Verbal Aggressiveness and Leadership Style of Sports Instructors and Their Relationship with Athletes' Intrisic Motivation

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The purpose of the study was to examine intrinsic motivation of athletes and its relation with instructors' verbal aggressiveness and leadership style. The sample of the study consisted of 168 athletes (95 boys and 73 girls), 15 - 19 years old (M = 16.5, SD = 0.5), participating in different individual and team sports (basketball, volleyball, football, long jump, pole vault, 200 m). Every participant completed three questionnaires, the Verbal Aggressiveness Questionnaire, the Intrinsic Motivation Inventory, and the Leadership Scale for Sports. The results revealed differences existing among variables of the instruments in terms of sex and type of sport (individual or team sport and contact or non contact sport). Pearson correlation revealed a significant positive relationship of coaches' verbal aggressiveness with anxiety, autocratic style, and a negative significant relationship concerning coaches' verbal aggression with enjoyment, ability, effort, and democratic style. Findings and implications for instructors' type of communication were discussed and future research suggestions were included.

Keywords: Athletes; Intrinsic Motivation; Coaches; Verbal Aggressiveness; Leadership Style

Introduction

Intrinsic Motivation

The concept of motivation is generally referred to the way with which each person prompts himself to achieve his objectives. Related research in this field found that individual's achievement targets are determined by whatever the individual considers important and desirable (Dweck & Leggett, 1988; Nicholls, 1989, 1992; Duda, 1992, 1993). A theoretical frame that is often used and more for the study of motivation in the field of physical education is the theory of self-determination (Deci & Ryan, 1985; Ryan & Deci, 2000). Intrinsic motivation appears to have the higher level of motivation which derives from self-determination. As intrinsic motivation is defined the participation in activities that people perceived interesting and pleasure (Vallerand, Deshaies, Cuerrier, Pelletier, & Mongeau, 1992). According to Vallerand and Rousseau (2001) there are three main types of intrinsic motivation: intrinsic motivation "to know", intrinsic motivation "to accomplish", and intrinsic motivation "to experience" stimulation. Ryan and Deci (2000) suggested that intrinsic motivation is important for self-determined and autonomy behaviour.

Moreover, it has been shown to relate positively with competence and satisfaction. A study conducted by Jowett and Ntoumanis, (2001) revealed the existence of a reciprocal relationship and interaction between coaches and athletes. In sports field Mageau and Vallerand (2003) suggested that intrinsic motivation positively related with autonomy-supportive climate provided by coach. Also, Amorose and Horn (2000) suggested that a low in autocratic style and high in democratic style coach leads their athletes to a high level of intrinsic motivation. Furthermore, the coach who used mainly the democratic style and rarely the autocratic style, it is likely to advance an autonomy climate which, in turn, would have a positive impact on intrinsic motivation. Results of another study (Hollembeak & Amorose, 2005) indicated the existence of a significant positive relationship between intrinsic motivation and athlete's perceived competence, autonomy and relatedness. Also, aforementioned researches found that all coaching behaviours (training and instruction, positive feedback, social support, and democratic behaviour) positively associated with intrinsic motivation except of autocratic behaviour which related negatively. Furthermore, the above study indicated that individual sport athletes perceived that their coaches were more likely to use democratic style and reported higher level of intrinsic motivation, autonomy and relatedness compare to team sport athletes. On the contrary team sports athletes perceived that their coaches tend to involve more in autocratic behaviour and training instruction than individual sport athletes.

A clear comprehension of motivation, however, requires that the target of behavior should be recognized. The objectives of individuals seem to determine the type of motivation they experience, which in turn is related to certain behaviors. Frederick and Ryan (1995) support the notion that the participation in activities for a long period of time is more likely to happen when individuals are internally rather than externally motivated. Moreover, it has been found that internal motivation predicts the intention of students to maintain their attendance in physical education activities (Goudas, Biddle, & Underwood, 1995). On the other hand, detachment from sports appears to be connected with decreased internal motivation (Pelletier, Fortier, Vallerand, Tuson, Briere, & Blais, 1995).

