

## Study of explore the impact of spectators on individual match performance of male badminton players

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### Abstract

Sports and games are display of bodily movements and fitness feats. Sports are somehow alike with performance art exhibiting spectacular performances. Sports are witnessed by millions of spectators who augment sport as a whole. In fact sports and spectators are like two sides of a coin or more clearly speaking sports and spectators are made for each other. Spectators derive enjoyment, delight and pleasure from sport and on the contrary athletes get motivation enthusiasm and inspiration through spectators. This is a bipolar process. In the world of sport spectators usually play a significant role. According to experts spectators may be either positive or negative to performance of an athlete. Several research studies have been conducted to assess or analyze the impact of spectators on sport performance of athlete but in the Indian context very few research studies have been conducted so far. Keeping in view this gap the scholar planned to conduct a research study to explore the impact of presence of spectators in individual performance of badminton players. The scholars randomly selected collegiate male badminton players and assessed their individual match performance through video recording and scores or points allocated by panel of experts on the basis of skills and techniques executed. Performance of the athletes or the players was recorded in presence and in absence of spectators. From data analysis it is revealed that the players exhibited better performance in presence of spectators.

**Keywords:** explore spectators, match, performance, badminton

### Introduction

Sports and games are display of bodily movements and fitness feats. Sports are somehow alike with performance art exhibiting spectacular performances. Sports are witnessed by millions of spectators who augment sport as a whole. In fact sports and spectators are like two sides of a coin or more clearly speaking sports and spectators are made for each other. Spectators derive enjoyment, delight and pleasure from sport and on the contrary athletes get motivation enthusiasm and inspiration through spectators. This is a bipolar process. In the world of sport spectators usually play a significant role. According to experts spectators may be either positive or negative to performance of an athlete. Several research studies have been conducted to assess or analyze the impact of spectators on sport performance of athlete but in the Indian context very few research studies have been conducted so far. Keeping in view this gap the scholar planned to conduct a research study to explore the impact of presence of spectators in individual performance of badminton players.

### Purpose

The purpose of the study was to assess the impact of presence of spectators on individual match performance of badminton players.

### Significance

The scholar feels that the findings of the present study will help athletes and coaches in tactically and strategically.

### Methodology

The study is experimental in nature and considering the nature the scholar designed to gather data related to individual match performance of the players once in presence of spectators followed by recording of performance in absence of spectators. For the study the author randomly selected 30 collegiate male shuttlers from Kalyani University and affiliated colleges. Individual match performance of the players were recorded through video recording and scores or points allocated by panel of experts on the basis of skills and techniques executed during the matches. Data were statistically analyzed for drawing inferences.

### Result and Discussion

Individual match analysis of male shuttlers with spectators and without spectators: Initially the author presented table 1 given below to show how she recorded the individual performance of the players with the help of scores based of weight age nominated by the panel of experts. To cut short the presentation the scholar compiled the scores of the players in single sheet presented in tables 2 and 3 i.e. table 2 showing the total scores of the players in presence of spectators and table 3 showing the total scores of the players in presence of spectators.

**Table 1:** Singles match: with spectators match no-1 player - Arindam

| Skill         | Weight | No. of times | Score |
|---------------|--------|--------------|-------|
| Drop          | 3      | 5            | 15    |
| Dribbling     | 4      | 3            | 12    |
| Smash         | 5      | 5            | 25    |
| Short service | 2      | 5            | 10    |
| Long service  | 2      | 6            | 12    |
| Final score   |        |              | 74    |

From the data presented in table 1 it is revealed that in a match without spectators Arindam scored 74 points. Compiled scores of the players in presence and in absence of spectators are presented below in tables 2 and 3.

**Table 2:** Scores of players in presence of spectators

| Players  | Total individual score |
|--|------------------------|
| Arindam  | 74                     |
| Arnab  | 65                     |
| Saurav Majhi   | 69                     |
| Siddhartha Roy   | 75                     |
| Total score of all the players in presence of spectators | 283                    |

According to table 2 in presence of spectators Arindam scored 74, Arnab scored 65, Saurav Majhi scored 69 and Siddhartha scored 75 and the total score of the players in presence of spectators is 283.

