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# PSYCHOLOGICAL INFLUENCES AND ATHLETIC PERFORMANCE

# Dr. Rajendra R Dhakne

Assistant Professor, BPCA's College of Physical Education

Wadala, Mumbai

## **Abstract**

Studies have shown that mental readiness was felt to be the most significant statistical link with Olympic ranking. Despite the fact that psychological preparation is a component that is often neglected by athletes and coaches alike, studies have shown that mental readiness was felt to be the most significant link. Athletes are commonly reported saying that the mental portion of one's performance is the most significant part of one's overall performance. [Citation needed] Arnold Palmer, a professional golfer, is credited with suggesting that the game is around 90 percent psychological. "The entire amount of time spent by the golfer actually swinging and striking the ball throughout those 72 holes is around seven minutes and thirty seconds, leaving the player with fifteen hours, fifty-two minutes, and thirty seconds of "thinking time." It is interesting to note that more than 70 percent of the questions that are raised, discussed, and debated at international conferences and seminars on sport psychology pertain to anxiety and aggression as performance to the genre of emotions. This is significant within the context of the psychological aspects of athletic performance. They emerge as a result of a wide variety of conditions and constitute a type of continuum, yet they consistently head in an upward direction. It is common knowledge that their use has a wide range of negative effects, both on the physical and mental health of the general population as a whole and specifically on the health of athletes who compete. The inability to satisfy demands is what gives rise to strains; prolonged stressors give rise to worries, and anxieties give rise to tension. The aftereffects of tension are experienced, monitored, and assessed on physiological as well as psychological levels, and they are eventually connected to psychosomatic illnesses.

**Keywords:** *Psychological*, athletic, sport

# Introduction

The field of sport psychology is an area of sport science and psychology that focuses on the mental preparation of athletes for competition. The study of people's behaviours in sports settings, their analysis and explanation of those behaviours, and their description of those behaviours in an effort to control, alter, or anticipate such behaviours through various psychological tools is what the field of sports psychology is all about. According to Wuest and Bucher (2006), sport psychologists nowadays assist both male and female athletes in reaching their full potential in competition by working with them to improve their performance. Some professional athletes and athletes who compete at a high level, such as figure skaters, may use the services of a sport psychologist to assist them accomplish their goals. Sport psychologists work with professional sports teams as well as national sports teams. All coaches, regardless of level, should have a basic understanding of sport psychology. It is possible for it to assist coaches in more completely

comprehending the psychological influence of the coaching behaviours and choices they make on the players. Athletes can be better prepared for competition by using knowledge from sport psychology, and coaches can utilise this information during competition to assist their teams perform at their maximum possible level (peak performance in sports). According to Hornby (2004), peak performance occurs when an individual is at his or her most proficient and successful in carrying out a given activity. Always, athletes and coaches believe that in order to reach their top performance, all they need to do is practise for longer and more intensely. They are reluctant to include psychological methods into their training and performances in their pursuit of perfection, which Wuest and Bucher (2006) identified as the Olympic slogan of "Swifter, higher, and stronger." In other words, athletes are continuously looking for new methods to improve their performance in order to compete successfully. Ikulayo (1990) identifies personal elements, motivational factors, and mental factors as the three types of psychological aspects that must be taken into account in order to achieve one's full potential in the realm of athletic competition. It is necessary for all of these components to interact favourably in order for performers to attain a harmonic state of preparedness on all fronts—physically, cognitively, and emotionally—in order to achieve greatness in sports competitions. Developing the tactics that will prepare the athlete to approach the competition with the "right attitude" is one way that this goal might be accomplished. For instance, an athlete who competes over long distances would never consider competing in such a race without first giving their bodies the necessary amount of time to mentally and physically prepare them for the rigours of the competition. Despite this, athletes strive to improve their psychological talents. If someone wanted to succeed in the competition, it was necessary for them to assist themselves in achieving the best possible physical performance. It is becoming increasingly necessary to integrate the mental and physical aspects of performance as the science behind improving athletic performance continues to advance. Historically, the cognitive components of performance have received little or no attention from researchers. The majority of the focus that coaches and athletes have put on performance has been on the physical aspects of the sport.

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#### **Stress**

The term "stress" refers to any pressure, whether physical, mental, or emotional, that has the tendency to throw off the body's natural state of equilibrium. It is something that happens on a regular basis; if there were no pressures in our lives, we would likely "die of boredom." Stress is an unavoidable part of both everyday life and competitive athletics; hence, all performing actors, artists, and athletes approach their work with varied degrees of anxiety. The term "stress" is often used in a relatively broad sense, and it may refer to a variety of different kinds of strain, including those caused by one's job, schoolwork, marriage, sickness, or the death of a loved one. Change is the one thing that all of these things have in common. This anxiety is caused by a loss of familiarity, which leads to any change being perceived as a "threat."

