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Why does teamwork execution break down? Experiences of university team sport athletes.

Desmond McEwan and Kaitlin Crawford

University of Bath

Correspondence concerning this article should be addressed to Desmond McEwan, Department for Health, University of Bath, Claverton Down, 1 West 4.108, Bath, United Kingdom, BA2 7AY. Email: d.a.mcewan@bath.ac.uk

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Abstract

Teamwork is a dynamic process that can fluctuate over a team's time together, including within a competition. The purpose of the current study was to better understand why this process breaks down, whereby teams do not demonstrate effective teamwork execution. To do so, 18 British university athletes (11 men, 7 women; $m_{age} = 21.4$ years) from interdependent team sports were interviewed on two occasions and asked to describe experiences in which their team did not communicate, coordinate, or cooperate effectively during gameplay. Underpinned by a critical realist approach and through abductive thematic analysis, we developed seven themes (comprised of 16 subthemes) which reflected precursors to teamwork breakdowns. These included: (1) ineffective team preparation during training and during the pre-competition warmup; (2) ineffective team monitoring, problem solving, action planning, and conflict management during in-competition transition periods; (3) changes to the team's roster composition over the season and during games; (4) unhelpful leadership from coaches and athlete leaders during gameplay; (5) poor unity amongst team members regarding the team's instrumental objectives and social relationships; (6) problematic levels of confidence between teammates and among the team as a whole; and (7) poor performance of one's team and successful performances of one's opponent during the competition. The novel findings from this study extend current knowledge of teamwork and group dysfunction in sport and provide directions for future research on teamwork breakdowns. The potential applied implications for coaches and other team leaders (e.g., sport psychology consultants, athlete leaders) related to these findings are also highlighted.

Keywords: cohesion; group dynamics; leadership; performance; team effectiveness

24 Introduction

25 From 1998 to 2004 (the year before a league-wide salary cap was introduced), the New
26 York Rangers spent more money annually on player contracts than any other team in the
27 National Hockey League. Despite attracting some of the best hockey players in the world as a
28 result of their colossal spending, the Rangers did not once qualify for the league playoffs
29 during that span. The history of sports is littered with examples such as this wherein a team of
30 highly skilled individuals ultimately fails to achieve its goals. There are likely myriad factors
31 that explain why this underperformance occurs. Based on decades of research in sport
32 psychology, those factors could include group and interpersonal variables such as faulty team
33 selection, poor team unity, subpar leadership, a lack of clarity or acceptance of individual roles
34 within a team, and—most relevant to the current paper—inadequate teamwork amongst team
35 members (see Eys et al., 2019 for a review). With regard to the latter, research to date has
36 shown that effective teamwork positively predicts a range of important consequences in sport
37 such as team performance, team cohesion, collective efficacy, team resilience, enjoyment in
38 one's sport, and commitment to one's team (Fransen et al., 2020; Lausic et al., 2009;
39 McEwan, 2020). Although there are many times in sport where teams do not demonstrate
40 effective teamwork, uncovering the reasons *why* and *how* this occurs has not yet received
41 formal research attention. This query represents the focus of the current study.

42 McEwan and Beauchamp (2014) describe teamwork as a dynamic group process
43 comprising the collaborative behaviours amongst team members that maximize the team's
44 likelihood of achieving its purposes. During gameplay (i.e., 'action' episodes; Rousseau et al.,
45 2006), these behaviours are known as teamwork *execution*, which comprises intrateam
46 coordination (i.e., the sequence and timing of members' actions), communication (i.e.,
47 information sharing amongst teammates), and cooperation (i.e., working in unison and helping
48 one another). To optimize teamwork execution, teams need to work effectively during
49 'transition' episodes that take place before and after gameplay. These include the team's
50 *preparation* for team tasks (e.g., specifying team goals and action plans for the competition),
51 its *evaluation* following execution (e.g., monitoring the team's performance and the conditions

52 that impacted its performance), and the *adjustments* that need to be made for subsequent
53 gameplay (e.g., problem solving issues that are preventing team success, helping teammates
54 better perform their individual roles). In addition to those four phases of teamwork—
55 collectively known as the *regulation of team performance*—teams also need to effectively
56 manage conflicts that arise between members and ensure that teammates support one
57 another in dealing with any personal or shared stressors that impact them throughout the
58 team's time together—collectively known as the *management of team maintenance (MTM)*.

59 Along with describing the process of teamwork, McEwan and Beauchamp (2014)
60 provided a conceptual framework of team effectiveness wherein they expounded how
61 teamwork relates to *inputs*, *emergent states*, and *outcomes*. Inputs are antecedent variables
62 that enable (or constrain) the interactions between teammates (Mathieu et al., 2008). Some of
63 the most prominent inputs that have been examined in relation to teamwork—primarily outside
64 of sport—include team composition (i.e., the influence of team members and their personal
65 attributes), teamwork training (i.e., interventions designed to improve teamwork), and
66 leadership (in terms of both team members and the team's managers; Mathieu et al., 2008).
67 These antecedents form the impetus to teamwork processes and emergent states which then
68 predict outcomes. Emergent states (e.g., team cohesion, collective efficacy) have received
69 extensive attention within team sport research (Eys et al., 2019) and involve the dynamic
70 motivational, cognitive, and affective states that develop over a team's time together. Finally,
71 outcomes of team effectiveness are the results of the team's tasks, which typically focus on
72 team performance and member satisfaction (Mathieu et al., 2008). It is important to recognize
73 that as opposed to viewing the relationships between the four categories of variables in a
74 unidirectional fashion (i.e., inputs → team processes → emergent states → outcomes), the
75 team effectiveness framework stresses that those variables can impact each other in a
76 reciprocal manner as teams develop and go through various episodic cycles (e.g., from game
77 to game; McEwan & Beauchamp, 2014). For example, leadership may indeed predict the
78 extent to which team members work effectively together which, in turn, can predict how united
79 teammates feel and, ultimately, the team's success. Over time, though, the team's unity and

80 success can impact how effectively teammates work as a group and can also lead to changes
81 in coach and athlete leadership behaviours (e.g., if the team is not performing well).

82 To gain a comprehensive understanding of team effectiveness, we argue that it is
83 important for researchers to not only examine the variables that lead to *high-quality* team
84 functioning but also the contributors to *poor* team functioning. Various conceptual models
85 propose why some teams become dysfunctional over time. One example stems from Worchel
86 (1994) who suggested that as a team achieves its goals, it could decay due to members
87 demanding recognition for their contributions, which leads to intragroup competition and
88 individuals focusing more on their own needs instead of the team's. As a second example,
89 Wilson et al. (2007) put forward a taxonomy of 11 markers of teamwork execution errors in
90 military settings, such as insufficient team cohesion, adaptability, and mutual trust. In the
91 context of sport, previous research has highlighted a range of influences to group dysfunction
92 such as team cliques, detrimental player roles (e.g., team "cancers"), intrateam conflict, and a
93 high ego-oriented climate (Eys et al., 2019). However, it does not appear that comparable
94 research has yet been conducted on the construct of teamwork. Although the conceptual
95 framework by McEwan and Beauchamp (2014) describes *what* teamwork comprises and how
96 it relates to other variables, it does not explain *why* some teammates do not work effectively
97 together. Considering that teamwork is positively associated with a range of positive
98 consequences (e.g., team performance, team resilience, athlete enjoyment; Fransen et al.,
99 2020; Lausic et al., 2009; McEwan, 2020), identifying the reasons why some teams do not
100 demonstrate effective teamwork would appear to be an important next step in this research
101 area. Indeed, sport teams may be unable to reach their full potential when teammates do not
102 work well together; therefore, research examining teamwork breakdowns would enhance
103 researchers' and applied practitioners' (e.g., coaches, team psychologists) understanding of
104 the construct of teamwork and, more generally, group dysfunction in this context.

105 In summary, the purpose of the current study was to explore why teamwork execution
106 breaks down during team sport competition. As a multidimensional construct comprising 14
107 dimensions, there was a need to delimit our analysis of teamwork breakdowns in some way.

108 We focused specifically on teamwork execution (i.e., communication, coordination,
109 cooperation) instead of other facets of teamwork because these are the teamwork behaviours
110 that occur during action episodes (Marks et al., 2001), which, in the context of sport, are the
111 periods when teams compete against one another (i.e., gameplay). Hence, although
112 teamwork preparation, evaluation, adjustments, and MTM are important components of
113 teamwork, breakdowns in teamwork execution have the most immediate impact on team
114 performance during action episodes (e.g., wins or losses in a game). We describe teamwork
115 execution breakdowns as instances during the gameplay of a competitive match in which
116 teammates fail to communicate, coordinate, or cooperate effectively with one another. To
117 address our research question, we conducted semi-structured interviews on two occasions
118 with team sport athletes who were invited to share their experiences of teamwork breakdowns,
119 with a particular emphasis on what preceded the breakdown, why the breakdown occurred,
120 and how other variables (from a group dynamics perspective) led to the breakdown.

