Student-Athlete or Athlete-Student: Analysis of Benefits and Barriers of University Sport Participation in South Africa

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ABSTRACT

Background. Universities are perceived as the hub for sport talent identification and development. This perception puts much pressure on student-athletes who are expected to excel in sport despite their academic commitments. Based on this expectation, students who participate in sports could be regarded as athlete-student, rather than student-athlete. Objectives. The study was carried out to investigate the perceptions of South African student-athletes about the benefits and challenges of participating in varsity sports. Methods. From an estimated study population of 1892, a sample of 203 (138 male and 65 female) student-athletes participating in athletics, football, netball, and rugby from four universities in Gauteng province of South Africa completed a self-report questionnaire on the benefits and barriers of sport participation. The overall reliability (Cronbach’s alpha) coefficient of the questionnaire was 0.82, and the content validity of the instrument was established. Results. The student-athletes’ perceived benefits of varsity sports participation included enjoyment, to make their families proud, to make friendships, to complete their studies on record time, to receive performance-related incentives and awards, to be seen on television, and to be scouted by professional teams. Significant challenges faced by the student-athletes included match fixtures clashing with academic timetables, parents/guardians pressurizing them to excel academically, inadequate sporting equipment, fear of injury, and poor academic support needed to catch up with schoolwork. Conclusion. The current findings have practical implications for the promotion and management of varsity sports competitions in South African universities.

KEYWORDS: Student-Athletes, University, Varsity, Sports.

INTRODUCTION

Over the years, the sport has been a central aspect of South African life, operating at school, provincial, and national levels (1). Sport in South Africa can, however, be traced as far back as the colonial era, during which sport was regulated under a repressive system that took two forms, i.e., an advantageous establishment sector dominated by white people, and a disadvantaged, non-establishment sector mainly consisting of black South Africans (2, 3). After independence in 1994, sport became a powerful tool that could be used to move away from a discriminatory form of social order (1) to an egalitarian, just, and cohesive society. Consequently, a white paper on Sport and Recreation (4) was enacted in 1995, which promoted sports participation by all South Africans irrespective of gender, race, religion, disability, and socioeconomic backgrounds (5).

While the white paper on sport and recreation provided a broad framework for South Africa’s...
sports promotion and development (6), very few studies have been conducted on university sports in the country. For example, Nolan, Sandada, and Surujlal (7) reported that improved health, physical performance, psychological outlook, and life enhancement were perceived as the significant benefits of sport participation among university students. The authors further identified a lack of facilities and fatigue as constraining factors to sport participation. In a study among university students in Pretoria, Kubayi, Nthangeni, Toriola, and Haycock (8) reported that students’ participation in sport was affected mainly by time constraints, transport difficulties, and inadequate facilities. Although these studies have provided baseline information on the benefits and challenges associated with participation in university sports, there is limited research on competitive leagues such as varsity sports and cup competitions.

In South Africa, the varsity sports tournaments offer an exciting platform for universities to compete in sports such as athletics, beach volleyball, cricket, football, hockey, netball, rugby sevens, and others. These competitions also provide a unique opportunity for sponsors to connect with the university community through sport and entertainment. Therefore, sport remains one of the most powerful marketing platforms in South African society and has been a catalyst for change and nation-building (9).

Given that university student-athletes combine their studies with sport participation, they are susceptible to several challenges and stressful situations. Using a mixed-methods research design, Montagni et al. (10) investigated the physical activity and sport participation in a sample of 508 French students who completed a self-administered questionnaire and were interviewed. The authors identified the lack of time and students’ need for more sport activities and less workload as solutions to their barriers to sport participation. In another study, Thomas et al. (11) examined the frequency, intensity, time, type of physical activity, and the barriers to sport participation among Canadian university students. They reported that the students experienced barriers to physical activity and sport engagement, which were characterized as intrapersonal (stress and perceived self-skills), interpersonal (lack of friends, and peer influence), and structural (homework, class schedule, and overcrowded facilities) constraints.

Despite the importance of sport participation for the wellbeing of students, previous studies concerning Varsity Sports and Varsity Cup competitions in South Africa could hardly be found. Therefore, several issues could be raised regarding university students’ participation in organized sport: What are the benefits of sports participation to university students? What factors limit university students’ sports engagement? In what ways can the constraints to students’ sport participation be mitigated? The current study attempts to fill this gap in the literature by focusing on the benefits and challenges associated with university sport participation in the country. This study may provide new information on Varsity Sports and Cup competitions and give recommendations on aspects of the competitions which require future improvements. Also, the management of Varsity Sports and Cup competitions and Sport and Recreation South Africa can potentially use the study’s insights and findings for effective promotion and management of sport in the universities. The purpose of this study was to examine perceptions of South African student-athletes about the benefits and challenges associated with varsity sport participation.