Verbal Aggressiveness

In all types of relationships, research consistently shows that verbal aggression leads to negative outcomes (Infante, Myers, & Buerkel, 1994; Martin & Anderson, 1995; Infante & Rancer, 1996; Myers & Rocca, 2000b) leading to learned helplessness (Infante, 1995; Infante & Rancer, 1996). Studies conducted in the academic domain showed that verbal aggression is a demotivating force in the classroom (Gorham & Christophel, 1992) that is negatively related to social attraction and liking for the source of aggressiveness (Martin, Heizel, & Valencic, 1999), student perceptions of the teacher (Martin, Weber, & Burant, 1997), perceptions of immediacy and interpersonal attraction (Rocca & McCroskey, 1999), students' feelings of learner empowerment (Burant, 1999), students' attendance (Rocca, 2004) and participation (Rocca, 2000), and students affect toward the teacher, the course content, and the recommended course behaviors (Myers & Knox, 1999; Wrench & Richmond, 2004). A negative relationship between advisor verbal aggressiveness and advisee affect found Wrench and Punyanunt-Carter (2005) and also, suggested that advisor verbal aggressiveness negatively related to advise perceived credibility. Schrodt (2003) found that students' perception of their instructor verbal aggressiveness negatively correlated with their perceptions of understanding, instructor credibility, and evaluations. Myers, Edwards, Wahl, and Martin (2007) revealed the negative impact of instructor verbal aggressiveness on their students' classroom involvement and motives to communicate with him. Research conducted by Myers and Rocca (2000a) revealed that students' state motivation negatively correlated with perceived use of seven verbally aggressive messages (attacks on competence, character, or background, malediction, ridicule, threats, and nonverbal symbols). Only three verbally messages (attacks on physical appearance, teasing, or swearing) were not related to state motivation. Myers and Rocca (2001) found that verbal aggressiveness was negatively related to students' perception of classroom climate and state motivation.

However, to the best of my knowledge, there is little research exploring PE teachers' verbal aggression in PE classes. In particular, research demonstrated that students who perceived their PE instructors as verbally aggressive reported greater learning loss in physical education classes (Bekiari, Kokaridas, & Sakellariou, 2005). In addition, Bekiari (2012) found a negative relationship between PE teachers' perceived verbal aggressiveness and students' affective learning, and satisfaction in the field of physical education. Another study indicated that the antisocial fair play behaviors positively correlated with teachers' verbal aggression, while the prosocial fair play behaviors negatively correlated with PE teachers' verbal aggression (Hassandra, Bekiari, & Sakellariou, 2007). Moreover, in physical education classes, it was revealed that there was a negative relationship between teachers' verbal aggression and lesson satisfaction, the motivation factors of enjoyment/interest, competence, and effort/importance, and the discipline factors of intrinsic and caring reasons (Bekiari, Kokaridas, & Sakellariou, 2006).

At the same time, few studies have probed into coaches' verbal aggressiveness. For example, Bekiari, Digelidis and Sakellariou (2006) found that athletes who took part in a noncontact sport viewed their coaches as less verbally aggressive compared to athletes participating in a high-contact sport. Additionally, Bekiari, Patsiaouras, Kokaridas, and Sakellariou (2006) showed that male volleyball players rated somatic anxiety higher and were more influenced by the verbal aggressiveness of their coaches than female volleyball players. Other studies mainly examined the relationship between athletes' aggressiveness and the type of sport (contact or non-contact) (Bredemeier, Weiss, & Shields, 1986; Huang & Cherek, 1999; Lemieux, McKelvie, & Stout, 2002). More often than not, though the use of verbal aggression leads to negative results in most settings, it is quite acceptable in sports. Namely, it is likely that a verbally aggressive coach should lead their athletes to be motivated to perform better in order to achieve a champion's level of competition; however, verbal aggressiveness make athletes less willing to contact with their coach.

