

Superstitious behavior among judo, taekwondo and boxing players

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Abstract:

Purpose: The present study was designed to measure superstitious behavior among Judo, Taekwondo and Boxing players. **Material:** Thirty (N=30) male inter-college level players with the age group of 19-25 years were selected through purposive sampling technique to act as subjects from affiliated colleges of Panjab University, Chandigarh. They were further divided into three groups: Group-A [Judo (n=10)], Group-B [Taekwondo (n=10)] and Group-C [Boxing (n=10)]. One Way Analysis of Variance (ANOVA) was applied to find out the differences among judo, taekwondo and boxing players. Where 'F' values found significant, Least Significant Differences (LSD) Post-hoc test was applied to find out the direction and degree of difference. **Results:** The level of significance was set at 0.05. The result revealed significant differences among judo, taekwondo and boxing players on the sub parameters: clothing and appearance, preparation, team ritual and coach. However, no significant differences have been observed on the sub-parameters fetish, game/competition, prayer and parameter superstitious (Total). **Conclusions:** The obtained results showed significant differences on the sub-parameter Coach among Judo, Taekwondo and Boxing players. While calculating the mean values of entire groups, it has been observed that Boxing players demonstrate significantly better on the sub-parameter Coach. Therefore, it can be ascertained that Boxing players are more confident that coach bring a lucky charm to our game.

Гаурав Дуря, Гагандип Сингх. Суеверные поведения среди спортсменов в дзюдо, тэквондо и боксе. Цель: Настоящее исследование было разработано для оценки поведения среди суеверных спортсменов в дзюдо, тэквондо и боксе. **Материал:** Тридцать (N = 30) мужчин спортсменов межвузовского уровня с возрастной группы 19-25 лет были отобраны с помощью целесообразной методики отбора проб. Студенты представляли колледжи университета Пенджаба, Чандигарх. Они были дополнительно разделены на три группы: Группа-А [Дзюдо (n = 10)], группа-В [тэквондо (n = 10)] и Группа-С [Бокс (n = 10)]. Был применен однофакторный дисперсионный анализ (ANOVA), чтобы выявить различия между спортсменами дзюдо, тэквондо и бокса. Для определения направления и степени различия учитывались значения F, LSD. Уровень значимости был установлен на уровне 0,05. **Результаты:** В результате были выявлены значительные различия между спортсменами дзюдо, тэквондо и бокса по следующим параметрам: одежда и внешний вид, подготовка, командный ритуал и тренер. Тем не менее, никаких существенных различий не было обнаружено у дополнительных элементов: амулет, игра/соревнование, молитва как общего параметра суеверия. **Выводы:** Полученные результаты показали значительные различия подпараметра тренер среди всех спортсменов. При расчете средних значений целых групп было отмечено, что боксеры демонстрируют более высокие значения подпараметра тренер. Таким образом, можно констатировать, что боксеры более уверены, что тренер является счастливым талисманом в такой игре.

Гаурав Дурі, Гагандіп Сингх. Забобонні поведінки серед спортсменів в дзюдо, тэквондо та боксі. Мета: Це дослідження було розроблено для оцінки поведінки серед забобонних спортсменів в дзюдо, тэквондо і боксі. **Матеріал:** Тридцять (N = 30) чоловіків спортсменів міжвузівського рівня з вікової групи 19-25 років були відібрані за допомогою доцільної методики відбору проб. Студенти представляли коледжі університету Пенджабу, Чандігарх. Вони були додатково розділені на три групи: Група-А [Дзюдо (n = 10)], група-В [тэквондо (n = 10)] і Група-С [Бокс (n = 10)]. Був застосований однофакторний дисперсійний аналіз (ANOVA), щоб з'ясувати відмінності між спортсменами дзюдо, тэквондо та боксу. Для визначення напрямку і ступеня відмінності враховувалися значення F, LSD. Рівень значущості був встановлений на рівні 0,05. **Результати:** В результаті були виявлені значні відмінності між спортсменами дзюдо, тэквондо та боксу за такими параметрами: одяг і зовнішній вигляд, підготовка, командний ритуал і тренер. Проте, ніяких істотних відмінностей не було виявлено у додаткових елементів: амулет, гра / змагання, молитва як загальних параметрів забобонів. **Висновки:** Отримані результати показали значні відмінності підпараметру тренер серед всіх спортсменів. При розрахунку середніх значень цілих груп було відзначено, що боксери демонструють більш високі значення підпараметра тренер. Таким чином, можна констатувати, що боксери більш впевнені, що тренер є щасливим талисманом в такій грі.

