Disability in Olympic Games
Deficiência em Jogos Olímpicos

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ABSTRACT: Paralympians’ participation in the Olympic Games is marked by intense debate. To evaluate disabilities, we should avoid literal definitions and rather consider the diverse factors that may influence a person’s functions and functionality. This article analyses two cases of disabled athletes: Oscar Pistorius and Alan Fonteles. We understand that, if an athlete, despite of any disability, feels he or she is able to compete with others, this athlete should not be prohibited to do so. Moreover, without scientific evidence that an athlete has advantages over others, people with disabilities should be allowed to participate in any championship.

KEY WORDS: Athletes; Disabled Persons; Sports.

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INTRODUCTION

Disabilities in sports have been in the spotlight since the beginning of the 20th century. People who participate in disabled sports competitions are now seen as athletes and not only as disabled people. The 20th century introduced sports opportunities for people with disabilities, and federations have been created for different types of impairments and disabilities. Disability sports first appeared in the late 19th century, with the Sport Club for the Deaf, founded in Berlin, in 1888. Sometime later, the Belgium National Sports Federation for the Deaf was created in 1924. In the same year, the First International Silent Games were held in Paris. Ludwig Guttmann played an important role in the history of disability sports. He was a Jewish neurosurgeon who arrived in Britain as a refugee from Germany. There, he initiated a rehabilitation program at the Stoke Mandeville Hospital to aid disabled people and improve their quality of life. In 1949, a large competition took place in Stoke Mandeville, and rapidly, these games gained international dimensions. Soon after, they were nicknamed the Paralympics.

Athletes with disabilities have been present in Olympic Games since 1904. Since then, 28 disabled athletes have competed in the Olympics. Oscar Pistorius was present in the London 2012 Games in both the Olympic and Paralympic competitions and is probably the most famous athlete to have done so. His participation in the Olympics lead to intense debate and attracted the media’s attention. This athlete has a bilateral below-knee amputation and shows great performance in 100, 200 and 400m sprint runs. Pistorius’ case provides elements that lead to an ethical discussion about the presence of Paralympic athletes within Olympic Games. The objective of this article is to discuss the participation of disabled people in the Olympic and Paralympic Games. Two cases of bilateral below-knee amputees will be presented to illustrate this issue.

What is disability?

To evaluate disabilities, we should avoid literal definitions and rather consider the individual’s environment, life history, background, perceptions, activities, and other factors that may influence a person’s functions and functionality. Dysfunction and health differences are referenced on what is understood as the normal functioning. They may be due to accidents, genetics, and mutations. Disabilities are thus dysfunctional deviations from what is considered as normality. It is also an umbrella term that covers impairments, activity limitations and participation restrictions.

According to Edwards (2008), the International Association of Athletics Federation (IAAF) and the International Olympic Committee (IOC) adopt the World Health Organization (WHO) definition of disability and activity limitation. The author, however, stands with Nordenfelt’s (1993) definition of disability, according to which: “if one can do everything that is important to one, then one is not disabled”. In the WHO classification of function, disability and health states, disability is the outcome of complex interrelations between a person’s health conditions, personal factors and external factors. Both views on disability are valuable for the present discussion.

Oscar Pistorius

Oscar Pistorius is a bilateral below-knee amputee athlete from South Africa. He won the 200m sprint gold medal in Athens, 2004, breaking a world record at the time; gold medals in the 100m, 200m, and 400m runs in 2008 in Beijing; and competed in both Olympic and Paralympic Games in London, 2012, winning a silver medal for the 200m run and being classified for the 400m semi-finals in the Olympics. Before finally participating in the Olympics, Oscar Pistorius had been prohibited from competing against able-bodied athletes by the International Association of Athletics Federation, on the grounds that his J-shaped blades gave him advantage over other competitors. This decision was overturned by the Court of Arbitration for Sports.

Regarding this issue, the IAAF Rule 144.3 forbids the usage of any technical device that gives the user advantage over other athletes. In addition, Rule 125.8 states that:

Where an athlete with a physical disability is competency in a competition under these Rules, the appropriate Referee may interpret, or allow a variation from, any relevant Rule (other than Rule 144.3) to enable the participation of the athlete provided that such variation does not provide the athlete with any advantage over another athlete competing in the same event.

Edwards (2008) did an incredible work answering various arguments against the participation of Oscar Pistorius in Olympic Games. These arguments ranged from statements that Oscar Pistorius had unfair advantage due to his disability to suggestions his participation might lead others to amputate their own legs as well. Regarding these arguments, Jones and Wilson (2009) affirm that there is a difficulty in defining advantages in sports as fair or unfair. Moreover, despite the IAAF’s conclusion that Pistorius could have a mechanical advantage of more than 30% using the prostheses, the study fails to analyse performance during all the phases of a sprint, as well as other disadvantages that he might have.