Leadership Style

As far as leadership is concerned, it is defined as the process of influencing the activities of an individual or a group in efforts toward goal achievement in a given situation (Hersey & Blanchard, 1982). Based on situational leadership theory (Hersey & Blanchard, 1969), Chelladurai and Saleh (1980) proposed Multidimensional Leadership Theory as an application to the sports field. Also, Multidimensional Leadership Theory proposes that leadership strategies in the context of sport consist of five dimensions: a) autocratic behaviour, b) democratic behaviour, c) social support, d) positive feedback, e) training and instruction. Turman (2001) examined athlete's (wrestlers) perception and preferences as well coaches' perceptions of leadership behaviours during a season. Results indicated that the success of their goals is a determinant factor on athlete's perceptions of their coaches' use of autocratic style. Successful teams' athletes perceived that their coaches utilize the same amount of autocratic style throughout the season. In contrast athletes of unsuccessful team perceived as inclined the use of their coaches' autocratic style during the season. Turman (2003) in another study suggested that both athletes' preferences and perception of coaches' autocratic behaviours were higher at the middle and at the end of the season. In addition Turman (2003) also found that experienced coaches perceived themselves as more autocratic at the end of the season than at the beginning. Conversely, inexperienced coaches perceived themselves as more autocratic at the end of the season than at the beginning or at the middle of the season. Riemer and Chelladurai (1995) examined the differences between offensives and defensives football players concerning their perceived and preferred leadership style and found that defensive players reported greater preferences and perceived greater amounts of democratic and autocratic behaviour than did offensive players.

Loughead and Hardy (2005) investigated athletes' perceptions of coaches and peers leaders, and found that coaches demonstrated greater amounts of autocratic behaviour comparing to peer leaders, whereas peer leaders exhibited greater amounts of democratic behaviours than coaches. Concerning, perceptions of coaches' leadership styles, male athletes reported higher levels of autocratic behaviour (Beam, Serwatka, & Wilson, 2004; Chelladurai & Saleh, 1978) in comparison with female athletes. In contrast, female athletes preferred more democratic leadership behaviour (Chelladurai & Saleh, 1978) from their coaches. Amorose and Horn (2000) found that democratic style is more important to female athletes' intrinsic motivation compared to male.

Another line of research found that it is likely for autonomysupportive coaches to increase their students' motivation and satisfaction derived from the lesson and, finally, their intention to participate in physical activities during leisure time (Chatzisarantis & Hagger, 2009).

What is more, the findings of a qualitative study revealed that activity instructors' positive leadership style increased female participants' self-efficacy, satisfaction, and intrinsic motivation rendering them more willing participants in similar physical activities (Lloyd & Little, 2010).

The Problem and the Aim of the Study

According to the above, we can conclude that undoubtedly, verbal aggressiveness is negatively related to state motivation or act as a demotivating force in the educational domain. Unfortunately there does not exist any relatively study in the sports setting. A negative teacher trait such as verbal aggressiveness (Myers & Knox, 1999; Roach, 1995) that undermine learning, are similar to autocratic coaching behaviours. Also according to Lewin and Gold (1999), aggression was much more common while autocratic leadership style was operating. In addition, autocratic style can lead to social problems within the classroom. While, in sport setting, Shields, Bredemeier, Gardner and Bostrom (1995) state that autocratic coaching style facilitates the acceptance of unsporting behaviour (cheating and aggressiveness) in a team. Their statement is based on the high correlation they found between the autocratic coaching leadership style and the shared rules (cheating and aggressiveness) accepted as valid by the team. Consequently, we can assume that autocratic leadership style it is likely to act as a demotivating force not only in the educational domain but and in the sport setting also. Studies suggested that coaches have an important influence in all aspects of athletes' preparations for competition and in determining athletes' success and development (Durand-Bush & Salmela, 2002). Also, coaches are perceived to have a key point role in all aspects of athletes' career's, as well as in training and competition (Lyle, 1999).