121 **Method**

122 **Transparency and Openness**

123 No program code or syntax was used in this study. Data in the form of anonymised
124 interviews are available upon request from the corresponding author. Journal Article Reporting
125 Standards (JARS) for qualitative studies were followed throughout the study and manuscript
126 preparation. Guided by Clarke et al. (2016), we sought a minimum sample size of 15
127 participants. Data were analyzed through reflexive thematic analysis (Braun et al., 2017;
128 Clarke et al., 2016). Study materials in the form of interview schedules are available as a
129 supplementary material. This study was not pre-registered.

130 **Approach to Enquiry**

131 A qualitative study design was deemed most suitable for addressing our research
132 question due to the paucity of research on teamwork breakdowns in sport as well as the
133 potential for this methodology to provide a deep and nuanced understanding of (what we
134 viewed as) a complex phenomenon (cf. Silverman, 2006). With regard to our philosophical
135 underpinnings in addressing the research question, we adopted critical realism (Archer et al.,

136 1998) whereby one reality is assumed to exist, although it is acknowledged that such reality
137 might never be completely understood given that it is influenced by the subjectivity of
138 researchers who carry out research. Critical realism focuses on potential ‘causal mechanisms’
139 of a phenomenon (cf. Archer et al. 1998; Fletcher, 2017) and, as such, aligned with our
140 purpose of examining *why* teamwork breaks down. This approach relates to our ontological
141 (i.e., what is the nature of reality?) and epistemological (i.e., what can be known and how is
142 knowledge produced?) positioning. Specifically, ontological *realism* underpinned this research
143 as we presumed that participants’ accounts reflected their interpretations of reality—that is,
144 their experiences of teamwork breakdowns. That said, adopting a *constructivist* epistemology,
145 we recognize that accessing participants’ experiences was only partially possible (i.e., could
146 only be approximated) due to our backgrounds and experiences (Maxwell, 2012).

147 We propose that our ontological and epistemological underpinnings are demonstrated in
148 four main ways. First, they informed how interview questions were created (interview schedule
149 available in supplementary material)—namely, by drawing on existing theoretical frameworks
150 and research that propose some of the potential predictors of teamwork (e.g., Mathieu et al.,
151 2008; McEwan & Beauchamp, 2014). Second, they informed how themes and subthemes
152 were developed—namely, taking an abductive approach to seek explanations for why
153 teamwork breaks down (see ‘Data Analytic Strategies’). Third, participant quotes are
154 presented throughout the Results in the third person to capture participants’ views and
155 experiences of teamwork breakdowns whilst also emphasizing that these perspectives are
156 interpreted by us (the researchers). Fourth, the findings are discussed in relation to the
157 existing teamwork literature, and we acknowledge that both our interpretations of the data and
158 subsequent comparisons with that literature were influenced by our own experiences (e.g., as
159 researchers and former team sport athletes and coaches).

160 **Data Collection Strategies**

161 Following University Research Ethics approval, participants were recruited through
162 purposive and snowball sampling of BUCS (British University & College Sport) interdependent
163 team sport athletes. Potential participants were first sent an information letter about the study

164 via email. Those who indicated that they wished to participate in the study were included if
165 they were over 18 years of age and had been part of an interdependent sport team at the
166 university level for at least one year. After providing informed consent, an interview time was
167 scheduled. We also asked participants to complete a demographic information sheet which
168 requested their age, gender, sport, and tenure with their current team; all participants returned
169 this form (via email), although one participant did not provide her age or tenure.

170 All interviews took place virtually from November 2020 to March 2021 and were
171 recorded with a Dictaphone for subsequent transcription. We originally planned to conduct two
172 semi-structured interviews, with participants taking part in one or more competitions between
173 the interviews, as this could allow participants to describe experiences of teamwork execution
174 breakdowns that may have occurred at a recent competition. However, all BUCS sport was
175 eventually cancelled due to the Covid-19 pandemic around the time when we began data
176 collection. Nonetheless, the multiple-interview approach was retained as we viewed this as an
177 opportunity to build rapport and provide participants with additional time to deliberate further
178 about their experiences with teamwork breakdowns in hopes that this would facilitate greater
179 depth and nuance in the resulting data (cf. Chamberlain, 2012). We believed this approach
180 would allow us to cover a breadth of potential influences on teamwork breakdowns in the first
181 interview and then focus on greater detail in the second interview. A semi-structured interview
182 schedule was created for the first round of interviews, wherein we asked participants to
183 describe an occasion(s) when their current team did not engage in effective teamwork during
184 gameplay, what led to the breakdown during the game, if there was anything that was done
185 prior to the game (e.g., on the gameday or during training) that they perceived to contribute to
186 the breakdown, as well as what—if anything—could have been done to prevent the
187 breakdown. A modified interview schedule that was tailored to each participant—based on
188 discussions in the first interview—was then developed and the second meeting took place 2 to
189 3 weeks thereafter.

190 **Participants**

191 The final sample consisted of 18 university-level athletes (11 men, 7 women) from four
192 interdependent team sports, including rugby union (n = 8), football (i.e., soccer; n = 6), netball
193 (n = 3), and field hockey (n = 1). The participants ranged in age from 20-23 years (mean =
194 21.4) and had been part of their current team for 14-39 months (mean = 27.2). Pseudonyms
195 are provided throughout the Results section, with the participant's gender and sport included
196 alongside quotes (e.g., P1.M.Football).

197 **Data Analytic Strategies**

198 The 36 interviews (two per participant) yielded 13hr 41min of audio content. The total
199 mean interview time per participant was 45.6 minutes (range = 31-66 minutes), with a mean
200 duration of 16.3 minutes for interview 1 and 29.3 minutes for interview 2. All recordings were
201 transcribed which resulted in >105,000 words (221 pages of single-spaced text).

202 Reflexive thematic analysis (Braun et al., 2017; Clarke et al., 2016) was used to analyze
203 the data, which comprises six stages: *familiarization*, *coding*, *searching for themes*, *reviewing*
204 *themes*, *defining and naming themes*, and *writing the report*. The first author commenced data
205 analysis by reading each interview transcript at least twice to enable immersion in the data.
206 Notes on each interview were taken throughout this phase in a research journal, with overall
207 observations noted at the end of the phase (Clarke et al., 2016). The second author also read
208 through, and provided notes on, all interview transcripts. An abductive approach (Sparkes &
209 Smith, 2014) was adopted during the coding stage, whereby we interpreted participants'
210 perspectives of causal mechanisms (cf. Archer et al. 1998; Fletcher, 2017) of teamwork
211 breakdowns through the lens of existing knowledge of teamwork (e.g., Mathieu et al., 2008;
212 McEwan & Beauchamp, 2014) while remaining open to new ideas that may challenge or differ
213 from that work. Specifically, we aimed to gain insight into athletes' experiences with teamwork
214 breakdowns (inductive) and compare our interpretations of those descriptions with the
215 literature (deductive). Thereafter, we sought to create a coherent thematic map by clustering
216 similar provisional codes together into candidate themes and subthemes—that is, patterns of
217 shared meaning that we interpreted as organizing around the core concept (teamwork
218 breakdowns). We then reviewed the (sub)themes in relation to the (a) coded data (e.g., “does

219 the candidate theme provide a good fit with the apparent meanings in the coded data?”), (b)
220 dataset as a whole (e.g., “do the candidate themes reflect the data content and address the
221 research question?”), and (c) teamwork literature (e.g., “how do the candidate themes relate to
222 theory/conceptual frameworks and research on teamwork?”). During this phase, the interview
223 transcripts were re-read to assess alignment of those transcripts with the thematic map and
224 working descriptions of (sub)themes. Following amendments to the (sub)themes and thematic
225 map, we finalized the (sub)theme names and descriptions (see ‘Results’ section). Lastly,
226 guidance for reporting thematic analysis (Braun et al., 2017) and qualitative research (Levitt et
227 al., 2018) informed the final write-up.

