Avoiding a red card: recommendations for a consistent standard of concussion management in professional football (soccer)

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Compared with some collision/contact sports, concussions are relatively uncommon in professional football (soccer).1,2 Nevertheless, professional football has been under repeated scrutiny because of questionable recognition and management (on-field and off-field) of concussions during several high-profile international and national competitions. Given the Concussion in Sport Consensus process has been ongoing for two decades, it is important that professional football adopt consistent policies that represent the highest standard of concussion care.3 Given the Concussion in Sport Consensus statements as highly predictive of a concussion diagnosis (when seen in combination with a direct or indirect head blow).4,5 We advocate the use of qualified healthcare providers as independent spotters. As long as competitions are broadcast, costs should not be a major barrier for professional football. Professional leagues with less resources may have more challenges with acquiring sideline access to video footage.

NECESSARY MEASURES

Mandatory education
Educating players, staff and officials regarding concussion should play a significant role in improving concussion recognition and management. This is already implemented in a few football leagues such as Major League Soccer (MLS), and trialled successfully by FIFPRO (Football Players Worldwide) for the FIFA Women’s World Cup 2019 in France.3 Advocated by medical professionals, annual education should be facilitated in all football leagues by stakeholders and be mandatory.4,5 Such annual and mandatory education could reduce players misrepresented concussion symptoms and convince (if needed) staff and officials that players’ welfare should always be prioritised.

Application of ‘If in doubt, sit them out’
Any professional footballer with a suspected concussion should immediately be assessed off-field, and if suspicion persists, removed from the field of play straight away.1 The decision to remove a player should be quick with the more structured evaluation being off-field. In order to protect the players’ health, ‘If in doubt, sit them out’ should be systematically applied as it is in other sports (eg, rugby union). This concept is supported by a recent Team Physician Consensus Statement.3

Access to video footage and independent spotter
As concussion recognition is often impaired from the side line, providing medical teams with access to match video footage (including replay and slow motion) should improve the recognition of concussion. A trained independent spotter, in contact with both medical teams and having access to the match footage, could be of additional assistance. Endorsed by football physicians, this approach has been utilised recently by FIFA for their Club World Cup 2019 Qatar, the UEFA for their European Championship 2020 and by MLS, and will be implemented by FIFA for their World Cup 2022 Qatar.4 The medical team and spotter should be educated to detect the video signs described in two recent consensus statements as highly predictive of a concussion diagnosis (when seen in combination with a direct or indirect head blow).4,5 We advocate the use of qualified healthcare providers as independent spotters. As long as competitions are broadcast, costs should not be a major barrier for professional football. Professional leagues with less resources may have more challenges with acquiring sideline access to video footage.

Time window for concussion assessment and related alteration of the laws of the game
Defined by the International Football Association Board (IFAB), the current laws of the game provide the medical team with a 3 min window for the on-field evaluation of a potentially concussed player. This is inadequate because (1) more time is needed for a thorough concussion assessment (international consensus recommends at least 10 min) and (2) the environment is conducive to interference by other players, staff and officials.3 Moreover, a longer, off-field evaluation in a distraction-free environment will allow for inclusion of the video review to inform a comprehensive decision-making process. An alteration of the laws of the game is needed that allows for more time to evaluate players while the game continues. Widely introduced in many high-speed collision sports as well as in cerebral palsy football, and advocated by football physicians, temporary concussion substitution should be trialled and evaluated in professional football.4,6 Such a temporary concussion substitution would facilitate less disruption of the game, maintain competitive equity during match play, and allow a more thorough evaluation than the current off-field process.
Time window for return to football competition

According to the latest consensus statement on concussion and its graduated return-to-sport protocol, a concussed professional footballer who has undergone serial clinical evaluations and remained asymptomatic, should return to football competition on the sixth recovery day at the soonest. Consequently, a player concussed in a weekend match should not return to football competition in the subsequent midweek match.

Documented clearance by team physician

The team physician should supervise and document the progression of a concussed player through the graduated return-to-sport protocol, especially the medical clearance to return to football competition. The professional football stakeholder (eg, team physician) might be of assistance and should be accessible.

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The aforementioned measures should not be considered in isolation but in combination as a holistic approach to complete concussion care. The professional football stakeholders (eg, leagues, players unions) remain responsible for the implementation of these measures. Additional standards introduced in other sports (eg, baseline assessments, neurocognitive evaluations, the assistance of an independent physician, a compliance and sanction committee) should also be considered and evaluated for effectiveness in reducing concussions and their consequences within professional football. For a high profile, well-resourced sport, with an opportunity and responsibility to educate globally, a consistent approach to concussion recognition and management is needed throughout professional football to avoid a red card.

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The team physician should supervise and document the progression of a concussed player through the graduated return-to-sport protocol, especially the medical clearance to progress to unrestricted full contact practice. As in other sports, a multidisciplinary approach by a clinical support team (eg, neuropsychologist, neurologist, vestibular therapist) might be of assistance and should be accessible.

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