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To cite this version:
Devin Bonk, Chloé Leprince, Katherine Tamminen, Julie Doron. Collective rituals in team sports: Implications for team resilience and communal coping. Movement & Sport Sciences - Science & Motricité, EDP sciences, 2019, pp.27-36. 10.1051/sm/2019007. hal-02521006

HAL Id: hal-02521006
https://hal-insep.archives-ouvertes.fr/hal-02521006
Submitted on 27 Mar 2020

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Collective rituals in team sports: Implications for team resilience and communal coping

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Received 3 July 2018, Accepted 14 March 2019

Abstract - Many sports teams engage in collective rituals (e.g., the New Zealand All Blacks’ haka). While the concept has been studied extensively in other fields (e.g., social psychology and cultural anthropology), literature on collective rituals specific to sport is limited. Leveraging theoretical positions and empirical findings from across the human and social sciences, the application of an existing definition of collective ritual in team sports is explored. Complementary research is suggestive of a potential link between collective rituals and two growing topics of interest in group dynamics, namely, team resilience and communal coping. Collective rituals can bolster team resilience by strengthening the group structure and increasing a team’s social capital. They can also serve as communal coping strategies, helping to manage team stressors as they arise. However, at the extremes, collective rituals can become problematic. Over-reliance and abusive rites of passage (i.e., hazing) are considered. Potential applied implications and future research directions in sport psychology are then discussed.

Key words: team adaptation, team resilience, communal coping, group dynamics

Collective rituals are highly prevalent in team sports. Perhaps the most notable example of this type of group behaviour is the pregame ritual of the New Zealand All Blacks. Before all international matches, they engage in a traditional Māori Ka Mate haka war cry and dance, made up of intense synchronous shouts and movements. There may be more to the haka than opponent intimidation. It is an action sequence that, to the athletes performing it, is embedded with historical and cultural meaning (Jackson & Hokowhitu, 2002). Though other teams might have less
structured and historically significant rituals (like a basic pre-game team cheer), their underlying mechanisms operate in a similar manner. Indeed, psychology researchers are beginning to identify the psychosocial benefits of collective rituals (Watson-Jones & Legare, 2016; Whitehouse & Lanman, 2014). Though only few studies have considered some group benefits of collective rituals in sport specifically (e.g., Murray, Joyner, Burke, Wilson, & Zwald, 2005), the topic has been investigated extensively in other fields, such as social and cognitive psychology (e.g., Hobson, Gino, Norton, & Inzlicht, 2017; Rossano, 2012), and evolutionary anthropology (e.g., Atkinson & Whitehouse, 2011; Fischer, Callander, Reddish, & Bulbia, 2013; Whitehouse & Lanman, 2014). By leveraging findings from across the human and social sciences, the present article aims to demonstrate the relevance and applicability of the study of collective rituals in the field of sport psychology. Specifically, the purpose is two-fold: to consider the application of an existing conceptual definition of collective ritual to behaviours in team sports; and to demonstrate the utility of this common conceptual basis by exploring how previous research on the topic applies to two growing areas in the group dynamics literature; namely, team resilience and communal coping.

1 Defining collective ritual

Many social science fields have long been interested in the study of rituals at the individual and collective levels (Bell, 1992; Boyer & Liénard, 2006; Durkheim, 1915; Freud, 1963; Humphrey & Laidlaw, 1994; Van Gennep, 1960). As such, conceptual definitions of ritual in general have varied greatly over the history of its study (Goody, 1961). To address this issue, a recent integrative review proposed a definition that seems appropriately applicable to research in the field of sport psychology. Hobson, Schroeder, Risen, Xygalatas & Inzlicht (2017) posit that rituals (both individual and collective) are made up of three specific criteria. For a behaviour to be considered a ritual, it must (a) involve predefined sequences of physical actions, usually ordered, sequenced, and repetitive; (b) hold some symbolism or psychological meaning to those performing it; and (c) contain elements lacking direct instrumental purpose. Using these criteria, one can categorize rituals as distinct from other similar patterns of thoughts and actions. For example, by this definition an athlete’s possession of a good luck charm would not constitute a ritual as it lacks a predefined sequence of physical action. As such, it would be better categorized by the term superstition. Further, while the All Blacks’ haka would constitute a ritual, a warm-up stretching regimen would not. This is because warming up serves the instrumental purpose of preparing muscles for action to prevent injury (Witvrouw, Mahieu, Danneels, & McNair, 2004), and would therefore be better characterized by the term routine. Though these terms may seem conceptually similar, they are distinguishable in important ways. Clarifying these distinguishing features is critical for having a common conceptual basis in order to better understand the specific and nuanced purposes collective rituals serve in team sports, and how those may differ from other related thoughts and behaviours.

