). The participants report that they prefer to carry out activities such as the use of social networks, or reading, manifestations that coincide with the study of (Ávalos et al., 2017).

Which expectations of practice of physical activity and sports do the students of the Central University of Ecuador maintain?

The results of this codes make understandable the high future expectations of PAS practice in their spare time that agglomerated on the expectations of continuing and increasing the practice (codes 3.1 and 3.1.2), which is consistent with the positive results of its motivation and satisfactions, as well as the presence of a metaphorical vision of the highly enthusiastic professor (Sfard, 2009).

We can conclude that both the satisfaction and motivation which students receive by playing sport, the positive vision of their teachers, their thinking and beliefs reflected in their metaphors, predict that the positive results of their high expectations of sports practice strengthens us in the prospects of motivation and self-determination (Reeve & Cheon, 2016).

Finally, through the analysis it can be confirmed that the categories created respond to the stated objectives and have allowed us to reach the final conclusions and the prospects of the investigation. Likewise, research through metaphors has shown a useful tool to deepen the beliefs of the participants, which is fully corroborated in the studies of Martínez et al. (2017); Martínez, Sauleda and Huber (2001) and Mahlios et al. (2010), that emphasize that their value is also that the intervention alternatives can be planned based on the participants’ speeches.

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