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**THE COMPARATIVE ANALYSIS OF MENTAL
TOUGHNESS AND WILL TO WIN BETWEEN
AMATEURS AND EXPERIENCED SPORTSMEN
OF VARIOUS SPORTS**

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The Comparative Analysis of Mental Toughness and Will to Win Between Amateurs and Experienced Sportsmen of Various Sports

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Abstract – The study was conducted to investigate the mental toughness and will to win between amateurs and experienced sportsmen of various sports. To obtain data for this study, the researcher had selected (N=60) male university level sportsmen of 18 to 28 years of age group to act as subjects. They were further divided into two groups which includes thirty (n= 30) amateurs and thirty (n=30) experienced sportsmen. The purposive sampling technique was used to obtain the required data. All the subjects, after having been briefed about the objective and protocol of the study, gave their consent and volunteered to participate in this study. Mental toughness was measured with questionnaire developed by Goldberg (1998) and Will to win was measured with questionnaire prepared by Kumar and Shukla (1988). It is concluded from the above findings that significant differences were found between amateurs and experienced sportsmen on the sub-variables i.e. confidence, concentration, handling pressure, rebound ability and overall mental toughness. However, no significant differences were noticed regarding the sub variables i.e. motivation. It has been also conclude that insignificant differences were noticed between amateurs and experienced sportsmen on the variable will to win.

Keywords: Mental Toughness, Will to Win, amateur and experienced sportsmen.

INTRODUCTION:-

“When the going gets tough, the tough gets going” is one way to say it. Or, as one sports psychologist put it, mental toughness is “the ability to consistently perform toward the upper range of your talent and skill regardless of competitive circumstances.”

Mental toughness is a quality of players to cope up better than your opponents and unshakeable pre service conviction towards same goal despite pressure and adversity. JONES et al., (2002) defines that “cope better than your opponents with the many demands (competition, training, and lifestyle) that sports places on a performer. Specifically be more consistent and better than your opponents in remaining determined, focussed, confident, and in control under pressure.” The psychological characteristics of Olympic champions identified that mental toughness as a significant contributor to sports performance enhancement (GOULD et al., 2002).

Will to win is the extent to which a person desires to reach some standard of excellence or defeat of opponent. The athletes high in will to win mainly compete to first position and may have something of win at all cost attitude. WHITE (1959) found that will to win is also related with competitive and by

acknowledging this, an athlete is able to put in his best and complete the activity successfully. DAINO (1985) defined as “the intensity of desire to defeat an opponent or to exceed some performance standard in given sports.” Will to win is an important parameter which makes great competitors. It has been observed in some competitions that players who although lacked physical fitness ended up winning the match, all due to their determination to win. A correct attitude towards winning always helps in achieving high performance in sports. This ability to work to one's full potential is directly related to an individual's Will to Win. Low will to win indicates that competitors are careless about winning.

MATERIALS AND METHODS:

The present study was conducted on male sportsmen and based on their playing experience; they were further divided into two groups. The sportsmen who had represented at least three universities were categorized into experienced players and further those who were in B. PEd first year and had no experience of playing universities were categorized into amateurs. Purposive sampling was used for the study. The data was collected in Lakshmi Bai National Institute of Physical Education, Gwalior. 60 subjects were selected for the present study, which

were further classified into two groups of 30 subjects each. The age of the students selected for the present study was delimited to 18 – 28 years.

TOOLS:

Will to win and mental toughness questionnaires were used to measure the psychological constructs of will to win and mental toughness of cricketers of various levels.

For the collection of data mental toughness questionnaire prepared by Allan Goldberg (1995) was administered. The questionnaire comprised of 60 questions/statements based on Handling Pressure (20 questions), Concentration (17 questions), Mental Rebounding (14 questions) and Winning attitudes (09 questions). Every statement had two possible responses i.e. true or false.

Will to win level was measured by applying will to win questionnaire prepared by Kumar and Shukla (1988). Will to win questionnaire consists of 14 items which measure the will to win and only yes/no option for answers.

PROCEDURE:

The data was collected from 60 sportsmen of various sports and on the basis of their playing experience they were further divided into experienced and amateurs groups of 30 each.

