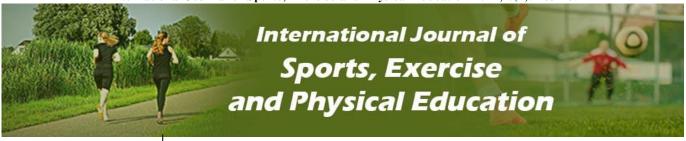
International Journal of Sports, Exercise and Physical Education 2024; 6(1): 183-185



ISSN Print: 2664-7281 ISSN Online: 2664-729X Impact Factor: RJIF 8 IJSEPE 2024; 6(1): 183-185 www.sportsjournals.net Received: 05-02-2024 Accepted: 08-03-2024

Dr. Amandeep Singh

Associate Professor, Department of Physical Education, Guru Nanak Dev University, Amritsar, Punjab, India

Priva

Research Scholar, Department of Physical Education, Guru Nanak Dev University, Amritsar, Punjab. India

Gurinderjit Singh

Assistant Professor, Department of Physical Education, Guru Nanak Dev University, Amritsar, Punjab. India

Corresponding Author:
Dr. Amandeep Singh
Associate Professor,

Associate Professor, Department of Physical Education, Guru Nanak Dev University, Amritsar, Punjab, India

Exploring achievement motivation among athletes: A comparative analysis of volleyball, football and basketball players

Dr. Amandeep Singh, Priya, and Gurinderjit Singh

DOI: https://doi.org/10.33545/26647281.2024.v6.i1c.95

Abstract

This study investigates the differences in achievement motivation among national-level volleyball, football, and basketball players using Kamlesh Achievement Motivation Scale. Achievement motivation is crucial for the success and persistence of athletes, influencing their training, performance, and competitive outcomes. The sample comprised 150 national-level players, with 50 participants each from volleyball, football, and basketball. The research employed convenience sampling and statistical analysis through One-way ANOVA and post-hoc tests (Scheffe's Test) to determine significant differences in motivation levels among these groups. The results indicated significant differences, with football and basketball players showing higher achievement motivation compared to volleyball players. These findings are consistent with existing literature, emphasizing the role of sport-specific dynamics in shaping motivation levels. The study suggests that tailored motivational strategies are needed for volleyball players, while a balance of intrinsic and extrinsic rewards should be maintained for football and basketball players. Future research should incorporate diverse sampling methods and explore additional factors influencing sport-specific motivation to enhance the academic and athletic performance of student-athletes.

Keywords: Kamlesh achievement motivation scale, achievement motivation, volleyball, football, basketball

Introduction

Achievement motivation plays a crucial role in the success and persistence of players in various sports and educational settings. Understanding the factors that influence achievement motivation can help educators and coaches develop strategies to enhance students' performance and overall well-being. This study aims to investigate the differences in achievement motivation among volleyball, football, and basketball players. The concept of achievement motivation has been extensively studied in the fields of psychology and education. McClelland (1961) [10]. First introduced the need for achievement as a key motivator in human behavior, emphasizing the desire to accomplish something significant and the drive to excel. Subsequent research has built on this foundation, exploring the various dimensions and determinants of achievement motivation. In the context of sports, achievement motivation is particularly important as it influences athletes' training, performance, and competitive outcomes. Several studies have examined the relationship between achievement motivation and sports participation, highlighting the role of intrinsic and extrinsic motivators in different sporting environments. Kamlesh Achievement Motivation Scale has been widely used to measure motivation levels among students in various educational and sports settings. This scale has been validated across different contexts, proving its reliability and relevance in assessing students' motivation. Previous research utilizing this scale has demonstrated its effectiveness in identifying motivational differences among student-athletes in different sports. The use of convenience sampling in research, although a non-probability technique, is often employed due to its practicality and ease of access to participants. While this method has limitations, it allows researchers to gather data efficiently, particularly in exploratory studies where the primary aim is to identify patterns and trends. Statistical analysis, including One-way Analysis of Variance (ANOVA) and post-hoc tests, are essential in determining the significance of differences among groups.

These methods provide a robust framework for comparing mean scores and understanding the variability within and between groups. This study employs the Achievement Motivation Scale by Kamlesh to assess the motivational levels of volleyball, football, and basketball players. By analyzing the differences in achievement motivation across these groups, this research aims to contribute to the understanding of how sports participation influences students' motivational profiles. The findings of this study have the potential to inform the development of targeted interventions and support systems for student-athletes, enhancing their academic and athletic performance. Additionally, understanding these motivational differences can help educators and coaches create more effective training programs and foster a supportive environment that nurtures students' aspirations and goals.