To van Hilvoorde and Landeweerd (2008), from...
a socio-cultural perspective, Paralympic and Olympic athletes are not that different, and genetics may result in talent or disability. The argument that Oscar Pistorius has an unfair advantage is incorrect and the blades probably bring more disadvantages than advantages⁶. Athletic performance is a complex concept and cannot be easily defined or measured. People should see sports as a manner for athletes of all levels to achieve their best performance within their individual variations and not judge if those variations are superior or inferior⁷,⁸.

Finally, the literature is controversial regarding the positive or negative effects of Pistorius' blades in his sprint performance. Potthast and Brueggermann⁹ (2010) state that the biomechanics of bilateral below-knee amputees and able-bodied people sprinting demonstrates differences. The authors affirm that Oscar Pistorius runs with smaller vertical displacement in the phase of maximal speed than able-bodied sprinters and that he has a lower deceleration during the first part of the stance phase, which leads to less propulsion impulse in the second stance phase. Meanwhile, Weyand et al.¹⁰ (2009) demonstrated that running with lower-limb prostheses could be at the same time similar physiologically and different mechanically to non-prosthetic runners. Furthermore, another study comparing sprinters who had only one prosthetic lower limb found that in the amputated leg the stance average vertical ground reaction force is around nine percent less than in the non-amputated leg. The authors also reported that the leg swing time was similar between amputated and non-amputated legs at any given speed and that both leg swing times were equivalent to what had been previously described for non-amputee sprinters¹¹. Additionally, Zettler¹² (2009), analysing Pistorius’ case, argues that the Court of Arbitration of Sports correctly permitted the athlete to participate in games with able-bodied competitors.

What about Alan Fonteles?

Alan Fonteles is a Brazilian sprinter and, like Oscar Pistorius, a bilateral below-knee amputee. He was amputated when he was 21 years old and started in sports at eight, without using sports prostheses⁵. Today, Fonteles is seen as the best amputee sprinter in the world, holding the world record in the 100m T43 class, with a time of 10.57s¹³. Fonteles defeated Pistorius during the 2012 London Games, running in the T44 class; he completed the race in 21.45s, also winning the world record²⁰. At the time, the Brazilian media gave almost no attention to the fact that he thought of competing in the Olympics¹⁵. This shows the lack of media exposure to Paralympian athletes and Paralympic Games.

Despite Pistorius and Fonteles both being bilateral below-knee amputee sprinters, they became involved in an altercation. Pistorius made a formal complaint to the International Paralympic Committee about Fonteles’ prostheses, claiming the prostheses gave Fonteles advantage²¹. One may think this was a hypocritical of him, since Pistorius had faced similar allegations before. However, athletes who compete in Olympic and Paralympic Games do not want to lose. In 1982, Goldman et al.²² (1984) proposed a dilemma for athletes, asking if they would take a pill that would guarantee them the gold medal but make them die five years afterwards. Mirkin²³ (1984) points out that, in a survey asking runners this question, the results demonstrated that approximately 50% of the athletes would take the pill. Indeed, Gonzalez et al.²⁴ (2018) conducted a study that demonstrated athletes are prompt to accept fatal risks to win a gold medal. Thus, if one is likely to put oneself at risk, Pistorius’ hypocritical attitude towards his colleague as mean of obtaining victory is more understandable.

FINAL CONSIDERATIONS

In this opinion article, we discussed some issues regarding the participation of Paralympic Athletes in the Olympic Games. The ethical discussion that arises from the possible advantages and disadvantages related to individual variation cannot be restricted to definitions only. If an athlete feels he or she is able to compete with others despite of any disability, this athlete should not be prohibited to do so. Thus, without clear scientific evidence proving that one athlete has advantage over others, people with disabilities should be able to participate in any championship. Thereby, for the sake of sports, let them run.

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RESUMO: A participação de portadores de deficiência em Jogos Olímpicos é marcada por intenso debate. Para avaliar deficiências devemos evitar definições literais e considerar os diversos fatores que podem influenciar nas funções e funcionalidades de uma pessoa. Este artigo analisa dois casos de atletas portadores de deficiências: Oscar Pistorius e Alan Fonteles. Nós entendemos que, se um atleta, apesar de portar alguma deficiência, sente-se apto para competir com outros atletas, ele não deve ser impedido de fazê-lo. Além disso, sem evidências científicas claras que um atleta tenha vantagem sobre os outros, pessoas com deficiência devem poder participar de qualquer competição.

DESCRITORES: Atletas; Pessoas com deficiência; Esportes.
REFERENCES


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