STATISTICAL ANALYSIS:

For the purpose of analysis t test was used to compare the psychological variables i.e. Will to win and mental toughness among both the groups i.e amateurs and experienced.

RESULTS:

The results of mental toughness and will to win of amateur and experienced cricket players are presented in tables and interpretations are given accordingly.

Variables	Levene's Test		Amateur		Experienced		Mean Difference	SEDM	t-value	Sig
	F	Sig.	Mean	SD	Mean	SD				
Concentration	.155	.695	3.53	.860	4.16	.912	.633	.229	2.765	.008
Confidence	3.674	.060	4.033	.999	4.766	1.104	.733	.271	2.697	.009
Handling pressure	.009	.925	3.866	1.306	4.766	1.135	.900	.315	2.849	.006
Reboundability	.892	.349	3.800	1.030	4.566	1.006	.766	.262	2.915	.005
Motivation	8.453	.005	5.366	.808	5.100	1.028	.266	.238	1.116	.269
Overall mental toughness	.265	.609	20.60	3.856	23.366	3.418	2.766	.940	2.941	.005

*Significant at 0.05 level

Degree of freedom= 58

Table 1- F- and T-table for the testing of variances and equality of means of two unrelated groups of amateurs and experienced players with regard to concentration ability, confidence ability, handling

pressure, rebound ability, motivation, overall mental toughness.

To test the equality of variances, Levene's test was used. The, F-value is insignificant as the p-value is more than .05 Thus the null hypothesis of equality of variances may be accepted, and it is concluded that the variances of the two groups are equal.

In case of concentration ability it can be seen from Table 1 that the value of t statistic is -2.765. The t value is significant as its p value is which is less than .05.thus it is concluded that the concentration ability of experienced players is more than that of amateur players.

In confidence ability it can be seen from Table 1, that the value of t statistic is -2.697. The t value is significant as its p value is which is less than .05.thus it is concluded that the confidence ability of experienced players is more than that of amateur players.

In case of ability to handle pressure it can be seen from Table 1, that the value of t statistic is -2.849. The t value is significant as its p value is which is less than .05.thus it is concluded that the ability to handle pressure of experienced players is more than that of amateur players.

In case of reboundability it can be seen from Table 1, that the value of t statistic is -2.915. The t value is significant as its p value is which is less than .05.thus it is concluded that the reboundability of experienced players is more than that of amateur players.

In case of mental toughness(total) it can be seen from Table 1 that the value of t statistic is -2.941. The t value is significant as its p value is which is less than .05.thus it is concluded that the mental toughness(total) of experienced players is more than that of amateur players.

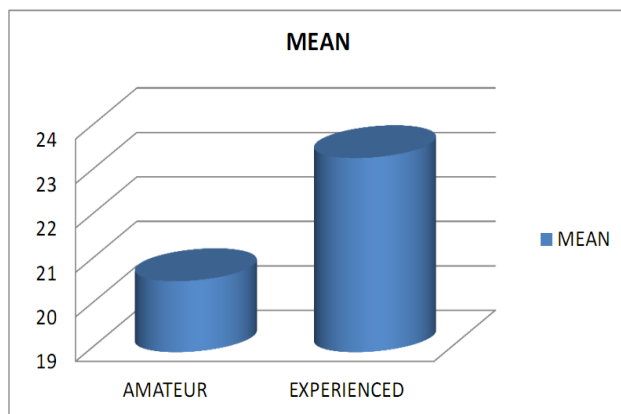
It case of motivation it can be seen from Table 1 that the value of t statistic is 1.116. the t value is insignificant as its p value .269 is which is more than .05.thus it is concluded that the motivation of experienced players is not more than that of amateur players.

Table 2 F- and T-table for the testing of variances and equality of means of two unrelated groups of amateurs and experienced with regard to Will to Win.