Rituals are considered collective when they are performed at the group level. Drawing on cultural anthropological research, Whitehouse & Lanman (2014) suggest that two main types of collective rituals have historically arisen in social groups, each with their own distinct social functions: doctrinal and imagistic practices. Doctrinal practices are less aversive, frequently repeated, and emphasize “credibility-enhancing displays for beliefs, ideologies and values” (Whitehouse & Lanman, 2014, p. 6) to promote group identification and social cohesion. This type of collective action aligns with what in sport might be called a pregame ritual (e.g., a pregame cheer). Imagistic practices are less frequent (occurring sometimes as rarely as once a lifetime), involve behaviours characterized by high levels of dysphoric arousal, and have been more typical of small groups facing high risks where the likelihood of defection is increased (Atkinson & Whitehouse, 2011; Turchin, Whitehouse, Francois, Slingerland, & Collard, 2012; Whitehouse, 2004). Examples of imagistic practices are often enacted by street gangs when initiating new members. For instance, gang members have described the process of being “jumped in” whereby the newcomer must take repeated physical beatings to demonstrate their commitment to the group (Descormiers & Corrado, 2016). Though typically less extreme in sports contexts, it would seem team initiation rituals (e.g., hazing) would be a type of behaviour that falls under this category.

Even though by definition their constituent actions lack explicit instrumental purpose (Hobson, Schroeder, et al., 2017), collective rituals have been found to serve important psychosocial functions. In a review of the evolutionary-sciences literature, Watson-Jones & Legare (2016) posit that collective rituals have historically arisen as a means of managing the adaptive problems associated with group behaviour by helping to identify group members, ensuring group commitment, facilitating cooperation, and maintaining cohesion. Frequently repeated collective rituals (i.e., doctrinal practices) are associated with a group’s norms and become a routinized and stable part of group members’ semantic memories (Whitehouse & Lanman, 2014). Costlier ritual displays (such as the dysphoric actions characteristic of imagistic practices) are enacted as a means of confirming one’s commitment to the group in a way that verbal affirmations cannot (Henrich, 2009). Actions speak louder than words: while one might try to verbally deceive their fellow group members in terms of their commitment, “willingly enduring a painful initiation rite put credibility to one’s words” (Rossano, 2012, 529). Though it is possible that the collective rituals occurring in team sports operate via similar functional mechanisms, few studies have taken to investigating this area of research.

In considering the research from other fields, there is reason to believe collective rituals can serve adaptive psychosocial functions in team sports. They have been
posed to enhance affiliation between participating members and help share important cultural knowledge about the group (e.g., group norms; Hobson, Schroeder, et al., 2017). Recent developments in sport psychology research have uncovered the importance of understanding how groups and teams draw on their collective psychosocial resources to overcome adversity (Decroos, et al., 2017; Morgan, Fletcher, & Sarkar, 2013, 2015, 2017). Two growing topics of interest in this area where collective rituals may play a potential role are team resilience and communal coping. Though there is a lack of research on collective rituals in sport specifically, the following sections will draw on existing evidence from other related fields (e.g., cultural anthropology, social psychology) to shed light on why these behaviours might be so prevalent in team sports. First, the potential role of collective rituals in fostering team resilience will be examined. Then, the use of collective rituals as communal coping strategies to deal with group stressors will be considered.

