

Analytical Study of Shooting Accuracy among Inter-Collegiate and Zonal Basketball Players

Ajinkya Ashokrao Ugale^{*1}, Vishal Vasant muluk²

¹M.G.V's Panchvati College of Management & Computer Science, Nashik-03, Maharashtra India

²Army Public School Dehu Road, Pune, Maharashtra India

Abstract:- The purpose of the study is to measure and compare the shooting accuracy of male inter-collegiate and zonal level players. For the present study total 8 teams from Inter-collegiate and 6 teams of zonal level were selected purposely. Analysis of shooting accuracy was done by observation by researcher himself. Scoring was done by researcher using manual score sheet and recorded successful and unsuccessful throws. The research method used for this study was statistical classification and percentage method. For analysis, the researcher observation is cross checked by main score sheet of the technical referee. Successfully converted throws and missed throws are compared between inter collegiate and inter zonal level players.

The inter collegiate performance score for attempt 1 point (free throw) was 152 & the missed score 97 (63.18%). The two point conversion rate were 40.36% . Three pointer only 69 throws was converted. The inter zonal overall Score competition performance was the conversion rate of 1 pointer percentage were 44%. The two point attempts where 356 throws were missing. (Out of 610) and the three point conversion rate were 22.27%.

This study concludes that, there is significant difference in shooting accuracy between Inter Collegiate & Inter Zonal level players.

Keywords:- Shooting Accuracy, One Pointer, Two Pointer, Three Pointer.

I. INTRODUCTION

In sports and physical education, athletes and students must perform a variety of fundamental skills such as running, catching, throwing, striking, and jumping. Regardless of our specific list of the fundamental movement skills one thing is certain, Fundamental Movement Skills must be learned first before fundamental sports skills "Learning fundamental sports skills before mastering fundamental movement skills reduces performance ability later" (Higgs, Balyi, Way, Cardinal, Norris & Bluehardt, 2008 pg 10).

Quality of fundamental skills affects skill performance and in turn sport performance 'negative self-perception of motor ability is a major barrier to participation', and "without the development of Fundamental Movement Skills

many children withdraw from physical activity and sport, and turn to more inactive and/or unhealthy choices during their leisure time" (Cote, Lidor & Hackfort, 2009; Williams et al 2008; Wrotniak, Epsetein, Dorn, Jones, & Kondilis, 2006)

In Basketball, ball throwing accuracy plays very important role on match result. Shooting is the most important skill in basketball. The fundamental skills of passing, dribbling, defence, and rebounding may enable you to get a high percentage shot, but you must still be able to make the shot. A large part of shooting is mental attitude. In addition to shooting skill, you must have confidence in yourself to shoot well. The integration of the mental and mechanical aspects of shooting fosters shooting success in throwing, for example, some of the important task constraints may be the size and mass of the ball, the minimum velocity needed to project the ball over the rim of the basket, and the distance and angle of the shot (Brancazio, 1981). In explaining differences in throwing for distance, Wild (1938) noted that individual differences in the execution of the throwing motion must be taken in consideration. Gutteridge (1939) suggested that Environment plays a major role in the development of throwing skill. In Basketball, ball shooting accuracy may differ according to level of player and match and stage of match in the competition between inters collegiate & zonal level Basketball players. So, the Researcher wants to study shooting accuracy of the inter collegiate & zonal level Basketball players.

II. MATERIAL AND METHOD

Descriptive comparative method is used for present study.

➤ Sample

The present study is based players participating on inter collegiate basketball competitions which was organized by Chandrashekher agashe college of physical education pune 07 teams participated in the competition. This competition was played on knock out basis. Only matches after quarter finals were analysed (8 matches). Eight matches were purposely selected as a sample from this completion. Similarly inter zone basketball competitions were held by D.Y.Patil College, lohagoan. This competition was played on league basis. Four teams participated in the competition. All matches were analysed by purposive

sampling technique. It the evaluation was done using purposive sampling technique.