Reviewing the literature, however, it seems that there is a lack of research exploring athletes' internal motivation with relation to verbal aggressiveness of coaches as perceived by athletes and coaches' leadership style (democratic or autocratic). This study attempted to examine intrinsic motivation of athletes and its relation with coaches' verbal aggressiveness and leadership style. More specifically, the main purpose of this study was to investigate the relation between intrinsic motivation of athletes and coaches' verbal aggressiveness and also, the relationship between verbal aggressiveness of coaches and their leadership style. The second purpose was to investigate if there were differences in verbal aggressiveness, intrinsic motivation, and leadership style, between the sexes and types of sports (individual or team sport and contact or non contact sport) that athletes participate?

Method

Participants

The sample of the study consisted of 168 Greek athletes (95 males and 73 females), 15 - 19 years old (M = 16.5, SD = 0.5). All participants were members of individual (N = 97) and team (N = 71) sport clubs. More specifically, 43 runners, 32 shooters, 8 jumpers, 32 basketball players, 26 volleyball players and 27 football players. They participated voluntarily in the study, under the instruction of male coaches as extracurricular activities in athletic clubs located in a provincial city of Greece, Trikala. Researcher was available to provide explanation throughout the data collection process.

Procedures

Every participant completed three questionnaires, the Verbal Aggressiveness Questionnaire (Bekiari, Digelidis, Hatzigeorgiadis, & Sakellariou, 2005), the Intrinsic Motivation Inventory (Ryan, 1982; McAuley, Duncan, & Tammen, 1989), and the Leadership Scale for Sports (L.S.S., Chelladurai & Saleh, 1980). All questionnaires were published in the English language and were translated into Greek with the use of back-translation procedure. The researchers gave verbal instructions prior to the completion of the questionnaires and they were present during the whole procedure to answer questions posed by the athletes. The participants were asked to respond to each statement of the questionnaires using a 5-point Likert Scale (anchored by strongly/totally disagree and strongly/totally agree).

Measures

Verbal Aggressiveness Scale. The Verbal Aggressiveness Questionnaire (Bekiari, Digelidis, Hatzigeorgiadis, & Sakellariou, 2005) is designed to assess students' perceptions of physical education instructors' verbal aggressiveness. The questionnaire was structured according to the theoretical basis formulated by Infante and Wigley (1986) and comprised of 8 items describing verbal aggressiveness (e.g., "insults toward students", "negative judgments on students' ability"). Participants were asked to respond on a 5-point Likert-type scale from 1 to 5, where 1 = strongly disagree, and 5 = strongly agree.

Intrinsic Motivation Inventory. The Intrinsic Motivation Inventory (Ryan, 1982; McAuley, Duncan, & Tammen, 1989), a 20-item version first used in Greek physical education settings (Goudas, Dermitzaki, & Bagiatis, 2000) includes four subscales: enjoyment/interest, effort/importance, competence, and pressure/tension. Responses to the items were indicated on a 5-point Likert-type scale, anchored by 1 = strongly disagree and 5 = strongly agree.

Leadership Scale. The Leadership Scale for Sports (L.S.S.), (Chelladurai & Saleh, 1980), a shorter version of the "Leadership Scale for Sports" (L.S.S.), (Chelladurai & Saleh, 1980) was used in order to measure perceived coaches' leadership style. This short version consisted of 6 items describing autocratic leadership and 5 items describing democratic leadership teaching style, only two of the five dimensions were used. Responses were given on a 5-point Likert-type scale (1 = strongly disagree, 5 = strongly agree).

Data Analysis

Statistical analysis included the use of the statistical package

SPSS (11.0). Cronbach alpha Reliability analysis was used to examine the internal consistency of the factors of each questionnaire. Pearson correlation was used to determine the relationship between the factors of the questionnaires. A t-test analysis for independent samples was used to estimate possible differences existing in terms of sex and type of sport (individual or team sport and contact or non-contact sport). Statistical significance was set at 0.05 (p < .05).

Results

Cronbach's Alpha reliability analysis of intrinsic motivation, verbal aggressiveness and leadership style. The factors of verbal aggressiveness ($\alpha = .93$) showed a high degree of reliability for the questionnaire of Bekiari et al. (2005). The factors of enjoyment ($\alpha = .85$), ability ($\alpha = .90$), effort ($\alpha = .67$) and anxiety ($\alpha = .87$) of the Intrinsic Motivation Inventory (Goudas, et al., 2000) showed a satisfactory or high level of reliability. The factors of democratic leadership style ($\alpha = .95$) and autocratic ($\alpha = .92$) of the questionnaire of Chelladurai and Saleh (1980) showed a high degree of reliability.