## **Stress and Sports Performance**

The level of performance in sports is not just a product of physiology (for example, stress and fitness) and biomechanics (for example, elements related to technique), but psychological aspects also play an extremely important part in determining performance levels. Nevertheless, there is a specific amount of stress that is optimal for each athlete to maintain in order to perform at their best. The level of the bar is determined by a number of different elements, including prior experiences, coping strategies, and heredity. Acute, episodic, or chronic stress can all be experienced in the context of sports, just as they might in any other aspect of life.

When it comes to sports, much of the action takes place in discrete episodes, whether it be during a friendly competition amongst teammates or a game for the title. Acute stress may in fact present a challenge; but, if it is not managed properly, it can develop into episodic stress, which can have a negative impact on a person over the long term, and it can also interfere with a person's ability to play.

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### **How does Stress Affect Performance?**

The stress response curve, which was developed by Nixon P. in 1979, is a graphic representation of the connection that exists between stress and performance. In addition, pressure, which is itself a significant stressor, has a significant role in determining how an individual reacts to stress. The changes in one's performance are one of the repercussions of stress in one's life that is one of the most visible effects. Even though we are able to discern the effects of normal or excessive quantities of stress via simple observation, it is still in our best interest to have an understanding of the scientific link that exists between stress and performance.

# The Stress Response Curve

Nixon, P. (1979) constructed the following graph of the stress performance curve to illustrate how stress affects performance in theoretical terms. The purpose of this graph was to help readers have a better understanding of the impacts of stress on performance.



Fig 1: The Stress Response Curve

The graph demonstrates that as the degree of stress grows, so too does the level of performance, right up until the point where there is eustress, also known as healthy tension. An area that has been pinpointed and given the name "the Comfort Zone" reveals the range of stress levels that we are perfectly capable of managing and makes it possible for us to have good levels of performance right before we reach the point of weariness. The individual reaches a threshold of exhaustion, at which time their performance levels begin to fall as they begin to experience what they believe to be an excessive or overwhelming amount of stress. The final result of chronically high levels of stress, often known as burnout, can be physical or mental collapse, as well as tiredness.

### **Positive Effects**

As seen by the graph, there is a correlation between good stress management and increased levels of performance. A more positive reaction to stress, and consequently greater levels of performance, can be facilitated by stressors such as pressure and demands. For instance, the pressure that a basketball player feels from the crowd, the tight scores, and the difficult opponent's causes him to want to run faster, hit a three-point shot, and succeed in doing so.

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# **Negative Effects**

The individual will begin to suffer a gradual to abrupt fall in performance levels when stress is viewed as being unpredictable or unmanageable. This causes a decline in productivity and eagerness to respond to the stress that is being experienced. A woman working in an office, for instance, is assigned an extremely stringent deadline despite the fact that she is responsible for the care of her four children at home as well as her ill mother in the hospital. If this overwhelming combination of circumstances is not addressed in a cautious and comprehensive manner, it will result in poor performance at work, poor relationships with other members of the family, ill health, and burnout.

## **Pressure and Performance**

Pressure, one of the significant life stressors, affects performance, as shown by the "Inverted-U" graph below, which was created by Robert Yerkes and John Dodson in 1908.

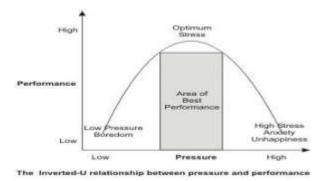


Fig 2: The Inverted-U Model or the Yerkes-Dodson Law

If you look at the left side of the graph, you will see that low pressure or low levels of stress result in a person's stress reaction that may be described as "boredom" or as being unchallenging. In the absence of an adequate amount of pressure, the degree of attention and focus required to complete the work will be substantially lower, despite the fact that the task may be quite essential. On the other hand, high levels of pressure do not necessarily equate to high levels of performance. Instead, the result of high levels of pressure is the same as the result of low levels of pressure: low levels of performance as a result of "unhappiness" or negative feelings brought on by excessive stress. On the other hand, there is a zone that is referred to as the "area of best performance." In this area, the best degree of performance may be attained by applying a reasonable amount of pressure, which then results in optimal stress or stress that is completely bearable [9].

# **How to Prevent Anxiety in Sports Performance**

# 1. Diaphragmatic Breathing

Between the chest cavity and the abdominal cavity lies a muscle known as the diaphragm. Diaphragmatic breathing is the term given to breathing that is accomplished by contracting this muscle. To learn it, you just need to put in some easy practise, and after that, you should do it many times every day. Following the link will walk you through the process of learning the method.