228 We (the authors) sought to facilitate research quality and rigour across the data
229 collection, analysis, and write-up of the study. We met throughout data collection, namely over
230 the course of the first round of interviews, between the first and second round of interviews,
231 and after the first few interviews of the second round of interviews. As ‘critical friends’
232 (Sparkes & Smith, 2014), we sought to describe and challenge our preliminary interpretations
233 of the data, and brainstorm interview strategies that could promote greater depth, nuance, and
234 alternative discussions in subsequent interviews. This continued through to the write-up of the
235 paper to help ensure that our descriptions of (sub)themes and quotes from participants
236 provided an accurate reflection of the data. We also considered it important to obtain feedback
237 from individuals external to the research team as a means of encouraging further reflexivity—
238 that is, challenging our interpretations of the data and contemplating alternative explanations
239 (Smith & McGannon, 2018). As such, we presented our findings to three academic colleagues
240 during stages 5 and 6 of the analysis who also served as critical friends—each had previously
241 conducted research in sport psychology and/or through a critical realist lens. Changes were
242 made throughout discussions with critical friends. For example, our original thematic map
243 comprised 10 themes and 31 subthemes. As detailed in the Results section below, this
244 thematic map was eventually revised to seven themes that comprised 16 subthemes.

245

Results

246 In this section, we describe seven themes and 16 subthemes that we interpreted from
247 participant interviews as the key factors that led to teamwork execution breakdowns (thematic
248 map available in supplementary material). As each theme aligns with variables that fall under
249 one of teamwork, inputs, emergent states, or outcomes within a framework of team
250 effectiveness in sport (McEwan & Beauchamp, 2014), we have used that framework to help
251 summarize and organize the (sub)themes into four overarching themes (cf. Braun et al.,
252 2017). We begin by illustrating our interpretations of the other teamwork behaviours that occur
253 during the *preparation* and *transition* stages of a competition. Second, we describe *team*
254 *composition* and *leadership* influences (input variables). Third, we note the impact of *team*
255 *cohesion* and *team confidence* (emergent states). Fourth, we discuss the role of *team*
256 *performance* during competition (an outcome variable). In addition to participant quotes on
257 these precursors to teamwork breakdowns, we present contrasting quotes that reflect
258 participants' perspectives of the ways in which those breakdowns could have been prevented.

259 **Preparation (Teamwork)**

260 We first focus on the ways in which teams prepared for competition both during training
261 and on the day of the competition (before the game commenced), and how those preparation
262 activities were viewed as leading to teamwork breakdowns during the match.

263 ***During Training***

264 Several participants recalled that the activities during training sessions did not include
265 practicing teamwork to a sufficient degree. For example, Owen (P2.M.Rugby) stated:

266 I felt that the type of training we had made us lack in coordination.... The vast majority
267 of our training was running moves or practicing certain set pieces.... I felt that that
268 impacted us on the pitch. Everything was so scripted. We had to perform those set
269 moves that we had trained so many times, [but] we didn't know what to do after.

270 Owen later noted that his team's training activities did not translate into effective teamwork
271 during competition because during games "you might have one or two times where you've
272 trained the move you are going to play; but the rest of the time it's open play, it's fluid, you
273 need to think on the spot, you need to be reactive." Owen suggested that "practice games"

274 during training (i.e., a team scrimmage or simulation) could have enhanced the translation of
275 teamwork from training to the competition setting:

276 Not playing games in training and not experiencing those natural situations in training,
277 particularly for the more inexperienced players, they didn't have that natural
278 coordination in a game. They didn't know where to place themselves, and the natural
279 coordination with the other players then lacked.

280 Thus, if teams do not practice coordinating, communicating, and cooperating sufficiently, they
281 may be more likely to experience breakdowns in those behaviours during competition.

282 Participants further noted that the teamwork breakdowns their team experienced
283 occurred due to the absence of an effective contingency/backup plan that they ultimately
284 needed to employ during the competition. For example, Ming (P12.M.Rugby) recalled:

285 It was the biggest game of the season and... [the opposing team] anticipated what we
286 were going to bring to the game, like, our game-plan. They totally, totally shut it down
287 and that led to a lack of clarity in what was our plan B. We didn't have a plan B.

288 Hence, teamwork breakdowns in competition may occur as a result of a team failing to
289 prepare for contingency plans (i.e., a "plan B"). For instance, Owen (P2.M.Rugby) noted that
290 "we didn't really do much preparation [for situations] when things start to go badly." Thus,
291 identifying and practicing contingency plans during training sessions may decrease the
292 likelihood of teamwork breakdowns occurring during competition.

293 Participants also recalled times during training sessions where their team was split into
294 two subgroups—one being the team's "starters" and another being the team's "backup"
295 players. Several participants suggested that this split, particularly during team scrimmages,
296 contributed to teamwork breakdowns during competition. For example, Ming recalled:

297 [We] train as a starting 15.... [We] do rotate in the subs, but I wouldn't say that they
298 get nearly as much time.... We could've rotated the inexperienced players in and
299 given them more opportunities to be training with the starting 15 [because] you get to
300 know people, the way they move, the decisions they make.

301 Separating starters and substitutes was viewed as problematic because these individuals
302 often still end up playing together during the team's games. To better prepare for competition,
303 Olivia (P7.W.Football) suggested "having a bit more of a fluid team, mixing them more during
304 training... so everyone gets involved rather than creating an exclusive starting 11. So then
305 when something goes wrong you can maintain that [level of teamwork]". Thus, as opposed to
306 having starters and backups split into subgroups, mixing all players into training activities—
307 especially during team simulations—could enhance teammates' familiarity with one another
308 and allow teams to avoid teamwork breakdowns when players are substituted.

309 ***Pre-game***

310 In addition to training sessions, the pre-game warmup period was also noted as relevant
311 to teamwork execution breakdowns in the impending game. Specifically, failing to practice
312 teamwork execution behaviours as part of the team's pre-game warmup was viewed as
313 problematic. For instance, Aliah (P5.W.Netball) explained "[our] warmup didn't run smoothly at
314 all. Like, there was no communication whilst doing team drills.... Everyone was silent." As part
315 of a team's warmup, failing to reiterate contingency plans in addition to primary game-plans
316 was also seen to impact teamwork breakdowns. For example, Pierre (P17.M.Football)
317 suggested that during pre-game warmups, his team should have discussed:

318 What happens if we go down? What happens if we get a man sent off? What happens
319 if, you know, the communication is not there and we're going quiet? We had not
320 discussed the possibility of any of these happening.... We didn't really have like a
321 concrete [backup] plan of action.... If you can have a plan before [it is needed], you
322 save a huge amount of time.... You really don't want to be sorting that out in a game.

323 Hence, it would seem important that teams not only practice contingency plans during training
324 sessions but also run through those plans as part of the team's pre-game brief.

325 **Transitions During the Game (Teamwork)**

326 In this section, we recount participants' experiences of how suboptimal team monitoring,
327 problem solving, action planning, and conflict management during in-game transitions (e.g.,
328 between whistles, during halftime breaks) contributed to teamwork breakdowns.

329 Team Monitoring

330 Failing to adequately monitor and discuss (during transition periods) the team's previous
331 performance was suggested to contribute to teamwork breakdowns in subsequent action
332 episodes. For example, Miguel (P11.M.Rugby) recalled: "We weren't spotting those errors and
333 actually talking to each other, like 'the quicker players should move out.' We just weren't
334 communicating with each other." Thus, if teams do not engage in effective monitoring, they
335 may be less likely to know whether they are on the right track in obtaining their mission (e.g.,
336 winning the game) or need to address any performance inadequacies before subsequent
337 action episodes. In some cases, the absence of team monitoring discussions was due to
338 players feeling that they were unable to provide honest feedback. When describing the
339 teamwork execution breakdown that her team experienced, Melanie (P3.W.Netball) suggested
340 that: "We weren't able to be honest and reflective [because] when a couple of girls said stuff, it
341 would come across as insulting and belittling of our performance." As described further in this
342 section, there is likely some nuance to effective team monitoring in terms of having an open
343 and psychologically safe environment—whereby any member can share their perspectives if
344 they believe they have valuable monitoring information—whilst avoiding information overload
345 whereby players are bombarded with too many perspectives.

346 In other situations, participants noted that team monitoring took place but was deemed
347 unhelpful. For example, Owen (P2.M.Rugby) suggested that "half time wasn't constructive at
348 all. It was just very like, you know, 'this is terrible'. Really kind of just like saying how bad the
349 first half had gone.... Not too constructive or specific." This suggests that it is likely unhelpful
350 to provide team members with redundant feedback and only highlight the things that the team
351 did poorly in previous team tasks. That type of feedback alone might even lead to teamwork
352 breakdowns, as Owen suggested his team's teamwork execution did not improve over the
353 remainder of the game; rather, a "downward spiral" of teamwork followed thereafter
354 particularly in his team's communication.

