1	RUNNING HEAD: Dual-career of elite youth athletes
2	
3	
4	
5	
6	Supporting adolescent athletes' dual careers: The role of an athlete's social support network
7	Camilla J. Knight ^{1,2} , Chris G. Harwood ³ & Paul Sellars ¹
8	¹ School of Sport and Exercise Sciences, Swansea University
9	² Welsh Institute of Performance Science, Wales, UK
10	³ School of Sport, Exercise and Health Sciences, Loughborough University
11	
12	Date of Acceptance: 18 th June 2018
13	
14	Acknowledgements: We gratefully acknowledge the funding received from the International
15	Olympic Committee Advanced Research Programme to support this project.
16	
17	Authors Note: Since the completion of this study, Paul Sellars has subsequently moved to
18	Cardiff School of Sport, Cardiff Metropolitan University.
19	
20	This is the final draft of the manuscript accepted for publication in the Psychology of Sport
21	and Exercise, and copyright is retained by the journal publishers. Once published the final
22	draft of the manuscript will be available from https://www.journals.elsevier.com/psychology
23	of-sport-and-exercise
24	
25	

27	Objectives: The objectives of this study were to, (a) understand the role of the social support			
28	network in facilitating a dual career in sport and education, and; (b) gain insights into the			
29	factors that may optimize the provision of such support.			
30	Design: A two-stage qualitative study.			
31	Method: In stage one, four different sport and education settings in the UK were examined: A			
32	tennis academy, a football academy, a national field hockey squad, and a high-performance			
33	swimming squad. Interviews were conducted with two athletes and associated significant			
34	others from each setting. In stage two, nine current or former international athletes from a			
35	variety of sports and countries recalled their experiences of managing a dual career. Analysis			
36	was conducted following the procedures outlined by Miles, Huberman, and Saldaña (2014).			
37	Results: Overall, athletes in stage one and two perceived that to maintain their dual careers,			
38	they were heavily dependent upon the support of significant others. The role of the support			
39	network was to recognize the demands of a dual career, anticipate problems, value education,			
40	minimize barriers, and create autonomy-supportive environments. Key factors to optimize			
41	such support were focusing on the whole person, providing integrated support, and fostering a			
42	culture that promotes continuing education.			
43	Conclusions: Results indicate that athletes require particular types of support within their			
44	home, at school, and in their sport context to be able to manage their dual career. However, a			
45	range of individual and group-level factors may influence the extent to which such support is			
46	available to athletes.			
47				
48	Key Words: Dual Career, Sport, Education, Adolescence, Social Support			
49				

Abstract

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

Over the past decade, there has been a growth in research examining the dual careers (i.e., combined sporting and vocational/schooling careers) of elite athletes (e.g., Debois, Ledon, & Wylleman, 2015; McCormack & Walseth, 2013; Ryba, Stambulova, Ronkainen, Bundgaard, & Selänne, 2015). The stimuli for such research has been the recognition of the individual and societal benefits that arise when athletes maintain their education or a vocational career while competing on the international stage (cf., European Commission 2007, 2011). Research has identified that athletes who gain academic qualifications are better prepared to manage transitions, cope with expected and unexpected exits from sport, and have the potential to make a positive contribution to the workforce beyond sport (Torregrosa Ramis, Pallarés, Azócar, & Selva, 2015). Additionally, many athletes are unable to maintain a living from their sport career earnings for an extended period of time (cf., McCormack & Walseth, 2013), so ensuring athletes can start a "second career" when they retire is necessary. Athletes usually demonstrate high levels of motivation for the maintenance of a dual career (Lupo et al., 2015). However, it can be a challenging proposition and one that is a concern for most high-performance athletes (Ryba et al., 2015). Such challenges arise because success in both elite sport and education/work require extensive time commitments (Ryan, 2015). Time commitments increase through childhood and particularly in adolescence as academic workload, along with training and competition load, increase rapidly (Borggrefe & Cachay, 2012). Consequently, maintaining a dual-career can result in fatigue, a loss of motivation, a lack of opportunities to participate in activities outside of sport or education, as well as athlete overload and increased injury risk (e.g., McCormack & Walseth, 2013). Despite the potential negative consequences outlined above, the impact of engaging in a dual career on athletes' actual sporting success appears equivocal (Henry, 2010). There has been some indication that the simultaneous engagement in sport and academia could result in a decrease in sporting performance and has been reported as a concern for some coaches