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## 2. Relaxation Technique

When an athlete experiences the signs of anxiety, such as an elevated heart rate, an increase in blood pressure, or difficulty breathing, using a relaxation method can help regulate the anxiety and bring the athlete back under control. In one method of relaxation, the athlete is instructed to lie down in a dimly lit room while thinking on relaxing his body from the outside inside. This is one of several relaxation techniques. As a direct consequence of this, the rate of heartbeat, respiration, and blood pressure all return to normal. If the individual is experiencing a more serious anxiety attack, then massaging the body can help relax them to a significant degree.

## 3. Visualization

Visualization is a method that athletes employ to reduce their nervousness and improve their performance. One practises this method by imagining themselves in a setting that is analogous to the one in which the event will take place. The athlete pictures himself triumphing in front of the full audience at the venue where the competition is going to take place. The following is a list of other methods that you may utilise visualisation to overcome the effects of performance anxiety.

# (a) Visualizing Yourself

One of the workouts in which an athlete practises visualising himself is the one that you are about to see. While keeping their eyes closed, the athlete is given the task of visualising every physical component of their body. The athlete will remind himself that each of these body components is healthy and in good operating shape when they are envisioning the body.

# (b) Visualizing Your Game

Another exercise is for the athlete to imagine themselves competing in the sport they will actually be playing. The athlete replays in his head the sequence of events leading up to and including the competition, beginning with the pregame routine and continuing through the first move and the finish line.

## (c) Visualizing Your Opponents

You have, up to this point, been visualising both yourself and your game. During the next part of this drill, the athlete is going to try to picture how his rival is going to play the game. While he is envisioning the actions of his opponent, he is intended to reassure himself that his own moves are superior to those of his opponent and imagine how he should respond to the moves that his opponent makes.

#### 4. Muscle Relaxation

The muscles become tense and rigid as a direct effect of anxiety. The goal of the muscle relaxation routines is to prevent this from occurring during the real competition. The athlete closes their eyes and tenses a certain muscle in either their legs, abdomen, hands, or face for a period of ten seconds as part of this method. Tension should be held for ten seconds, and then relaxation should be performed for twenty seconds, before going on to the next muscle.

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# 2. Psychological factors affecting physical performance

A successful sporting career is no longer determined by how effectively an individual can perform their normal functions. It is now abundantly clear that there are a great deal of psychological factors that have an effect on and help to improve physical performance. Personality Although the definition of personality in the dictionary is "the nature or state of becoming an entity," early definitions of personality include statements like "personality is at every moment of its genesis the full mental organisation of a human becoming." The following is a list of the fundamental psychological elements that have an impact on sports and physical activity: Personality Personality is defined as either the attribute or the state of becoming a person in several dictionaries. Each stage of human character is taken into account, including intelligence, temperament, ability, morality, and any attitude that has evolved over the course of an individual's life. There is a dynamic human self that is continually behaving, speaking, evolving, integrating, and incorporating. The definition of identity is a complicated concept, and there is a dynamic human self. When it comes to recognising the development of people's personalities, this truth carries with it a great deal of significance. The human identity is a magnificently complicated structure, delicately woven into a pattern that balances the pulls and pushes of the outer world's motives, feelings, actions, and ideas. This pattern is called the human condition. Since 1960, a multitude of different kinds of systematic literature studies have been finished in an effort to understand the connection that exists between an individual's personality and their level of athletic achievement.

It is important to keep in mind, however, that the connection between a positive mental attitude and physical achievement is not as straightforward as it may initially appear. In the same vein, it is reasonable to assume that some broad inferences are plausible. Athletes and those who are not involved in athletics have distinct behavioural differences.

One study indicated that those who participated in individual and team sports at a competitive level became more independent, more objective, and less apprehensive than people who did not participate in sports. It has been demonstrated by a number of previous research that elite athletes consistently have a higher IQ than non-elite athletes. In addition, Cooper identifies the athlete in his study as having higher levels of self-confidence, ambition, and social outgoingness in comparison to the non-athletic. Athletes are often distinguished from non-athletes by various behavioural features that set them apart. It is clear, for instance, that athletes tend to have higher levels of autonomy, objectivity, and extraversion, while also displaying lower levels of anxiety compared to non-athletes, the athletic pyramid suggests that competitors grow more comparable to one another in terms of their attitudes and psychological qualities. Athletes at the beginning stages of their sports careers, known as the foundation or entrance stage, tend to have quite unique personalities. When attempting to differentiate between athletes of varying ability levels in the middle and lower sections of the scale, we experience a loss of discriminatory power. On the other hand, if we choose the upper stage of the scale, the