Correlation between intrinsic motivation, verbal aggressiveness and leadership style. Pearson correlation revealed a significant relationship existing among all factors. In particular, there was a significant positive relationship of coaches' verbal

Table 1.

Correlations among variables.

aggressiveness with anxiety (r = .73) and autocratic style (r = .91). A negative significant relationship concerning coaches' verbal aggression with enjoyment (r = -.76), ability (r = -.59), effort (r = -.42), and democratic style (r = -.92) was also noticed (**Table 1**).

Gender differences. Statistically significant differences were observed in coaches' verbal aggressiveness (t1.166 = -4.82, p < .05), enjoyment (t1.166 = 4.38, p < .05), ability (t1.166 = 3.35, p < .05), effort (t1.166 = 2.85, p < .05), anxiety (t1.166 = -3.54, p < .05), democratic style (t1.166 = 4.98, p < .05) and autocratic style (t1.166 = -4.62, p < .05) between the two genders (Table 2).

Differences concerning kind of sports. Statistically significant differences were also observed in coaches' verbal aggressiveness (t1.166 = -2.11, p < .05), democratic style (t1.166 = 2.64, p < .05) and autocratic style (t1.166 = -2.15, p < .05) between individual and team sports (**Table 3**). No differences were found regarding the other variables of the instruments.

Differences concerning sports' type. In terms of contact or non contact sports statistical analysis revealed significant differences in coaches' verbal aggressiveness (t1.166 = -2.11, p< .05), anxiety (t1.166 = -2.02, p < .05), democratic style (t1.166 = 2.98, p < .05) and autocratic style (t1.166 = -2.89, p< .05). No differences were noticed concerning the other variables of the instruments (**Table 4**).

	1	2	3	4	5	6	7
1. Verbal aggression	1.00						
2. Enjoyment	76**	1.00					
3. Ability	59**	.50**	1.00				
4. Effort	42**	.63**	.39**	1.00			
5. Anxiety	.73**	78**	51**	60**	1.00		
6. Democratic style	92**	.72**	.58**	.43**	72**	1.00	
7. Autocratic style	.91**	74**	59**	47**	.78**	93**	1.00

***p* < .001.

Table 2.

Descriptive statistics and t-test results according to sex.

Factors	Bo	Boys		Girls		р
	М	SD	М	SD		
Verbal aggressiveness	2.92	1.05	3.64	.86	-4.82	.000
Enjoyment	2.73	.88	2.23	.59	4.38	.000
Ability	2.98	1.00	2.52	.76	3.35	.001
Effort	2.70	.65	2.43	.58	2.85	.005
Anxiety	2.93	.94	3.40	.76	-3.54	.001
Democratic style	3.13	1.10	2.33	.95	4.98	.000
Autocratic style	2.76	1.20	3.55	.98	-4.62	.000

Table 3.

Descriptive statistics and t-test results according to individual or team sports.

Factors	Individual Sport		Team Sport		t	р
	М	SD	М	SD		
Verbal aggressiveness	3.10	1.05	3.44	.98	-2.11	.036
Democratic style	2.96	1.14	2.51	1.02	2.64	.00
Autocratic style	2.95	1.21	3.34	1.08	-2.15	.03

Table 4.

Descriptive statistics and t-test results according to contact or non contact sport.

