“The Team Behind The Team”:

Exploring the Organizational Stressor Experiences of Sport Science and Management Staff in Elite Sport

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Abstract

This study explored the organizational stressors encountered by the “team behind the team” (viz. those operating in sport science and management roles) in elite sport and the consequences these can have. 40 support personnel working in elite sport were interviewed. Thematic analyses unveiled 36 lower- and six higher-order themes, which were separated into stressors encountered (e.g., relationship and interpersonal, physical resource, contractual and performance development, organizational structure and logistical) and their consequences (e.g., emotions and outcomes). Building on extant work, this study moves the focus beyond athletes’ stress experiences to provide novel insight into those operating in sport science and management roles. The findings offer original insight into the educational needs of sport science and management staff, which can inform practitioners who face increasing demands to work with such personnel, and raise sports organizations’ awareness of their duty of care to employees and the factors that need to be managed.

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Over the past few decades, a body of research has emerged which demonstrates the
prevalence of organizational stressors in the sports context. This research, which has primarily
focused on athletes’ experiences, has explored the various demands encountered that are
associated with the organization to which sport performers affiliate. To elaborate, via a
synthesis of research on this topic, Arnold and Fletcher (2012) presented 34 studies which had,
collectively, identified 640 distinct organizational stressors encountered by sport performers.
These stressors were organized into four categories: leadership and personnel, cultural and
team, logistical and environmental, and performance and personal issues. Additional research
examining athletes’ stress experiences has illuminated the problematic nature of organizational
demands if they remain unaddressed. Such undesirable responses and outcomes can include:
overtraining, burnout, unpleasant emotions and affect, psychological need frustration,
dysfunctional health and well-being, and impaired preparation for and performance in major
competitions (see, e.g., Arnold, Fletcher, & Daniels, 2017; Bartholomew, Arnold, Hampson, &
Fletcher, in press; Fletcher, Hanton, & Wagstaff, 2012; Gould, Guinan, Greenleaf, Medbery, &
Peterson, 1999; Tabei, Fletcher, & Goodger, 2012). In view of their prevalence and
consequences, scholars have produced evidence for practitioners working with athletes on the
optimal identification, measurement, and management of organizational stressors (cf. Arnold,
Fletcher, & Daniels, 2013, 2016; Arnold, Ponnusamy, Zhang, & Gucciardi, 2017; Arnold,
Wagstaff, Steadman, & Pratt, 2017; Rumbold, Fletcher, & Daniels, 2012).

In the provision of sport psychology support, however, practitioners often find
themselves working with personnel other than solely the athletes. Indeed, there are additional
“performers” in the sports context (e.g., the coach) who, like athletes, encounter difficult
situations, are expected to perform under pressure, and seek the support of a sport psychologist
Organizational stress in sport science and management staff

(Wagstaff, 2017). In recognition of these other performers, research has begun to also examine the demands that may affect their performances. Specifically, studies have been conducted which explore the stressors encountered by coaches (see, for a review, Fletcher & Scott, 2010) and sport psychologists (Fletcher, Rumbold, Tester, & Coombes, 2011).

Starting with the coach, Fletcher and Scott (2010) highlighted the sheer quantity of stressors that individuals operating in this role encountered and how these could emanate from a variety of sources. To illustrate this further, Thelwell, Weston, Greenlees, and Hutchings (2008) identified 182 demands reported by coaches in sport, and suggested that these could be separated into performance-related (e.g., coaches’ athletes performances or their own) and organizational-related (e.g., demands relating to their sports organization) dimensions. Of additional interest in Fletcher and Scott’s (2010) review was the identification of a bias toward burnout when examining the consequences of psychological stressors for sports coaches. Indeed, a number of studies in the literature have identified burnout as being associated with higher levels of perceived stress and a salient feature of a coaches’ lives (see, for a review, Goodger, Gorely, Lavallee, & Harwood, 2007). In addition to burnout, coaches’ stressors can potentially affect their focus, decision making, and job performance (Frey, 2007).

Turning to sport psychologists, Fletcher et al. (2011) revealed that they encountered numerous organizational stressors which were separated into five dimensions. These were: factors intrinsic to sport psychology (e.g., workload, evaluation, ethical obligations); roles in the organization (e.g., responsibility, ambiguity, overload); sport relationships and interpersonal demands (e.g., personality type, lack of social support); career and performance development issues (e.g., advancement, job insecurity, funding); and organizational structure and climate of the profession (e.g., bureaucracy, inadequate communication channels, no sense of belonging). Upon reviewing the literature on coach and psychologist stress in sport, it is clear that individuals in these positions encounter a number of demands associated with the organization within which they operate. Furthermore, such organizational-related stressors can
create various outcomes for coaches and psychologists. This is in accordance with the meta-model of stress, emotion, and performance (Fletcher, Hanton, & Mellalieu, 2006) which suggests that stressors arise from the environment an individual is operating in, are mediated by perception, appraisal, and coping, and as a consequence, result in various responses, feeling states, and outcomes.

Notwithstanding the pivotal role that a coach and sport psychologist play in elite sport, it is important to be mindful of other “performers” operating in this domain, whose stress experiences have not yet been investigated in research. Indeed, as the recognition of the impact that sports science and medicine related factors can have on elite performance has grown, the size and sophistication of elite and professional sports’ teams of support staff (e.g., those in sport science and management roles) has also witnessed rapid expansion (cf. Gilmore & Gilson, 2007; Wagstaff, Thelwell, & Gilmore, 2015). Nowadays, it would not be uncommon for such teams to also comprise, or at least have access to, sports medicine personnel (e.g., doctors, physiotherapists), sport scientists (e.g., psychologists, physiologists, biomechanists, nutritionists), and various other support staff and individuals working for the organization (e.g., performance lifestyle advisors, strength and conditioning coaches, performance analysts, performance knowledge specialists, performance directors, and performance leads). The widespread emergence of and considerable contemporary investment in this “team behind the team” demonstrates the value of such personnel (Wagstaff et al., 2015). As an illustration, the English Institute of Sport (EIS) currently employ over 350 members of staff who are tasked with delivering services that can help sports to improve the performance and wellbeing of their athletes (EIS, 2016). Given the growth of sport science and management staff in elite sport, it seems surprising that there are no studies published on their organizational stress experiences. It is worth noting, however, that there have been studies conducted to examine such staff members’ experiences of multidisciplinary work (Malcolm & Scott, 2011; Reid, Stewart & Thorne, 2004) and organizational change (Larner, Wagstaff, Thelwell & Corbett, 2017;