➤ *Data collection Tools-*

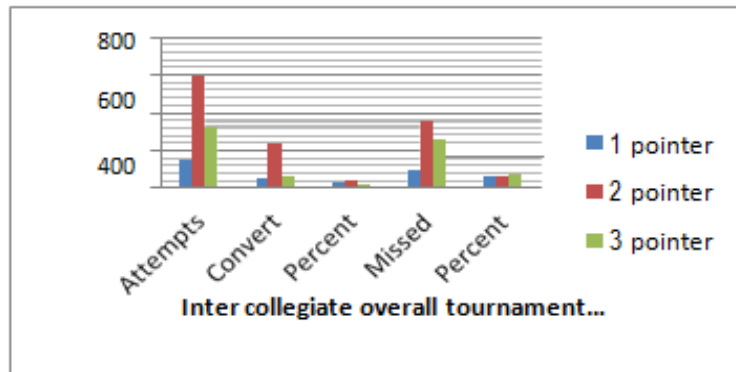
The researcher collected the data by the evaluated observation tool. The data collection tool was depended to

shooting accuracy of basketball players during matches. The analysis of observation is used classification by frequency tables and percentage.

➤ *Analysis-*

Table.1 Descriptive analysis Inter collegiate overall Score tournament performance

Points	Attempts	convert	Percent	Missed	Percent
1	152	55	36.18	97	63.81
2	597	241	40.36	356	59.63
3	323	69	21.36	254	78.63

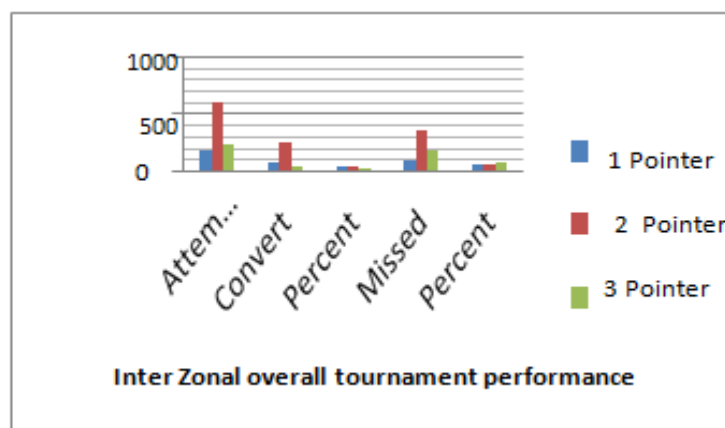


Graph 1. Inter collegiate Overall Score tournaments Prefer.

- Graph no 1 show the total attempt of 1 point free throw score which is 152 & the missing score is 97 (63.18%)
- Above Graph shows the two point conversion rate which is 40.36%.
- From the Graph, on three pointer only 69 throws was converted

Table .2 Descriptive analysis Inter Zonal overall Score tournaments performance

Points	Attempts	convert	Percent	Missed	Percent
1	175	77	44	98	56
2	610	254	41.63	356	58.36
3	229	51	22.27	178	77.72



Graph 2 Inter Zonal Overall Score tournaments Prefer

- Above graph shows the conversion rate of which is 44%.
- Above graph shows the two point attempts where 356 throws were missing (out of 610)
- From the graph, three point conversion rates are 22.27

III. DISCUSSION

From the findings the earliest publication in sport is by Fullerton (1912), who explored the combinations of baseball players batting, pitching, fielding, and the probabilities of success. Marques (1990) developed a national system that related game performance indicators with the success of basketball teams. Performance indicators, such as missed shots, and offensive and defensive rebounds; and tactical indicators, such as fast-break and possession. First, Marques evaluated teams without success, finding differences in the percentage of offensive and defensive rebounds and in second shots. He reported that winning teams shoot more often, are more efficient in shooting, fast break more often, and get more offensive and defensive rebounds. Second, Marques analyzed equilibrate games (two point or less difference in final score), normal games for significant differences in the frequency of performance indicators.

In this research is same doing notation analysis the players shoot free shots (1 pointer), 2 point, 3 point is to recorded converted and missed shots and get percentage between missed shots and converted.

IV. CONCLUSION

This study concludes that, the inter zonal level shooting accuracy is better than inter collegiate level players

REFERENCES

- [1]. Brancazio, P. J. (1981). Physics of basketball. American Journal of Physics. 49. 356-365.
- [2]. Haubenstricker, J., Branta, D., & Seefeldt, V. (1983). Preliminary validation of developmental sequences for throwing and catching. Psychology of motor behavior and sport- Proceeding of the annual conference of the North American Society for the Psychology of Sport and Physical Activity (p. 150), East Lansing, MI.
- [3]. Higgs, Balyi, Way, Cardinal, Norris & Bluehardt, 2008 pg 10
- [4]. (Cote, Lidor & Hackfort, 2009; Williams et al 2008; Wrotniak, Epstein, Dorn, Jones, & Kondilis, 2006)
- [5]. (Brancazio, 1981; Wild (1938); Gutteridge (1939).