Keywords:

Superstitious behavior, Judo, Taekwondo, Boxing, players.

суеверное поведение, дзюдо, тэквондо, бокс, спортсмены.

забобонна поведінка, дзюдо, тэквондо, бокс, спортсмени.

Introduction

Superstitions are regarded as “a belief that one’s fate is in the hands of unknown external powers governed by forces over which one has no control” [8]. Superstitions are irrational beliefs that influence the emotional states of people who hold them. They are learned forms of behavior, or dispositions about objects or situations, that direct the holder toward some preferred response [7]. Wann et al. [12] describe superstitious behavior as an action or series of actions believed to lead to or cause a specified, generally desirable, outcome. Brooks [3] explains that people engage in superstitious behaviors when they feel as if they are losing control over their own lives and their brains are searching for order and structure. Cultural and environmental factors also play a role. For example, it has been found that persons in high risk areas in the Middle East, currently in a state of disarray, are more likely to carry a lucky charm in hopes of regaining some order and structure and reducing some of their internal chaos [3].

Superstition in sports can be defined as “actions which are repetitive, formal, sequential, and distinct from technical performance and which the athlete believes to be powerful in controlling luck or other external factors” [2]. The repetitive nature of such events allows for the term ‘ritual’ to be used to describe these superstitious behaviors. A ritual in sport is usually defined as conscious activity involving heightened arousal with focused attention that provides a way of coping with a high stress situation [15].

Superstitious practices in sports have been linked to the theoretical perspectives of attribution [6], achievement motivation [13], reinforcement [9], and locus of control [16]. Attribution theory is based on individual perceptions about success and failure and relates to the need for achievement. Weiner [13] believed that when achievement is aroused, we tend to attribute our performance to a variety of possible causes or attribution elements, such as ability, effort, or luck. Athletes, competing under extreme conditions, may often feel that they don’t have enough control over uncertainty, which affects their performance.

Engaging in superstitious behavior can offer the assurance of illusory control in a high-stress or uncertain situation. If subsequent accidental connections are made between the ritual and favorable consequences, the behavior will be maintained as a superstition despite instances that go without such reinforcement. It is the chance element that is often present in sport, which contributes to the athlete's feelings of uncertainty and lack of control [11]. Therefore, the present study was designed with the purpose to investigate the superstitious behaviour among Judo, Taekwondo and Boxing players.

Method and material

Sample: Thirty (N=30) male inter-college level players with the age group of 19 to 25 years were selected through purposive sampling technique to act as subjects from, affiliated colleges of Panjab University, Chandigarh. They were further divided into three groups: Group-A [Judo (n=10)], Group-B [Taekwondo (n=10)] and Group-C [Boxing (n=10)].

Instrument:

The superstitious Questionnaire developed by Bleak and Frederick (1998) was administrated.

Statistical Techniques:

One Way Analysis of Variance (ANOVA) was employed to find out the differences among Judo,

Taekwondo and Boxing players. Where 'F' values found significant, Least Significant Differences (LSD) Post-hoc test was applied to find out the direction and degree of difference. The level of significance was set at 0.05.

Results

Table 1 depicts the results Judo, Taekwondo and Boxing players on the sub-parameter Clothing and Appearance. The scores of Judo players showed the Mean and SD values as 27.50 and 4.11 respectively. The scores of Taekwondo players showed the Mean and SD values as 34.10 and 7.69 respectively. However, the scores of Boxing players showed had Mean and SD values as 31.30 and 2.83 respectively.

It can be seen from table 2 that significant differences were found with regard to the sub-parameter Clothing and Appearance among Judo, Taekwondo and Boxing players as the P-value (Sig.) .03 was found smaller than 0.05 level of significance ($p < 0.05$).

Since the obtained F-value was found significant, therefore, least significant difference (LSD) Post-hoc test was employed to study the direction and significance of difference between paired means among Judo, Taekwondo and Boxing players on the sub-parameter Clothing and Appearance. The results of LSD Post-hoc test have been presented in Table 3.