The rationale for studying these organizational stress encounters, however, is that, similar to the previously studied roles of coaches and psychologists, these personnel can be considered performers in their own right given their roles in supporting athletes often within highly pressurized contexts. To further support the “performer” label, psychologists have reported working with broader sport science and management staff (Arnold & Sarkar, 2015; see also Hings et al., 2017) to help them with issues similar to those athletes and coaches report (e.g., emotional control, interpersonal relationships etc). Thus, since the sports environment has proved to be a hotbed for organizational stressors in athletes, coaches, and psychologists, it is likely that broader support personnel will also encounter such demands; however, no investigation to date has been conducted on the stress experiences of these groups. This, therefore, provides a fruitful line of future research enquiry. Such investigation will provide a clearer understanding of the challenges that sport science and management staff face within their roles and, in doing so, raise employers’ (e.g., National Governing Bodies, Sports Clubs, National Institutes of Sport) awareness of their duty of care to employees and offer practitioners valuable insight into the educational and support needs of such staff. The first purpose of this study, therefore, is to explore the organizational stressors encountered by sport science and management staff in elite sport. Additionally, given the role that such staff can play in athletic and organizational success (cf. Fletcher & Wagstaff, 2009; Gould, Greenleaf, Guinan, Dieffenbach, & McCann, 2001), the second purpose of this study, in line with the meta-model (Fletcher et al., 2006), is to explore the consequences of the organizational stressors they encounter.

**Methods**

**Participants**

40 support personnel currently working in elite sport participated in this study.
Specifically, participants represented a variety of sport science and management roles, including performance directors and leads (n = 12), strength and conditioning coaches (n = 15), sports scientists (n = 2), and physiotherapists (n = 11). 33 participants were male and 7 were female, with the sample ranging in age from 25-54 years ($M = 34.58, SD = 7.10$). The participants had been working in elite sport for between two and 25 years ($M = 9.43, SD = 5.83$) and were currently providing support at the elite level in various sports (e.g., Athletics, Cricket, Cycling, Football, Rugby Union, Tennis, Triathlon).

**Procedure**

After receiving institutional ethical approval, personnel working in support roles in elite sport were contacted. Such contact details were drew from the research teams’ networks of sporting contacts (e.g., through University placement year contacts), as well as conducting online searches of elite sporting organizations’ websites. This initial communication informed them about the study, their ethical rights (e.g., anonymity, right to withdraw), and invited them to participate. Those individuals who were happy to partake were emailed to arrange a convenient date, time, and location for an interview. The interviews, which were conducted either face-to-face (n = 20) or over Skype™ (n = 20), took a semi-structured format. Whilst Skype™ interviews may lack the advantages of physical interactions (cf. Sparkes & Smith, 2014), they can provide greater anonymity and, in doing so, increase participants’ willingness to share information. All authors were involved in conducting the interviews, after receiving appropriate training. An interview guide was used for each interview; however, the ordering and probing of questions was determined by the flow of each conversation. All interviews were digitally recorded and transcribed verbatim. The interviews ranged in duration from 33 to 106 minutes ($M = 83.28$ minutes, $SD = 15.61$).

**Interview Guide**

A six-section interview guide was developed for this study. Section 1 reminded participants about the purpose and background of the study as well as their ethical rights.
Section 2 was an opportunity to confirm participant understanding of the study before providing written informed consent. Following this, Section 3 involved introductory questions to build rapport between the interviewer and interviewee and to learn more about them (e.g., How has your journey developed from setting out in your occupation to where you are now? Did you previously compete in sport yourself?) In Section 4, participants were provided with a definition of organizational stressors (Fletcher et al., 2006) and asked to reflect on any they encountered within their role that placed a demand on them. To assist with this participants were asked questions such as “Can you talk me through a general weekday in your position?” “Can you tell me about the main roles and responsibilities in your job?” “Who do you interact with in your role?” “Do you work as part of a team?” As the participant was responding to the questions, the interviewer probed to see where any demands were being placed on individuals (e.g., “Does this place any demand on you?”) and made a note of the stressors being mentioned. This list was then used to inform Section 5 of the interview, whereby participants were asked about the consequences of the organizational stressors in general, rather than the consequences of any specific organizational stressors (e.g., “What effect did the stressors have on you?” “Did the stressors have any consequences for you?”) Finally, in Section 6 participants were asked if they had any further points they wanted to raise and also how they would evaluate the efficacy of the interview (e.g., “How did you feel the interview went?”)

Data Analysis

A thematic analysis, following Braun and Clarke’s (2006) six-step process, was chosen to explore the organizational stressors encountered by the sport science and management staff and the consequences of these demands. Firstly, this involved all the authors transcribing the data (i.e. each transcribing the interviews they had conducted) in a consistent format and then the lead author reading and re-reading the transcripts and noting down initial ideas. At this stage, the lead author liaised with the author who had conducted each specific interview to discuss the initial ideas identified. Secondly, working through the entire data set, initial codes
were created for interesting features of the data by the lead author, before she collated together
data extracts within each code\(^1\) (see Figures for example codes). In step three, codes were
collated into potential lower-order themes, then combined and categorized as higher-order
themes, and subsequently pieced together into appropriate general dimensions. Illustrative
examples of the links between codes, lower-order themes, higher-order themes, and general
dimensions in this specific study can be seen in Figures 1 and 2. Step three was done separately
for the stressors and the consequences of these demands.

