

ORIGINAL RESEARCH PAPER

PREDICTION OF INDIVIDUAL PERFORMANCE
OF THE UNIVERSITY LEVEL KABADDI PLAYERS
WITH THE HELP OF THEIR TRAIT ANXIETY AND
OTHER SOME PSYCHOLOGICAL AS WELL AS
SOCIOMETRIC MEASUREMENTS

Education

KEY WORDS: Kabaddi, Trait Anxiety, Individual Performance, Sociometric Measurements

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BSTRACT

Performance anxiety symptoms are often present in athletes. Someone becomes "pumped up" during the competition; anxiety can interfere with the ability to perform. The present study was carried out through the "Multiple Regression Analysis" to predict individual performance of the University level Kabaddi players with the help of their trait anxiety and other some psychological as well as sociometric measurements. Different psychological tests and sociometric measurement were administered on 71 players choosing from the teams of 8 university Kabaddi players. Trait anxiety, personal standard, concern over mistake, perceived parental pressure, perceived coach pressure had negative impact; whereas, fuzzy preference index had positive impact on individual performance in Kabaddi.

I.INTRODUCTION

Kabaddi is an indigenous game, popular in the Indian subcontinent and other adjoining Asiancountries. It demands both skill and power, and combines the characteristics of wrestling, rugby and gymnastics. Today performance in sports not only requires structured training to evolve physical variables and technical facets of sports, but also requires training and consideration of psychological characteristics for success in this field. Sports in the present day have become exceptionally cut-throat. An athlete cannoteven bear to take chance in any quarter as any tiny oversight in his preparation, which may deprive him of success. Therefore, athletes aim to boost their performance and leave no stone unturned in securing extra edge over their opponents. Sports is a psycho-social activity with full of competition against counterparts and co-operation among team mates that bring about anxiety before, during and after completion, in a team game like kabaddi, the players have to communicate with his team mates and perform in the common interest of the team. Psycho-social composing not only assists him to get the better of the ill effects of the anxiety imposed on him during the competition but also helps him to tune with his teammates, which after all yields the best results.

Anxiety is the body's natural response to stress. It is a feeling of fear or apprehension about impending danger. Trait Anxiety is considered as a latent predisposition, which is relatively stable and can be triggered by appropriate stimuli. This is regarded as basic anxiety level.Lazarus (2000a) identifies anxiety as one of the emotions that may have substantial impact upon how an athlete performs. Anxiety plays a vital role in the attainment of motor skills as well as in athletic performance. Both positive and negative effects of anxiety depend on how an individual athlete perceives the situation (Jack, H.Lewellyn & Judy, A.Blucker, 1974).

In the field of sports, some researchers consider perfectionism as an adaptive trait that assists toattainbest performance (Gould, Dieffenbach & Moffett, 2002). Other researchers, however, see perfectionism as a maladaptive trait that hampers, rather than supports athletic performance (Flett&Hewitt, 2005).

Sociometry as one of the methods of social psychology is defined as the statistical study of behavior and relationship within social groups, especially expressed in terms of performances. Sociometry can be an useful tool for reducing conflict and improving interaction because it allows an athletic team to see itself objectively and analyze its own dynamics. Even it helps a coach to know the form and structure of team.i.e. patterns of the sub groups, cliques and friendship. These factors play an important role in determining how the team will react to competitive situations.

II. Aim of the Research Problem

To make a game like kabaddi worldwide popular and to rise it up to the international standard different rules should be framed, effective coaching should be provided, skills should be acquired and performance should be measured and as well as increased. For this purpose, research should be done. But very few researcheshave been done till now. Through this research studywe have tried to predict individual performance of the university level kabaddi players with the help of their trait anxiety and other some psychological as well as sociometric measurements

III. Method

The present study was carried out through a descriptive cross-sectional survey method within ex-post facto research design to know level of the Trait Anxiety of the University level Kabaddi players.

A. Participants

The research was carried out on a sample of 71 kabaddi players of different university teams participated in the East Zone Inter University Kabaddi (Men) Tournament.

B. Tool

The following research tools were used in the present study for data collection. The tools were selected by applying yardsticks of relevance, appropriateness, reliability, validity and suitability. Brief descriptions of the tools are given hereunder.

1. The State-Trait Anxiety Inventory (STAI)-Spielberger, etal. (1983)

State-Trait Anxity Inventory (STAI) designed by Spielberger, Gorsuch, Lushane, Vagg and Jacobs (1983) was administered on to measure "Trait Anxiety" of kabaddi players.

2. Sport Multidimensional Perfectionism Scale (Sport MPS)-Dunn, CausgroveDunn & Syrotuik, 2002

To measure "Sports Multidimensional Perfectionism" of kabaddi players Sports-MPS developed by Dunn, CausgroveDunn & Syrotuik, (2002) was considered.