2 Collective rituals and team resilience

As all athletes encounter roadblocks in some form over the course of their careers, being able to overcome negative obstacles is an important component of success. Generally, the term resilience refers to an individual or group’s ability to deal with hindrances and/or recover from setbacks (Fletcher & Sarkar, 2012). Though much of the research on resilience in sport has investigated it at the level of the individual (Fletcher & Sarkar, 2012; Galli & Vealey, 2008; Gucciardi, Jackson, Coulter, & Mallett, 2011; Sarkar & Fletcher, 2014), there has been growing interest in how it manifests at the team level, examining how collective psychosocial processes can bolster against the potential negative effects of adverse situations (Decroos, et al., 2017; Morgan, et al., 2013, 2015, 2017). A qualitative investigation in elite sport identified four main characteristics of team resilience: group structure, mastery approaches, social capital and collective efficacy (Morgan, et al., 2013). Using these identified themes as a framework, the role of collective rituals in team resilience in sport will be examined, specifically within the themes of group structure and social capital. We suggest that by priming individual athletes with their team’s identity, collective rituals help to solidify a group’s structure. Furthermore, by strengthening the bonds between teammates, they can contribute to a team’s social capital.

2.1 Group structure

According to Morgan et al. (2013), group structure “refers to the conventions that shape group norms and roles and involve both psychosocial and physical aspects” (p. 552). Under group structure, the higher-order themes of “formal structures”, “group norms and values”, and “communication channels” were identified. Namely, a resilient team has the formal structures in place to mobilize groups and resources when necessary, share an implicit vision for their team that provides a sense of purpose, and can communicate clearly when stressors arise (Morgan, et al., 2013). In the unpredictable arena of sport, these pre-established and unspoken understandings shared by teammates allow for individual athletes to make decisions that operate in coordination with their playing partners. In performance contexts, neurophysiological evidence suggests that this type of structural organization is important in preparatory stages of performance, but less organization (and more flexibility) is beneficial during actual performance (Stevens, Galloway, Lamb, Steed, & Lamb, 2015).

Doctrinal collective rituals play a role in cognitively aligning performers with the structures and values of their team. According to the Self-Categorization Theory (Turner, Hogg, Oakes, Reicher, & Wetherell, 1987), individuals belong to several social categories (e.g., athlete, family member, student) with the most situationally salient one driving thoughts and behaviours (Reynolds, 2017). For instance, upon entering a hockey arena, a student-athlete’s academic identity takes a back seat as the individual category of “hockey player” becomes salient. This shift in identity serves the functional purpose of facilitating thoughts and behaviours relevant to the social norms of this particular context. For example, on the ice, being calm and contemplative is not as beneficial as it might be in a lecture hall. Therefore, priming one’s salient identity as a hockey player benefits performance as it brings with it the instrumentally-desirable states associated with playing hockey. Self-categorization can also occur at different group levels (Brewer & Gardner, 1996). A hockey player is not just an individual, but a member of a hockey team with its own set of social norms. It has been posited that every doctrinal ritual performance primes group members with the values of their current group, making them more likely follow this specific team’s social norms (Rossano, 2012).

As athletes typically transition from one team to another throughout their careers, they experience a variety of team identities, norms, and values. Collective rituals may therefore also play an important role in the socialization and integration of new incoming team members. Though empirical research on this topic is lacking in the sports setting specifically, supportive evidence has emerged from experimental studies of participants randomly assigned to minimal groups. For instance, novel rituals have been experimentally demonstrated to lead to intergroup biases, as indicated by higher amounts of money being shared with in-group members during an economic trust game in lab settings (Hobson, Gino, et al., 2017). It is possible that these effects on group structure stem from the ritualized actions themselves. To determine if this is the case, Wen, Herrmann & Legare (2016) separated children into two minimal groups and had them participate in a necklace building activity. While one group was instructed to build their necklaces in a less structured manner, the other was prompted to follow instructions typical of ritualistic behaviour (e.g., “Next touch a green square to your head and string it on... Next clap your hands three times. Then string on a green circle”);
The synchronized and repeated actions of the ritual group were associated with a significant increase in self-reported in-group affiliation in post-test measures. Though further research is needed to determine if the results replicate in sports settings, these findings provide preliminary evidence suggestive of a synergistic effect of collective rituals on group structures, having implications for team sports. By bolstering in-group affiliation in minimal groups, collective rituals may play a role in socializing new players to a team.