Table 1. Descriptive analysis among Judo, Taekwondo and Boxing on the sub-parameter clothing and appearance

S. No.	Groups	N	Mean	Std. Deviation	Std. Error
1.	Judo	10	27.50	4.11	1.30
2.	Taekwondo	10	34.10	7.69	2.43
3.	Boxing	10	31.30	2.83	.89
	Total	30	30.96	5.80	1.05

Table 2. One way analysis of variance (Anova) results among judo, taekwondo and boxing players with regard to the sub-parameter clothing and appearance

Source of Variation	Sum of Squares	Degree of Freedom	Mean Square	F-Value	P-Value (Sig.)
Between Groups	219.46	2	109.73		
Within Groups	757.50	27	28.05	3.91	.03*
Total	976.96	29			

* Confident at 0.05

Table 3. Analysis of least significant difference (LSD) post-hoc test among judo, taekwondo and boxing players on the sub-parameter clothing and appearance

Means	Mean Difference	P-Value (Sig.)
Judo (27.50)	Taekwondo (34.10)	.01*
	Boxing (31.30)	.12
Taekwondo (34.10)	Judo (27.50)	.01*
	Boxing (31.30)	.24
Boxing (31.30)	Judo (27.50)	.12
	Taekwondo (34.10)	.24

* Confident at 0.05

It has been observed from the Table 3 that mean difference between judo and taekwondo players was found 6.60. The P-value (Sig.) .01 showed that taekwondo players had demonstrated significantly better clothing and appearance than their counterpart judo players.

The mean difference between judo and boxing players was found 3.80. The P-value (Sig.) .12 revealed that boxing players had exhibited better clothing and appearance though not significantly than their counterpart judo players.

The mean difference between taekwondo and boxing players was found 2.80. The P-value (Sig.) .24 revealed that taekwondo players had exhibited better clothing and appearance though not significantly than their counterpart boxing players. The graphical representation of means scores of clothing and appearance among Judo, Taekwondo and Boxing players has been exhibited in Figure 1.

scores

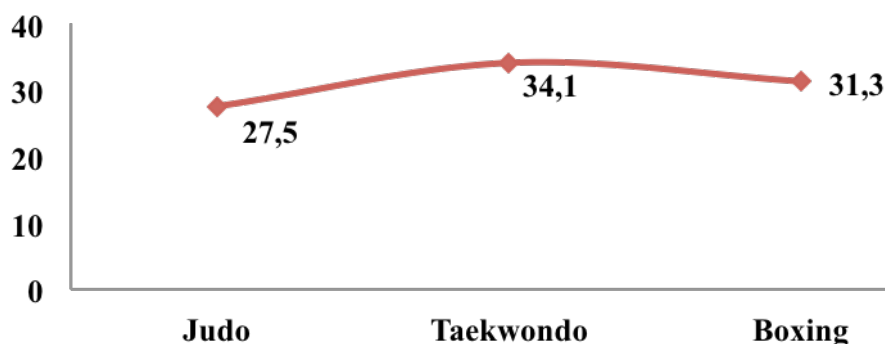


Figure 1. Graphical representation of mean scores with regard to judo, taekwondo and boxing players on the sub-parameter clothing and appearance.

Table 4. Descriptive analysis among judo, taekwondo and boxing players on the sub-parameter fetish

S. No.	Groups	N	Mean	Std. Deviation	Std. Error
1.	Judo	10	14.90	7.20	2.27
2.	Taekwondo	10	13.30	4.92	1.55
3.	Boxing	10	17.00	4.24	1.34
	Total	30	15.06	5.61	1.02

Table 5. One way analysis of variance (Anova) results among judo, taekwondo and boxing players with regard to the sub-parameter fetish

Source of Variation	Sum of Squares	Degree of Freedom	Mean Square	F-Value	P-Value (Sig.)
Between Groups	68.86	2	34.43		
Within Groups	847.00	27	31.37	1.09	.34
Total	915.86	29			

* Confident at 0.05

Table 6. Descriptive analysis among judo, taekwondo and boxing players on the sub-parameter preparation

S. No.	Groups	N	Mean	Std. Deviation	Std. Error
1.	Judo	10	14.90	2.42	.76
2.	Taekwondo	10	21.50	4.62	1.46
3.	Boxing	10	17.20	3.39	1.07
	Total	30	17.86	4.44	.81

as 14.90 and 2.42 respectively. The scores of taekwondo players showed the Mean and SD values as 21.50 and 4.62 respectively. However, the scores of boxing players showed had Mean and SD values as 17.20 and 3.39 respectively.