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

(Aquilina, 2013). However, there is also strong evidence demonstrating positive performance consequences (McCormack & Walseth, 2013). For example, Aquilina examined the sporting and educational experiences of elite adult performers from France, Finland, and the UK. Athletes highlighted numerous benefits from their dual career including: the belief the skills learnt in one setting were transferred to others; the balance of intellectual and physical stimulation, which increased motivation and commitment to both domains, and; feelings of security in their sport, which allowed athletes to perform better.

Recognising the difficulties associated with maintaining education while participating in elite sport, the European Commission and the International Olympic Committee (IOC) have acknowledged the need to research and promote policies regarding athletes' engagement in education (cf. Amara, Aquilina, Henry, & PMP, 2004; Aquilina & Henry, 2010). Such attention to understanding and developing sport and education policies is important to increase opportunities for adolescent and young adult athletes to succeed in academic and sporting domains. However, such a focus on policy and organisational factors associated is insufficient if we fail to concurrently understand the more proximal support athletes require. Aguilina (2013) explored the social support network university student-athletes utilized to manage their university and sport involvement. At the more distal levels, Aguilina highlighted the role of the European Union and the International Olympic Committee, elite training centres, NGBs, the state, researchers, and medical staff in supporting student-athletes. At the most proximal level, the need for support from academic staff, clubs, peers, coaches, and family were highlighted. Such findings have been supported across many studies of athletes engaged in tertiary (i.e., university) education (e.g., Brown et al., 2015; Carless & Douglas, 2009) and together provide extensive insights into the lives of university student-athletes.

In contrast, our understanding of the support needed by talented adolescent athletes to maintain their dual career before they reach university has received scarce attention (cf.

Christensen & Sørensen, 2009). Some insights can be gained from recent studies examining successful talent development environments (e.g., Henriksen, Stambulova, & Roessler, 2010a, 2010b, 2011; Larsen, Alfermann, & Henriksen, 2013), which have highlighted the proximal support needs of prospective elite athletes. For instance, Larsen et al. (2013) examined the environmental characteristics of a successful under-17 male soccer team. Most pertinent for the current study, the players perceived that maintaining a dual career was particularly demanding. Players indicated being largely dependent upon tangible and informational support provided by their school, as well as regular communication between the club, the school, and their parents to manage school and training demands. Clearly, given the complexity associated with a dual career, specific examination of this area is warranted to ensure that athletes receive optimal support.

Particularly, there is a specific need to understand what support is required for mid to late-adolescent athletes because, from the ages of 15/16 to 18 years, athletes encounter a critical time of life as they experience multiple demands and transitions, many of which are associated with athletes' engagement in dual careers (e.g., Stambulova, Engström, Franck, Linnér, & Lindal, 2015). As highlighted within the Holistic Athletic Career model, during mid-late adolescence athletes may be transitioning (or considering transitioning) from secondary to tertiary education, experiencing changes in their psychosocial support, and also potential changes in financial support (Wylleman, Reints, & De Knop, 2013). These changes may co-exist with elevated athletic demands and thus, mid-to-late adolescence is a time when support for a dual career is likely to be particularly important.

The need for such support has been illustrated in two recent studies of adolescent athletes (Baron-Thiene & Alfermann, 2015; Stambulova et al., 2014). For instance, Stambulova and colleagues (2014) examined the social and cultural influences on the dual career experiences of Swedish adolescent athletes at sport schools. Reinforcing the findings

from university studies, participants indicated that they searched for and relied on external support from their families, home coaches, and the staff at their school to manage the demands they encountered. However, the specific types of support athletes' desired and the ways in which such support was provided was not discussed. In fact, beyond knowing that support is required, we are unaware of what support is required from individuals surrounding athletes to enable them to successfully maintain a dual career.