355 Problem Solving

356 Some participants highlighted that although their team reflected on its performance in
357 previous action episodes, this was not followed up with effective problem solving, whereby the
358 team identified how it can improve. Recalling the teamwork breakdown that his team
359 experienced in the second half of a game, Connor (P16.M.Hockey) suggested:

360 We did not utilise the halftime period as well as we could have.... You look at what's
361 happened—how do you react to it? How do you devise a solution quickly as a team?
362 Having enough characters to overcome issues and empower yourselves. And that
363 was the problem; our players did not show that kind of quality.

364 Hence, failing to problem solve as a team could make it less likely for teams to develop
365 improved strategies, and enhance their performance, in subsequent action episodes.

366 Other participants explained that although their team did engage in problem solving, the
367 process was ineffective. For example, Melanie (P3.W.Netball) illustrated that in her team's
368 halftime meeting:

369 [We] all sat together discussing literally what went wrong which was good. But at the
370 same time, because she [the coach] was so autocratic, it was a little bit hard to say
371 exactly what you thought because she was so stern, and you could be a bit intimidated
372 by her.

373 Thus, the absence of a psychologically safe environment could result in less effective problem
374 solving because players who may have valuable input do not feel that they are free to voice
375 their perspectives. Melanie went on to suggest that although the team attempted to problem
376 solve, the absence of psychological safety from her coach seemed to extend to a lack of
377 psychological safety between teammates: "I would say that there were still times where I didn't
378 feel very comfortable with saying certain things to a person." Hence, as with team monitoring,
379 it seems that psychological safety is a key part of successful team problem solving.

380 **Action Planning**

381 Several participants remarked that teamwork breakdowns occurred due to the absence
382 of a clear action plan arising from their team's in-game transitions. For instance, Miguel
383 (P11.M.Rugby) suggested: "It's all about having clear action points as well. Like, if you're just

384 rambling on at them and there's no real action points, there's no real thing to work on, people
385 start to zone out." Other participants highlighted that although action planning did occur to
386 some extent, it was not useful to the team. In particular, several participants remarked that
387 their action plans merely consisted of generic platitudes rather than specific instructions to
388 players. For instance, Owen (P2.M.Rugby) recalled "all anyone would really say is that we
389 need to start communicating better or like we need to get that chat up better all that kind of
390 stuff which yeah, it's true but it didn't really help very much." Thus, developing action plans
391 during in-game transitions that are clear and specific could decrease the likelihood of
392 teamwork breakdowns occurring in subsequent action episodes.

393 It was also noted that action planning was ineffective when players were given too much
394 information. For example, Amari (P10.M.Rugby) suggested "if you're just giving [players] lines
395 and lines and lines, then you're at risk of giving them too much and it takes away from what
396 they're actually saying." He believed that his team experienced breakdowns in teamwork
397 execution because there were too many instructions to the team:

398 Someone comes in, you know starts shouting 'we need to do this, we need to do this,
399 and work on that.' You've got 15 players and you've just told them to do 15 different
400 things. So, the 15 players can all be doing something different which, you know, if
401 you're trying to play as a team, you're basically telling them not to play as a team.

402 Amari's perspective highlights the importance of shared mental models amongst teammates,
403 which may not occur if there are too many instructions. To that end, Ming (P12.M.Rugby)
404 described what he felt was an effective plan during his team's in-game transition:

405 One thing I think they did really well is not bombard us with too many messages. Like
406 there was no over-communication. It was a simple message which I think had two
407 points related to everyone and was easy to understand and quite clear.... Everyone
408 knew what they were meant to be doing.

409 Thus, in addition to having clear and specific action plans, it appears important to avoid plans
410 that are overly extensive and complicated to ensure players have a shared understanding of
411 the team's next steps.

412 Conflict Management

413 Conflict between teammates can occur during competitions; the absence of constructive
414 conflict management was identified as a reason for subsequent teamwork breakdowns. For
415 example, Sonny (P13.M.Football) suggested: “As soon as we start arguing, the teamwork just
416 goes out the window because everyone sort of either goes into their shell or sort of goes out to
417 do stuff on their own. So, they won’t pass to each other.” Thus, failing to manage conflict
418 effectively, namely during transition episodes, can allow the issue to fester and impact
419 subsequent gameplay. To illustrate, Pierre (P17.M.Football) recounted:

420 We didn’t utilize [halftime] as well as we should have. We didn’t really address the
421 issue.... It was on me and the other player to pull each other aside and have a quick
422 chat before we went back on for the second half and put it to bed, which we should
423 have done but we didn’t.

424 The absence of effective conflict management in this case appeared to carry over into the
425 remainder of his team’s match, as the conflict made Pierre’s team “more reluctant to talk to
426 each other [on the field] compared to before. I think that was the reason for the breakdown.”
427 Thus, developing conflict management strategies may help reduce the potential deleterious
428 impact of conflict on subsequent teamwork execution, with breaks in gameplay providing an
429 opportunity (however brief) for teams to enact those strategies.

430 Team Composition (Input)

431 In this section, we recount how teamwork breakdowns can be impacted by the team’s
432 composition, which includes changes to its roster over the course of its season as well as
433 substitutions that take place during games.

434 Roster Changes

435 In the current study, changes to team rosters typically stemmed from players being
436 called up from lower tiered competition or sent down from higher tiers (e.g., from the
437 University’s 2nd team to its 1st team, or vice versa). Such roster changes were suggested to
438 predict teamwork breakdowns by several participants. For example, Olivia (P7.W.Football)

439 recalled that new players lacked role clarity and were, therefore, unable to work within the
440 team's system:

441 Cooperation wise, people didn't understand what their specific role was with respect
442 to the wider context of the team. So say it was the striker, they just thought that 'my
443 job as a striker is to score goals' but didn't necessarily cooperate with the team.

444 This lack of familiarity and comfort was also noted as impacting on-field communication. When
445 describing his team's breakdown in teamwork, Owen (P2.M.Rugby) noted:

446 There were lots of new players. People didn't know each other and, therefore, if you
447 don't know the players well enough and the other players don't know each other well
448 enough, you're not going to communicate as well. You're not going to be comfortable
449 communicating.

450 A lack of familiarity with one another due to roster changes can also result in players being
451 uncomfortable in providing feedback to each other such as during in-game transitions, as
452 pointed out by Miguel (P11.M.Rugby): "We were quite new to each other.... We weren't
453 honest and open with each other."

454 Roster changes were also viewed to impact teamwork due to suboptimal relational
455 efficacy. For instance, Olivia explained how her other-efficacy beliefs (i.e., confidence in her
456 teammates) were impacted by recent modifications to the team's roster:

457 I definitely had a lack of confidence in the new players because we had such a good
458 team before and when the new players came in, they weren't at such a high skill level
459 because they were from the team below [our division].

460 The above perspectives reiterate the importance of teamwork preparation. For example, in
461 reflecting on a situation where teamwork broke down with a new player, Rohan (P8.M.Rugby)
462 suggested it occurred because the team "didn't really train with this particular player, and then
463 he got put straight into the team on match day." Thus, team training sessions provide
464 opportunities for new players to learn and practise their role responsibilities in their team, as
465 well as for new teammates to become more comfortable with, and confident in, each other.

466 ***Substitutions During Game***

467 In many interdependent team sports (e.g., football, basketball), substitutions take place
468 over the course of a game. Pierre (P17.M.Football) recalled that player substitutions
469 undermined his team's "rhythm":

470 I noticed a massive breakdown from that because all of the partnerships that were
471 established had been changed and the rhythm of the game was disrupted because of
472 these new people who did not know their place within the game and within the team.
473 This disruption can be especially prominent with players who lack familiarity with the team's
474 approaches, such as those that are new to the team or its level of competition. As Ming
475 (P12.M.Rugby) explained:

476 There were quite a lot of boys who came off the bench that day who hadn't played
477 much first-team rugby. So for a specific example, in terms of the lineouts, there was
478 obviously lots of different calls and those boys coming on hadn't communicated that
479 they didn't know certain calls, which would lead to myself making the call and then it
480 being too late, and they didn't know what to do, which would lead to the lineout going
481 wrong.

482 It was also noted that substitutions can disrupt teamwork execution through decreased
483 relational efficacy. Specifically, Owen (P2.M.Rugby) explained that this could occur when a
484 highly-skilled player "gets subbed for someone who is less experienced, not as good.... You
485 didn't have the confidence in that person and that was just going to affect the team dynamic."