Themes were then reviewed in step four by all authors, which took the form of a group
meeting where each general dimension was taken in turn and the themes and codes within it
were discussed to ensure they were optimally structured and appropriate to the dimension. A
further discussion occurred between the author and a colleague (acting as a ‘critical friend’;
Watt, 2007) which took the form of a critical dialogue whereby both parties voiced their
interpretations to the other, who listened and provided critical feedback. In the fifth step, the
lead author named the themes and dimensions, before bringing the suggestions to a further
group discussion. Some minor modifications were made to the labels at this stage to best
reflect the interview narratives and the data. For example, the lower-order theme “technology”
was labelled “technology and data” during these discussions to optimally reflect the codes
relating to data emerging from technology within this lower order theme and the emphasis
placed on this stressor by participants in the interviews. In terms of the approach to the
reasoning around the data analysis, whilst this was primarily dominated by inductive
procedures, abductive and deductive reasoning also played a partial role in the later stages to
assist with the theme and dimension labelling. This approach is common in qualitative
research, with Gibbs (2007) noting: “it is very hard for analysts to eliminate completely all
prior frameworks . . . inevitably qualitative analysis is guided and framed by pre-existing ideas
and concepts” (p. 45). The results section of the manuscript was produced in step six, which
displays the thematic representation of the data with accompanying quotes to further illustrate
the participants’ organizational stressor experiences. Finally, a frequency analysis was conducted to illustrate the number of codes within each lower-order theme (Neuendorf, 2002). Importantly, however, the formation of themes was not dependent on this frequency count, but rather each theme’s capacity to represent the co-negotiated knowledge in the interviews.

Rigor and Trustworthiness

Scholars have suggested that a selection of criteria should be used to evaluate the quality of qualitative research, since certain criteria are likely to change over time and conditions (Sparkes & Smith, 2009). In this study, authenticity was enhanced by using the processes of a ‘critical friend’ (see Data Analysis Section). Importantly, this process did not aim to achieve consensus; rather the process was adopted to challenge each other’s construction of knowledge and encourage reflexivity (Cowan & Taylor, 2016; Smith & McGannon, 2017). In addition, credibility and rigor (cf. Potter & Hepburn, 2005) were pursued by interviewing knowledgeable sport science and management staff from elite sport who had first-hand experience of operating in these roles, using the same interview guide with all participants (see Interview Guide Section), and reporting the procedures in a comprehensive methods section. Finally, the study aimed to achieve methodological integrity via its two constituents: fidelity and utility (Levitt, Moyulsky, Wertz, Morrow, & Ponterotto, 2017; Smith & McGannon, 2017). To elaborate, integrity has been demonstrated through the research design and procedures (e.g., interviews, thematic analysis) supporting the goals of this research (i.e. to explore the organizational stressors encountered and their consequences); respecting the researchers’ approach to inquiry (i.e. that the phenomena under study is socially constructed and interviews explore lived experiences) and being tailored to the fundamental characteristics of the subject matter and investigators (e.g., insightfulness of participants). Fidelity to the subject matter was captured through the thick descriptions of the lived experiences provided by participants (and illustrated in the quotes displayed), many of which illustrate internal experiences of participants which would have been difficult to observe. Turning to utility, this
was demonstrated through effectively recruiting and interviewing the sample of sport science and management staff to achieve the aims of the study. To elaborate, a sample of sport science and management personnel who had current experience of working in elite sport were recruited and interviewed with questions asked about any stressors they encountered within their role that placed a demand on them, all to help achieve the goal of this study which was to produce findings which provide a meaningful contribution to the understanding of their organizational stress experiences.

Results

405 raw data codes emerged from the thematic analysis, which were separated into 36 lower-order themes and 6 higher-order themes (see Figures 1-2). The higher-order themes were then separated into two general dimensions: The Organizational Stressors Encountered By The “Team Behind The Team” (see Figure 1) and The Consequences of Organizational Stressors for The “Team Behind The Team” (see Figure 2). The organizational stressors encountered consisted of four higher-order themes: relationship and interpersonal issues, physical resource issues, contractual and performance development issues, and organizational structure and logistical issues (see Figure 1). The consequences general dimension consisted of two higher-order themes: emotions and outcomes (see Figure 2). Emotions included lower-order themes of anger, frustration, and anxiety; whereas outcomes included ten lower-order themes: cognitions and beliefs, feelings, well-being, job performance, athlete performances and readiness, work-life balance, family and social life, personal care and finance, personal development, and club/organization development. Whilst these two general dimensions are shown separately on the figures, the two will be presented in an integrated manner in the results section to allow for coherence.

Relationship and Interpersonal Issues

This higher-order theme consisted of seven lower-order themes. These were: leaders and owners, coaches, athletes, colleagues, media, communication and feedback, and
expectations and accountability (see Figure 1). With regards to leaders and owners, the participants spoke about demands relating to their decision making, philosophies, focus, leadership and management styles, and the relationships they had with them. Turning to the coaches, who the participants typically worked with more closely than owners, whilst the aforementioned leader demands were mentioned, the participants additionally recalled stressors relating to coaches’ lack of experience, differing opinions and aims, questioning of work, hesitation to buy into what the participants were doing, and expectation that all would conform to their way. The following quote illustrates the organizational demand placed on support staff when the coach doesn’t value their expertise:

The coach is very autocratic and wants me to provide the service that he wants. He doesn’t really care about my opinion because he knows best, he has tried it all before. Sometimes he will put me on the spot but no matter what answer I give, he will shun my opinion. My job is to influence the coaches, so when he shuns my opinion even when I know the science behind it is completely sound, that can be quite stressful. (Participant 2)

For many of the participants interviewed, their primary role was to support the athletes within their sport. It comes as no surprise, therefore, that a number of stressors were identified linked to working with the athletes themselves. Specifically, these included athletes’ personalities, decision making, and a range of behaviors (e.g., not complying with rehabilitation plans, not acting professionally). A particular behavioral stressor that was frequently cited by participants was athletes not working hard enough, as the follow quote exemplifies:

We’ve got a player at the moment who has an ankle injury. There’s no medical reason why it shouldn’t be getting better, but it isn’t. But he’s one of these players who is really happy to coast. Happy to drift. We’ve come to the conclusion as support staff that he’s not playing, he’s getting paid, he’s not training, he is just
having an easy time, doing a bit of rehab, going into the pool and then he is off at the end of the season. So it suits him down to the ground to not work hard and roll it out as much as possible. But that piles the pressure onto me, because it makes me look like I am not doing my job because I’m not getting him fit and nothing is changing. (Participant 31)

Stressors were also cited relating to the other colleagues that participants worked with (e.g., strength and conditioning coaches, physiotherapists, sport scientists, performance directors, psychologists). Example stressors recalled were associated with their colleagues’ personalities (e.g., lack of openness, negativity), behaviors (e.g., minimal empathy shown, lack of responsibility taken for mistakes), skills (e.g., no planning ability) and relationship with participants (e.g., conflict, disagreements). The following quote illustrates a stressor encountered by participants whereby their colleagues have different priorities to themselves:

As physios we are a little bit different. The S&Cs come from a performance angle whereas we come from a welfare angle. We have to keep in mind that performance is a bigger thing for the other coaches in the system. So for the good of the player, you have to dig your heels in sometimes. I’ve had that almost on a weekly basis where they are so desperate for a player to be in a session and they are just not ready. (Participant 29)

The media also created stressors for sport science and management staff, by their high level of scrutiny and the judgments and comments that they make. The following quote outlines some of these organizational stressors relating to the media:

Often, by the time the information has reached the media it has been lost in translation. That can lead to an inaccurate portrayal of what is really going on from a medical point of view, which can place a demand on us. Due to confidentiality and medical law, we have to be quite vague and that can be portrayed as us, frustratingly, looking like we don’t know what is going on; instead we just don’t
want to break confidentiality. (Participant 28)

The communication and feedback lower-order theme included many demands relating to problems with the communication or feedback itself (e.g., a lack of it, broken down, conflicting, or not feeling listened to). Additionally, stressors also emerged relating to communicating in particular circumstances (i.e. difficulties when organization is located nation- or world-wide) or with an over-emphasis on certain types (e.g., email preferred over face-to-face).

The final lower-order theme represented the various expectations placed upon the sport science and management staff. Not only did these come from a range of different personnel (e.g., athletes, coaches, colleagues, funders, agents, and the national governing body) but they were also wide ranging in nature. Indeed, example expectations recalled were to perform and provide the best possible service every day, to have a presence on social media, to offer quick answers to identified problems, to advise beyond specialty, and to constantly be searching for an innovative competitive advantage.

**Example outcomes.** In addition to the stressors encountered, the results also illustrate the consequences organizational stressors can have for sport science and management staff (see Figure 2). One consequence of the demands can be on their cognitions and beliefs. Specifically, participants reported that organizational stressors could create a constant personal questioning of their role and job, and impair belief in their levels of confidence. Moreover, participants spoke about the negative effect of organizational stressors on their overall mental health and well-being. The following quote illustrates feelings of depression and suffocation that result from the stressor of differences in colleagues’ philosophies:

If you take a team or department and you want to go forwards with something, then you all have to be on the same page. If you’re not, things become very difficult and you don’t work to your best levels because you become frustrated that one person isn’t pulling in the same direction. And what happens with that
situation is like wildfire, because you are all talking about that thing on a regular basis and you are then sitting in a situation where you can’t see the end of the tunnel, and every day becomes dark because you are getting the same s**t all the time and you can’t f*****g change it, you can’t even step outside the box. And it feels like everything is trapped if you know what I mean, it’s in a vacuum and you can’t get out, it’s depressing and suffocating. (Participant 9)

The sport science and management staff also reflected on the feelings of demotivation and a lack of desire to persist that could occur when encountering organizational demands. In addition, the organizational stressors could also have consequences for individuals’ physical health, with several participants referring to them creating tiredness, fatigue, and burnout symptoms. Turning from motivation and health to emotions, the following quote provides an example of the negative emotion of frustration displayed in response to the demand of organizational communication:

So when the organization went through a restructure with lots of new recruitments, the communication was appalling. Not being communicated to properly was a huge frustration for me, all of that organizational rubbish that goes on is really. (Participant 1)

**Physical Resource Issues**

This higher-order theme consisted of four lower-order themes. These were: facilities, equipment, technology and data, and safety (see Figure 1). Taking first the facility stressors identified, these typically related to either their quality or accessibility. An example stressor identified by various participants was having to share facilities with others:

The facility here is difficult to work in. You share it with a massive student body who are obviously as equally entitled to use it as we are, so I couldn’t just walk into the gym and do exactly what I wanted knowing it was going to be empty . . . . So that adds another layer of organization to any session and again it’s just
another distraction from my role of actually training athletes. (Participant 15)

Turning to the equipment lower-order theme, stressors identified included restrictions on what equipment was available and the difficulties transporting it both to training sessions and when travelling with the sport. A number of stressors were also recalled about the technology that the staff were using. Specifically, they discussed stressors associated with identifying which of the various emerging technologies would be best for them, the technology itself (e.g., online only records system, slow and not user-friendly), and also stressors linked to how technology was used. To elaborate on the latter, the staff described how they were expected to collect a large amount of data from players but then had stressors associated with how to best manage that data and turn it around in a short amount of time for coaches and other stakeholders to view, as the following quote demonstrates:

The technology can produce a lot of data, and the more there is of it, the harder it is to manage it, store it, interpret it, and feed it back. The coach will often want the data back as soon as possible so this can place a huge demand on us. Some will often question us around why we are collecting it, so that can put pressure on us because we have to produce a clear, concise, accurate, and quick interpretation so they can see the value in it all. (Participant 33)

The most frequently noted code, however, within this lower-order theme of physical resource issues was the stressor of technology failing or breaking, as the below quote indicates:

We use [Name of technology] to do all of our notes, which is a pain in the a** because it always crashes. So you can be halfway through writing up all your notes for one of the boys, and it will just freeze and you lose it all, and you have to start again. And that is probably the biggest stress of my life. (Participant 2)

Finally, some participants reported stressors relating to a perceived lack of personal safety and risk of physical injury when conducting certain sessions for athletes.

**Example outcomes.** Despite the majority of the outcome themes highlighting the
negative consequences that organizational stressors could have, two participants reflected on
the positive outcomes of the demands both for them and the broader organization. The quote
from one of those participants illustrates this at both of these levels:

So there is the constant expectation on you to be the best in everything you do. So
you are always pursuing the best treatments, the best equipment, the best methods
to do that. Constantly trying to develop and stay ahead of the game, to keep driving
forwards. But that’s not a bad pressure, in that it’s something that helps you
develop and helps enhance what you do, and enhance what the club is, and
hopefully leads to the club success at the end. (Participant 30)

Contractual and Performance Development Issues.