If we are to create effective policies to facilitate athletes' dual careers, generate guidelines for organizations or clubs, or provide education to coaches, parents, teachers or athletes, we must generate clearer insights into the specific support needs for such adolescent athletes. To this end, the objectives of this study were to, (a) understand the role of the social support network in facilitating a dual career in sport and education, and; (b) gain insights into factors that help optimize the provision of such support.

137 Method

Methodology

To address the aforementioned research questions, a two-stage qualitative design was adopted. Such an approach was deemed appropriate for the current study as we sought to understand the experiences athletes and members of their social support networks have of providing and receiving support for a dual career. The study was positioned within the interpretivist paradigm, underpinned by ontological relativism and epistemological constructionism. That is, within this study, it was assumed that reality is multiple and subjective and that knowledge is socially constructed (Sparkes & Smith, 2014).

Stage one focused on understanding the support required from, and delivered by, members of adolescent athletes' support network across a variety of sports within the UK.

The focus on various sports was driven by a recognition that opportunities to combine education and training/competition vary across sports (Knight & Holt, 2011), that the motives

to maintain a dual career might be influenced by the potential to make a living from their sport (cf. Christensen & Sørensen, 2009), and the end of compulsory schooling might be particularly challenging (Wylleman & Lavallee, 2004). As such, stage one focused on athletes and members of their support network from four sports, which were selected based on: 1) Education and sport combination (traditional schooling; traditional school and academy provision; sport academy and online/home schooling); 2) Sport type (individual, traditional Olympic sport; team, traditional Olympic sport; individual, professional sport, team, professional sport), and; 3) Athletes' age (athletes aged 15-16 years, completing their GCSE¹ exams and athletes aged 16-18 years, currently completing higher education awards). The aim of such criteria was to achieve maximal variance between participants.

Having completed stage one, stage two sought to examine the extent to which the findings from adolescent participants in the UK aligned with, or could be corroborated by, elite athletes in different sports and countries who had achieved success in their sport while maintaining their education. Specifically, stage two sought to examine the adolescent dual-career experience of athletes who had achieved at the highest levels (e.g., competed at Olympic Games and World Championships) in their sport while also completing their school and/or university education (i.e., dual career attention). Such retrospective accounts were deemed valuable as they provided the perspective of athletes who had experience of succeeding in sport while studying, and as such were in a position to reflect on the long-term impact and value of the support they received as an adolescent athlete.

The Research Team

In line with an interpretivist paradigm, it is important to note the roles and experience of the research team. The first and second author were both responsible for developing the

¹ The General Certificate of Secondary Education (GCSE) is an academic qualification, generally taken in a number of subjects by pupils as their end their compulsory secondary education in England and Wales.

research idea and questions. The first author was also responsible for conducting some of the interviews in stage one, all of the interviews in stage two, and leading the data analysis and writing. The second author acted as a critical friend throughout analysis and writing and the third author conducted the majority of interviews in stage one.

When starting this study, the first author had approximately eight years of experience as a qualitative researcher within youth sport, with a specific focus on the role of parents. Further, she had approximately 15 years of experience of studying while competing in sport. The second author had over 20 years of experience as a youth sport researcher, with a particular focus on parents and coaches. He also had over 30 years of combining sport and education/work. Finally, the third author was a postgraduate student completing his MSc by Research and had experience of playing county and regional-level rugby union while completing his compulsory and higher education.