It can be seen from Table 7 that significant differences were found with regard to the sub-parameter Preparation among Judo, Taekwondo and Boxing players as the P-value (Sig.) .00 was found smaller than 0.05 level of significance ($p < 0.05$).

Since the obtained F-value was found significant, therefore, least significant difference (LSD) Post-hoc test was employed to study the direction and significance of difference between paired means among Judo, Taekwondo and Boxing players on the sub-parameter preparation. The results of LSD Post-hoc test have been presented in Table 8.

It has been observed from the Table 8 that mean difference between judo and taekwondo players was found 6.60. The P-value (Sig.) .00 showed that taekwondo players had demonstrated significantly better preparation than their counterpart judo players.

The mean difference between judo and boxing players was found 2.30. The P-value (Sig.) .16 revealed that boxing players had exhibited better preparation though not significantly than their counterpart judo players.

It has been observed from the Table 8 that mean difference between judo and taekwondo players was found 4.30. The P-value (Sig.) .01 showed that taekwondo players had demonstrated significantly better preparation than their counterpart judo players. The graphical representation of means scores of preparation among Judo, Taekwondo and Boxing players has been exhibited in Figure 2.

Table 9 depicts the results among Judo, Taekwondo and Boxing players on the sub-parameter Game/Competition. The scores of Judo players showed the Mean and SD values as 13.50 and 3.20 respectively. The scores of Taekwondo players showed the Mean and SD values as 12.30 and 4.24 respectively. However, the scores of Boxing players showed had Mean and SD values as 11.70 and 3.71 respectively.

It can be seen from Table 10 that insignificant differences were found with regard to the sub-parameter

Table 7. One way analysis of variance (Anova) results among judo, taekwondo and boxing players with regard to the sub-parameter preparation

Source of Variation	Sum of Squares	Degree of freedom	Mean Square	F-Value	P-Value (Sig.)
Between Groups	224.46	2	112.23		
Within Groups	349.00	27	12.92	8.68	.00*
Total	573.46	29			

* Confident at 0.05

Table 8. Analysis of least significant difference (LSD) post-hoc test among judo, taekwondo and boxing players on the sub-parameter preparation

Means		Mean Difference	P-Value (Sig.)
Judo (14.90)	Taekwondo (21.50)	6.60	.00*
	Boxing (17.20)	2.30	.16
Taekwondo (21.50)	Judo (14.90)	6.60	.00
	Boxing (17.20)	4.30*	.01*
Boxing (17.20)	Judo (14.90)	2.30	.16
	Taekwondo (21.50)	4.30*	.01*

* Confident at 0.05

Table 9. Descriptive analysis among judo, taekwondo and boxing players on the sub-parameter game/competition

S. No.	Groups	N	Mean	Std. Deviation	Std. Error
1.	Judo	10	13.50	3.20	1.01
2.	Taekwondo	10	12.30	4.24	1.34
3.	Boxing	10	11.70	3.71	1.17
	Total	30	12.50	3.69	.67