486 We noted that there appeared to be nuance in this subtheme, as other participants
487 suggested that substitutions are sometimes beneficial. Miguel (P11.M.Rugby) suggested: "It
488 can go one of two ways—it can have both a detrimental effect [or] a positive effect....
489 Sometimes you have people who come on and they just lift you." Miguel later recalled a
490 specific example when this occurred with his team: "You could really see a change in the
491 game because they [the substitutes] have a presence on the pitch. People's attitude on the
492 pitch change because they know that they were players they could count on." As such, rather
493 than avoiding substitutions altogether, the challenge for coaches in preventing teamwork
494 breakdowns involves identifying the ideal *mix* of players in a given situation.

495 Leadership (Input)

496 In this section, we recount participants' descriptions of how coach and athlete leadership
497 during gameplay led to teamwork breakdowns.

498 Coach Leadership

499 Effective coaching during gameplay was viewed as essential to facilitating teamwork. As
500 Miguel (P11.M.Rugby) described: "You very much need a strong coach to direct the team....
501 You need someone to... get people communicating with each other." Ming (P12.M.Rugby)
502 described the "framing of messages" from coaches during gameplay as important: "Let's say
503 you're just being like really, really negative and always on people's backs and like everything
504 you're saying is criticizing... You're just not going to get the best out of people." Some
505 participants felt that their coach's emotions while communicating could be "contagious" to
506 players. For example, when describing his team's breakdown, Pierre (P17.M.Football)
507 recounted the impact of his coach's negativity towards the team during gameplay:

508 Our coach was absolutely furious, and I don't think that that helped. He met the
509 situation with a lot of anger and frustration.... I think a lot of the team saw how annoyed
510 the coach was, how frustrated and probably embodied that themselves when they
511 perhaps wouldn't have otherwise.

512 Coaches could also influence team emotions in a more positive manner. When providing a
513 contrasting situation where he thought his team avoided a teamwork breakdown despite
514 emotions running very high in the competition, Sergio (P15.M.Football) recalled that his coach
515 "calmed the whole situation down and he didn't give us like a massive kick up the ass.... [He]
516 made us all calm down as well and change our type of attitude."

517 It was further suggested that coaches' interactions with individual players can impact the
518 rest of the team. Pierre recalled his coach's reactions to an error he made:

519 The first thing he did was just have a massive go at me personally. Like, you know, it
520 was not encouraging really; the opposite of what a player needs.... They [my
521 teammates] then suddenly think 'oh, if I make a mistake, how is he going to react? Is

522 he going to react like that in the same way he does to me?'. So they became a lot
523 more cautious of making mistakes.

524 The coach's reaction and the team's subsequent cautious approach were seen as deleterious
525 to teamwork execution, as Pierre reasoned:

526 If you're constantly nervous about making mistakes... that's when your coordination
527 in a team breaks down because everyone is focused on [avoiding mistakes].... That's
528 really how the leadership made it worse. When that happens, the focus of each
529 individual player shifts more towards their individual performance as opposed to how
530 well we're going to work together as a team.

531 Thus, it would appear that the way in which coaches communicate with players during
532 gameplay not only impacts the recipients of that feedback but the team as a whole as well.

533 ***Athlete Leadership***

534 In addition to coaches, athlete leaders were also viewed as important insofar as they
535 provide—as Amari (P10.M.Rugby) described—“clarity and direction on the pitch”. Specifically,
536 Owen (P2.M.Rugby) suggested:

537 Obviously, the coach has got a lot of input but he's kind of just watching on the
538 sidelines and, you know, the players are actually playing the game.... If [an athlete
539 leader] knows what he's on about and he's a good leader on the pitch, people are
540 going to kind of respect that more and listen to that more.

541 When summarizing his team's teamwork execution breakdowns, Owen suggested that they
542 seem to arise “when there isn't someone to organize people.” Owen also alluded to the
543 importance of shared leadership instead of having one task leader:

544 Some of the time you have other people that take other kind of leadership roles or
545 add to the leadership within a team, and we didn't really have that. So it was kind of
546 one person, one voice trying to get everyone to work together, which doesn't work.

547 Participants also suggested that it is important to have leaders who motivate the team in
548 order to prevent teamwork breakdowns. When describing these types of leaders, Melanie
549 (P3.W.Netball) suggested that “they are the kind of person that if there is a low point during

550 the game, even a simple comment like ‘come on girls, heads up’ can really lift the spirit of the
551 team.” Similar to task leadership, the importance of having a shared leadership style rather
552 than simply relying on a single player (e.g., the team’s captain) was also noted. As Owen
553 suggested: “When the teamwork starts to break down, people’s heads start to drop, that kind
554 of thing, [the team captain] wasn’t the kind of person to you know rile the team up.” Hence, it
555 appears that subpar athlete leadership can lead to teamwork breakdowns and that the
556 provision of multiple task and motivational leaders can help offset those breakdowns.

557 **Team Cohesion (Emergent State)**

558 In this section, we recount participants’ descriptions of how inadequate unity amongst
559 teammates around the team’s instrumental objectives (i.e., task cohesion) and in their social
560 interactions (i.e., social cohesion) influenced teamwork breakdowns.

561 ***Task Cohesion***

562 A lack of unity around instrumental objectives was thought to impact teamwork
563 execution. Yui (P9.W.Netball) suggested that low task cohesion predicted teamwork
564 breakdowns because some members ended up playing in a more individualistic—rather than
565 team-oriented—manner: “We didn’t agree on what should happen going forward so instead of
566 cooperating together, we started to just play as individuals instead of collectively as a team
567 which clearly isn’t that effective in netball when you rely on each other.” It was also noted that
568 the misalignment of task objectives with even one player can disrupt teamwork execution.
569 Rohan (P8.M.Rugby) recounted: “We all realized that there was one individual there who
570 wasn’t wanting to play as a team. When he was substituted everyone sort of increased their
571 standard and was more effective in the game.” Reflecting on her experiences with her team,
572 Melanie (P3.W.Netball) indicated: “What was frustrating is that we had a great coach and
573 great individuals, we just didn’t have any team cohesion.... The way we played didn’t
574 necessarily gel with everybody.” Thus, an absence of task cohesion could prevent a team
575 from executing effectively and, in turn, reaching its full potential.

576 ***Social Cohesion***

577 In addition to task cohesion, a team's unity in terms of its social relationships was also
578 perceived to impact teamwork breakdowns. In particular, clashes between individuals can
579 create conflict amongst the team which leads to teamwork breakdowns. Miguel

580 (P11.M.Rugby) suggested this was particularly impactful "when stuff starts going wrong":

581 When you have a poor relationship with someone and they say something, you sort
582 of take it to heart. You think... they're having a go to point out that 'it's your fault, not
583 my fault'. Whereas if you have a good relationship with them, with your team, it kind
584 of bonds you together and allows you to actually take on board criticism.

585 In addition to creating intrateam conflict itself, the lack of social cohesion could further impact
586 teamwork by impeding the effective management of that conflict. When reflecting on her
587 team's breakdown in teamwork, Yui (P9.W.Netball) suggested: "If we had that team
588 relationship in the grounding, I think we would have overcome that disagreement to still play
589 for each other rather than break down and just lose our heads." Teams need to also be aware
590 of cliques forming due to relationship conflicts, as this was also suggested to create division
591 between groups of players during gameplay. As Amari (P10.M.Rugby) summarized:

592 You do get different characters within the team... which can be difficult and create
593 [sub]groups in the team. It's about being able to make sure those groups don't kind of
594 clash against each other and become two separate groups rather than one.

595 Further to the above, it was suggested that developing social cohesion within a team off
596 the field could prevent teamwork breakdowns by helping teammates become more
597 comfortable with each other on the field, especially in new teams. For instance, after his
598 team's formation, Owen (P2.M.Rugby) felt that social outings were beneficial to his team and
599 that these benefits included better on-field teamwork because "everyone becomes more
600 comfortable and then this translates into a game. You're going to communicate better because
601 you are comfortable giving criticism, taking criticism, helping each other." Social cohesion can
602 also help foster an environment of openness and honesty which—as discussed earlier—was
603 viewed as particularly important in creating effective discussions amongst team members
604 during in-game transitions. As Melanie (P3.F.Netball) illustrated: "It's really instrumental;

605 having relationships with team members breaks down that barrier to actually voice what you
606 think.” Thus, it appears that poor social cohesion can carry over to ineffective teamwork on the
607 court/field and, as such, efforts should be made to build strong social connections amongst
608 team members.