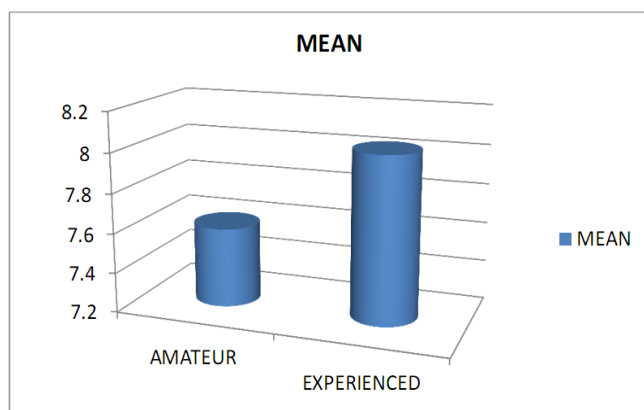
Variables	Levene's Test		Amateur		Experienced		Mean Difference	SEDM	t-value	Sig
	F	Sig.	Mean	SD	Mean	SD				
Will to win	.335	.565	7.600	1.220	8.033	1.217	.433	.314	1.377	.174

*Significant at 0.05 level

Degree of freedom= 58



Graph 1- depicting the mean values of the two groups on the mental toughness factor.



Graph 2- depicting the mean values of the two groups on the will to win factor

One of the conditions for using the two sample t-ratio for the unrelated groups is the variance of the two groups must be equal. To test the equality of variances, Levene's test was used. In table 7 , F-value is .335 which is significant as the p value is .565 which is less than .05. Thus the null hypothesis of equality of variances may not be accepted, and it is concluded that the variances of the two groups are not equal.

It can be seen from Table 7 that the value of t statistic is -1.377. the t value is insignificant as its p value is which is more than .05. thus it is concluded that the Will to win of experienced players is less than that of amateur players.

DISCUSSION:

The purpose of the research was to investigate the differences among experienced and amateur sportsmen of various sports regarding their mental toughness and will to win psychological constructs.

It is concluded from the above findings that significant differences were found between amateurs and

experienced sportsmen on the sub-variables i.e. confidence, concentration, handling pressure, rebound ability and overall mental toughness.

Golby and Sheard (2004) have also reported professional rugby league footballers performers playing at the highest standard (International players) having scored significantly higher in all three hardiness subscales (commitment, control and challenge) and in two of the seven mental toughness subscales (negative energy control and attention control).

Chen and Mark(2013) who also investigated whether mental toughness distinguishes mixed martial art (MMA) athletes competing at different levels. There were statistically significant differences between the three groups on mental toughness. The professional group had higher scores compared to semi-professional and amateur groups with regard to confidence, positive cognition, and determination. The findings supported previous work that athletes performing at higher levels have superior mental toughness.

However, no significant differences were noticed regarding the sub variables i.e. motivation. It has been also concluded that insignificant differences were noticed between amateurs and experienced sportsmen on the variable will to win. Thus it is concluded that the motivation of experienced players is not more than that of amateur players. Newland et al. (2013), however, found no differences between starters and non-starters basketball players and suggest that it is possible that the constituents of mental toughness may differ in particular sports.

It has been also concluded that insignificant differences were noticed between amateurs and experienced sportsmen on the variable will to win.

REFERENCES:

- Golby, J., & Sheard, M. (2004). Mental toughness and hardiness at different levels of rugby league. *Personality and Individual Differences*, 37, 933-942.
- Goldberg, A. (2013), Concentration: the master skill of mental toughness. <http://www.usaswimming.org/ViewNewsArticle.aspx?TabId=1504&Itemid=5202&Mid=9388>
- Gould, D., Dieffenbach, K., & Moffatt, A. (2002). Psychological characteristics and their development in Olympic champions. *Journal of Applied Sport Psychology*, 14, 172-204.
- WHITE, R.W. (1959), Motivation Reconsidered: The Concept of Competence. *Psychological Review*, v.66, p.297-323

DAINO, A. (1985), Personality Traits of Adolescent Tennis Players. International Journal of Sports Psychology, v.16, p.150-155,.

JONES, C.M. (1982), Mental Toughness. World Bowls, p.30-31

JONES, G.; HANTON, S.; CONNAUGHTON, D. (2002), What is this thing called mental toughness? An Investigation of Elite Sport Performers. Journal of Applied Sport Psychology, v.14, p.205-218

CHEN, MARK A.; CHEESMAN, DAVID J. (2013), Mental toughness of mixed martial arts athletes at different levels of competition, Academic journal, , V. 116 Issue 3, p.905