### 2.2 Social capital

Under the category of social capital, Morgan *et al.* (2013) identified the subtheme of group identity, pertaining in part to the emotional bonds shared between teammates. One particular quote reflects the strength of an athlete’s attachment to their peers; bonds between teammates in resilient teams are so strong that “you would throw your life down for them” (Morgan, *et al.*, 2013, p. 555). The emphasis with which this athlete describes their connection to the group is reminiscent of identity fusion. Identity fusion has been defined as a visceral feeling of oneness with one’s group associated with an increased permeability of the boundary separating the personal and the social self, thereby motivating them to do as much for the group as they would for themselves (Swann, Jetten, Gómez, Whitehouse, & Bastian, 2012). In times of distress, identity fused individuals have reported to be more willing to fight or even die for their group, especially when their group identity is activated (Swann, Gómez, Seyle, Morales, & Huici, 2009).

If indeed resilient teams are characterized by having fused identities among teammates, generating identity fusion might be a mechanism through which collective rituals influence team resilience. A recent study examining imagistic practices in Brazilian Jiu Jitsu (BJJ) sought to determine the effects of dysphoric high-arousal rituals (*i.e.*, imagistic practices) on social cohesion and identity fusion (Kavanagh, Jong, McKay, & Whitehouse, 2018). In BJJ, there exists a rare promotional ceremony where the promoted individuals must walk through the gauntlet (a line of their training partners whipping them with belts); the practice is considered somewhat controversial and has been denounced by certain schools and instructors. Kavanagh *et al.* (2018) found that this particular imagistic practice was associated with identity fusion only if it was considered to be a positive affective experience. When the promotional ceremony experience was considered affectively negative, no such relationship was found. These findings reveal collective rituals’ potential to increase identity fusion in a sports setting, if they are viewed as a positive emotional experience. The visceral feeling of oneness with the group associated with identity fusion (Swann, *et al.*, 2012) is similar to the way Morgan *et al.* (2013) characterized relationships in resilient sports teams. As collective rituals may evidently play a role in bolstering identity fusion in sports (Kavanagh, *et al.*, 2018), it is possible that identity fusion may mediate the relationship between collective rituals and team resilience. Future longitudinal and experimental research is needed to further explore the associations between imagistic collective rituals and identity fusion, and how identity fusion contributes to the resilience of sport teams.

Another aspect of social capital identified by Morgan *et al.* (2013) was perceived social support, where resilient teams are characterized by players who subjectively feel like they would be supported by teammates in times of need. Indeed, perceived social support has previously been identified as a psychological factor in individual resilience amongst Olympic champions (Fletcher & Sarkar, 2012). Though limited research exists on the effects of collective rituals on perceptions of social support in sport specifically, the topic has been investigated in the context of spiritual and religious collective gatherings. Participating in collective rituals after traumatic events has been found to increase perceived social support (Páez, Basabe, Ubillos, & González-Castro, 2007). This has important implications in sport as perceived social support has been found to influence athletes’ self-confidence (Rees & Freeman, 2007). Further research is required to determine if collective ritual participation similarly helps foster perceived social support in sports teams.

Finally, the third subtheme under social capital identified by Morgan *et al.* (2013) was prosocial interactions and pertained to the selflessness and positive interactions between teammates on resilient teams. Anthropologists have long theorized that collective rituals play an important role in in-group cooperation (Durkheim, 1915). Indeed, religious studies have found that frequency of doctrinal practice participation predicts cooperative behaviour in economic games with in-group members (Ruffle & Sosis, 2007; Sosis & Ruffle, 2003). Also, if rituals involve more synchronous body movements, they are more likely to enhance prosocial attitudes towards the group (Fischer, *et al.*, 2013). Similarly, for imagistic practices, collective ritual participants have been found to donate more money to their in-group after they engage in a higher-ordeal (*i.e.*, costlier to the self) as compared to low-ordeal rituals, with the level of pain correlating with the amount donated (Xygalatas, *et al.*, 2013). If this is the case in sports, teams who perform more frequent and synchronous collective rituals should demonstrate greater generosity and prosociality between teammates, possibly resulting in greater team resilience. Though in considering the implications of these findings, it is important to keep athletes’ well-being in mind. For example, even if forcing athletes to demonstrate their commitment to the team by having them run sprints until they vomit might potentially result in an increase in prosocial behaviours between teammates, it is hardly worth the harm that this type of treatment will cause the individual athletes themselves.