Stage one

Participants and Sampling. Aligned with the desire to sample a range of sport and schooling set-ups, four sporting set-ups were selected from which to sample participants: 1) A tennis academy, in which athletes complete their education and sport at one venue; academic work is provided through an online education system overseen by a tutor; 2) National field hockey squad in which athletes attend a regular school, access training and competition through local clubs and leagues, with monthly national training events and international competitions, 3) A high performance swimming squad comprising international swimmers, accessing education through the traditional school system and completing their training before and after the school day; and, 4) A football academy which caters for elite football players who complete their education through the traditional school system to the age of 16 years and study at the football academy from the ages of 16-18 years.

Within each sporting set-up two athletes, one aged 15/16 years completing their

compulsory education and one aged 17/18 years engaged in further education (e.g., 'A' Levels or BTEC study²), who were deemed to be successfully managing their dual career based on feedback from the head coach and/or manager were selected to participate. During the athlete interviews, each athlete was asked to visually and verbally identify the members of their support network they perceived to be particularly influential in their dual career. Such athlete-centered choices were deemed important so as to avoid any external presumptions or predetermination of significant others. Having identified the people they deemed to be influential, approval to contact them was gained from the athletes and then consent to participate was gained from the individuals themselves. All but two individuals (one footballer's mother and one teacher) agreed to participate. Table 1 provides detail on the participants from each sport and Table 2 provides the overall demographic information.

****Insert Table 1 around here ****

****Insert Table 2 around here *****

Procedure. On receipt of institutional ethical approval, appropriate venues from which to recruit participants were identified based upon the research team's knowledge of different sports and through conversations with sport scientist and performance lifestyle advisors. Having identified appropriate venues, approval was sought from the head coach to approach athletes deemed to be succeeding at managing a dual career. The athletes were approached and provided with an information sheet. Once athletes had responded, an appropriate time and location for an interview was identified. Prior to interviews, informed consent was received from the athletes and, where necessary, their parents.

Data collection. Data collection occurred through semi-structured interviews. The

² AS and A levels are the traditional qualifications offered by schools and colleges for 16-19 year olds. They generally focus on academic subjects, although some are work-related. AS levels are usually taken as the first part of an A level course, although they can be taken as a stand-alone qualification. BTEC (Business and Technology Education council) are specialist work-related qualifications that combine practical learning with theory content. They are usually conducted between the ages of 16 and 19 years.

interview guides for athletes and support network members were developed based on the previous literature on dual careers, transitions, and social support in youth sport (e.g., Aquilina, 2013). The interviews started by asking the participant to describe their involvement in sport/the athletes' sport and school. Next questions moved onto general perceptions of dual careers and the benefits and challenges associated with maintaining school and sport. The interviews then moved onto the main questions, asking the participants what support they required or provided to enable the athlete to maintain their dual career.

Penultimate questions focused on factors that may impact upon the support required or desired. Finally, the interviews ended with questions summarizing the key ideas identified earlier in the interview. Interviews ranged in length from 30 to 87 minutes (*M*=47 mins). **Data analysis.** All interviews were transcribed verbatim and then read and re-read by the first author to ensure immersion in the data. The transcripts from each participant from

the first author to ensure immersion in the data. The transcripts from each participant from each sport were read and each interview for each sport was then individually analyzed following the qualitative data analysis procedures recommended by Miles, Huberman, and Saldaña (2014). Analysis occurred in three stages. Firstly, descriptive codes (e.g., talking to athlete, structuring communication, making time for others) were allocated to the data to identify the raw data themes. Next interpretive codes, such as help timetabling and understanding demands, were generated. These codes group descriptive codes into more abstract concepts. Finally, pattern codes (e.g., understanding of the demands of a dual career, valuing education) were identified, which demonstrated relationships between the interpretive codes and provide an indication of the overarching ideas contained within each sport. A summary of the overall findings for each sport was then constructed, prior to comparing the codes across sports. Cross-sport analysis occurred by placing the pattern codes from each of the sports within data matrices to allow for systematic review of the data.