Factors	Non-Contact Sport		Contact Sport		t	р
	М	SD	М	SD		
Verbal aggressiveness	2.95	1.32	3.62	1.32	-3.23	.00
Anxiety	2.98	.92	3.26	.86	-2.02	.04
Democratic style	3.07	1.14	2.56	1.04	2.98	.00
Autocratic style	2.81	1.25	3.34	1.06	-2.89	.00

Discussion

The results of this study revealed that verbal aggressiveness is negatively associated with enjoyment, ability, effort of the athletes and the democratic style of the instructor. In other words, verbal aggressiveness once again appears to be a demotivating force in the sports setting and this is in agreement with the study of Gorham and Christophel (1992) which conducted in the educational field. As results showed, verbal aggressiveness leads to an increased anxiety and is strictly related to autocratic style of teaching. An anxious person who receives verbal aggressiveness by his instructor does not enjoy teaching (Myers, 2002; Myers & Knox, 2000). As a result, athletes often exhibit a lack of desire to perform or make an effort in sports. On the other hand, democratic style of teaching leads to an increased enjoyment and effort of the athletes to express their ability (Schmuck & Schmuck, 1968).

According to Infante (1989), educators tended to be less verbally aggressive toward girls. Boys are usually less obedient toward instructors, which in turn results to an increased verbal aggressiveness on behalf of the instructors in their attempt to impose discipline. Indeed, female athletes of this study seemed to perceive their instructors' behavior as more aggressive and less democratic compared to males. As a consequence, results revealed that girls' derived decreased enjoyment and tended to perform less and express their abilities in comparison with boys. In addition, the findings of a number studies (Amorose & Horn, 2000; Chelladurai & Saleh, 1978; Chelladurai, 1993; Eccles & Harold, 1991; Martin, Jackson, Richardson, & Weiller, 1999) found that female athletes exhibited higher preferences for democratic coaching style than did male athletes. At the same time, Beam, Serwatka, and Wilson (2004) found that significant differences in gender, as male student-athletes showed significantly greater preferences for autocratic and social support behaviour than their female counterparts. Thus, it is rational to assume that the female athletes of the present study derived less enjoyment and more anxiety under the autocratic leadership style of their coaches when compared to male athletes.

Athletes participating in team sports seem to perceive instructors' behavior as more verbally aggressive and more related to autocratic style of teaching as compared to individual sports' athletes. It seems that coaching a group of athletes in a team sport is a more demanding task that obliges coaches to adopt a more autocratic style of teaching in order to achieve his goals. On the other hand, coaching athletes of individual sports demands a personal relation with their athletes and it is likely to constitute a deterrent factor to exhibit a verbally aggressive behavior.

Autocratic style of teaching was found to be adopted more by contact sport coaches. In particular, basketball and football coaches of this study were perceived as more verbally aggressive and autocratic by their athletes leading to an increased anxiety, as compared to non-contact (volleyball, long jump, pole vault, 200 m) sports' coaches. Contact sports increase competitiveness and tension among athletes which in turn requires coaches to adopt a more "aggressive" profile to counterbalance the demands of the game (Bekiari, Digelidis, & Sakellariou, 2006). It appears that contact type sport athletes still perceived as more verbally aggressive their coaches than non contact type sport athletes. It is rational to be assumed that athletes participating in contact sports due to the nature of the sports (physical contact, prolonged tension and effort for win) inherently emit more frequently aggressive behaviors than non-contact sports.

The findings of this investigation suggest that if the goal of coaching is to increase enjoyment, ability, and effort of athletes to pursue their goals then coaches must consider the types of communicative messages that students are motivated by and respond to positively. The goal of coaches who are interested in creating an environment, in which intrinsic motivation can occur, is to create opportunities for student control in the classroom or at least to feel that participate in the receiving decisions. Athletes who take control of their training experience will then derive personal rewards from their own successful completion of their tasks.

Future studies should examine the relationship of verbal aggressiveness, leadership style and intrinsic motivation in other sports using larger samples in order to provide more precise and more reliable measures. Also in a future study we should examine some important coaches' descriptive characteristics such as age, sex, family status, social and economical status in order to found if and how determinant these factors influenced on coaches' verbal aggressiveness and leadership style. Additionally, a future research with personal coaches' interviews and questionnaires for athletes at the same time, it would be interesting to be conducted in order to compare coaches' self-reported verbal aggressiveness and athletes perceptions of their coaches' verbal aggressiveness, to determine if these types of communicative behaviours effect athletes' intrinsic motivation.

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