Materials and Methods Sample

The sample for the existing study consists of 150 National Level Players, divided into the following groups:

Group A: Volleyball (N1=50)
Group B: Football (N2=50)
Group C: Basketball (N3=50)

Description of the test

The Achievement Motivation Scale by Kamlesh has been

validated as a unitary construct that is both psychologically and sociologically meaningful across various institutional settings and environmental conditions. This scale provides a comprehensive and exhaustive list of items assessing students' motivation, drawing from the personal and social traits and situational tests identified by numerous researchers. Kamlesh designed this scale to ensure a thorough evaluation of students' achievement motivation.

Sampling

We employed convenience sampling, also referred to as availability sampling, which is a non-probability sampling technique.

Statistics

The analysis for this research paper utilized the Statistical Package for the Social Sciences (SPSS). To assess the significance of differences in means across groups for selected variables, a One-way Analysis of Variance (ANOVA) was employed. Subsequently, a Post-Hoc Test (Scheffe's Test) was conducted for further exploration. The hypotheses were tested at a significant level of 0.05.

Results

Analysis of Variance Results

F-Statistic Value = 7.88943

P-Value = 0.00056

Table 1: Show volleyball, football and basketball

Groups	N	Mean	Std. Dev.	Std. Error			
Volleyball	50	16.5	3.3457	0.4732			
Football	50	19.9	5.2499	0.7424			
Basketball	50	19.46	5.1238	0.7246			
ANOVA Summary							
Source	Degrees of Freedom, DF	Sum of Squares, SS	Mean Square, MS	F-Stat	P-Value		
Between Groups	2	341.92	170.96	7.8894	0.0006		
Within Groups	147	3185.4158	21.6695				
Total:	149	3527.3358		•			

The f-ratio value is 7.88942. The p-value is 0.000556. The result is significant at p<0.05.

Table 2: Show Pairwise Comparisons

Pairwise Comparisons		$HSD_{.05} = 2.2043, HSD_{.01} = 2.7552$	$Q_{.05} = 3.3484 \ Q_{.01} = 4.1851$	
Volleyball: Football	$M_1 = 16.50, M_2 = 19.90$	3.40	Q = 5.16 (P = 0.00105)	
Volleyball: Basketball	$M_1 = 16.50, M_3 = 19.46$	2.96	Q = 4.50 (P = 0.00509)	
Football: Basketball	$M_2 = 19.90, M_3 = 19.46$	0.44	Q = 0.67 (P = 0.88428)	

The ANOVA results indicate a significant difference in achievement motivation scores among the three groups (Volleyball, Football, and Basketball) with a p-value of 0.00056, which is less than the significance level of 0.05. Post-hoc comparisons using Scheffe's Test reveal that the achievement motivation scores for the Volleyball group are significantly lower than those for the Football and Basketball groups. However, there is no significant difference between the Football and Basketball groups.

Discussion

The findings of this study, indicating significant differences in achievement motivation among volleyball, football, and basketball players, align with existing research that emphasizes the role of sport-specific dynamics in shaping motivation levels. Similar to studies by Nicholls *et al.* (2015) and Vallerand *et al.* (2008) [11, 19], our results show that athletes in highly competitive and physically

demanding sports like football and basketball exhibit higher achievement motivation compared to those in less intensive sports like volleyball. This disparity is likely influenced by the individualistic nature and cultural prominence of football and basketball, which foster both intrinsic and extrinsic motivation, as noted by Deci and Ryan (2000) [13] and Schuler *et al.* (2014) [4, 14]. These findings suggest that tailored motivational strategies are needed to enhance motivation in volleyball players, while maintaining a balance of intrinsic and extrinsic rewards for football and basketball players. Future research should focus on diverse sampling methods and explore additional factors influencing sport-specific motivation to further validate and expand upon these insights.