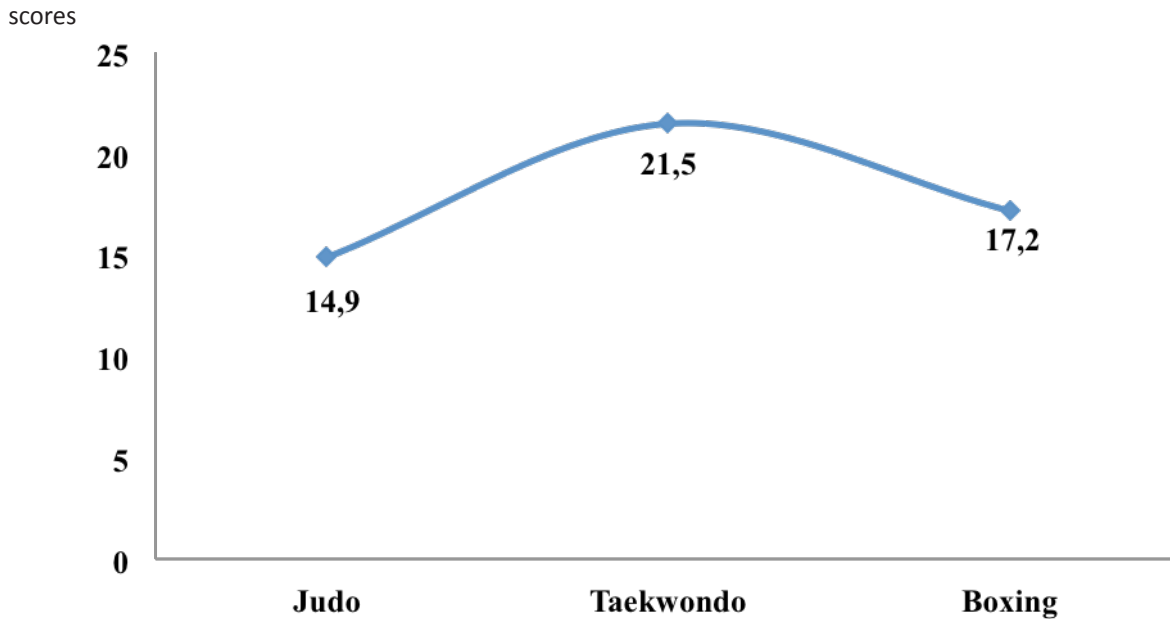


Figure 2. Graphical representation of mean scores with regard to judo, taekwondo and boxing players on the sub-parameter preparation

Table 10. One way analysis of variance (Anova) results among judo, taekwondo and boxing players with regard to the sub-parameter game/competition

Source of Variation	Sum of Squares	Degree of Freedom	Mean Square	F-Value	P-Value (Sig.)
Between Groups	16.80	2	8.40		
Within Groups	378.70	27	14.02	.59	.55
Total	395.50	29			

* Confident at 0.05

Table 11. Descriptive analysis among judo, taekwondo and boxing players on the sub-parameter team ritual

S. No.	Groups	N	Mean	Std. Deviation	Std. Error
1.	Judo	10	14.60	3.86	1.22
2.	Taekwondo	10	11.80	2.57	.81
3.	Boxing	10	9.90	3.60	1.13
	Total	30	12.10	3.81	.69

Table 12. One way analysis of variance (Anova) results among judo, taekwondo and boxing players with regard to the sub-parameter team ritual

Source of Variation	Sum of Squares	Degree of Freedom	Mean Square	F-Value	P-Value (Sig.)
Between Groups	111.80	2	55.90		
Within Groups	310.90	27	11.51	4.85	.01*
Total	422.70	29			

* Confident at 0.05

Game/Competition among Judo, Taekwondo and Boxing players as the P-value (Sig.) .55 was found higher than the 0.05 level of significance ($p > 0.05$). Since F-value was found insignificant, therefore, there is no need to apply Post-hoc test.

Table 11 depicts the results among Judo, Taekwondo and Boxing players on the sub-parameter Team Ritual. The scores of judo players showed the Mean and SD

values as 14.60 and 3.86 respectively. The scores of taekwondo players showed the Mean and SD values as 11.80 and 2.57 respectively. However, the scores of boxing players showed had Mean and SD values as 9.90 and 3.60 respectively.

It can be seen from Table 12 that significant differences were found with regard to the sub-parameter Team Ritual among Judo, Taekwondo and Boxing players as the

Table 13. Analysis of least significant difference (LSD) post-hoc test among judo, taekwondo and boxing players on the sub-parameter team ritual

Means		Mean Difference	P-Value (Sig.)
Judo (14.60)	Taekwondo (11.80)	2.80	.07
	Boxing (9.90)	4.70	.00*
Taekwondo (11.80)	Judo (14.60)	2.80	.07
	Boxing (9.90)	1.90	.22
Boxing (9.90)	Judo (14.60)	4.70	.00*
	Taekwondo (11.80)	1.90	.22