3 Socio

-metricVariable-FuzzyPreferenceIndex - Sk., Adhikari & Chatterjee(2013a)

Fuzzy Nominating Technique was used to assess Fuzzy Preference Index of Kabaddiplayers.

Thistechniqueisdevelopedby Sk., Adhikari & Chatterjee (2013a) andisreportedhereunder.

4. Individual Performance - Sk., Adhikariand Chatterjee (2013b)

For "IndividualPerformance" amethoddevelopedbySk.,Adhi kariandChatterjee (2013b) was applied and for "Group Performance" the total points acquiredbytheteamsingames were considered.

IV. RESULTS

The result of Individual Performance as Dependent Variable and Psychological as well as Sociometric Measurementas Independent Variables

We have consideredIndividual Performance as Dependent Variable and Psychological as well as Sociometric Measurementas IndependentVariables. The results of multiple regression analysis are shown in table-1, table-2, table-3 and table-4.

Table – 1 : Variables Entered in Multiple Regression Analysis with IndividualPerformance as Dependent Variable

Dependent Variable	VariablesEntered	Method
IndividualPerf	TraitAnxiety,PersonalStandard,Con	Enter
ormance	cernOver	
	Mistake,PerceivedParentalPressure	
	,PerceivedCoachPressure	
	andFuzzyPreferenceIndex	

Here-

Dependent variable was Individual Performance of University Level Kabaddi Players.

Independentvariables were Trait Anxiety, Personal Standard, Concern Over Mistake, Perceived Parental Pressure, Perceived Coach Pressure and Fuzzy Preference Index.

Methodofanalysis-

Hereentermethodofanalysiswasconsidered.

 ${\bf Table-2:} {\bf Model Summary in Multiple Regression Analys} is {\bf with Individual Performance as Dependent Variable}$

R	\mathbb{R}^2		Std. Error	3					
		dR ²	oftheEsti mate	1		$\mathbf{df}_{_{1}}$	- 2		
			Illate	Change	Cnange			Change	
0.604	0.365	0.306	2.254074	0.365	6.135	6	64	0.000	

Table-2 showsthe model summary inmultiple regression analysis. From this table it isclearthatthe Fchange washighly significant.

 ${\bf Table-3:} ANOVA in Multiple Regression Analysis with Individual Performance as Dependent Variable$

	SumofSquares	df	MeanSquare	F	Sig.
Regression	187.041	6	31.173	6.135	0.000
Residual	325.174	64	5.081		
Total	512.215	70			

 ${\bf Table\hbox{--}3shows\ ANOVA\ in\ multiple regression\ analysis,\ from\ where\ we\ can see that\ the\ Fwas\ highly significant.}$

 ${\bf Table-4:} Coefficients in {\bf Multiple Regression Analysis with Individual Performance as Dependent Variable}$

ĺ	Predictors	Unstandardized Coefficients			t	Sig.
		В	Std.Error	β		
	(Constant)	19.365	2.644		7.324	0.000

TraitAnxiety	-0.041	0.042	-0.099	-0.973	0.334
Personal Standard	-0.221	0.075	-0.383	-2.947	0.004
ConcernOver Mistake	-0.070	0.068	-0.143	-1.028	0.308
PerceivedPare ntalPressure	-0.056	0.075	-0.094	-0.743	0.460
PerceivedCoa ch Pressure	-0.329	0.097	-0.418	-3.372	0.001
FuzzyPreferen ceIndex	0.358	0.174	0.209	2.052	0.044

 ${\bf Table 4 shows coefficient of multiple regression analysis. The multiple regression equation was-}$

IndividualPerformance=19.365—0.041×TraitAnxiety—0.221×Personal

Standard+0.070×ConcernOverMistake-0.056×PerceivedParentalPressure-

 $0.329 \times Perceived\,CoachPressure + 0.358 \times FuzzyPreference$

V. DISCUSSION AND CONCLUSION

Traitanxiety, personal standard, concernover mistake, perceiv edparentalpressure, perceived coach pressure had negative impact; whereas, fuzzy preference indexhad positive impact on individual performance in Kabaddi. Here, personal standard and perceive dcoach pressure put statistically significant negative impact on Kabaddiperformance. In case of trait anxiety, concern over mistake and perceived parentalpressure the negative impacts were notstatistically significant. Now, letus recapitulate the results of comparative analysis where it has been shown that the lower group acquired(statistically) significantly higher mean values in personal standard, concern over mistakeand perceived coach pressure; though not (statistically) significantly yet higher meanvalues in trait anxiety and perceive parental pressure. Here, it may be safely asserted that higher value of personal standard, concern over mistake, perceived coach pressure, perceived parental pressure and trait anxiety are detrimental to the performance in Kabaddi.

In the field of sociometric measurements (FPI) the impact on individual performancewas statically significant; in comparative analysis it has been shown that the upper groupachieved higher mean value (though not statistically significant). Here also it may besafely said thatthe players, popularamong theco-players of thesame team, exhibits betterperformancein Kabaddi.

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