Stage Two

Participants. Nine elite (current or former) adult athletes from nine different countries (Australia, Bahrain, Croatia, Iran, New Zealand, Slovakia, South Africa, Switzerland, and the USA) participated in stage two. Two of the participants were still competing while the other seven had retired from their sport. Participants competed in swimming, shooting, pentathlon, sailing, alpine ski-racing, and badminton³, and all had attended at least one Olympic games or World Championships as well as European, All-African, and Commonwealth games. The participants had attended 12 Olympic Games and 24 World-Championships, amassing a total of seven gold medals, 13 silver medals, and five bronze medals across these championships.

All of the participants had completed their compulsory (secondary) education while competing, in one of three varieties of institutions: Four participants had attended a private school, two attended a sport school, and three had completed their schooling through the mainstream system in their country. While competing, six had also obtained a Bachelors degree, and two a Masters degree. Of the seven retired athletes, one was in full-time education and the other six were in full-time employment. Since retiring, two participants had completed a bachelor degree, one obtained a Masters degree, and one completed a PhD.

Procedure. Following the completion of phase one, phase two was carried out. Through communication with the International Olympic Committee, potential participants who had maintained a dual career while competing, achieved at the highest level in their sport, and were able to converse in English were identified. These individuals were sent an email outlining the study purpose and procedures, along with a consent form. Participants who were interested in taking part in the study then contacted the lead author who organized a suitable time for a Skype interview.

Data collection. Data were collected through semi-structured interviews. The interviews began with a brief overview of the purpose of the study as well as a review of important

³ In the results, Participant 1 = Sailor; Participant 2,5, 7, and 8 = Swimmers; Participant 3 = Shooting; Participant 4 = Heptathlon; Participant 6 = Badminton; Participant 9 = Skiing,

ethical considerations such as confidentiality and completion of the consent form. Participants were then asked to provide an overview of their training and school schedule throughout their adolescence and early adulthood, providing insights into their overall experiences of a dual career during this time. The majority of the interview then focused on how different members of their support network facilitated or detracted from their adolescent dual career and the identification of suggestions to enhance the support significant others provide to athletes.

Next participants were given a summary of the findings from stage one and asked to provide any insights into the similarities or differences with their experiences. Interviews ended with a review of the main areas covered and an opportunity for athletes to give further information.

On completion of the interview participants were sent a copy of the recommendations from stage one for comment. Interviews ranged in length from 72 to 126 minutes (*M*=88 mins).

Data analysis. Stage two data collection and analysis began following the completion of the analysis of stage one data. The data were analysed using the same process of identifying descriptive codes, interpretive codes, and pattern codes as adopted in stage one. The findings from stage two were then compared to those from stage one to enable the identification of similarities and differences between experiences. This facilitated the identification of any factors that may impact upon the support provided or required for adolescent athletes to maintain a dual career.

Methodological Rigor

It has been suggested that a relativist rather than criterion approach to judging the quality of qualitative research is appropriate (Sparkes & Smith, 2009). Aligned with this approach, we have drawn upon the nine suggestions of Smith and Caddick (2012) that we deemed appropriate for the current study. However, we recognize that these criteria are openended and subject to reinterpretation and encourage the reader to make their own judgments.

Specifically, we sought to produce a paper that provided a *substantive contribution* to the understanding of dual careers from the perspectives of athletes and members of their social support network. The justification for this is provided through the manuscript introduction. We perceive that through the use of extensive interviews in a novel area that this study will have *impact* by encouraging the generation of new research questions, as well as encouraging those working with athletes to seek to develop strategies to enhance the support they provide to young athletes engaged in a dual career. Through the use of pilot interviews, a two-stage study process, as well as the involvement of athletes and members of their social support network across a range of sporting and education set-ups, and the provision of numerous quotes within the results we have sought to demonstrate *width* or comprehensiveness of evidence. Further, we have attempted to demonstrate *coherence* by ensuring continuity between the philosophical underpinnings of the study, the research question, the data collection and analysis methods, and the presentation of the results.