The evidence here supports the idea of collective rituals’ potential role in promoting team resilience. At the level of a group’s structure, they may help to align individuals with the values of their team and socialize
new incoming members creating a more cohesive unit. In terms of social capital, collective rituals may generate identity fusion and foster prosocial interactions, thereby having an effect on the group environment. To date, there has been no research examining the link between collective rituals, mastery approaches, and collective efficacy, and future inquiries on the relationship between collective rituals and team resilience should take these components into consideration. There is also reason to believe that the actual performance of collective rituals can have a positive psychological effect on each individual performer, particularly in response to stressors. In the following section, the potential employment of collective rituals as communal coping strategies will be examined.

3 Collective rituals and communal coping

Sport psychology researchers have typically examined the topic of stress and coping from an intrapersonal perspective (Tamminen & Gaudreau, 2014). This work has mainly been conducted from the framework of Lazarus’s cognitive-motivational-relational theory (CMRT) of emotions that posits that athletes construct relational meanings in their appraisals of stressors that stem from the transactional processes between personal factors and the environmental demands of specific situation (Lazarus, 1999, 2000). In this theoretical framework, coping is understood to be an individual’s “cognitive and behavioural efforts to manage specific external and/or internal demands that are appraised as taxing or exceeding the resources of the person” (Lazarus & Folkman, 1984, p. 141). However, as athletes tend to experience stressors and engage in coping strategies in social situations, there has been a growing interest in how these processes occur at the interpersonal or team level.

Communal coping is the cooperative process by which groups of individuals manage stressors encountered either by a group or its constituent members (Lyons, Mickelson, Sullivan, & Coyne, 1998). In these situations, individual and collective efforts are made to mobilize resources to address the adaptive challenges at hand (Lyons, et al., 1998; Tamminen & Gaudreau, 2014). This is indeed the case in team sports where collective strategies are implemented to communally manage emotions (Crocker, Tamminen, & Gaudreau, 2015; Friesen, Devonport, Sellars, & Lane, 2013, 2015; Friesen, Lane, Devonport, Sellars, Stanley, & Beedie, 2013; Tamminen & Crocker, 2013). In a recent qualitative study of the topic, Leprince, d’Arripe-Longueville & Doron (2018) explored athletes’ perceptions of shared stressors and communal coping strategies using semi-structured interviews. Leprince et al. (2018) found that athletes competing in team sports do indeed appraise mutual problems as shared sources of stress. In response to these shared stressors, the authors found that sports teams engage in communal coping strategies that tend to fall into four main dimensions: problem-focused communal efforts (e.g., information sharing, refocusing), relationship-focused coping (e.g., motivational support, social joining), communal management of emotions (e.g., interpersonal emotion regulation, reassurance), and communal goal withdrawal (e.g., task-disengagement, venting of emotions). Though this was a preliminary investigation of the topic in sports teams, similar findings have been found in research examining communal coping between competitive youth athletes and their parents (Neely, McHugh, Dunn, & Holt, 2017).

Collective rituals themselves can be used as a communal coping strategy at the team level to deal with stressors that arise before, during, and after competition. Although rituals by definition lack overt instrumental purpose (Hobson, Schroeder, et al., 2017), this might not always be the case in sports. In fact, research is beginning to reveal how athletes and other performers use this type of behaviour to prevent or overcome stressors, and there has been a growing interest in identifying the mechanisms through which these behaviours operate. Drawing on the applicable research from the existing literature in neighbouring social science fields, collective rituals’ alignment with the communal coping framework of Lyons et al. (1998) and the dimensions subsequently identified by Leprince et al. (2018) will be examined. Specifically, collective rituals’ potential implementation as a means of communally managing emotions will be discussed.