**Table 3:** Scores of players in absence of spectators

| Players   | Total individual score |
|---|------------------------|
| Arindam   | 56                     |
| Arnab   | 57                     |
| Saurav Majhi  | 64                     |
| Siddhartha Roy  | 74                     |
| Total score of all the players in absence of spectators | 231                    |

According to table 3 in absence of spectators Arindam scored 56, Arnab scored 57, Saurav Majhi scored 64 and Siddhartha scored 74 and the total score of the players in absence of spectators is 231. Initially the scholar prepared an excel sheet with the scores with spectators in a column and scores without spectators in other and computed descriptive statistics.

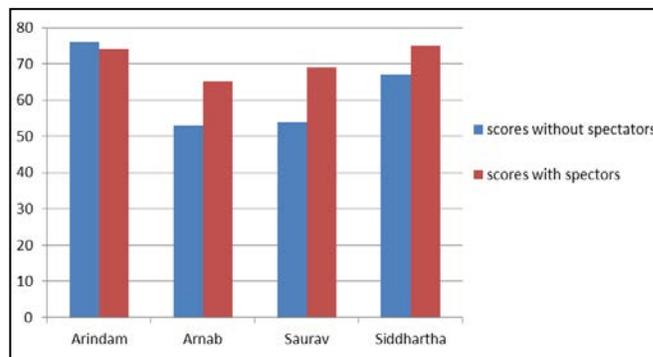
**Table 7:** Paired Samples Test

| Pair | scores with spectators - scores without spectators | Paired Differences |                |                 |   | t     | df    | Sig. (2-tailed) |       |
|------|--|--------------------|----------------|-----------------|---|-------|-------|-----------------|-------|
|      |  | Mean               | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference |       |       |                 |       |
|      |  |                    |                |                 | Lower                                     |       |       |                 | Upper |
| 1    |  | 1.650              | 3.646          | .815            | -.056                                     | 3.356 | 2.024 | 19              | .057  |

From the paired samples statistics result presented in table no. 12 it is clear that there exist significant difference between performance of male badminton players in presence and in absence of spectators. It is revealed from the result that the individual performances of the players are significantly better in presence of spectators when compared compositely. Thus the author arrived at the conclusion that presence of spectators has a positive impact on performance of an athlete.

**Table 4:** Descriptive Statistics of score with and without spectators

|                           | N  | Minimum | Maximum | Mean  | Std. Deviation |
|---------------------------|----|---------|---------|-------|----------------|
| scores with spectators    | 20 | 6       | 25      | 14.15 | 5.603          |
| scores without spectators | 20 | 4       | 25      | 12.50 | 5.680          |
| Valid N (listwise)        | 20 |         |         |       |                |



**Fig 2:** Difference of mean of individual performance between with and without spectators

From the column chart presented in Fig. 2 it is clear that in 3 cases the individual performance in singles matches is better in presence of spectators. The scholar summed up the scores and computed descriptive statistics to infer difference of individual performance as a whole which has been presented in table no 4. As the statistics show differences the scholar further computed paired samples t test to assess the degree of difference between the means.

**Table 5:** Paired Samples Statistics

|        |                           | Mean  | N  | Std. Deviation | Std. Error Mean |
|--------|---------------------------|-------|----|----------------|-----------------|
| Pair 1 | scores with spectators    | 14.15 | 20 | 5.603          | 1.253           |
|        | scores without spectators | 12.50 | 20 | 5.680          | 1.270           |

**Table 6:** Paired Samples Correlations

|        |  | N  | Correlation | Sig. |
|--------|--|----|-------------|------|
| Pair 1 | scores with spectators & scores without spectators | 20 | .791        | .000 |

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