* Confident at 0.05

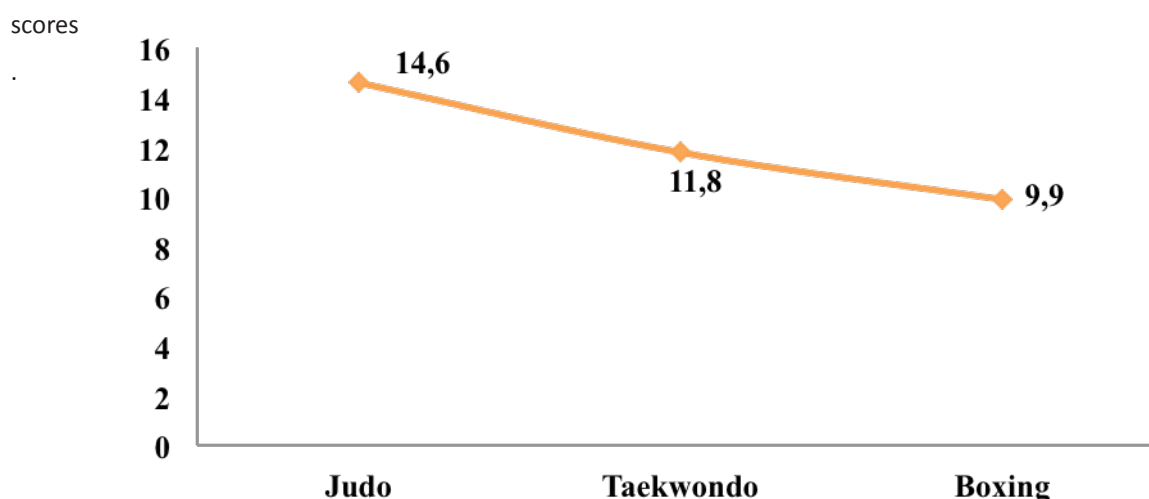


Figure 3. Graphical representation of mean scores with regard to judo, taekwondo and boxing players on the sub-parameter team ritual

P-value (Sig.) .01 was found smaller than 0.05 level of significance ($p < 0.05$).

Since the obtained F-value was found significant, therefore, least significant difference (LSD) Post-hoc test was employed to study the direction and significance of difference between paired means among Judo, Taekwondo and Boxing players on the sub-parameter Team Ritual. The results of LSD Post-hoc test have been presented in Table 13.

It has been observed from the Table 13 that mean difference between judo and taekwondo players was found 2.80. The P-value (Sig.) .07 showed that judo players had demonstrated significantly better Team Ritual than their counterpart taekwondo players.

It has been observed from the Table 13 that mean difference between judo and boxing players was found 4.70. The P-value (Sig.) .00 showed that judo players had demonstrated significantly better Team Ritual than their counterpart boxing players.

The mean difference between taekwondo and boxing players was found 1.90. The P-value (Sig.) .22 revealed

that taekwondo players had exhibited better Team Ritual though not significantly than their counterpart boxing players. The graphical representation of means scores of Team Ritual among Judo, Taekwondo and Boxing players has been exhibited in Figure 3.

Table 14 depicts the results among Judo, Taekwondo and Boxing players on the sub-parameter Prayer. The scores of judo players showed the Mean and SD values as 8.70 and 3.02 respectively. The scores of taekwondo players showed the Mean and SD values as 8.40 and 3.02 respectively. However, the scores of boxing players showed had Mean and SD values as 8.20 and 3.19 respectively.

It can be seen from Table 15 that insignificant differences were found with regard to the sub-parameter Prayer among Judo, Taekwondo and Boxing players as the P-value (Sig.) .93 was found higher than the 0.05 level of significance ($p > 0.05$). Since F-value was found insignificant, therefore, there is no need to apply Post-hoc test.

Table 16 depicts the results among Judo, Taekwondo

Table 14. Descriptive analysis among judo, taekwondo and boxing players on the sub-parameter prayer

S. No.	Groups	N	Mean	Std. Deviation	Std. Error
1.	Judo	10	8.70	3.02	.95
2.	Taekwondo	10	8.40	3.02	.95
3.	Boxing	10	8.20	3.19	1.00
	Total	30	8.43	2.97	.54

Table 15. One way analysis of variance (Anova) results among judo, taekwondo and boxing players with regard to the sub-parameter prayer

Source of Variation	Sum of Squares	Degree of Freedom	Mean Square	F-Value	P-Value (Sig.)
Between Groups	1.26	2	.633		
Within Groups	256.10	27	9.48	.06	.93
Total	257.36	29			

* Confident at 0.05

Table 16. Descriptive analysis among judo, taekwondo and boxing players on the sub-parameter coach

S. No.	Groups	N	Mean	Std. Deviation	Std. Error
1.	Judo	10	5.20	2.04	.64
2.	Taekwondo	10	7.20	2.20	.69
3.	Boxing	10	8.60	2.87	.90
	Total	30	7.00	2.71	.49