Collective rituals have been found to influence the emotional climate in which the group is operating (Kanyangara, Rimé, Philippot, & Yzerbyt, 2007) and, as such, may therefore help athletes communally manage their emotions. However, it is possible that some of these mechanisms operate outside of the athlete’s conscious awareness. Drawing from the findings of ethnographic work, Rappaport (1971) noted the regulatory function of rituals and proposed that they operate as a cybernetic system whereby ritualistic behaviour is triggered when a suboptimal threshold of a variable (or series of variables) is reached. Hobson, Schroeder et al. (2017) posited that if this is indeed the case, experiencing a deficit (or abundance) of a positive (or negative) emotion should elicit more instances of ritualistic behaviour. Following this logic, when athletes compete in events with higher stakes, they should be more likely to engage in collective rituals as the pressure mounts to potentially debilitating levels. Indeed, athletes have been found to increasingly engage in rituals when winning demands or team pressure increases (Dodo, Lyoka, Chetty, & Goon, 2015). Also in support of the cybernetic model, ritual commitment has been found to positively correlate with uncertainty and game importance (Brevers, Dan, Noël, & Nils, 2011).

Many collective rituals take place before performances, perhaps due to the mounting pressure athletes perceive before competing. Whether or not athletes are consciously aware of it, these behaviours have been found to buffer against negative affective outcomes. For instance, at the individual level, having participants...
perform a previously-learned arbitrary ritual was found to reduce error-related negativity (ERN; i.e., a neural response to performance failures) in subsequent performance tasks (Hobson, Bonk, & Inzlicht, 2017). These findings are suggestive of rituals’ potential utility in the coping process because higher ERN responses have been associated with negative affective experiences (Hajcak, McDonald, & Simons, 2004) and state anxiety (Tullett, Kay, & Inzlicht, 2015). ERN amplitudes have also been shown to decrease when negative emotional responses to errors are down-regulated (Hobson, Saunders, Al-Khindi, & Inzlicht, 2014). Though this research has promising implications in sport performance, it was only conducted at the individual level. Future research is needed to determine how the group element of collective rituals influences group members’ abilities to cope with errors.

Specific to group-level behaviours, evidence from physiological studies also suggests collective rituals can influence coping. Synchronized actions, a component typical of collective rituals, have been found to lead to increased endorphin release in dancers (Tarr, Launay, Cohen, & Dunbar, 2015) and musical performers (Weinstein, Launay, Pearce, Dunbar, & Stewart, 2016). In turn, increased endorphin release plays a key role in stress-reduction (Bali, Randhawa, & Jaggi, 2015). When the All Blacks are performing their war cry and dance in unison, they are not only striking fear in the hearts of their opponents, but also bolstering their physiological resources to respond to stressors. Similar effects have been found in other sport contexts. Training in groups leads to a higher endorphin release as opposed to training solo (Cohen, Ejsmond-Frey, Knight, & Dunbar, 2010), regardless if training partners are teammates or strangers (Sullivan & Rickers, 2012). It is possible that collective rituals have a similar effect in team sports through the use of synchronous chants and movements. Furthermore, it is also possible that relationships exist between collective rituals and the other identified subcategories of communal coping (i.e., problem-focused communal efforts, relationship-focused coping, and communal goal withdrawal; Leprince, et al., 2018). However, like stress and coping, most research on the topic of rituals in sport been conducted at the level of the individual athlete (Bartošová, Burešová, Dacerová, & Valcová, 2017). As such, further research is needed to identify if and how these concepts may be related.

The implementation of collective rituals seems to have adaptive properties that may prove beneficial in dealing with the uncertainties of athletic competition. It appears that they can play a preventative role, preparing a group for adversity by strengthening its structure and social capital. Similarly, they may work in a more regulatory manner, arising in response to stressors and reducing their ill-effects. However, they can also have maladaptive properties that can be harmful (to both performances and performers themselves) when taken to the extreme. Some of problematic outcomes of collective rituals will now be considered in terms of how they may apply to team sport settings.