MATERIALS AND METHODS
Study Design and Sample Size. This study adopted a quantitative research approach in which 203 student-athletes (138 males and 65 females) were purposively recruited to participate in the study, from an estimated population of 1892 participants. The student-athletes who were drawn from four universities (the Tshwane University of Technology, Universities of Johannesburg, Pretoria, and Witwatersrand) participated in the following sports: cricket, football, netball, and rugby. Regarding race, the majority of them were Black Africans (56.2%), followed by Whites (29.6%) and Coloureds (13.3%).

Research Instrument. A self-administered questionnaire adapted from literature (e.g., 9, 10) was used to collect data from the student-athletes. The questionnaire sought information on benefits (13 items) and challenges (10 items) of participation in Varsity tournaments. Each item was scored on a five-point Likert scale ranging from 1 (strongly disagree) to 5 (strongly agree). The Cronbach’s alpha coefficient for the entire instrument was 0.87, indicating that it was higher than the benchmark of 0.70 (12) and was thus considered reliable for data collection. The questionnaire was content-validated by a panel of three university professors in the areas of physical education, sport science, and management who reviewed the initial draft of the instrument and
confirmed its suitability to address the research questions.

**Data Collection.** Before data collection, ethics approval was obtained from the Faculty Committee for Research Ethics of the Tshwane University of Technology. The participants were approached and requested to complete an informed consent form which was accompanied by an information leaflet providing all necessary details concerning the research. The participants were informed that the information obtained was strictly confidential and that data would be coded and analyzed such that they are not traceable to specific individuals. They were also advised to withdraw from the study at any stage or decline to participate without any consequences. The targeted participants at various universities in Gauteng Province were approached to participate in the study and data subsequently collected from those who consented to provide information for the study. Thereafter, questionnaires were distributed to the student-athletes to fill before or after their training sessions.

**Data Analysis.** Descriptive statistics such as means, standard deviations, percentages, and frequency counts were used to analyze the data. Principal components analysis (PCA) was computed to reduce the number of items and group them into meaningful units (13). An independent $t$-test was undertaken to compare gender differences on the benefits of and challenges regarding participation in varsity competitions. A probability level of $p<0.05$ was used to indicate statistical significance. All data analyses were undertaken using the SPSS version 26.

**RESULTS**

The appropriateness of the data obtained for factor analysis was evaluated before PCA was undertaken. Specifically, Bartlett’s Test of Sphericity ($x^2 = 1470.99; df = 231; p < 0.001$) was significant, and the Kaiser-Meyer-Olkin (KMO) statistic of 0.80 was higher than the acceptable value of 0.60 (13). As Bartlett’s Test of Sphericity was statistically significant, the factorability of the correlation matrix was supported (12). PCA results showed a two-factor solution, which explained 35.2% of the total variance. One item from the pattern matrix was removed because it had a factor loading of less than 0.30, in which 22 items were retained. Consequently, PCA was further conducted on the remaining 22 items, which accounted for 36.62% of the overall variance of the two-component structure. The first factor, the benefits of participating in varsity tournaments, had an eigenvalue of 5.44 and consisted of 13 items that explained 24.70% of the total variance. The second factor, the challenges of participating in competitions, had an eigenvalue of 2.62 and contained nine items, which accounted for 11.92% of the pooled variance (Table 1).