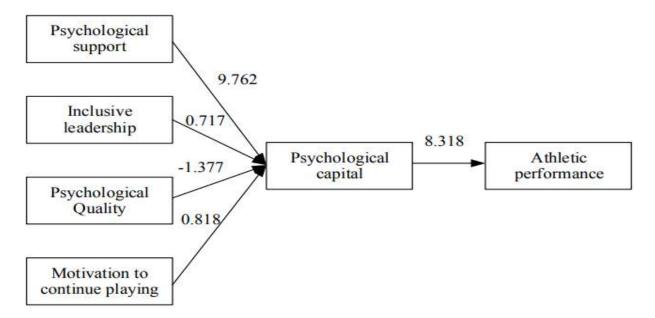
athletes appear more similar to one another in terms of the characteristics that make up their personalities. We are able to make the claim that the individuals who compete in the many different types of sports each have their own unique characteristics.

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Players who compete against one another and athletes who participate in separate sports highlight perhaps the most significant distinction. To begin, the extraverted, reliant, and anxious characteristics of team athletes in sports are more prevalent than those of solo athletes. There is no question that football players and tennis players have distinct personality traits, yet it is possible to anticipate that there will be some differences between the two. Under some circumstances, it is possible to differentiate between athletes on the same team who play different positions due to differences in their personalities. This is especially obvious in sports where players are required to do a wide variety of tasks, such as basketball and baseball. There is a presumption that athletes who play positions such as point guard in football, volleyball setter, soccer or ice hockey goalkeeper display personality features that are unique from those of other athletes who play those positions.

The female athlete is observed to clearly show personality characteristics that are similar to those of both the normative male and the male athlete. These characteristics include being assertive, being achievement-oriented, being strong, being self-sufficient, being powerful, being violent, being intelligent, and being reserved. According to the available criteria female bodybuilders were found to be more extraverted, more active, less anxious, less neurotic, less stressed, less frustrated, and less unsure than the general population. Since it is impossible for two people to have the same personality qualities, we must conclude that differences in personality are an inevitable aspect of human existence. In order to be successful in sports, personality traits are essential. It is necessary to identify and develop those aspects of one's personality that are most conducive to achieving success in one's chosen athletic endeavour.

# 5. Research design



A theoretical framework was provided by this diagram, which explained the link between an independent variable, a dependent variable, and a mediated variable. Included in psychological supports are psychological

quality, psychological support commitment, and the incentive to keep playing, all of which are treated as independent variables. These elements, along with others, have an effect on the athletic performance of basketball players in India, and psychological capital plays a role in mediating these relationships.

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# Hypothesis

H1= psychological commitment associate with athletic performance.

H2=, there is an important relationship between motivation to continue playing and athletic performance.

# Data sampling techniques

Methods such as primary surveying and quantitative research were utilised in the creation of this study. Information gathered from fifty players representing a variety of basketball teams in India who participated in the survey. The responses to the surveys have been compiled into data. Create 10 questions and answer them using the varying levels of athletic performance displayed by different basketball players. The statistics provide an illustration of the quantitative approach. Run independent analyses on the data using the SPSS programme, such as descriptive statistical analysis, correlations test analysis, linear regression test, model summary, one-way ANOVA test analysis, and assess the research's reliability. They test basketball players to determine the Mechanism of Athletic Performance Support, which is based on the Mediating Effect of Athletic Performance [26].

# **Population**

The total number of respondents to the survey is determined by the study of the population that is included in the research paper. In a study, it is mentioned that the community has to make sure that the findings and results may be applied to certain groups of components. This study report focused on China in order to measure the impact of different types of psychological support on the athletic performance of different basketball teams. To achieve this goal, choose a variety of participants and decide on a population of competent professional members to serve as a population for the purpose of providing psychological support, psychological quality, and athletic performance in various regional teams across India.

## 2. Results and Discussions

# **Descriptive Statistic**

Descriptive Statistics							
	N	Minimum	Maximum	Mean	Std. Deviation		
Motivation to continue playing	50	1.00	5.00	2.4700	1.20985		
psychological capital	50	1.00	5.00	2.6200	1.29318		
Psychological support	50	1.00	5.00	2.5200	1.14133		
athletic performance	50	1.00	5.00	2.5500	1.11351		
Valid N (list wise)	50						

The descriptive statistical analysis provides an explanation of the overall performance by examining the values of the average, the mean, the median, the standard deviation (S.D.), as well as the maximum, the minimum, and the average value of the findings. For the purposes of study analysis, there were fifty people that participated in the survey. The data sample that examines the effects of psychological supports on athletic performance also investigates the function that psychological capital plays as a mediator. Dev. Make use of the SPSS programme for analysis for this purpose; for these findings, employ a variety of 10 to 11 questions relating to organisational structure and athletic performance as well as activities of physiological capital. In the context of social media marketing, many selection criteria were used to one hundred participants. According to the study, over one hundred and ninety-nine percent of individuals are aware of the implications of phycological capital. There are a variety of independent variables, such as psychological structure, psychological quality, leadership within the team, and motivation in relation to work. One is the lowest possible value, while five is the highest possible value.

