



SYSTEMATIC REVIEW

The Effects of Ramadan Intermittent Fasting on Football Players and Implications for Domestic Football Leagues Over the Next Decade: A Systematic Review

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Abstract

Background The month of Ramadan will intersect with many football leagues' schedules over the next decade. Understanding the effects of Ramadan intermittent fasting (RIF) on physical performance is necessary to guide considerations for football players.

Objective The aim of this systematic review was to investigate the effects of RIF on physical factors in football players, and secondarily to consider the impact this may have on domestic club football leagues.

Design We conducted a systematic review using PRISMA guidelines.

Data Sources The online literature search utilized CINAHL, (EBSCO), Cochrane Library, Embase.com, PubMed, and Scopus databases, and grey literature (all from database inception to May 2020).

Study Selection Criteria Inclusion criteria consisted of studies of football (soccer) players, data collected during and/or around Ramadan, with injury and/or performance data provided.

Results The search yielded 11,226 studies. Twenty-two studies were included following a review of titles, abstracts, and full texts. Studies included some iteration of before-Ramadan, during-Ramadan, and after-Ramadan data. Common measures observed included ratings of perceived exertion ($n = 8$), sprinting ($n = 7$), sleep ($n = 7$), peak heart rate ($n = 6$), jumping ($n = 5$), Yo-Yo intermittent recovery tests ($n = 4$), Wingate anaerobic test ($n = 3$), field-specific tests ($n = 3$), and injury rates ($n = 2$). Decreased physical performance was commonly observed during late afternoon/evening testing (before breaking the fast) and with high-intensity exercise.

Conclusion There appears to be a performance deficit related to RIF in Muslim football players. Studies should explore the effects of RIF on actual match demands. Due to the month of Ramadan emerging into league calendars, considerations should be made to accommodate Muslim football players who are intermittently fasting.

1 Introduction

International sporting bodies manage global events with rules that are supposedly equitable for every participating athlete. As the International Fair Play Committee states, "fair play calls for the greatest understanding of the social environment of competitors and of different cultures" [1]. The Fédération Internationale de Football Association (FIFA) promotes fair play, diversity, and anti-discrimination in the spirit of competition and cultural inclusion [2, 3]. It is possible, though, that some cultural practices have an impact on the fairness of competition. Perhaps this is the case when

considering some religious practices that alter the daily life of elite football players.

International sporting organizations often fail to account for Muslim footballers observing Ramadan intermittent fasting (RIF). Both the 2012 London Olympics and the 2014 FIFA World Cup overlapped with the month of Ramadan, when Muslims around the world are observing RIF. During Ramadan, healthy Muslim adults practise the fifth pillar of Islam which includes intermittent fasting for 29–30 consecutive days. Muslims abstain from eating and drinking from dawn to sunset, replenishing themselves only during nighttime hours. These abrupt changes in eating and sleeping patterns may be a challenge for elite football players.

Football (soccer) is played all over the world and has recently been reported as the most scientifically studied sport [4]. Playing football exerts a considerable cardiovascular

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