Table 17. One way analysis of variance (Anova) results among judo, taekwondo and boxing players with regard to the sub-parameter coach

Source of Variation	Sum of Squares	Degree of Freedom	Mean Square	F-Value	P-Value (Sig.)
Between Groups	58.40	2	29.20		
Within Groups	155.60	27	5.76	5.06	.01*
Total	214.00	29			

* Confident at 0.05

Table 18. Analysis of least significant difference (LSD) post-hoc test among judo, taekwondo and boxing players on the sub-parameter coach

Means		Mean Difference	P-Value (Sig.)
Judo (5.20)	Taekwondo (7.20)	2.00	.07
	Boxing (8.60)	3.40	.00*
Taekwondo (7.20)	Judo (5.20)	2.00	.07
	Boxing (8.60)	1.40	.20
Boxing (8.60)	Judo (5.20)	3.40	.00*
	Taekwondo (7.20)	1.40	.20

*Confident at 0.05

and Boxing players on the sub-parameter Coach. The scores of judo players showed the Mean and SD values as 5.20 and 2.04 respectively. The scores of taekwondo players showed the Mean and SD values as 7.20 and 2.20 respectively. However, the scores of boxing players showed had Mean and SD values as 8.60 and 2.87 respectively.

It can be seen from Table 17 that significant differences were found with regard to the sub-parameter Coach among Judo, Taekwondo and Boxing players as the P-value (Sig.) .01 was found smaller than 0.05 level of significance ($p < 0.05$).

Since the obtained F-value was found significant, therefore, least significant difference (LSD) Post-hoc test

was employed to study the direction and significance of difference between paired means among Judo, Taekwondo and Boxing players on the sub-parameter Coach. The results of LSD Post-hoc test have been presented in Table 18.

The mean difference between judo and taekwondo players was found 2.00. The P-value (Sig.) .07 revealed that taekwondo players had exhibited better Coach though not significantly than their counterpart judo players.

It has been observed from the Table 18 that mean difference between judo and boxing players was found 3.40. The P-value (Sig.) .00 showed that boxing players had demonstrated significantly better Coach than their counterpart judo players.

The mean difference between taekwondo and boxing players was found 1.40. The P-value (Sig.) .20 revealed that boxing players had exhibited better Coach though not significantly than their counterpart taekwondo players. The graphical representation of means scores of Coach among Judo, Taekwondo and Boxing players has been exhibited in Figure 4.

Table 19 depicts the results among Judo, Taekwondo and Boxing players on the parameter Superstitious (Total). The scores of judo players showed the Mean and scores

SD values as 99.30 and 13.67 respectively. The scores of taekwondo players showed the Mean and SD values as 108.60 and 19.02 respectively. However, the scores of boxing players showed had Mean and SD values as 102.60 and 18.91 respectively.

It can be seen from Table 20 that insignificant differences were found with regard to the parameter Superstitious (Total) among Judo, Taekwondo and Boxing players as the P-value (Sig.) .48 was found higher than the 0.05 level of significance ($p > 0.05$). Since F-value was found insignificant, therefore, there is no need to apply Post-hoc test.

Discussion

It has been observed from the Table 1 to 3 that significant differences have been found among Judo, Taekwondo and Boxing players on the sub-parameter Clothing and Appearance. While calculating the mean values of all the groups, it was observed that taekwondo players had demonstrated significantly better clothing and appearance as compared to their counterpart Judo and Boxing players. The outcome of results might be due to the fact that taekwondo players to dress well to feel better prepared for game and also get hair cut on the day of game. It is clearly illustrated from the Table 4 to