4 Maladaptive outcomes of collective rituals

Collective rituals should not be considered exclusively in terms of their adaptive outcomes. If they are indeed an effective means of boosting resilience and managing stressors, overreliance on them can become problematic. For instance, once a team becomes habituated to the palliative properties of their rituals, in order to maintain the same level of beneficial outcomes they may need to increase the length and complexity of their action sequences and the rigidity with which they are followed (Hobson, Schroeder, et al., 2017). The longer and more complicated a team’s collective ritual is, the less likely they are to be able to stick to the script verbatim. Unpredictability abounds in athletic performances and being able to adapt to unforeseeable changes is fundamentally important to success. Thus, if a team becomes overdependent on their ritual, it can become a source of anxiety itself. Furthermore, athletes may experience negative affective responses in circumstances when they are prevented from engaging in their ritual. Highly repeated (i.e., doctrinal) rituals have been posited to arise in response to an overactive mental precaution system geared towards detecting inferred threats (Boyer & Liénard, 2006). As such, the inability to engage in ritualistic behaviour makes it easier for intrusive thoughts to come to consciousness (similar to symptoms of pathological conditions like OCD; Boyer & Liénard, 2008) which can be detrimental to sports performances.

Aside from performance outcomes, collective rituals may lead to aversive consequences for athletes’ well-being. For instance, when dealing with imagistic practices, researchers and practitioners must be mindful of the abusive nature of these acts in team sports. Initiation rituals (or hazing) are particularly concerning because of their prevalence in elite sport (Crow & Macintosh, 2009; Hinkle, Smith, & Stellino, 2007; Hoover & Pollard, 2000). Hazing entails any degrading and/or dangerous activity incoming group members are expected to take part in, sometimes even against their will (Hoover & Pollard, 2000). These activities may include being yelled and cursed at, acting as a servant, forced excessive consumption of alcohol, simulated sexual acts, as well as physical, emotional, or sexual assault (Hinkle, Smith, & Stellino, 2007). These behaviours are considered to be a form of social bullying (Stirling, 2009; Stirling, Bridges, Cruz, & Mountjoy, 2011), or even sexual abuse (Kirby & Wintrup, 2002) when taken to the extreme and can result in depression, anxiety, or posttraumatic stress (LaFerney, 2002) when taken to the extreme and can result in depression, anxiety, or posttraumatic stress (LaFerney, 2002). Yet despite efforts to discourage the practice, hazing remains persistent in sports (Crow & Macintosh, 2009).

Here, future research in sports science should seek to determine if and how initiation rituals should continue to be implemented. The National College Athletic Association’s (NCAA) hazing prevention handbook suggests that hazing practices should be discouraged while team-building activities should be emphasized (NCAA, 2007). Not only will this help prevent negative experiences for
athletes, it may even increase collective rituals’ effectiveness in producing desired results. Indeed, only affectively positive experiences of imagistic rituals in sport have been found to be positively related with identity fusion (Kavanagh, et al., 2018). From an applied perspective, more knowledge on this topic will help to inform how coaches and practitioners can reduce harm and increase positive experiences in their respective sports.

### 5 Conclusion and future directions

Collective rituals are cultural universals, appearing in all forms of human practices. From tribal hunters, to religious believers, to athletic competitors; it seems that when groups of individuals band together, collective rituals tend to emerge. From an evolutionary perspective, they facilitate group living by helping to identify group members, ensuring group commitment, and promoting collaboration and cohesion between group members (Watson-Jones & Legare, 2016). As these mechanisms have implications in team sports settings, group dynamics researchers in sport psychology stand to benefit from the research on collective rituals from diverse fields of human studies. By drawing on the literature from across the human and social sciences, the applicability of an existing definition of collective ritual was examined within the field of sport psychology, and relevant findings were explored within frameworks of team resilience and communal coping. It is important to reiterate that the purpose of this article was not to conduct an exhaustive review of every topic in the group dynamics literature relevant to collective rituals in sports. Rather, the purpose was to provide a common conceptual basis from which collective rituals in sport can be examined. Operating from this common starting point allows for the exploration and application of relevant literature on collective ritual from neighbouring fields in the social sciences to the context of team sports. Though promising links can be drawn between collective ritual research and group dynamics, further investigation is needed to determine if the results do in fact carry over into the realm of sport.