Conclusions

This study explored the achievement motivation among volleyball, football, and basketball players, revealing

significant differences that align with existing research on sport-specific motivation. The results demonstrated that football and basketball players exhibit higher achievement motivation compared to volleyball players, a finding consistent with previous studies by Nicholls et al. (2015) and Vallerand *et al.* (2008) $^{[11, 19]}$. The competitive and physically demanding nature of football and basketball, coupled with their cultural prominence, likely fosters both intrinsic and extrinsic motivation in these athletes, as suggested by Deci and Ryan (2000) [13] and Schuler et al. (2014) [14]. These insights highlight the need for tailored motivational strategies to enhance achievement motivation in volleyball players, while maintaining a balance of intrinsic and extrinsic rewards for football and basketball players. Future research should focus on more diverse sampling methods and explore additional factors influencing sport-specific motivation to further validate and expand upon these findings. Understanding these motivational differences can aid in developing targeted interventions and support systems for student-athletes, enhancing their academic and athletic performance.

References

- Atkinson JW, Feather NT, editors. A theory of achievement motivation. New York: Wiley; c1966.
- 2. Bornstein MH, Jager J, Putnick DL. Sampling in developmental science: Situations, shortcomings, solutions, and standards. Dev Rev. 2013;33(4):357-70. https://doi.org/10.1016/j.dr.2013.08.003.
- 3. Deci EL, Ryan RM. Intrinsic motivation and self-determination in human behavior. New York: Plenum; c1985. https://doi.org/10.1007/978-1-4899-2271-7.
- 4. Deci EL, Ryan RM. The "what" and "why" of goal pursuits: Human needs and the self-determination of behavior. Psychol Inq. 2000;11(4):227-68. https://doi.org/10.1207/S15327965PLI1104_01.
- 5. Eccles JS, Wigfield A. Motivational beliefs, values, and goals. Annu Rev Psychol. 2002;53(1):109-32. https://doi.org/10.1146/annurev.psych.53.100901.13515 3.
- Etikan I, Musa SA, Alkassim RS. Comparison of convenience sampling and purposive sampling. Am J Theor Appl Stat. 2016;5(1):1-4. https://doi.org/10.11648/j.ajtas.20160501.11.
- 7. Field A. Discovering statistics using IBM SPSS Statistics, 4th Ed. London; SAGE; c2013.
- Heckhausen H. Achievement motivation and its constructs: A cognitive model. Motiv Emot. 1977;1(4):283-329. https://doi.org/10.1007/BF00998113.
- 9. Kamlesh ML. Psychology in physical education and sport. New Delhi: Metropolitan Book Co; c1990.
- 10. McClelland DC. The achieving society. Princeton, NJ: Van Nostrand; c1961.
- 11. Nicholls AR, Levy AR, Perry JL. Emotional maturity, motivation, and sport performance. J Sport Exerc Psychol. 2015;37(3):286-98. https://doi.org/10.1123/jsep.2014-0259.
- 12. Roberts GC. Achievement motivation in children's sport. In: Nicholls JG, Editor. The development of achievement motivation. Greenwich, CT: JAI Press; c1984. p. 251-81.

- 13. Ryan RM, Deci EL. Self-determination theory and the facilitation of intrinsic motivation, social development, and well-being. Am Psychol. 2000;55(1):68-78. https://doi.org/10.1037/0003-066X.55.1.68.
- 14. Schuler J, Wegner M, Ohlert J. Achievement motivation in competitive sports: Linking psychological and sociocultural variables. Eur J Sport Sci. 2014;14(2):168-75. https://doi.org/10.1080/17461391.2013.856867.
- Sharma S. A study of achievement motivation among athletes and non-athletes. J Educ Pract. 2013;4(26):166-
- 16. Singh R. Achievement motivation and academic anxiety of secondary school students in relation to their parental encouragement. Int J Educ Res Technol. 2011;2(2):15-20.
- 17. Tabachnick BG, Fidell LS. Using multivariate statistics. 7th Ed. Boston: Pearson; c2019.
- 18. Vallerand RJ, Rousseau FL. Intrinsic and extrinsic motivation in sport and exercise: A review and a look at the future. In: Singer RN, Hausenblas HA, Janelle CM, editors. Handbook of sport psychology. New York: Wiley; c2001. p. 389-416.
- 19. Vallerand RJ, Ntoumanis N, Philippe FL, Lavigne GL, Carbonneau N, Bonneville A, *et al.* On passion and sports fans: A look at football. J Sport Exerc Psychol. 2008;30(5):462-84.
 - https://doi.org/10.1123/jsep.30.5.462.