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Infographics:

Infographics: Useful steps in the prevention of illnesses during international athletics championships

Pascal Edouard^{1,2,3,4,5}, Danny Glover^{6,7}, Andrew Murray⁷, Toomas Timpka⁸, Marine Sorg², Frédéric Depiesse^{3,4,9,10}, Pedro Branco^{4,10}, Astrid Junge^{11,12}

From:

¹ Inter-university Laboratory of Human Movement Science (LIBM EA 7424), University of Lyon, University Jean Monnet, F-42023. Saint Etienne, France

² Department of Clinical and Exercise Physiology, Sports Medicine Unit, University Hospital of Saint-Etienne, Faculty of Medicine, Saint-Etienne, France

³ Medical Commission, French Athletics Federation (FFA), Paris, France

⁴ European Athletics Medical & Anti Doping Commission, European Athletics Association (EAA), Lausanne, Switzerland

⁵ Swiss Olympic Medical center, Centre de médecine du sport, Division de médecine physique et réadaptation, Centre Hospitalier Universitaire Vaudois, Lausanne, Switzerland ⁶ Health Education Yorkshire and the Humber, Leeds, UK

⁷ Knowledge Translation Team, Sport and Exercise, University of Edinburgh, Edinburgh, Scotland.

⁸ Athletics Research Center, Linköping University, Linköping, Sweden

⁹ Department of Physical Medicine and Rehabilitation, University Hospital of Martinique, Le Lamentin, Martinique, France

¹⁰ Health and Science Commission, International Association of Athletics Federations

(IAAF), Monaco

¹¹ Medical School Hamburg (MSH), Hamburg, Germany

¹² Swiss Concussion Center and Schulthess Clinic Zürich, Switzerland

Correspondence to

Pascal Edouard, MD PhD, Department of Clinical and Exercise Physiology, Sports Medicine Unit, IRMIS, Campus Santé Innovations, University Hospital of Saint-Etienne, 42 055 Saint-Etienne cedex 2, France. Tel.: +33 674 574 691; Fax numbers: +33 477 127 229; E-mail: Pascal.Edouard42@gmail.com.

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Additional data: No supplementary file

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MORE DATA ON ILLNESSES DURING ATHLETICS CHAMPIONSHIPS ARE NEEDED

Illnesses can impair sports participation and performance in athletics training or competition (including major championships).^[1] Travel, jet lag, changes in climatic / environmental conditions, and changes in food habits, in addition to the competition per se, could predispose athletes to illness in major championships context.^[2–4]

During international athletics championships, an incidence of illnesses between 20 and 68 per 1000 registered athletes have been reported.^[2,3,5,6] However, extended and deeper epidemiological analyses are needed to develop effective illness prevention strategies. Therefore, this study aimed to describe the occurrence and characteristics of illnesses at international athletics championships with regards sex (male and female athletes), disciplines (explosive and endurance) and championships type (indoor and outdoor).

MAIN FINDINGS

In major athletics championships between 2009 and 2017, the illness incidences did not differ between sex, and moderately differed with championships type (higher during outdoor than indoor championships) and discipline (higher in endurance than explosive disciplines) (Figure/Infographic 1).

Infection was the most common cause of illness, with upper respiratory tract and gastrointestinal infections being most frequent; illness characteristics differed between endurance and explosive disciplines (Figure/Infographic 1).

PROPOSED MEASURES TOWARDS ILLNESS PREVENTION

Based on these findings, we suggest that illness prevention strategies during athletics championships should focus on infectious disease control, and take into account championship type (indoor or outdoor) and discipline category (endurance or explosive). Prevention measures for explosive disciplines should focus on upper respiratory tract infections and pre-existing pathologies, and for endurance disciplines on exercise-induced dehydration/fatigue/hypotension/collapse by taking into account among others environmental factors such as weather conditions.

We have built on previously published recommendations in our efforts in preventing illnesses during championships suggesting (Figure/Infographic 2):^[1,2,7,8]

-educating athletes and their entourage on illness prevention measures,

-maintaining hydration and paying attention to water quality,

-eating only 'safe' food,

-regular hand washing/ use of alcohol gel,

-paying attention to the sleep quality and quantity,

-decreasing contact with people outside the team,

-being aware of changes in temperature and climatic conditions (including differences between outside and inside),

-screening tests for airway problems.

Prevention of illnesses is a win-win performance-health protection strategy for which all stakeholders around the athletes should participate and play a role!

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Figure 1Infographic: Illnesses during international athletics championships between2009 and 2017.

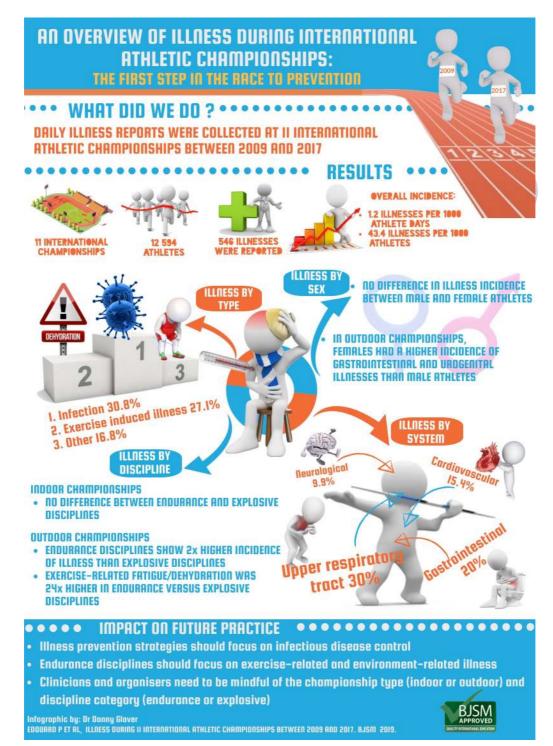


Figure 2 Infographic: Proposals of measures to prevent illness during international athletics championships.