Though only a selective list of topics in group dynamics were reviewed here in relation to collective rituals, there are many more avenues ripe for further investigation. For instance, researchers studying collective activity in sport have taken to exploring how teammates coordinate their actions based on pre-meditated plans and adapt to shared perceptions of situational cues in performance settings (e.g., Bourbousson, Poizat, Saury & Sève, 2012; De Keukelaere, Kermarrec, Bossard, Pasco, & De Loor, 2013; Gesbert, Durny, & Hauw, 2017). As collective rituals seem to play a role in many aspects of group activity, it could be fruitful for future research to examine collective rituals’ influence on these collective processes. It may also be beneficial to consider what role the individual team member and their personality plays in this relationship. Another area of growing interest in which collective rituals could have potential relevance is the study of placebo effects in sport and exercise (e.g., Beedie, et al., 2017, 2018) because athletes’ rituals and superstitions have long been hypothesized to be acting as placebos (Neil, 1980). As collective rituals may share similar underlying mechanisms to other placebos in team sport settings, further investigations of these topic could prove to be mutually beneficial.

The relationships between collective rituals, team resilience, and performance outcomes are also areas in which deeper explorations are needed. For instance, experimentally implementing and manipulating collective rituals in a sports setting will help to determine the causal mechanisms behind some of the correlational findings described here. Also, longitudinal research can be used to further explore the degree to which collective rituals play a role in team resilience, and address some of the questions that may arise in an applied environment and how these may develop over the course of time. From an applied perspective, this line of research has important implications for both athlete well-being and performance improvement, as more resilient teams are argued to be better equipped for dealing with stressors, setbacks, and challenges when they arise (Fletcher & Sarkar, 2012; Morgan, et al., 2013, 2015, 2017), which can be beneficial for the mental health of team members (Yamada, Kawata, Kamimura, & Horisawa, 2017).

There is reason to believe collective rituals can be implemented as communal coping strategies. One problem with attempting to study them within a communal coping framework (Lyons, et al., 1998) is their causal opacity. The act of coping involves the instrumental cognitive and behavioural actions implemented to deal with source of stress (Lazarus & Folkman, 1984). However, sport teams can engage in these behaviours to combat stressors without consciously knowing the adaptive benefits they derive from them. As such, a team’s collective ritual may not come to mind when an athlete is prompted to rate their collective coping strategies on a survey or discuss them in a semi-structured interview, even though they may serve as a strategy to help athletes cope with stressors communally. Future studies on the topic must keep this in consideration.

Finally, the maladaptive side of collective rituals also requires more empirical inquiry. Further studying imagistic rituals in sport can help us better understand why such seemingly maladaptive behaviours recur so frequently. Despite their suggested adaptive outcomes, minimizing the amount of harmful behaviours athletes engage in (such as hazing) should always be a priority. Future research on collective rituals in sport can help determine which situations are more likely to elicit instances of such behaviour. For instance, dysphoric rituals have historically arisen in groups facing higher risks (Turchin, et al., 2012); thus, it would be worth examining whether these behaviours are more typical in more dangerous and physically violent sports. Shedding light on when and how these behaviours arise is an important step in preventing their harmful consequences and informing policy decisions for sport organizations (e.g., NCAA, 2007).
Links drawn from research in other contexts helps to illuminate our understanding of how and why these behaviours recur so frequently and what consequences they may bring about. They shed light on how and why athletes can benefit or be hindered by participating in a team’s collective ritual. From an applied standpoint, the implications are significant. On the one hand, it appears that collective rituals have the potential to positively influence a team’s group dynamics by bolstering team resilience and helping to cope with team stressors. However, if left unchecked, rituals themselves could become the sources of stress and harm. With a deeper understanding of these behaviours in team sport contexts specifically, coaches and practitioners will be better able to distinguish the helpful from the harmful. Further research will help them strike this balance.

Author Contribution Statement

Author 1, Author 2, and Author 4 contributed to the development of the idea for the manuscript, the writing, editing, and the revisions to the manuscript. Author 3 contributed to the revisions to the manuscript.

Acknowledgments. We would like to acknowledge the efforts of the reviewers whose feedback helped improve the quality of the manuscript.

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