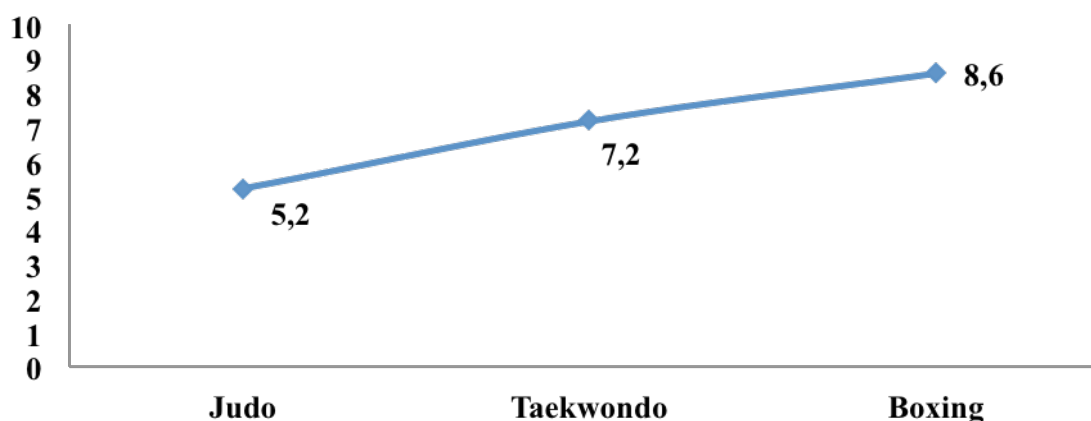


Figure 4. Graphical representation of mean scores with regard to judo, taekwondo and boxing players on the sub-parameter coach

Table 19. Descriptive analysis among judo, taekwondo and boxing players on the parameter superstitious (total)

S. No.	Groups	N	Mean	Std. Deviation	Std. Error
1.	Judo	10	99.30	13.67	4.32
2.	Taekwondo	10	108.60	19.02	6.01
3.	Boxing	10	102.60	18.91	5.97
	Total	30	103.50	17.22	3.14

Table 20. One way analysis of variance (Anova) results among judo, taekwondo and boxing players with regard to the parameter superstitious (total)

Source of Variation	Sum of Squares	Degree of Freedom	Mean Square	F-Value	P-Value (Sig.)
Between Groups	444.60	2	222.30		
Within Groups	8160.90	27	302.25	.73	.48
Total	8605.50	29			

*Confident at 0.05

5 that insignificant differences have been found among Judo, Taekwondo and Boxing players with regard to the sub-parameter Fetish. It can be safely summarized that individual players were equally developed on the above said sub-parameter. The results might be attributed to the fact that all the individual players (Judo, Taekwondo and Boxing) on the sub-parameter has think that team mascot and wear a lucky charm help on the day of competition. Wilson [14] examined that highly identified fans reported wanting to perform more superstitious behavior than low identified fans.

It has been observed from the results (Table 6 to 8) that significant differences were found on the sub-parameter Preparation. While comparing the mean values of the entire groups, it has been noticed that taekwondo players demonstrated significantly better Preparation than their counterpart Judo and Boxing players. It can be presumed that taekwondo players have the ability to prepare for competition to face any situation as compared to their counterpart Judo and Boxing players. However, no significant differences were noticed (Table 9 to 10) on the sub-parameter; Game/competition among Judo, Taekwondo and Boxing players. It can be safely summarized that judo, taekwondo and boxing players were equally developed on the above said sub-parameter. George and Sreedhar [5] concluded that significant effect with students coming from urban area believing more in superstitious than those coming from rural area.

It is evident from (Table 11 to 13) results that significant differences were found among judo, taekwondo and boxing players with regard to the sub-parameter Team Ritual. While comparing the mean values of the entire groups, it has been noticed that Judo players

demonstrated significantly better Team Ritual than their counterpart taekwondo and boxing players. It shows that judo players are more determined to cheering during the competition which helps to perform as highest level. The insignificant differences were obtained (Table 14 to 15) judo, taekwondo and boxing players on the sub-parameter Prayer. It has been found that entire players exhibit prayer for success before each and every game.

The obtained results (Table 16 to 18) showed significant differences on the sub-parameter Coach among Judo, Taekwondo and Boxing players. While calculating the mean values of entire groups, it has been observed that Boxing players demonstrate significantly better on the sub-parameter Coach. Therefore, it can be ascertained that Boxing players are more confident that coach bring a lucky charm to our game. It is evident from (Table 19 to 20) results that insignificant differences were found among Judo, Taekwondo and Boxing players on the parameter Superstitious (Total). It has been observed that entire Individual players demonstrate were equally better on the parameter Superstitious (Total). Bal et al. [1] revealed significant intra-group differences among individual, dual and team sports on the variable superstitious behavior.

Conclusion

It is concluded that results revealed significant differences among Judo, Taekwondo and Boxing players on the sub parameters: clothing and appearance, preparation, team ritual and coach. However, no significant differences have been observed on the sub parameters fetish, game/competition, prayer and parameter superstitious (Total).

Conflict of interests

The authors declare that there is no conflict of interests.

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