Catalytic and tactical authenticity is exhibited through the interest the findings of this study have garnered from the sports organizations involved and their desire to make change based upon subsequently developed recommendations. By encouraging participants to select the individuals they deemed most influential in their dual career and asking participants in stage two to reflect on the findings produced in stage one, we sought to remove notions of the research team as the experts. Rather, we critiqued this approach and sought to empower the participants to demonstrate their expertise. Through detailed descriptions of the participants involved in the study, the use of rich description of findings and extensive quotes, and also the location of the current findings within previous literature, we hope the results resonate with readers. Finally, credibility and transparency were sought through pilot interviews, engagement with multiple individuals within each sport in stage one and prolonged, detailed

interviews in stage two, and spending multiple days in different sport set ups in stage one to gain broader insights beyond the interview data.

319 Results

In stage one and two, the athletes discussed a range of benefits associated with their dual-career, particularly the value of having education to "fall back on" if their sporting career was unsuccessful. Despite the benefits, participants also highlighted a number of challenges. Support from members of their support network was seen to be particularly important in enabling the maintenance of school and elite sport. Overall, participants from stage one and two generally indicated that they were reliant upon support from their parents (particularly their fathers within football), their coach, teachers/tutors, and where available performance lifestyle or welfare advisors. Certain individuals mentioned peers or siblings in passing but compared to others, their support appeared to be less influential.

Although there were differences in the experiences of the participants in stage one and two, there was much similarity in the roles of the support network in helping them maintain their dual career as an adolescent. As such, in the following sections, data from stage one and two are combined⁴. First, the characteristics that comprise the role of the dual career support network are detailed. Secondly, factors that enable support to be optimized are described.

Role of the Support Network

The role of the support network appeared to be characterized by the five themes.

Namely, the support network: (a) Recognize dual career athletes' needs and make adaptive changes, (b) Anticipate barriers and suggest solutions, (c) Demonstrate a belief in the value of education and a dual career, (d) Remove barriers to maintenance of a dual career, and (e)

Create an autonomy-supportive environment to foster dual career athletes' independence.

⁴ To allow for distinction between participants from stage one and two, pseudonyms have been given to the stage one participants, and numbers have been given to stage two participants.

Recognize dual career athletes' needs and make adaptive changes. Participants highlighted the need for members in the support network to recognize the demands of engaging in a dual career and change their support in response. This may include recognizing the day-to-day demands athletes' experience and altering expectations or requirements as demonstrated by the father of one of the swimmers, "She [Cally] gets tired, sometimes after a hectic week training...You can see it and maybe that will affect her concentration a bit. Rude. Obviously, we'll sort of pinpoint that, we understand." Similarly, a performance lifestyle advisor for the tennis players shared her understanding of demands, explaining, "I don't envy them. A 15-year-old trying to do his homework at school every day finds it tough enough, let alone when you're travelling and you're having to try and study in between matches."

By recognizing the challenges of the dual career, the support network could adapt their behaviors to help athletes in positive manners. Numerous examples of changes in behaviors in response to the demands were provided, ranging from reducing the number of chores at home, to providing flexible school timetables, and changing training timetables to facilitate school commitments. As Hannah's swim coach said, "I can say, 'well actually if you're stressed today perhaps you don't need to do that type of training, perhaps do a different type of training." Similarly, the mother of a swimmer (Lisa) explained, "I think as a parent you cut her that slack almost because of the hours that she's doing in there." In contrast, Participant 8, who was also a swimmer but had a more difficulty maintaining her dual-career, described the challenges she encountered because her school was not flexible, "I was away for 3 months and when I got back there was no support in me catching up on school work ... the principal called up my parents and said to them they weren't willing to help me catch up."

If the demands athletes encountered were not recognized or adapted to, the participants recalled many more issues with the maintenance of a dual career. However, by changing their behaviors to meet athletes' needs, members of the support network displayed an appreciation

and recognition of what athletes were trying to achieve, which appeared to help athletes maintain their motivation and enjoyment of their dual career. As Hannah summarized in relation to understanding from her school, "My head teacher was the best, …he'd support swimming and school at the same time; he'd always make sure that I was ok in school."