| Variable                                                                 | F1  | F2  |
|--------------------------------------------------------------------------|-----|-----|
| To receive incentives and awards for performing well                      | 0.74|     |
| To stay at hotels                                                         | 0.73|     |
| To make headlines in newspapers and social media platforms                | 0.73|     |
| To appear on television                                                   | 0.72|     |
| To enjoy good meals                                                       | 0.71|     |
| To travel by air                                                         | 0.70|     |
| To be popular among fellow students, staff members and community at large| 0.65|     |
| To complete my studies on record time due to a 60% credit weight rule     | 0.60|     |
| To be scouted by professional teams                                       | 0.59|     |
| To make friends                                                          | 0.56|     |
| To make my family proud by completing my studies in record time           | 0.52|     |
| To enjoy and have fun                                                    | 0.49|     |
| To receive payment                                                       | 0.41|     |
| There is no tutor in my department to assist me in catching up with my school Work |     | 0.67|
| Some of my lecturers do not give me permission to participate in matches  |     | 0.64|
| I am worried about my safety and security during training and matches     |     | 0.63|
| My institution has no dedicated sports official to advise me on my studies|     | 0.56|
| I am afraid of being injured during training and matches                  |     | 0.54|
| Match fixtures clash with my studies (e.g., unable to attend some classes due to travelling) |     | 0.49|
| My parents/guardians pressurise me to do well in my studies               |     | 0.40|
| I struggle to get transport back home after training because I live off-campus |     | 0.38|
| My institution does not provide me with playing equipment                 |     | 0.36|

Percentage of variance: 24.70 11.92

Eigenvalues: 5.44 2.62

F1 = Factor 1. F2 = Factor 2.
Table 2 shows the means and standard deviations on students’ benefits of participating in Varsity Sports and Cup competitions. Overall, the most important benefits identified by student-athletes were, “To enjoy and have fun” (M=4.42, SD=0.83), “To make my family proud by completing my studies in record time” (M=4.35, SD=1.00), “To make friends” (M=4.32, SD=0.92), “To complete my studies on record time due to 60% credit weight rule” (M=4.05, SD=1.05), “To receive incentives and awards for performing well” (M=4.04, SD=1.29), “To appear on television” (M=4.04, SD=1.29) and “To be scouted by professional teams” (M=3.99, SD=1.15). Male athletes had significantly higher averages than female participants in the following variables: ‘To be scouted by professional teams’ (M=4.17, SD=1.08, p=0.001), ‘To stay at hotels’ (M=4.13, SD=1.14, p=0.01), ‘To travel by air’ (M=3.90, SD=1.25, p<0.001), ‘To enjoy good meals’ (M=3.83, SD=1.17, p=0.02), ‘To make headlines in newspapers and social media platforms’ (M=3.61, SD=1.16, p=0.04), and ‘To receive payment’ (M=3.16, SD=1.59, p=0.001).

Table 2. Gender-Based Benefits for Participating in Varsity Competitions

| Variable                                                       | All       | Male       | Female      | Sig.      |
|----------------------------------------------------------------|-----------|------------|-------------|-----------|
| To be scouted by professional teams                            | 3.99 (1.15) | 4.17 (1.08) | 3.60 (1.20) | 0.001*    |
| To be popular among fellow students, staff members and the community at large | 3.36 (1.23) | 3.41 (1.21) | 3.25 (1.29) | 0.37      |
| To enjoy and have fun                                         | 4.42 (0.83) | 4.36 (0.87) | 4.56 (0.73) | 0.11      |
| To appear on television                                       | 4.00 (1.20) | 4.05 (1.12) | 3.88 (1.34) | 0.34      |
| To make headlines in newspapers and social media Platforms    | 3.49 (1.24) | 3.61 (1.16) | 3.23 (1.36) | 0.04*     |
| To travel by air                                               | 3.67 (1.41) | 3.90 (1.25) | 3.18 (1.61) | 0.00*     |
| To stay at hotels                                              | 3.98 (1.26) | 4.13 (1.14) | 3.65 (1.46) | 0.01*     |
| To receive incentives and awards for performing well           | 4.04 (1.29) | 4.12 (1.05) | 3.86 (1.27) | 0.13      |
| To complete my studies on record time due to 60% credit weight rule | 4.05 (1.05) | 4.09 (0.99) | 3.95 (1.16) | 0.37      |
| To enjoy good meals                                            | 3.69 (1.18) | 3.83 (1.17) | 3.42 (1.17) | 0.02*     |
| To make friends                                                | 4.32 (0.92) | 4.36 (0.83) | 4.23 (1.09) | 0.34      |
| To make my family proud by completing my studies in record time | 4.35 (1.00) | 4.36 (0.92) | 4.32 (1.15) | 0.81      |
| To receive payment                                             | 2.74 (1.62) | 3.16 (1.59) | 1.86 (1.31) | 0.00*     |

Table 3 presents the challenges encountered by student-athletes when participating in Varsity Sports and Cup tournaments. The most critical challenges encountered by the athletes were, “Match fixtures clash with my studies (e.g., unable to attend some classes due to traveling)” (M=3.41, SD=1.36), “My parents/guardians pressurize me to do well in my studies” (M=3.27, SD=1.42), “My institution does not provide me with playing equipment” (M=2.98, SD=1.50), “I am afraid of being injured during training and matches” (M=2.60, SD=1.41), “Some of my lecturers do not give me permission to participate in matches” (M=2.25, SD=1.34) and “There is no tutor in my department to assist me in catching up with my school work” (M=2.22, SD=1.29). A significant difference was observed between male and female student-athletes regarding the following variable: ‘I struggle to get transport back home after training because ‘I live off-campus’ (t (200)=2.10, p= 0.03).