This higher-order theme consisted of five lower-order themes. These were: workload
and hours, finances and pay, job security, performance measurement, and career and
development (see Figure 1). Workload and hours were commonly cited as stressors by
participants. Specifically, they spoke about having too much work, being required to work
antisocial hours and days, and being expected to be available 24/7. The most frequently cited
code in this lower-order theme was the expectation to work for a long time, often with few
days off:

I went through three months without a day off – I was averaging 10 hour days,
seven days a week, so 70 hour weeks for three months. Sunday might have only
been four hours, but many of the days in the week have been 12 hours. (Participant
14)

Linked to workload and hours, many participants also spoke about how they felt they
were not paid enough for the work they were doing. Other finance and pay stressors reported
by the sport science and management staff were a lack of finances for necessary positions in
the organization, treating athletes, and being able to conduct the role optimally. Most
participants agreed that the lack of job security in elite sport was a stressor for them, with the
“cut-throat” elite sport industry placing intense pressure on them to not lose their job. Some participants suggested that a stressor they encountered was their performance measurement, which was based primarily on how athletes were performing and improving, rather than more proximal markers of their own work:

So professional sport is really all about the performance. As support staff, we can do all we can to prepare the athletes but then ultimately whether we win or lose is in their [athletes’] hands. And that can create quite a pressure on us because if they don’t perform, that reflects really badly on us even though it’s completely out of our hands and is their performance not ours. We are just a spectator in it all by that stage. (Participant 31)

The final lower-order theme, career and development, included stressors encountered at the start of the role (e.g., poor handover and induction) as well as continual pressures to stay abreast of any new rules and regulations in the sport and emerging research studies which might be informative for their role. An additional career and development stressor was the pressure to engage in lots of professional development, even if this took time away from the job:

In a high pressured, high performance environment you have to deliver medals and results because that’s what the money is there for. At the same time we are getting excessive pressure from our employer to do bits and pieces [of development], go off and do a course, or do this conference. We certainly get driven hard to develop ourselves. So they are wanting our time for things that we see as not necessarily going to win a medal. (Participant 6)

Example outcomes. The largest number of codes within the consequences dimension was for job performance. Most of the participants agreed that organizational stressors had, at some point, had negative consequences for their job performance. In addition, the sport science and management staff recalled specific instances where the organizational demands had
effected particular components of their performance. One example was the consequence of reduced working pace and capacity, and the following extract illustrates an instance of a participant rushing a job because of workload pressures:

There was this one case where my workload definitely made me rush a job. So I was writing a program for a rehab-ing athlete and I was supposed to be seeing her at 6 o clock at night, I wrote the program at 5.30. It was the kind of job that I should have done at the start of the day but it was one of those days where there is just too much to do. What I put on the program didn’t sit in line with the restrictions on her training, in other words she shouldn’t have been doing what I set. This created a bit of a rift with her because we knocked her back probably two or three weeks with what I programmed, with what I rushed and cut corners with.

(Participant 7)

The participants also described situations where the demands associated with their organization had effected the content and process of their delivery (e.g., not delivering what was expected or not feeling prepared). Organizational stressors also influenced the quality of work delivered (e.g., making mistakes). In addition to organizational stressors having negative consequences on their own job performances, several of the staff described times where the demands they encountered had, ultimately, had negative consequences for player performances and their readiness to train and compete.

**Organizational Structure and Logistical Issues.**

This higher-order theme consisted of six lower-order themes. These were: organizational processes and set-up, organizational culture, vision and goals, roles, travel and accommodation, and sports rules and scheduling (see Figure 1). Firstly, participants spoke about organizational processes and set-up stressors associated with the various layers of their sporting organization and its hierarchy. Additional stressors in this lower-order theme related to where staff and athletes were physically based, the amount of contact time with athletes, and
problematic organizational processes (e.g., too slow organizational decision making, too much paper work). Also within the organization, participants agreed that the culture was a stressor for them. The exact stressors associated with the culture differed amongst participants, however, example stressors included a blame culture, a culture where an extra 1% was always being sought, and a male dominated culture. The first of these types of culture stressors (i.e. a blame culture) is illustrated in the first quote below and the latter culture stressor (i.e. a male dominated culture) is illustrated in the second quote:

In some organizations I have worked in, when performance doesn’t go as billed, everyone is looking for someone else to pin the blame on. If the coach is under the pump, then he needs an outlet and that will often be us. So because they have already copped it from a skills perspective, then it’s like ok they were not fit enough which of course is putting us under pressure and blaming us for the performance. (Participant 32)

There are a lot of alpha males in the world of sport. Take [Name of Sport], I’m the only female in the support team so it’s a very male dominated environment and sometimes you have to take a few comments here and there and just ignore it. That’s me just trying to fit into the culture. It tends to be just harmless, there has only been one situation where I was not comfortable with the treatment I guess. I informally mentioned it to a colleague, but we were going into the [Name of Host City] Olympics so taking it further wouldn’t lead to anything else but friction in the team, so I left it. (Participant 40)

Moreover, the participants spoke of how the culture was determined by the current head coach or recent athletic performances. A final stressor in this lower-order theme concerned times in which the participants’ organizational culture had remained stagnant:

The sport is definitely renowned for being stuck in its ways. We are hugely successful as a team and with that comes a resistance to change, so there is very
much a mentality of why would we want to change a winning formula? What is
that change going to add? Why are we overcomplicating it? There’s quite a few
older people in the team who are resistant to change, so yes there is a culture of
success but there is also a culture which is quite stuck in its ways and resistant to
change. (Participant 11)

Turning to vision and goals, stressors included process goals not being appreciated by
the top levels in the organization or by external bodies. Additionally, the participants spoke of
the demands associated with being expected to be able to correctly predict medals that would
be achieved in the future. The roles that the sport science and management staff had were also
reported to be a stressor for them. Specifically, role-related stressors included a lack of role
clarity, new or changing roles, role overload, uncertainty, and overlap. Furthermore, factors
impacting roles were also identified stressors for participants (e.g., lack of training to do role,
sports rules influencing role delivery).