Anticipate problems and suggest solutions. In addition to recognizing the general demands of a dual career, responding to specific challenges that arise at certain times or in certain situations was also deemed necessary. For example, Dillon's (one of the tennis players) strength and conditioning coach explained how they changed their program for athletes who got "edgy" and "anxious" around exam time. As he said, "we're normally quite bespoke with their program about that time of year." Similarly, Brody explained how his football club anticipated challenges during exam times and changed their timetables:

I used to go out of school on Tuesday afternoon and Thursday afternoon, during the exam times obviously there is a lot more revision that you need to get done and deadlines that you need to meet, so the club is alright with me not training on Tuesday and Thursday afternoons and just come in on the evenings to get the work done.

The flexibility and understanding demonstrated by the school and the academy ensured that athletes felt capable of maintaining their dual career and maximised opportunities for success.

Furthermore, the support network perceived that they should anticipate and plan for problems that may arise in specific situations. For example, the tennis players regularly travelled abroad and could encounter challenges if they did not have access to the Internet to complete their work. Recognizing this problem, Dillon's parents prepared strategies to limit any negative consequences. As Dillon's mother said, "Sometimes poor Internet [is an issue]...So even with that what we have to try and prepare for that by making hard copies of things that he's going to work on, so that he can at least sit down and work." Similarly, the

mother of one of the tennis player's (Niamh), explained that she must prepare for unexpected issues such as sudden trips abroad. In those instances, she said it is all about:

You know, organizing the schedule with [coach] and making sure everything's up to date with that, if she needs any extra kind of things, extra schoolwork or extra physio and things like that, all of those things, all the things that cause panic.

The swimmer's teacher reiterated the importance of anticipating problems when travelling and helping athletes to proactively plan for them, explaining:

I think we've been quite active in making Lisa realise as well that she needs to be keeping the staff onside if you know what I mean, regarding making sure that she keeps them up to speed on when she's not going to be around and any work is caught up.

By anticipating potential problems and proactively providing or suggesting solutions, athletes were supported to manage the pressures associated with their two careers.

Athletes' support network provided a consistent demonstration of the importance of education and the value of maintaining a dual career. For example, Dillon's father said, "I think it's

Demonstrate a belief in the value of education and the benefits of a dual career.

[education] really important and I have done from the beginning and the reason is I sum it up by saying 'nobody likes a sick ex-tennis player.'" Similarly, the mother of a hockey player (Sofia) suggested, "A good education will set you in good stead...it's just something as a family that we, we feel strong about." The manner in which this belief was demonstrated varied across participants, with some placing slightly more emphasis on education than others. For instance, in tennis and football, members of the support team indicated that

field hockey (traditionally associated with less financial reward) education was viewed as a "non-negotiable". Nevertheless, the consistent belief across the support team that continuing with education was beneficial seemed to be particularly important in helping athletes maintain

education was important, but it could be returned to at a later date; whereas in swimming and

their motivation to achieve in both domains. As Participant 6, a badminton player, explained:

I just feel that I was so lucky that I really had the perfect combination for this [maintaining school and sport]...I think it can be easy for the teacher to say education is the first thing you do, and it can also be easy for the coach to say that sport should be your first thing you do. I think neither of those are true...all sides they just need to make sure that the kids stay on track on both.

Furthermore, the support team and the athlete valuing education seemed particularly helpful because it prevented athletes from feeling conflicted. As Cally (a hockey player) said, "Yeah, I think its [valuing education] really important because I want to go to university and stuff, I want to be in physiotherapy and they [my support network] know and support that." Further, with everyone on the same page it helped to ensure that everyone's expectations were the same, which eased tension within the support network. This appeared to be particularly helpful for parents as a performance lifestyle advisor for tennis said, "I think if you have coaches that encourage it [education] then that gives the parents a bit of relief in knowing that the coach will support them as well."

