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ANALYSIS OF THE DOMINATING POWER OF SERVICE RECEPTION IN VOLLEYBALL IN DIFFERENT LEVELS OF COMPETITIONS

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ABSTRACT

The present study assessed that in different level (district, state, national & international) of Volleyball game or competition how the skills 'service reception' played a dominating role was observed. The videos of semi-final and final game of these four levels were taken2014-15). These skills were measured by Volleyball Information System (VIS). The result indicated that the service reception skill of state level was more dominant than international national and district level skill.

KEYWORDS: Volleyball, service reception skill and Service execution skill.

INTRODUCTION:

Skills play a very important role in volleyball. To make the game more effective, it is very necessary to develop all the skills. Service reception is a very important skill Volleyball. The matches in which, all these skills as well as service receptionare presented very skilfully and effectively, have become the more interesting and splendid matches. So, it should be the only aim of the volleyball players to develop these basic skills as well as service reception, it is the only way to increase its graph.

METHOD:

The study was conducted in Hooghly district, West- Bengal state, India and International level senior male Volleyball team (2014-15). Semi-final and final game only. Criterion measure:- The skill, service reception measured by Volleyball Information System (VIS). The evaluation method of service reception- when rally continues in service reception there was no evaluation or

success '+' and when rally ends, if there was faults then '-'. Measuring criteria and formula was Success% = excellents-faults/total attempt. Analytical techniques:- To analysis of the dominating power of service reception in Volleyball in different level (district, state, national, international) competitions, one way ANOVA was computed using Microsoft excel and SPSS software version 20. The level of significant was set as 0.05.

FINDING AND RESULTS:

The findings data of different (district, state, national and international) level in volleyball skill, service reception described below:-

Table 1: Descriptive Statistics of Service reception of Volleyball Skill in Different Level of Competition (N = 3)

SKILL	Level of game	Mean	Std. Deviation	Std. Error	Minimum	Maximum
SERVICE RECEPTION	District	76.05	2.55	1.47	73.17	78.05
	State	83.93	1.97	1.14	82.14	86.05
	National	76.52	0.78	0.45	75.76	77.32
	International	48.28	18.64	10.76	26.76	59.46

Table 1shows that the mean of service reception's success % in district, state, national and international level senior male volleyball team was 76.05±2.55, 83.93±1.97, 76.52±0.78 and 48.28±18.64

Graphical representation of service reception skill in Volleyball (mean %)

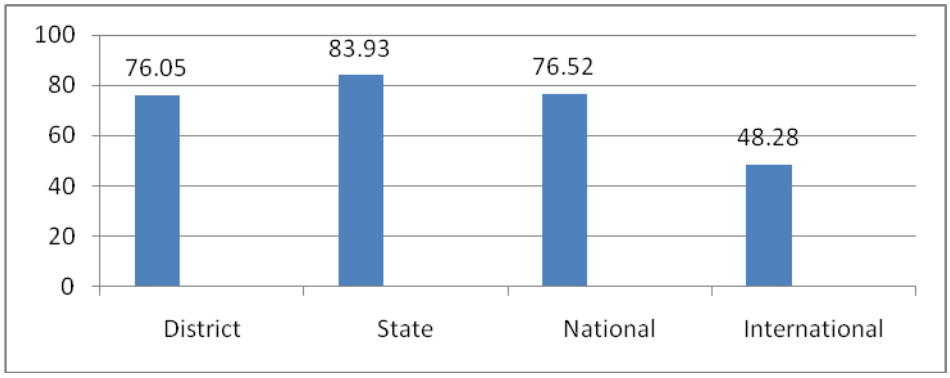

Table 2: ANOVA OF SERVICE RECEPTION

		Sum of squares	df	Mean square	F-ratio	Sig.
Service reception	Between Group	2217.663	3	739.221	8.247*	0.008
	Within Groups	717.091	8	89.636		
	Total	2934.754	11			

It seems that the between group, sum of squares was 2217.663, degree of frequency (df) was 3, mean square was 739.221 and within groups, sum of square was 717.091, degree of frequency (df) was 8, mean square was 89.636 and total sum of squares was 2934.754, total degree of frequency (df) was 11. The between and within groups of F-ratio was 8.247 and significant level was 0.008 so, the serve of between and within groups significant at 0.05 levels.

Post-hoc test is done to comprehend which is the better group among the groups who possess the significance, (LSD) because everyone's 'N' is equal.

Table 3: Post-hoc (LSD) Test of Service reception					
Dependent Variable	Group	Group	Mean Difference	Std. Error	Sig.
Serve	District	State	7.88667	7.7303	0.337
		National	0.47000		0.953
		International	27.76667*		0.007
	State	National	7.41667		0.365
		International	35.65333*		0.002
	National	International	28.23667*		0.006
*.Significant at 0.05 level					

Table 3 indicated that the Post-hoc (LSD) test of service reception. It seems that the mean difference of district & state level was 7.88667 which was significant at 0.337 level. The mean difference of district & national level was 0.47000 which was significant at 0.953 level. The mean difference of district & international level was 27.76667 which was significant at 0.007 level. The mean difference of state & national level was 7.41667 which was significant at 0.365 level. The mean difference of state & international level was 35.65333 which was significant at 0.002 level. The mean difference of national & international level was 28.23667 which was significant at 0.006 level. The above table 16 also shows that the skill service reception, there were significant differences between district and international, state and international, national and international on average per set at also 0.05 level. District and state, district and national, state and national level of skills average per set was not significant at 0.05 level.

CONCLUSION:

I. In international level service reception skill is not more dominating than the service reception skill of national, state and district level's skill.

II. In national level service reception skill is more dominating than district and international level, but not more dominating than state level.

III. The service reception skill of state level is more dominant than district, national, and international level's service reception skill.

IV. In district level service reception skill is more dominating than international level, but not more dominating than state and national level.

Reference:

- Luka Humski, ZoranSkocir (2011). Volleyball Information System(V.I.S). IEEE publisher, 12144337.
- Pena J, Rodriguez, Busca B, Serra N (2013). Skill factors for winning men's volleyball. Journals of strength and conditioning research, 27(9),2487-93.
- Silva M, Lacerda D, Joao PV (2014). Volleyball skills influence victory. Journal of Human Kinetics, 173-9.
- Eom HJ, Schutz RW (1992). Transition play in team performance of volleyball. Res Q Ecre sports journal, 63(3),261-9.
- Gonzalez-Silva J, Dominguez AM, Fernandez-Echeverria C, Rabaz FC, Arroyo MP (2016). Analysis of setting efficacy in volleyball players. Journal of Human Kinetics, 189-200.