609 **Team Confidence (Emergent State)**

610 In this section, we discuss the influence of a second emergent state, team confidence,
611 on teamwork breakdowns. This includes both the beliefs that team members hold in the ability
612 of the group as a whole to execute and produce given levels of attainment (i.e., collective
613 efficacy), as well as teammates’ confidence in one another (i.e., relational efficacy).

614 ***Collective Efficacy***

615 Some participants suggested that low collective efficacy was detrimental to their team’s
616 performance, due to the formation of a poor “mindset” or decreased motivation. Interestingly,
617 though, with regard to teamwork breakdowns specifically, multiple participants seemed to
618 suggest that those breakdowns were due to *overconfidence* (or arrogance) rather low
619 collective efficacy. In particular, participants recounted that the team’s overconfidence going
620 into, and during the initial stages of, a game created a sense of complacency and “sloppy”
621 teamwork. For instance, Pierre (P17.M.Football) noted that his team’s overconfidence when
622 facing a perceived weaker opponent led to poor team communication:

623 We weren't aware of the importance of communication as much. So, if you're playing
624 a team that's not as good, I think you could take those things for granted, right? Take
625 the basics of the game, they're very foundational, but you can forget them quite easily
626 if you don't actively try to [focus on] them.

627 Thus, excessively high levels of collective efficacy can result in a team straying away from its
628 typical focus on teamwork execution.

629 Participants also suggested that overconfidence led to teamwork breakdowns due to
630 increased intrateam conflict when the game ended up being more difficult than anticipated.

631 Sergio (P15.M.Football) recalled:

632 We just assumed that we were going to win and as soon as things went the wrong
633 way, people started arguing, bickering, because we weren't used to it [trailing]. It was
634 just like little kids throwing their toys out the pram. We weren't used to it, so we all
635 started arguing instantly.

636 This reiterates the point that effective conflict management is critical to help prevent conflict
637 from hindering teamwork. Moreover, the accounts highlighted above imply that *more* might not
638 always mean *better* with regard to team confidence. Rather, there may be an *ideal* amount of
639 team confidence between low and excessively high. As Harry summarized:

640 We thought that we won the game before the ball was even kicked. It doesn't matter
641 what level you are playing at, you can't go into a game just thinking that. You can be
642 confident that you are going to win a game, but there is a difference between being
643 confident and being borderline arrogant.

644 Hence, it would seem that collective efficacy can be beneficial to a team *if* players retain a
645 focus on teamwork and manage conflict effectively in case it arises.

646 **Relational Efficacy**

647 Teamwork execution breakdowns were also suggested to arise due to poor relational
648 efficacy beliefs—self-efficacy, other-efficacy, and relation-inferred self-efficacy (RISE). For
649 one, it was noted that low levels of self-efficacy could diminish teamwork due to players
650 doubting themselves and playing more tentatively than they normally would. For example,
651 Aliah (P5.W.Netball) suggested that some team members' low self-efficacy “definitely did
652 change the way we played because... we were like ‘what if they intercept this?’ and just that
653 worry and anxiousness about letting balls go and letting goals in.” Pierre (P17.M.Football) also
654 suggested that inadequate confidence in oneself can lead to poorer teamwork because
655 players engage in avoidance behaviours: “You're all so focused on *not* making this mistake,
656 you then forget to talk because... you don't want to be that person who's making that mistake
657 and letting the team down.”

658 A lack of confidence between teammates was also viewed as detrimental to teamwork
659 execution. Hugo (P14.M.Football) explained that low levels of other-efficacy “changes it

660 [teamwork] quite drastically really because if the team's lost confidence in one player
661 specifically then that eliminates like a person to pass to.... Then you're basically playing with
662 one less player." It was also suggested that when a team member believes that teammates
663 are not confident in them (i.e., the team member has low levels of RISE), this can impact their
664 own confidence which then results in poorer teamwork. For example, Sian (P4.W.Rugby)
665 recalled how the communication between her teammates and herself dwindled due to her low
666 levels of RISE: "If someone knows they're having a bad game—like, for example, I was—and
667 no one like picked up on anything good I kind of did that whole game, my head would just be
668 down the whole game." Thus, it appears vital that teammates demonstrate their beliefs in one
669 another as a means of facilitating relational efficacy and preventing teamwork breakdowns.

670 **Team Performance (Outcome)**

671 In this final section, we recount participants' perceptions of how poor performance
672 outcomes of their own teams and the successful performance of their opponents within a
673 match led to subsequent teamwork execution breakdowns in that match.

674 ***Our Team's Poor Performance***

675 Participants suggested that their team's poor performance impacted subsequent
676 teamwork execution in a variety of ways. One reason was that poor performance created
677 frustration and anger amongst players. Connor (P16.M.Hockey) suggested:

678 In hockey, quality play stems from quick decision making.... When you have that pent-
679 up anger, it prevents you from seeing the game clearly and that even sort of split-
680 second decision really affects the fluidity of the team and how quickly we can get the
681 ball into space.

682 Member frustration can also lead to discord within the team which, if not managed effectively,
683 can then impact teamwork. For instance, Sonny (P13.M.Football) detailed how poor
684 performance diminished team coordination due to clashes between teammates:

685 Because we were so frustrated with the mistakes and easy goals, you just find
686 yourself not being able to do things that you normally can do with ease. So, like even

687 just a short pass you'd mess up because you're so like angry or just nervous really
688 that someone's going to have a go at you.

689 Poor performance can also decrease team communication and cooperation as a result of
690 reduced team morale. As Pierre (P17.M.Football) explained: "It flows into communication
691 because morale is so low and we're so lost, so we stop talking to each other.... We're just
692 focused on wanting to win... without using any teamwork."

693 Participants suggested that when the team is not performing well, coach and athlete
694 leaders are particularly important in managing emotions. For example, Sergio (P15.M.Football)
695 identified the importance of team leaders in "keeping people's heads level. That's when this all
696 like gets pulled back down and everyone calms down." In addition, the importance of
697 maintaining focus on teamwork despite being previously unsuccessful in the match was
698 emphasized. For example, Pierre suggested: "If something does go wrong, are we continuing
699 to do those basic things? Are we continuing to communicate, are we continuing to cooperate?"
700 These perspectives highlight the importance of developing interpersonal emotion regulation
701 strategies in addition to conflict management strategies, with coach and athlete leaders
702 appearing to play a prominent role in enacting those strategies.

703 ***Opposing Team's Success***

704 While some participants focused on the impact of their own team's poor performance,
705 others suggested that it was the opposing team's success during the game that impacted their
706 team's teamwork. There was some overlap between these two subthemes, particularly in
707 terms of the effects of both types of performance outcomes on intrateam conflict and emotions
708 (e.g., frustration, agitation) which, in turn, was detrimental to teamwork. For example, Owen
709 (P2.M.Rugby) suggested that when his team's opponent had several consecutive successes,
710 "a couple particular players like lost their heads a bit after just a couple of scores and really
711 couldn't... join in with the team communication." Notwithstanding the similarities between the
712 two subthemes, opposing team success seemed to impact teamwork in additional ways. For
713 one, some participants noted that opponent success decreased drive within their team, which
714 then resulted in poorer teamwork. For instance, Miguel (P11.M.Rugby) recounted: "As soon as

715 we started losing, people just lost their heads... [and] there was a lack of communication
716 within the team to work on what we needed.” Moreover, participants reported feeling reduced
717 perceptions of control in the match and its final outcome when opponents were successful.
718 Ming (P12.M.Rugby) noted why the teamwork within his team eventually declined despite
719 some early success for his own team:

720 When you lose control of a match that you’ve been in control of, it’s really difficult to
721 get that back.... We were winning and [then] we were suddenly losing control of it,
722 and it feels like everything is going a million miles an hour.

723 It was also noted that opposing team success can result in team members straying
724 away from their team-oriented strategies. For instance, Amari (P10.M.Rugby) recalled that
725 members of her team panicked and started playing more individualistically following a few
726 scores from their opponents:

727 It got worse and worse to the point where people started... going off script because
728 they’re in their heads, they’re trying to solve the issues themselves instead of, you
729 know, communicating with each other and trying to solve the whole issue together....

730 You just get a team of fifteen players all trying to do something different.

731 Thus, teams that focus on their team-oriented approaches in spite of opponents’ success may
732 be more likely to recover from those setbacks and avoid subsequent teamwork breakdowns.
733 Participants also proposed that teams need to practice dealing with opposing team’s success
734 during training. For instance, after being undefeated throughout the season, Olivia
735 (P7.F.Football) felt that her team was not adequately prepared for dealing with the unfamiliar
736 situation of falling behind in a game, which occurred in one of the final games of her team’s
737 season. “We needed to know what it was like to be losing and come back from losing because
738 we didn’t know what it was like to go a goal down.... In training, we could have done
739 hypothetical scenarios [like that].” Thus, a team can be better prepared for managing
740 opponent success by working through this type of challenge during training sessions.