A main role for many of the staff interviewed was to travel with the athletes and team
they were supporting. The amount of travel required was identified as a stressor by many
participants, and there were also stressors recalled around the making of travel arrangements
(e.g., finances restricting travel plans, baggage not booked for equipment, having to make
own arrangements) and the travel itself (e.g., lack of space to work in when travelling, lack of
English language translator when abroad, poor accommodation). The follow quote illustrates
some of the stressors associated with travelling in the role:

Travelling to foreign countries can be a stressor because it is often cultures you
and the athletes are not used to and therefore this brings in things like hygiene,
also what food can you eat, can you drink the tap water, washing your hands, all
those sort of things. It can often be entering into the unknown so you are trying to
figure it all out as soon as possible and then communicate that around. (Participant
33)
The final lower-order theme included stressors associated with the competition schedule, whether that be changes to it or the short time available between games, as well as the demand of rules (e.g., changing the way that work can be done, and pressure to fully understand and adhere to them).

**Potential outcomes.** The following quote illustrates the anger that a participant expressed in response to a role-related demand:

> The nature of our environment is that things can move very quickly and that can mean that some colleagues don’t fully do their role, things don’t get done because they don’t act fast enough. When that happens, it really irritates me sometimes to the extent that I might get so angry that I have to go to the corner and scream.

( Participant 10)

An outcome of the demands relating to the amount of travel required was a lack of work-life balance. Indeed, participants agreed that working as a member of the sport science and management staff in elite sport often meant that you spent much more time at work than you did at home, as the following quote illustrates:

> It’s absolutely terrible in [Name of sporting league]. You feel like a visitor in your own house for the season. You just long to go home. And even then when you are home you are usually working or just thinking about work. It’s certainly not a job that you can just do in office hours or on weekdays. (Participant 35)

Linked to being at work more than at home, the participants discussed the negative consequences that the workplace pressures could have for their family time, relationships, and social life; with many sacrifices having to be made. Some participants also described the detrimental outcomes the organizational demands could create for their own personal care (e.g., health, nutrition, exercise) and finances.

**Discussion**

In response to the growing demands for success in elite sport (cf. Wagstaff, 2017),
many sporting organizations have enhanced the size and sophistication of their teams of personnel employed to help athletes seek a competitive advantage (see Wagstaff et al., 2015; 2016: Gilmore, Wagstaff, & Jones, 2017). While extant literature can inform understanding of the demands that athletes encounter as a result of the changing organizational face of elite sport (see, for a review, Arnold & Fletcher, 2012), we know little about the organizational stress experiences of the sport science and management staff beyond those of coaches and psychologists. Given the proximal position that these staff hold in facilitating athletic success, such knowledge would be critical to ensure they are optimally supported by their employers and sport psychologists. The purpose of this study, therefore was to explore the organizational stressors encountered by sport science and management staff in elite sport and the consequences of such demands. The results illustrate four main themes of stressors that such staff in elite sport encounter (viz. relationship and interpersonal, physical resource, contractual and performance development, organizational structure and logistical issues) and two main themes of the consequences such stressors can have (viz. emotions and outcomes). Building on extant literature and theory, this study not only moves the primary focus beyond athletes’ organizational stress experiences to that of the broader sport science and management staff in elite sport, but it also heralds a significant shift from work conducted with some support staff to date (e.g., coaches, psychologists) which has primarily investigated the first stage of the transactional theory of stress (i.e. stressors) to additionally exploring the emotions and outcomes that such demands can elicit.

The findings of this study revealed that the sport science and management staff in elite sport encounter a range of relationship and interpersonal stressors. These demands relate to both the various stakeholders that the staff work with (e.g., leaders and owners, coaches, athletes, colleagues, media) and factors inherent to such interactions (e.g., communication, feedback, expectations). A similar demand was noted in Fletcher et al.’s (2011) study exploring the stress experiences of sport psychologists. Specifically, stressors were identified relating to
the quality of relationships that a sport psychologist experiences within his or her workplace, with particular emphasis on others’ personality types and a lack of social support. Therefore, in relation to extant literature, the emergence of this higher-order theme in the present study illustrates that relational stressors extend beyond existence in athletic, coaching, and psychological domains (cf. Arnold & Fletcher, 2012; Fletcher et al., 2011; Fletcher & Scott, 2010); hence, they also need to be optimally managed by those operating in supporting roles. This is not a surprising stressor for this population given the multidisciplinary nature of support teams in elite sport, whereby individuals function in distinct discipline roles; however, rely on regular and effective interactions to achieve shared performance goals. In light of these findings, it is imperative that organizations and practitioners provide opportunities for a varied sport science and management staff team to, like athletes, improve their cohesion and interpersonal skills. This may take the form of diversity management training (cf. Rothmann & Cooper, 2015) whereby interpersonal relationships among diverse groups are improved via i) raising awareness that differences exist, ii) focusing on how differences influence working together, and iii) identifying how differences can be used to enhance productivity. In addition, sport psychology practitioners might provide assistance to sport science and management staff with particular relational stressors, such as certain interactions (e.g., working with the media; Kristiansen, Abrahamsen, & Pederson, 2017) or specific interpersonal processes (e.g., managing expectations to work outside of professional expertise; Fletcher & Maher, 2013).

Turning to the physical resource stressors that the sport science and management staff in elite sport encounter, many of these were similar to those reported by athletes. Indeed, Arnold and Fletcher’s (2012) taxonomic classification similarly reported facilities, equipment, technology, and safety demands. The findings presented here, however, highlight the novel demands that can be triggered by the growing technologicalization of elite sport performance environments (cf. Wagstaff, 2017). Specifically, several participants reported stressors relating to the expectations around and usage of large amounts of data in sport. This can perhaps be
explained by the emerging and steadfast acceptance of embedding technology into elite sporting institutions (Williams & Manley, 2014). Such developments are not only having negative consequences for staff, but also can be problematic for athletes through their usage as a disciplinary power, the creation of a surveillance culture, and in the quantification of sport performers (Williams & Manley, 2014). As a result, sport psychologists are advised to work with elite sport organizations, sport science and management staff, and athletes to help manage the stressors emerging from large amounts of data. This could include setting clear data requirements and structures, helping to develop adaptive coping strategies, and improving the ways in which collected data is communicated to coaches and players (cf. Gaudioso, Turel, & Galimberti, 2017; Jin, Wah, Cheng, & Wang, 2015).

