



ANALYSIS OF SELECTED ANTHROPOMETRICAL VARIABLES BETWEEN COLLEGE MEN BASKETBALL AND NETBALL PLAYERS

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Abstract:

The purpose of the study was to compare the height and weight between college men basketball and netball players. To achieve this purpose of the study, sixty men players studying in the colleges in Karnataka State, India were selected as subjects at random. Among them, thirty basketball players and thirty netball players were selected. Among the anthropometrical variables, the following variables namely height and weight were selected as criterion variables. All the subjects of two groups were tested on selected dependent variables by using stadiometer and weighing machine separately. The independent 't' ratio was used to analyze the significant difference if any between groups. The .05 level of confidence was fixed as the level of significance to test the 't' ratio obtained, which was considered appropriate. The results of the study showed that there was a significant difference between basketball players and netball players on height and weight.

Key Words: Height, Weight, College Men Basketball Players, Netball Players

Introduction:

The role of height and weight in college men's basketball and netball players can significantly impact their performance and effectiveness on the court. Height is a crucial factor in basketball, especially for positions such as center and power forward. Taller players have advantages in rebounding, shot-blocking, and defending near the basket. Centers are often the tallest players on the team and are responsible for scoring close to the basket, blocking shots, and controlling the paint. Guards and forwards also benefit from height, as it can help them shoot over defenders, grab rebounds, and see passing lanes more effectively.

Weight can contribute to a player's physical presence and ability to establish position in the paint. Heavier players can often absorb contact better when driving to the basket or defending against larger opponents. Centers and power forwards typically carry more weight to establish themselves in the low post and battle for rebounds and position under the basket. Guards and forwards may have varying weights depending on their playing style and role within the team. Some may focus on agility and speed, while others prioritize strength and physicality.

Netball is traditionally played by women, and the role of height and weight in men's netball may differ slightly. Height can provide advantages in netball, particularly for positions like goal shooter and goal keeper, where players need to reach for passes, intercept throws, and shoot over defenders. Taller players may have better reach and can disrupt passing lanes and shots from opponents.

Weight can contribute to a player's stability and ability to hold position, especially in physical matchups against opponents. Heavier players may have advantages in maintaining balance and establishing position in the goal circle or defending against opponents. In both basketball and netball, while height and weight can confer advantages, skill, agility, and athleticism are also crucial factors for success. Players with exceptional ball-handling, shooting, passing, and defensive skills can excel regardless of their physical attributes. Coaches often assess players based on a combination of factors, including height, weight, skill level, and overall athleticism, to determine their roles and contributions to the team.

Methodology:

The purpose of the study was to compare the height and weight between college men basketball and netball players. To achieve this purpose of the study, sixty men players studying in the colleges in Karnataka State, India were selected as subjects at random. Among them, thirty basketball players and thirty netball players were selected. Among the anthropometrical variables, the following variables namely height and weight were selected as criterion variables. All the subjects of two groups were tested on selected dependent variables by using stadiometer and weighing machine separately. The independent 't' ratio was used to analyze the significant difference, if any between groups. The .05 level of confidence was fixed as the level of significance to test the 't' ratio obtained, which was considered as an appropriate.

Analysis of the Data:

Height:

The mean, standard deviation and 't' ratio values on height of basketball players and netball players have been analyzed and presented in table 1.

Table 1: The Mean, Standard Deviation and 't' Ratio Values Between Basketball and Netball Players on Height

Groups	Mean	Standard Deviation	't' Ratio Value
Basketball Players	183.24	2.17	5.70*
Netball Players	186.37	2.08	

* Significant at .05 level of confidence.

(The table values required for significance at .05 level of confidence with df 58 was 2.002).

The table 1 shows that the mean values on height for basketball players and netball players were 183.24 and 186.37 respectively. The obtained 't' ratio value on height 5.70 which was greater than the table value required for significance with df 58 was 2.002. The results of the study showed that there was a significant difference between college men basketball players and netball players on height.

Weight:

The mean, standard deviation and 't' ratio values on weight of basketball players and netball players have been analyzed and presented in table 2.

Table 2: The Mean, Standard Deviation and 't' Ratio Values between Basketball and Netball Players on Weight

Groups	Mean	Standard Deviation	't' Ratio Value
Basketball Players	87.92	1.69	3.11*
Netball Players	89.11	1.24	

* Significant at .05 level of confidence.

(The table values required for significance at .05 level of confidence with df 58 was 2.002).

The table 2 shows that the mean values on weight for basketball players and netball players were 87.92 and 89.11 respectively. The obtained 't' ratio value on weight 3.11 which was greater than the table value required for significance with df 58 was 2.002.

The results of the study showed that there was a significant difference between college men basketball players and netball players on weight.

Conclusions:

- There was a significant difference between basketball players and netball players in height.
- There was a significant difference between basketball players and netball players in weight.

References:

1. Abbott, W., & Brickley, G. (2011). Anthropometric and Physiological Characteristics of Elite Female Water Polo Players. *Journal of Human Sport and Exercise*, 6(2), 350-358.
2. Duthie, G. M., Pyne, D. B., & Hooper, S. L. (2003). Time motion analysis of 2001 and 2002 Australian National League netball. *Journal of Sports Sciences*, 21(3), 223-230.
3. Girginov, V., & Hills, L. (2008). Physical and Physiological Characteristics of Elite Male Handball Players from Teams with a Different Ranking. *Journal of Human Kinetics*, 19(1), 115-126.
4. Hoffman, J. R., Tenenbaum, G., & Maresh, C. M. (1996). Relationship between Athletic Performance Tests and Playing Time in Elite College Basketball Players. *Journal of Strength and Conditioning Research*, 10(2), 67-71.
5. Nikolaidis, P. T. (2014). Age- and sex-related differences in the anthropometry and neuromuscular fitness of competitive judoists. *Journal of Human Kinetics*, 41(1), 213-223.
6. Nikolaidis, P. T., & Ziv, G. (2014). Anthropometric, Physiological and Performance Characteristics of Elite Team-Handball Players. *Journal of Sports Sciences*, 32(2), 206-214.
7. Povoas, S. C. A., Seabra, A. F. T., Ascensão, A. A. M. R., Magalhães, J. A. P., Soares, J. M. C., & Rebelo, A. N. C. (2012). Physical and Physiological Demands of Elite Team Handball. *Journal of Strength and Conditioning Research*, 26(12), 3365-3375.
8. Veale, J. P., & Pearce, A. J. (2010). Anthropometric Profiles of Elite Netballers and Their Association with Competition Level. *Journal of Science and Medicine in Sport*, 13(2), 174-179.