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# **Multiple regression Model**

Coefficients								
		Unstar Coeffi	ndardized value of cients	Standardized value of Coefficients	T value	Sig. level		
		В	Std. Error	Beta				
	(Constant)	2.518	.784		3.213	.002		
	Motivation to continue							
	playing	025	.098	027	.250	.803		
	psychological capital	.085	.119	.090	.717	.475		
1	Psychological support	136	.098	146	- 1.377	.172		
	athletic performance	092	.113	100	.818	.416		
	Valid N (list wise)	.157	.111	.182	1.412	.161		
a. D	ependent variable: athletic	perfor	mance		•			

# **Interpretations**

The above table explains the multiple regression model with the help of different test analyses included b value, the value of standard error, tstatistic, and also that significant. Athletic performance is the dependent variable, and others all consider independent and mediated variables. The psychological support is an Independent Variable. Its t statistic value is 0.250, and its significant value is 0.803 shows that the organizational support positively links with the athletic performance, and this is not as significant. Similarly, the inclusive leadership t statistic value is 0.717, and its significant level is 0.475 shows that there is a constructive and insignificant association with inclusive leadership and athletic performance. So, accept the H2, H3, etc. psychological capital is a mediated variable its t statistic value is 1.412, and its important value is

0.161 shows a positive link with athletic performance and psychological supports. Motivation to continue is also an independent variable. Its t statistic value is 0.818, and results show that 0.416 it's a significant level. So, there is an optimistic association between athletic performance and psychological.

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	Corre	elations				
		psycholog ical Support	psychologi cal commitme nt	Motivatio n to continue playing	psycholog ical quality	athletic performance
psychological Support	Pearson Correlation	1	081	.026	.029	008
	Sig. (2-tailed)		.425	.797	.776	.937
	N	50	50	50	50	50
psychological commitment	Pearson Correlation	103	.076	.093	.135	121
	Sig. (2-tailed)	.307	.455	.357	.181	.231
	N	50	50	50	50	50
Motivation to continue playing	Pearson Correlation	.026	.219*	1	.496**	006
	Sig. (2-tailed)	.797	.029		.000	.950
	N	50	50	50	50	50
athletic performance	Pearson Correlation	008	.117	006	.140	1
	Sig. (2-tailed)	.937	.247	.950	.166	
	N	50	50	50	50	50

<sup>\*.</sup> Correlation is significant at the 0.05 level (2-tailed).

The two trials and their respective Pearson correlations for the questions that were chosen are represented in the table that can be found above. Question 1, which is characterised as organisational, demonstrates that 0.026 indicates a positive link. This validates its findings. Therefore, there is a connection between all of the other factors that may be considered. Another independent variable is inclusive leadership, which has a Pearson correlation of 0.425. This indicates that there is a substantial association between the variables, which has a significance level of 42 percent. The study presented here illustrates the degree to which the indicators

<sup>\*\*.</sup> Correlation is significant at the 0.01 level (2-tailed).

are intercorrelated with one another. The analyses, which are based on these tests, reflect the correlation value as well as the relationship ratio between them. In a similar vein, athletic performance has been shown to have a positive association with athletic performance, as well as a positive relationship with a number of other factors. Therefore, the explanation for this table may be found in the activity that occurs between the dependent and independent variables.

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## **Conclusions**

There are significant repercussions that can be drawn from the findings and conclusion of this research study. In the first place, the findings of the research show that the preexisting links between psychological supports and physical performance are not exactly the same. To be more specific, the findings of the outcomes of this research reveal that the mediated athletic performance supports have substantial impacts, both positive and significant, on the link between psychologic supports and athletic performance. The second recommendation is for the athletes of China to make a proactive choice to provide assistance in terms of the growth of all basketball players, as well as acknowledgement of their overall contribution and athletic performance. Associations need to have an understanding of the significance of offering assistance; for instance, companies of basketball players understand and compensate this great treatment as a sign that the psychologic supports concern about players, and this will be creating a positive athletics behaviour. Another example:

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