DISCUSSION

In this study, the need for enjoyment and having fun was reported as the most important benefit of participation in Varsity Sports and Cup competitions. This finding is consistent with that of Cooper, Schuett, and Phillips (14), who reported that the enjoyment motive was ranked with the highest mean score by university students in the South Eastern region of the United States of America. This is a positive finding because intrinsic motivation encourages and sustains participation in sport compared to extrinsic motivation (14). Therefore, students are motivated to participate in the sport when their interests are identified, and intramural activities that satisfy those interests are organized for them. Therefore, in situations where participants participate in a sports program out of interest or enjoyment, such programs should be modified to maximize the motive (15, 16).

Other benefits of participation in Varsity Sports and Cup competitions as perceived by the students included completing their studies in record time and making their families proud. Given that most student-athletes do not achieve the goal of becoming professionals, they need to maximize any available opportunities related to
educational and personal development (17). The student-athletes also reported that the 60-credit rule introduced by the management of the Varsity Sports and Cup competitions assisted them in completing their studies as scheduled. The Varsity Sports and Cup tournaments introduced the 60-credit rule to ensure that their sports engagement does not negatively affect their academic performance. A player who does not obtain the minimum threshold score (i.e., 60% average score) jeopardizes his/her chances of participating in Varsity Sports and Cup tournaments and would be disqualified. While this system is new in the South African context, it has been in existence in the United States since 2003 (17). The rationale for implementing this system was to evaluate the performances of student-athletes’ through a team-based system which accounts for eligibility and retention every academic year (16).

| Variable                                                                 | All   | Male | Female | Sig.  |
|--------------------------------------------------------------------------|-------|------|--------|-------|
| My parents/guardians pressurise me to do well in my studies              | 3.27  | 3.33 | 3.14   | 0.36  |
|                                                                          | (1.42)| (1.38)| (1.50) |       |
| Match fixtures clash with my studies (e.g., unable to attend some classes due to travelling) | 3.41  | 3.43 | 3.35   | 0.69  |
|                                                                          | (1.36)| (1.30)| (1.47) |       |
| My institution has no dedicated sports official to advise me on my studies| 2.21  | 2.24 | 2.14   | 0.59  |
|                                                                          | (1.24)| (1.25)| (1.24) |       |
| There is no tutor in my department to assist me in catching up with my schoolwork | 2.22  | 2.27 | 2.11   | 0.41  |
|                                                                          | (1.29)| (1.26)| (1.36) |       |
| I am afraid of being injured during training and matches                 | 2.60  | 2.49 | 2.83   | 0.11  |
|                                                                          | (1.41)| (1.35)| (1.51) |       |
| I struggle to get transport back home after training because I live off-campus | 1.83  | 1.96 | 1.56   | 0.03* |
|                                                                          | (1.25)| (1.26)| (1.19) |       |
| My institution does not provide me with playing equipment                | 2.98  | 2.87 | 3.22   | 0.13  |
|                                                                          | (1.50)| (1.49)| (1.51) |       |
| I am worried about my safety and security during training and matches    | 1.79  | 1.82 | 1.74   | 0.63  |
|                                                                          | (1.11)| (1.07)| (1.19) |       |
| Some of my lecturers do not give me permission to participate in matches | 2.25  | 2.25 | 2.25   | 0.99  |
|                                                                          | (1.34)| (1.31)| (1.41) |       |

Making friends was also identified as an essential benefit for participating in sports. A similar finding was reported by Kubayi and Amusa (18), who indicated that having a friend was identified as a helpful cue for participating in sports among students in the Hlanganani rural area of Limpopo Province, South Africa. King, Tergerson and Willson (19) have emphasized the role of friendship by reporting that a friend acts as a support system, someone to exercise with, and a source of motivation to sustain sports participation. Through sports participation, adolescents are provided opportunities to develop friendships, connect with others socially, and continue being physically active (18, 19). Therefore, in planning sports programmes, sport coaches should incorporate strategies that promote socialisation among students (17).