A main finding to emerge from this study was that the sport science and management staff in elite sport encounter contractual and performance development stressors. Although athletes have reported organizational stressors relating to their finances and career transitions (Arnold & Fletcher, 2012) and coaches have noted workload, career, and job security demands (Fletcher & Scott, 2010), the performance measurement stressor emerges as a novel stressor for sport science and management staff. Since this stressor is likely experienced by coaches as well (i.e. performance being judged on how athletes perform), it is important for organizations to consider the lessons that can be learnt from work and organizational psychology. Indeed, scholars in this domain identify that a performance appraisal conducted with an employee should have a wide range of criteria for evaluation (i.e. trait and behavioral criteria in addition to results/output), be based on a thorough job analysis, and pay attention to unique individual qualities and strengths (Rothmann & Cooper, 2015; van Woerkom & de Bruijn, 2016).

Additionally, to better assist sport science and management staff in elite sport with the job insecurity demands they encounter, occupational psychology research illustrates that practitioners can assist employees in developing proactive coping strategies (e.g., setting goals, planning, decision making), enhancing perceptions of control and self-efficacy, reducing role
conflict, and strengthening organizational communication (Dewe, O’ Driscoll, & Cooper, 2010; Keim, Pierce, Landis, & Earnest, 2014).

The final higher-order theme of stressors reported by the sport science and management staff in elite sport was organizational structure and logistical issues. A novel finding within this theme is that the organizational culture in elite sport is perceived by some staff as being male-dominated. Whilst there is an abundance of academic research on barriers to women and girls participating (see, e.g., Slater & Tiggerman, 2011) and coaching (see, e.g., Walker & Bopp, 2011) in sport, this is the first finding to highlight the necessity for scholars to examine if there is also a gender disparity in the wider support roles. If this is found to exist, it is recommended that sport organizations draw lessons from other domains, such as higher education, where there is a loss of women across the career pipeline. In this domain, initiatives have been developed (e.g., the Athena Swan Charter) to recognize the advancement of gender equality, which include representation, progression, and success for all individuals (Equality & Challenge Unit, 2017). Turning from the organization to a group and individual level, sport psychology practitioners can assist the sport science and management staff with identified climate and role-related issues by enhancing understanding of the strengths each individual can bring to work, and working with leaders and managers to support the allocation of tasks which suit members’ preferred styles and ensure a balanced portfolio of individual roles within the group (Rothmann & Cooper, 2015).

The findings of this study also highlight that organizational stressors can have various consequences for sport science and management staff in elite sport. Specifically, participants revealed times when the consequences of organizational demands were negative emotions (e.g., anger, frustration) and outcomes (e.g., job performance, mental health and well-being). Whilst the consequences of organizational stressors has not been previously examined from the perspective of sport science and management staff in elite sport research, various job-related strains have been studied in organizational psychology (see, for a review, Cooper, Dewe, &
O’Driscoll, 2001). A prevalent consequence of organizational stressors identified in the present study was that the outcome of organizational stressors on the participants’ broader lives. There are a number of ways in which psychologists can support individuals experiencing work-life conflict, such as enhancing social support, increasing personal control, and developing coping strategies (Cooper et al., 2001). Furthermore, it is suggested that sporting organizations play an active role in facilitating work-life balance in view of the positive impact it can have on employees’ health and well-being, productivity, job satisfaction, and organizational performance (cf. Beauregard & Henry, 2009; Haar, Russo, Suñé, & Malaterre, 2014). The emergence of two themes (e.g., personal and club/organization development) which highlight the positive consequences that organizational stressors can have for sport science and management staff in elite sport illustrates the important role of appraisal. Specifically, it is suggested that practitioners draw from the plethora of work on appraisals with athletes (see, e.g., Bartholomew et al., in press; Jones, Meijen, McCarthy, & Sheffield, 2009) and employees (see, e.g., van Steenbergen, Ellemers, Haslam, & Urlings, 2008) to help staff to enhance their challenge appraisals and minimize those of a more threatening nature when encountering organizational stressors in their role.

A main strength of this study was the participants recruited. Specifically, by interviewing 40 staff from various roles, this study was able to garner the first rich and detailed insight into the organizational stressors encountered by some sport science and management staff in elite sport as well as the consequences such demands could have. A limitation, however, was that not all sport science and management roles were represented and the sample only included a small number of females (n = 7) in comparison to males. Whilst this latter point may reflect the previously discussed gender disparity of females working in elite sport, future research should look to examine both genders’ experiences and if there are any similarities or differences between them. Additionally, future research should look to sample additional sport science and management personnel in elite sport (e.g., performance lifestyle...
advisors, team doctors) and examine if there are any differences in stressors encountered by those providing different types/levels of support in elite sport (e.g., proximal support versus support at an organizational level). A limitation of this study was the lack of information provided on the dimensions (e.g., frequency, intensity, duration) of the stressors encountered by sport science and management staff. Indeed, whilst Figures 1 and 2 illustrate the number of codes within each theme, they do not represent how often each code was mentioned or its severity for participants. To assess this in future studies, scholars should look to develop a multi-dimensional measure of the organizational stressors encountered by sport science and management staff. Indeed whilst an equivalent measure exists for athletes (Arnold et al., 2013), this study demonstrates that staff also encounter stressors that have not been previously reported by athletes. Once developed, this measure can be used to statistically examine the relationships between organizational stressors and the ways in which sport science and management staff appraise and cope with such demands, as well as the consequences they can have at both the individual (e.g., physiological/neurological markers of strain; cf. Tawakol et al., 2017) and organizational level (e.g., absenteeism, turnover; cf. Olafsen, Niemiec, Halvari, Deci, & Williams, 2017). Indeed, one identified limitation of this study was that it did not explicitly link all organizational stressors to consequences; thus, this would provide a fruitful line of future research inquiry. Developing such a measure will also be useful to inform organizational stress management interventions in elite sport organizations. When intervening, practitioners may draw lessons from organization development practices (Anderson, 2012; Rothmann & Cooper, 2015) where the aim is to improve the effectiveness of organizational systems and to develop the potential of individuals operating within them.

