Background Understanding the incidence and characteristics of injuries in each sport helps to implement more effective preventive measures. Studying this information after the occurrence of the COVID-19 pandemic was particularly important. Accordingly, the medical commission of the United World Wrestling (UWW) has implemented a systematic surveillance of injuries during the Tokyo 2020 Olympic Games.

Objective To assess the injury profile of elite senior wrestlers during the Tokyo 2020 Olympic Games.

Accordingly, the medical commission of the United World Wrestling (UWW) has implemented a systematic surveillance of injuries during the Tokyo 2020 Olympic Games.

Main Outcome Measurements

1. Injury type
2. Severity
3. Location
4. Mechanism

Results

Of the 105 total injuries [6.15 injuries/1000 AEs (95% CI: 5.01 to 7.47)], concussion was the most common (n=28; 26.2%), followed by knee (n=16; 15.0%) and ankle injuries (n=15; 14.0%). Most concussions occurred due to ball-to-head contact (61.5%) and were unanticipated (84.6%). There was no difference in injury risk by sex (IRR/M: 1.40; 95% CI: 0.73 to 2.66). Players in U18 had significantly lower rates of injury, compared to U16 and U14 (IRRU16: 2.44; 95% CI: 0.73 to 2.66). Players in U18 had significantly lower rates of injury, compared to U16 and U14 (IRRU16: 2.44; 95% CI: 0.73 to 2.66).

Conclusion Players in U18 had the lowest injury rates. More research is needed to elucidate why younger age groups reported more injuries and develop volleyball specific injury and concussion prevention strategies.

Background Sport-related injuries present a substantial burden in youth sport. Injury surveillance data in youth volleyball is scarce. Understanding injury and concussion burden can inform prevention strategies.

Objective To evaluate injury incidence rates, types, mechanism, and potential risk factors in youth volleyball.

Design Prospective cohort study.

Setting 2018 Canadian Youth National Volleyball Tournament.

Participants All tournament players were invited to participate (9616 players). 1876 players [466 males, 1391 females, mean age 16.2 years (1.26)] consented to participate (19.5%).

Main Outcome Measurements

1. Demographics
2. Injury incidence
3. Injury type

Results

A total of 286 athletes sustained 28 injuries during 322 matches; 9.8 injuries per 100 athletes (12.1% in men; 5.2% in women) and 8.7 injuries per 100 bouts. Among the 3 styles, WW had the lowest injury rate (5.2%) and FS had the highest rate (12.8%). More injuries were observed in the low-weight categories (64.3%). The most common injury type was skin laceration and contusion (60.6%) due to direct contact and the most common site of injury was head and face (71.4%). In sum, 78.6% of all injuries were categorized as mild, 10.7% as moderate and 10.7% as severe.

Conclusions No serious or catastrophic injury was recorded during wrestling competitions of the Tokyo Olympic Games, and most injuries were minor. The overall rate of wrestling injuries during the Tokyo 2020 Olympic Games was higher than the 2016 Rio Games but lower than the 2012 London Olympic Games. The severity of injuries, however, was the lowest since the 2004 Athens Olympic Games. COVID-19 pandemic did not result in a higher rate of severe injuries, nor more overuse injuries.