Another important benefit of participating in university sport, as indicated by the student-athletes, was to receive incentives and awards. Weinberg and Gould (16) reported that extrinsic rewards should be provided to athletes who should be informed that the reward is about their competence rather than a control issue. In a comparative analysis of the management of sport at two South African universities, i.e., Universities of the North and Venda, Amusa and Toriola (20), emphasized the need for the universities to develop sustainable sports policies and provide necessary incentives for effective sports promotion. However, it should be noted that external rewards should be contingent on behavior and be earned. As much as extrinsic rewards are used sparingly, they can assist in motivating students to participate in sports. For example, rewarding athletes for merely participating in sport may be meaningless, but providing rewards for winning a competition could fuel motivation (14).

It was also of interest to the present study to discuss challenges encountered by students-athletes while participating in Varsity Sports and Cup competitions. The most important barrier experienced by the students-athletes was the conflict between their training or match fixtures with their studies. For example, some indicated that they were unable to attend several classes due to travelling. Other barriers included match fixtures clashing with their studies, i.e., Varsity Sports and Cup competitions. The most important barrier experienced by the students-athletes was the conflict between their training or match fixtures with their studies. For example, some indicated that they were unable to attend several classes due to travelling. Other barriers included match fixtures clashing with their studies, i.e., Varsity Sports and Cup competitions.
to sport-related engagements. This finding could be explained in the light that student-athletes attend daily practices, travel across the country to participate in competitions, and are also required to attend lectures as an important academic requirement [20]. Consequently, the athletes may find it difficult to work on their class activities, homework, assignments, and tests as well as undertake other class activities such as work-integrated learning and internships [20]. Therefore, the time and effort spent by students to carry out academic activities may become limited and less important [17], thereby pressuring them considerably.

Studies on the benefits and barriers of university sport participation have also been conducted in other countries. A study carried out among university students in Canada [11] identified time constraints, limited sports activities, and high workload as barriers to sport participation. Another research conducted in France [10] reported that the students experienced intrapersonal, interpersonal, and structural barriers to physical activity and sport participation. In their study of female students’ perceptions of the barriers to participation in physical and sports activities at Al-Hussein Bin Talal University, Jordan, Al-Tawel & AlJa’afreh [21] reported some constraints, namely social, religious, academic, and psychological barriers. A national higher education sport participation survey in the UK indicated that only 48% of the students were satisfied with sports provision at their institutions [22]. Many of the students surveyed suggested introducing a variety of sports activities, especially for women, and more flexible times that would afford them greater opportunity to engage in sport. These studies show that barriers to students’ sport participation are similar across countries.

Within the South African context, as it is in many other countries, student-athletes have huge expectations to perform successfully in sports competitions despite having limited time to cope with the demands of academic requirements [17]. Since sports training and competition schedules sometimes prevent student-athletes from meeting their academic commitments and career aspirations, it is important that universities and/or management of Varsity Sports and Varsity Cup properly regulate the training and competition schedules to ensure that these do not disrupt students’ normal academic activities. For example, in 1991, the NCAA introduced new regulations designed to limit student-athletes’ daily structured sports practice time to four hours or less and 20 hours weekly (e.g., practice, conditioning, team meetings, competition). The discernible efforts made by the NCAA to regulate practice time have proved to be successful and have increased the graduation rate among student-athletes [17]. Therefore, similar regulations on practice times should be implemented within the South African context to cater to the needs of student-athletes.

CONCLUSION

This study showed that enjoyment, to make their families proud, to make friendships, to complete their studies on time, to receive incentives and awards for performing well, to be on television, and to be scouted by professional teams were perceived as the most important benefits for participating in varsity competitions by South African student-athletes. Major challenges faced by the athletes included match fixtures clashing with academic timetables, parents/guardians pressuring them to excel academically, inadequate sporting equipment, fear of injury, and poor academic support needed to catch up with schoolwork.

APPLICABLE REMARKS

• To alleviate the barriers of participating in varsity competitions by South African student-athletes, student-athletes should be provided necessary support such as academic advisers and extra classes to help them excel in their studies.
• Such interventions would help to increase the success rate of the student-athletes and promote their sporting careers.
• As student-athletes are first and foremost students, they should not be regarded as athlete-students.
• Rather, they should be provided all the needed support which would empower them to succeed in their chosen fields.

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