To conclude, this study has been the first to explore the organizational stressors encountered by broader sport science and management staff in elite sport and the consequences these demands can have. As sport psychology practitioners are increasingly being asked to
work with such staff in elite sport, the findings of this study can provide a clearer understanding of the challenges that such personnel face within their roles and, in doing so, offer valuable insight into their educational needs. Additionally, as many sporting organizations look to enhance the size and sophistication of their teams of personnel to help athletes seek a competitive advantage, the findings can raise employers’ awareness of their duty of care to employees and the factors that need to be managed given the proximal position the “team behind the team” hold in facilitating athletic and organizational success.
1
2 Whilst all of the participants in the current study are considered part of the “team behind the
3 team” in applied settings, it is acknowledged that these participants all operate at different
4 levels of an elite sport organization. For instance, whilst performance directors would not be
5 tasked with providing the same type/level of support as those operating more proximally to
6 athletes would (e.g., physiotherapists, sport scientists), they still play a crucial role in
7 supporting athletes by orchestrating, leading, and managing the program (and its various
8 components) that they operate within.
9
2 For a full copy of the raw data quotes and codes, please contact the corresponding author.
References


Qualitative Report, 12, 82-102.

Table 1. The organizational stressors encountered by the “team behind the team”.

<table>
<thead>
<tr>
<th>Example Codes</th>
<th>No of Codes</th>
<th>Lower-order Theme</th>
<th>Higher-order Theme</th>
</tr>
</thead>
<tbody>
<tr>
<td>“Being micro-managed by leader” “Owners questioning decisions”</td>
<td>14</td>
<td>Leaders and owners</td>
<td></td>
</tr>
<tr>
<td>“Coach unsupportive of my initiatives” “Autocratic coach”</td>
<td>35</td>
<td>Coaches</td>
<td></td>
</tr>
<tr>
<td>“Athlete lack of professionalism” “Athletes’ negativity”</td>
<td>28</td>
<td>Athletes</td>
<td></td>
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<tr>
<td>“Colleagues acting unprofessional” “Disagreement with colleague”</td>
<td>40</td>
<td>Colleagues</td>
<td></td>
</tr>
<tr>
<td>“Media blame staff after injury” “High level of media scrutiny”</td>
<td>8</td>
<td>Media</td>
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</tr>
<tr>
<td>“Broken down communication” “Email contact preferred over face to face”</td>
<td>27</td>
<td>Communication and feedback</td>
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</tr>
<tr>
<td>“Expectation to perform to highest level daily” “Expectation to have social media presence”</td>
<td>30</td>
<td>Expectations and accountability</td>
<td></td>
</tr>
<tr>
<td>“Having to share facilities” “Poor facilities”</td>
<td>8</td>
<td>Facilities</td>
<td></td>
</tr>
<tr>
<td>“Lack of equipment” “Having to transport equipment daily”</td>
<td>5</td>
<td>Equipment</td>
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<tr>
<td>“Technology breaking or failing” “Pressure to turn data around quickly”</td>
<td>24</td>
<td>Technology and data</td>
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</tr>
<tr>
<td>“Risk of personal injury in sessions” “Safety hazards in work environment”</td>
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<td>Safety</td>
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<tr>
<td>“Working long hours” “Too much work”</td>
<td>16</td>
<td>Workload and hours</td>
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<tr>
<td>“Not paid enough for amount done” “Lack of finances to conduct role optimally”</td>
<td>6</td>
<td>Finances and pay</td>
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<tr>
<td>“Lack of job security” “Work role uncertainty”</td>
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<td>Job security</td>
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</tr>
<tr>
<td>“Being judged on players’ performances” “Lack of individual KPIs”</td>
<td>2</td>
<td>Performance measurement</td>
<td></td>
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<tr>
<td>“Pressure to stay on top of new research areas whilst doing job” “Poor handover and induction”</td>
<td>6</td>
<td>Career and development</td>
<td></td>
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<tr>
<td>“Too much paperwork” “Organization decision making too slow”</td>
<td>31</td>
<td>Organizational processes and set-up</td>
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<tr>
<td>“Male dominated culture” “Blame culture”</td>
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<td>Organizational culture</td>
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<td>“Top levels don’t appreciate process goals” “Expected to predict future medals”</td>
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<td>Vision and goals</td>
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<tr>
<td>“Lack of role clarity” “Role overlap”</td>
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<td>Roles</td>
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<td>“Not enough space to work in when travelling” “Too much travelling”</td>
<td>28</td>
<td>Travel and accommodation</td>
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<tr>
<td>“Rules changing the way work is done” “Changes to competition schedule”</td>
<td>4</td>
<td>Sports rules and scheduling</td>
<td></td>
</tr>
</tbody>
</table>
Figure 2. The consequences of organizational stressors for the “team behind the team”.

<table>
<thead>
<tr>
<th>Example Code</th>
<th>No of Codes</th>
<th>Lower-order Theme</th>
<th>Higher-order Theme</th>
</tr>
</thead>
<tbody>
<tr>
<td>“Angry response”</td>
<td>1</td>
<td>Anger</td>
<td></td>
</tr>
<tr>
<td>“Frustrated at work”</td>
<td>2</td>
<td>Frustration</td>
<td></td>
</tr>
<tr>
<td>“Feeling nervous”</td>
<td>2</td>
<td>Anxiety</td>
<td></td>
</tr>
<tr>
<td>“Constantly questioning job”</td>
<td>3</td>
<td>Cognitions and beliefs</td>
<td></td>
</tr>
<tr>
<td>“Depressed”</td>
<td>3</td>
<td>Mental health and well-being</td>
<td></td>
</tr>
<tr>
<td>“Feeling demotivated”</td>
<td>3</td>
<td>Motivation and persistence</td>
<td></td>
</tr>
<tr>
<td>“Fatigue”</td>
<td>3</td>
<td>Physical health</td>
<td></td>
</tr>
<tr>
<td>“Underprepared for sessions”</td>
<td>16</td>
<td>Job performance</td>
<td></td>
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<tr>
<td>“Impacted player performances”</td>
<td>4</td>
<td>Athlete performances and readiness</td>
<td></td>
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<tr>
<td>“Taking work home”</td>
<td>3</td>
<td>Work-life balance</td>
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<td>“Pressure on family time”</td>
<td>3</td>
<td>Family and social life</td>
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<tr>
<td>“Restricted time for personal care”</td>
<td>3</td>
<td>Personal care and finance</td>
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<td>“Helps you develop individually”</td>
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<td>Personal development</td>
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<td>“Contributes to club success”</td>
<td>1</td>
<td>Club/organization development</td>
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