741

Discussion

742 Researchers, coaches, and team psychologists are all concerned with knowing how
743 team effectiveness can be maximized. With regard to teamwork, a notable limitation of the
744 existing research within sport was the absence of research examining why teams do not work
745 together effectively. Guided by a framework of team effectiveness in sport (McEwan &
746 Beauchamp, 2014), seven themes and 16 (sub)themes were organized into four overarching
747 themes that we interpreted from participant interviews as reflecting the reasons why their
748 teams did not communicate, coordinate, or cooperate effectively. *Teamwork* comprised the
749 ways in which teams prepared for a competition and engaged in (in)effective transitions during
750 the game. *Inputs* encompassed team composition as well as coach and athlete leadership
751 during gameplay. *Emergent states* included team cohesion and team confidence. Finally,
752 *outcomes* focused on the impact of team performance within the game.

753 In some cases, our interpretations of the data corroborate existing research on
754 teamwork in sport. As one example, teamwork execution has been shown to be associated
755 with important consequences such as collective efficacy, task and social cohesion, and team
756 performance (Lausic et al., 2009; McEwan, 2020). Moreover, the findings reiterate the
757 importance of effective team preparation (e.g., practicing teamwork execution during training
758 and pre-game warmups) and in-game transitions (e.g., providing simple and specific feedback
759 to team members during breaks within a match) in facilitating effective teamwork during
760 gameplay. What is perhaps more notable though is the ways in which the findings extend or
761 differ from previous knowledge. For one, these findings add to previous research regarding
762 the influence of team composition on teamwork. For instance, Swaab et al. (2014) found that
763 individual talent facilitates team performance up to a certain but can become detrimental at
764 very high levels due to breakdowns in team coordination. In the current study, we interpreted
765 that changes to team composition during games and over the course of a season can also
766 lead to teamwork breakdowns. This suggests that coaches and organizational personnel (e.g.,
767 those in charge of player transfers) need to carefully manage changes to team rosters over a
768 season. When roster changes do occur, it appears critical that coaches facilitate role clarity
769 (see Eys et al., 2019), and allow time for teammates to become comfortable, familiar, and

770 confident with one another. This provision of time could allow teams to maintain their level of
771 teamwork when substitutions are made during games. Moreover, it would seem important that
772 coaches continually develop their own familiarity with their roster, as this can enable them to
773 make suitable decisions in terms of substitutions that need to take place. Specifically, in
774 reflecting on participants' perspectives, we do not offer a simplistic takeaway that substitutions
775 are inevitably *good for* or *detrimental to* teamwork. Rather, teams likely need to focus on
776 identifying the ideal *mix* of players that are required for a given competitive situation.

777 Secondly, although *identity leadership* has been previously shown to predict teamwork
778 execution (Fransen et al., 2020), we interpreted that ineffective leadership behaviours from
779 coach and athlete leaders during gameplay may lead to breakdowns in team communication,
780 coordination, and cooperation. Specifically, when coaches berate players and are overly
781 negative in response to player or group errors—as opposed to providing constructive
782 corrective feedback—it can be detrimental to both individual players and the team as a whole
783 by creating more tentative/overcautious play as well as by decreasing players' confidence.
784 Previous work has also shown that coaches' emotions (e.g., anger) can be “contagious” to the
785 rest of the team, impacting players' emotions as well as team performance (van Kleef et al.,
786 2019). Our findings suggest that those coach emotions might also lead to teamwork
787 breakdowns. Regarding athlete leadership, the absence of task leaders (i.e., those in charge
788 of tactical decision-making) and motivational leaders (i.e., those who steer the team's
789 emotions; Cotterill & Fransen, 2016) can also be problematic. Previous research by Fransen
790 and colleagues (2014; 2018) suggested that shared leadership appears to benefit team
791 effectiveness and performance, such as by enhancing collective efficacy and team
792 identification. Our interpretations of participants' experiences in the current study support
793 those findings and suggest that shared task and motivational leadership may also be key in
794 reducing the likelihood of teamwork breakdowns. In sum, the results reiterate the importance
795 of developing effective leadership behaviours within teams (Burke et al., 2006). To that end, a
796 challenge for future research within the context of sport involves identifying how exactly coach
797 and athlete leaders can facilitate effective teamwork and prevent teamwork breakdowns.

798 A third contribution of this work concerns the impact of team cohesion (Carron et al.,
799 1985) on teamwork breakdowns. Previous research found that teamwork execution has a
800 larger positive relationship with task cohesion than with social cohesion (McEwan, 2020).
801 Interestingly, though, we observed that participants tended to identify, and discuss in more
802 detail, an absence of social cohesion in their accounts of why teamwork execution broke down
803 on their team. Although more research is clearly needed, this might suggest that task
804 cohesion does indeed have a stronger relationship with teamwork *in most situations*, while
805 social cohesion comes into prominence in protecting teams from teamwork *breakdowns*.
806 Thus, from our perspective, it would appear important that teams develop both task and social
807 cohesion such as through team-building strategies that target the team's environment (e.g.,
808 fostering distinctiveness), structure (e.g., enhancing role acceptance), and/or processes (e.g.,
809 team goal setting activities; see Paradis & Martin, 2012). Namely, task cohesion could help
810 optimize high-quality teamwork, while social cohesion might help sustain teamwork when, as
811 one participant put it, "stuff starts going wrong." In particular, social cohesion might reduce the
812 likelihood of breakdowns by helping players become comfortable with one another (which is
813 especially relevant when new players are added to the roster), facilitating interpersonal
814 support and on-field communication, fostering a psychologically safe environment
815 characterized by open and honest communication (McLaren et al., 2021), and preventing, or
816 managing the potential negative effects of, team "cliques" (Martin et al., 2014).

817 A fourth novel contribution of this research involves the seemingly nuanced relationship
818 between team confidence and teamwork execution. On the one hand, it appeared that low
819 collective efficacy had a negative impact on teams, which aligns with previous research
820 (LePine et al., 2010). On the other hand, it appears that there may be a point at which team
821 confidence becomes *too high*, turns into arrogance, and the usual benefits of team confidence
822 plateau or potentially even reverse in the form of teamwork breakdowns. While previous
823 research has shown that overconfidence can impact individual performance (e.g., committing
824 more errors in a task; see Vancouver et al., 2002), our study appears to be the first (to our
825 knowledge) to suggest that overconfidence might also be related to teamwork breakdowns in

826 sport. We interpreted that this negative effect of overconfidence was due to a sense of
827 complacency forming within the team, a divergence from team-oriented task approaches, and
828 a greater likelihood of intrateam conflict emerging if the team performs poorly especially
829 against perceived weaker opponents. In addition, our findings indicate that there may be a link
830 between relational efficacy (Lent & Lopez, 2002) and teamwork in sport. Specifically, we noted
831 that players' self-efficacy can be influenced by the confidence that they believe teammates
832 have in them. These observations add to the findings from previous studies on relational
833 efficacy in sport, which has shown that these efficacy beliefs predict a range of individual (e.g.,
834 commitment to one's team) and group (e.g., team performance) outcomes (Habeeb, 2020).
835 Our interpretations suggest that insufficient other-efficacy and relation-inferred self-efficacy
836 amongst teammates can be detrimental to subsequent teamwork execution because players
837 can become more tentative and engage in avoidance behaviours (i.e., trying to not make a
838 mistake). Therefore, it would seem important that coaches aim to foster the sources of
839 relational efficacy (e.g., performance accomplishments, social persuasion).

840 Finally, although a reciprocal effect between teamwork and team performance was
841 proposed in the team effectiveness framework (McEwan & Beauchamp, 2014), this study
842 appears to be the first to suggest that team performance outcomes during competition can
843 indeed impact subsequent teamwork. Specifically, we interpreted that a team's own poor
844 performance can result in frustration, anger, and conflict within the team, which may increase
845 the likelihood of subsequent teamwork breakdowns. In line with participants' suggestions, it
846 appears that coach and athlete leaders play prominent roles in managing emotions and
847 intrateam conflict following poor team performance. This highlights the importance of
848 developing interpersonal emotion regulation strategies and conflict management strategies,
849 both of which can positively impact goal achievement (see Tamminen et al., 2021 and
850 Downes et al., 2021, respectively). In addition, even when one's team is performing well, the
851 success of one's opponent can lead to subsequent teamwork breakdowns via decreased work
852 ethic, drive, team confidence, and perceptions of control. Again, team leaders appear to play a
853 critical role in these situations insofar as preventing members from straying away from team-

854 oriented strategies towards more individualistic gameplay, whereby some players go beyond
855 their role on the team and try to overcome deficits by themselves. Moreover, it could prove
856 useful for coaches to create situations in training that provide players with opportunities to
857 practice teamwork in the face of performance-related setbacks (e.g., team simulations where
858 players need to overcome a score deficit).

