OVERALL, REGION- AND TISSUE-SPECIFIC INJURY RATES UNDERSTANDING HEALTH PROBLEMS OF BASKETBALL REFEREES

What influences my perception, report- and decision making of an injury? comprised personal and contextual factors that influenced the perception and, consequently, the management of an injury.

Conclusions The injury surveillance system implemented within the Maltese national football team should make use of performance limitations as the main injury definition. Injury perception, reporting and management are influenced by the socio-ecological context. In acknowledging this influence, ongoing human interaction should be involved between stakeholders in all the processes of the injury surveillance system, emphasising its active role to optimise the players’ injury risk mitigation and management.

OVERALL, REGION- AND TISSUE-SPECIFIC INJURY RATES IN UK SUMMER OLYMPIC MALE AND FEMALE ATHLETES

Background Existing studies have reported that female athletes are at increased risk of particular injury types e.g. ACL rupture and bone stress injury, and have reduced risk of others e.g. hamstring injury. Other sport-specific studies have reported that female athletes generally have higher risk of injury in some sports, lower risk in others. No previous study has compared male and female injury rates across a range of summer Olympic sports.

Objective To determine whether male and female athletes experience injuries at different rates within the UK High Performance System.

Design Retrospective cohort study.

Setting UK summer Olympic sports.

Participants 914 athletes (439 female, 475 male).

Interventions There was no intervention.

Main Outcome Measurements Incidence ratio (IRR) comparing overall injury rates (as incidence per athlete year) and risk ratio (RR) comparing overall injury burden (training days restricted or unavailable per athlete year) for male and female athletes. The IRR and RR were also compared for injuries in different regions as well as different tissue types.

Results Female athletes had both a greater overall injury rate (females 2.6 injuries per athlete year, males 2.1; IRR 1.23, 95% CI 1.17 to 1.2330, p<0.001) and overall injury burden (females 42.58 days training affected per athlete year, males 35.0; RR 1.21, 95% CI 1.20121 to 1.23124, p<0.001) than male athletes. Female athletes have a higher risk of ligament/joint and bone injuries (among others) and a higher risk of superficial/skin, ligament/joint and bone injuries.

Conclusions Female athletes are at greater risk of suffering an initial injury with more subsequent training time-loss than male athletes. The higher risk of ligament/joint and bone injuries supports previous analyses of gender-specific injury rates. Further work is required to determine causal mechanisms so that tailored mitigation strategies can be developed for female and male athletes.

INJURY PREVALENCE IN DUTCH HANDBALL OVER THE SEASON 2018–2019

Background Basketball referees are responsible for rule length and decision making. They have high physical and psychological demand during the match.

Objective To understand the health problems of basketball officials, such as disorders or musculoskeletal injuries and their complaints.

Design Prospective cohort study.

Setting Referees of Basketball Federation of São Paulo.

Patients (or Participants) Initially, 78 referees were assessed, over 18 years old, both sexes and with more than 1 year of practice. Participants who refused to participate were not included, and participants who refused to stay in the study during follow-up were excluded. The participants number varied over the follow-up weeks, with at least 42 participants.

Interventions (or Assessment of Risk Factors) An initial assessment of the basketball referees was made at the annual physical assessment day of Basketball Federation of São Paulo and then they were followed online weekly for 12 weeks.

Main Outcome Measurements The initial assessment was made using an assessment form with personal data, practice and injury historic and knowledge about injury prevention. The weekly follow-up was done using the questionnaire Oslo Sports Trauma Research Center (OSTRC) questionnaire to assess health problems.

Results Mean age was 36.5 (±9.8) years, 66 (84.6%) were male. The most reported injuries by the referees in the 3 months prior the initial assessment were knee injuries (26.9%), mainly at the time of fitness training (65.4%). During the follow-up, musculoskeletal injuries had weekly mean prevalence of 17.4% (16.5 - 18.3) versus 3.2% (0.4 - 6.0) for illness. Regarding injuries, the ankle was the most affected region for acute injuries and the knee for overuse injuries.

Conclusions Basketball referees were mainly affected by lower limb injuries. Considering the injury profile and the prevalence of associated musculoskeletal complaints found in this study, it appears that injury prevention programmes should be developed and integrated into the fitness training routine of the referee.