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Power of Dig to Dominate Different Levels of Volleyball 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 'dig' 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 dig skill of national level is more dominant than international, state and district level skill.*

Keywords: *Volleyball, dig skill.*

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I. Background

skills play a very important role in volleyball. To make the game more effective, it is very necessary to develop all the skills. Dig is a very important skill of Volleyball. The matches in which, all these skills as well as dig are 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 dig, it is the only way to increase its graph.

II. Method

The present 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, dig measured by Volleyball Information System (VIS). The evaluation method of dig- when rally continues in dig there was no evaluation or success '+' and when rally ends, if there was faults then '-'. Measuring criteria and formula was Ave. per Set =Success digs /total sets played(by the team). Analytical techniques:- To analysis of the dominating power of dig 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.

III. Finding And Results

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

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

SKILL	Level of game	Mean	Std. Deviation	Std. Error	Minimum	Maximum
DIG	District	11.19	1.88	1.08	9.25	13.00
	State	12.56	1.02	0.59	11.67	13.67
	National	8.78	2.09	1.21	6.40	10.33
	International	8.61	1.14	0.66	7.33	9.50

Table 1shows that the mean of dig's average per set in district, state, national and international level senior male volleyball team was 11.19±1.88, 12.56±1.02, 8.78±2.09 and 8.61±1.14

Graphical representation of dig skill in Volleyball (Ave. per set).

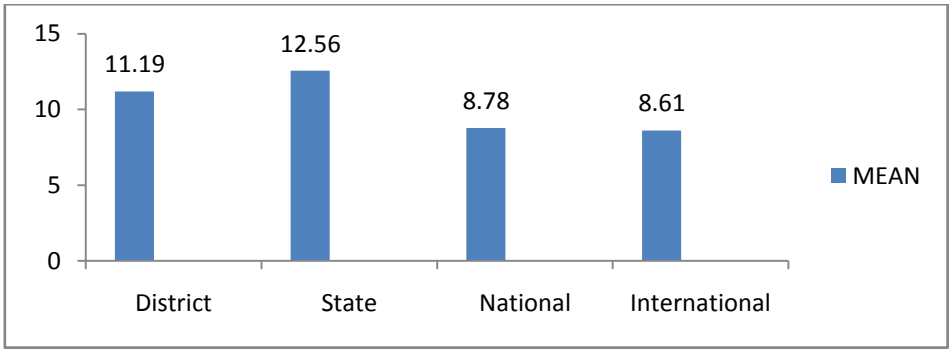

Table 2: ANOVA OF DIG						
		Sum of squares	df	Mean square	F-ratio	Sig.
Dig	Between Group	33.199	3	11.066	4.327*	0.043
	Within Groups	20.458	8	2.557		
	Total	53.657	11			

It seems that the between group, sum of squares was 33.199, degree of frequency (df) was 3, mean square was 11.066 and within groups, sum of square was 20.458, degree of frequency (df) was 8, mean square was 2.557 and total sum of squares was 53.657, total degree of frequency (df) was 11. The between and within groups of F-ratio was 4.327 and significant level was 0.043 so, the dig 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 Dig					
Dependent Variable	Group	Group	Mean Difference	Std. Error	Sig.
Dig	District	State	1.36333	1.3057	0.327
		National	2.41667		0.101
		International	2.58333		0.083
	State	National	3.78000*		0.020
		International	3.94667*		0.016
	National	International	0.16667		0.902
*.Significant at 0.05 level					

Table 3 indicated that the Post-hoc (LSD) test of dig. It seems that the mean difference of district & state level was 1.36333 which was significant at 0.327level. The mean difference of district & national level was 2.41667 which was significant at 0.101 level. The mean difference of district &international level was 2.58333 which was significant at 0.083 level. The mean difference of state & national level was 3.78000 which was significant at 0.020 level. The mean difference of state & international level was 3.94667 which was significant at 0.016 level. The mean difference of national &international level was 0.16667 which was significant at 0.902 levelThe above table 3 also shows that the skill dig, there were significant differences between state and national, state and international, on average per set at also 0.05 level. District and state, district and national, district and international, national and international level of skills average per set was not significant at 0.05 level.

IV. Conclusion

I. In international level dig skill is not more dominating than the dig skill of national, state and district level's skill.
II. The dig skill of national level is more dominant than international, state and district level's dig skill.
III. The dig skill of state level is more dominant than district, national, and international level's dig skill.
IV. In district level dig skill is more dominating than national and international level, but not more dominating than state level.

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