859 Despite the contributions of the current study, there are limitations that should be
860 recognized. First, it should be reiterated that the findings are based on our (the researchers')
861 interpretations of participants' accounts. Additional research is necessary to examine these
862 interpretations and accompanying suggestions, as they are bound by our own subjectivity. In
863 addition, the study sample was rather homogenous, namely in terms of all participants being
864 part of university-level teams from four interdependent sports. As a result, some of the findings
865 may not apply, for instance, to other sports (e.g., those with fewer in-game transitions than
866 rugby, football, field hockey, and netball) or other competitive levels (e.g., professional sport).
867 As one example, the social aspect of sport is an important part of the university sport
868 experience; therefore, social cohesion might have a stronger influence on teamwork
869 breakdowns in this population compared to professional sport. Thus, it would be worth
870 investigating teamwork breakdowns across other sports and competitive levels in future
871 studies. It should also be noted that most participants had not competed in their sport for
872 several months, as a result of BUCS sport being cancelled due to the Covid-19 pandemic. As
873 such, the discussions within interviews were more retrospective in nature than originally
874 anticipated, which may have influenced participants' recall of certain details from their
875 experiences. Relatedly, we recognize that some interviews were somewhat short. Although
876 having two shorter interviews was meant to facilitate breadth (particularly in interview 1) and
877 depth (particularly in interview 2), it could be argued that the level of detail obtained was
878 questionable. Hence, it would seem valuable to examine (qualitatively or quantitatively)
879 perceptions of teamwork breakdowns closer to the time at which those situations occurred.
880 Furthermore, many participants provided additional information that, although interesting, was
881 beyond the focus of the current study and, therefore, not presented in this paper. For example,

882 some participants detailed how they thought teamwork breakdowns could be overcome after
883 their onset. While we focused on the factors leading to teamwork breakdowns, identifying
884 potential solutions to those breakdowns could be a beneficial avenue of future study.

885 In conclusion, the current study extends existing knowledge of teamwork by presenting
886 some key factors that may explain why team sport athletes experience decreased
887 coordination, communication, and cooperation during gameplay. We hope that the findings
888 from this study spark additional work on this topic, improve our understanding of group
889 dysfunction in sport, and, ultimately, help researchers and applied practitioners identify how
890 teams can reach their full potential.

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Supplementary Material: Interview Schedule

(Welcome and brief introduction to each other)

Thank you for participating in this interview. This study is interested in your experiences with teamwork and specifically when teamwork breaks down within your university BUCS team during competition. For the purposes of this study, we are focusing on the communication, coordination, and cooperation between team members during competition. In a moment, I will ask you a series of questions related to your experiences with teamwork and specifically when teamwork on your current team breaks down or is compromised.

Please be reminded you are welcome to withdraw from this study at any point without a need for explanation and can withdraw your data for up to 2 weeks after participation. You can choose not to answer any question if you feel like it will cause you distress in any way.

Is this all clear? Do you have any questions before we begin?

MAIN QUESTIONS

1a) Can you tell me about an experience you have had with your university BUCS team when you thought that there was a breakdown in teamwork during competition

b) What do you think were the specific reasons for the breakdown in teamwork?

2a) How long did the breakdown in teamwork last?

b) To what extent was your team able to recover from the breakdown?

c) If your team was able to recover, what changes occurred to enable the recovery?

3) When your teamwork suddenly began to breakdown, please describe any specific feelings you felt individually and collectively as a result of this?

4) Do you think your team's preparation for the match contributed to the breakdown in teamwork and, if so, how?

5a) How important do you feel a strong team relationship is needed in avoiding teamwork breakdowns?

b) What influence do you believe communication within a competitive environment has on the relationships within your team?

6a) How does your team utilise half-time/quarter time breaks?

b) Do you think this influenced the breakdown in teamwork?

7a) When the teamwork broke down, what was your coach's reaction to the situation?

b) How did their reaction influence the behaviour/performance of you and your teammates?

8) To what extent do you believe that the presence of a strong leader (player/coach) could help mediate teamwork breakdowns?

Thank you for completing this first interview! Your responses are highly valued. Please take time to reflect on these questions before the next interview about any further information you could share with us. We will be in contact within the next few weeks to arrange the second interview.

POTENTIAL FOLLOW UP QUESTIONS (to obtain further depth, detail and clarity)

1. *How did this occur?*
2. *Why do you think this is the case?*
3. *How do you think the coaches/players preparation impacted the breakdown in teamwork? Were any pre-game rituals skipped in this preparation period? (question 4)*
4. *Was there a change in the feedback provided by the coach due to the situation and how do you think this may have influenced your teamwork, by providing examples? (question 8)*

PROBES

1. *Can you tell me more about that?*
2. *Can you give an example of this?*
3. *Repeat last few words of participant's response in question tone*
4. *You said the word _____, what do you mean by this?*

Interview 2: A similar set of questions will be asked for the second interview largely based on the information provided in the first interview and where we feel more clarity/detail is needed. The first set of questions will form the basis of the second interview; however, some questions may be reworded to improve clarity of responses and facilitate further, more specific recall.

An example set of questions for one of the second interviews is provided on the following page:

Example Second Interview

Interviewer: Thank you for the first interview, your answers were extremely helpful. Once again, today we are going to talk about teamwork and focussing on situations when your team does not communicate, coordinate, or cooperate well. Once again you can choose not to answer any questions if you wish not to, and you can withdraw at any time. First, I just wondered if after we finished the last call, if anything came up for you?

Leadership

Interviewer: So firstly, we will be discussing leadership. During our last interview you mentioned that your captain was a great physical player and “led by example” but did not encompass certain other traits that you thought were important. Can you explain why you think the captain was not best suited to the role?

Interviewer: In your opinion, how much of an impact should a captain have compared to a normal team player when teamwork breakdowns occur?

Interviewer: With regard to your coach, I noticed that we didn’t really talk much about them. Were they perceived as an authority figure and how did their leadership style impact teamwork breakdowns?

Interviewer: How would your coach intervene when teamwork breakdowns would occur?

Preparation

Interviewer: During the previous interview, you said about how the training preparations for the [opposing team’s name] game was different, and that people were training in positions they had never played in before. In what way do you think the team could have prepared differently to avoid the occurrence of a breakdown during the game?

Interviewer: As a team did you have anything prepared in case of a breakdown in any game?

Interviewer: Then in terms of communication, you mentioned off field relationships have a positive impact when it comes to preventing team breakdowns. Can you elaborate on this?

Attitudes towards teammates/within team

Interviewer: Now we will talk about attitudes towards teammates. So last time you talked about how mistakes in the backline were common and that this was reflected in certain teammates’ body language. How did this impact your perception and other players perceptions towards this kind of attitude?

Coordination

Interviewer: Now in regard to coordination, from your experience with the BUCS team you currently represent, do you believe your team is efficient when it comes to coordination? So, having a sense of where your teammates are on the court and feeling in sync with one another.

Interviewer: You also mentioned in our last interview that communication and cohesion were two of the main factors that led to teamwork breakdowns. How could these two factors be focused on in training to overall improve coordination?

Interviewer: Keeping in line with your thought that more games and fluidity in training would have led to better coordination in games, how much of an impact, if any, do you think this would have also made in increasing the team's performance?

Physical changes in team members

Interviewer: The next subsection is physical changes in team members that you mentioned, like substitutions and injuries for example. Was there a specific time point in a game where the changing of certain members had a significant impact on the game?

Interviewer: So, for the [opposing team's name] game, did substitutions or injuries have an impact in that game?

Team hierarchy

Interviewer: You also mentioned there was a hierarchy in the team. In what way might this have influenced the breakdown?

Expectations/confidence

Interviewer: Moving on to expectations and confidence that you mentioned. Do you think that the expectation of winning or losing certain games throughout the season and within the league impacted the team's teamwork?

Final Question

Interviewer: The final question just to round up now. If you think of the whole situation and could go back and replay it, what could be done differently to avoid the breakdown in teamwork, such as during the [opposing team's name] game?

Supplementary Material: Thematic map of teamwork breakdowns encompassing four overarching themes, seven themes, and 16 subthemes.