In some of the sports, the value on education was demonstrated through specific support behaviors, such as members of the support team monitoring athletes' engagement in their academic work and holding athletes accountable for their attainment in this field. For example, explaining what helped with her education Niamh (a tennis player) explained that if she fell behind with her studies, her coach and tutor would say, "you have got to miss a couple of [training] sessions to get myself back where I needed to be." The players viewed such monitoring positively because it kept them on track. As a footballer, Brody, said:

Before the season starts, the club will talk to people at school to make sure I do have their permission to leave but also they have stopped people leaving school if they are falling behind, so that also shows how important they think education is, it's good.

440

441

442

443

444

445

446

447

448

449

450

451

452

453

454

455

456

457

458

459

460

461

462

463

Minimize barriers to maintaining a dual-career. One of the fundamental requirements to enable engagement in a dual career seemed to be having the necessary opportunities to complete their education and training, with minimal barriers. Quite simply, as Participant 3 said in relation to his shooting and school career, members of the support network must, "Make everything very convenient for the athlete I think." For such opportunities to arise, athletes indicated being dependent upon their education establishments to facilitate engagement in sport and sporting communities to support and enable academic engagement. Support from parents was perceived to play a critical role, as Harry's dad shared: There has been a lot of sacrifice involved and a lot of travelling up and down...but I said to myself I am not going to let my boys not have what I didn't have [i.e., opportunities to excel in sport], at least I can give them support. Alongside the support for sport, significant others also provided support to succeed at school. Such support was apparent through flexible timetabling at school to facilitate football training, as Brody's head of year explained, "So what we did is we went through his timetable, we identified slots on a weekly basis where I can move him from his lessons." Additionally, parents or the Sports Federation facilitating access to tutors was seen as one of the most beneficial types of support for athletes in both study phases. Tutors were valued for various reasons, as a swimmer, Participant 5, stated, "I think the tutoring helped a lot of swimmers at the time because when they were swimming without them they were not able to focus on education." Athletes who spent extended time away from school for training and competitions (e.g., tennis players, sailors) particularly valued tutors. On returning home from trips away, assistance from schools and parents was deemed to

be extremely important in helping athletes to catch up on work. For example, Participant 9 shared her experience of returning from skiing trips saying:

I would come home as an athlete on Sunday night but Monday morning I was a normal

kid with a school to go to and papers to turn in and so the support to have things organized and not waste the week trying to collect all the bits and pieces that you've missed was definitely a massive, massive help.

Overall, the removal of barriers and presentation of opportunities appeared to be largely

dependent upon a collective effort across the support network, with clear roles and responsibilities and regular communication across sport and education domains (discussed in further detail under the factors section).

Create an autonomy-supportive environment to foster independence. Finally, there appeared to be a belief across the sports that athletes needed to have control over their education and sport decisions. Participant 3, the shooter, shared:

It was all about my responsibility I think the personal approach is the key because then you can face someone and you can speak on your behalf and then it's much more valued than if you send someone else to do that for you, so my mum she was helping with the administration let's say she helped kind of sending letters or whatever, but the most important stuff it was on my shoulders.

Similarly, one of the swimmers, Participant 7 said, "When I got to the age where I would go and talk to the teachers then they kind of respected that and they helped me do what I needed to do to prepare for being away for two weeks, or whatever it was."

In some situations such control was demonstrated by significant others trusting athletes to guide their own development, while in other sports it was through the active development of independence in athletes. For example, Niamh explained, "I wanted to try and focus more on the kind of the tennis side, that was kind of my decision this year, so I decided to stay and play and see how it goes really." Dillon's mother expressed a similar view in relation to moving Dillon to the tennis academy, "I would ask him and he'd say, 'No I don't want to go to an academy full time yet,' so we waited ...I think we've always let Dillon lead the way."

Athletes were also allowed to take control of their decisions regarding schoolwork. For instance, the hockey players had autonomy over their school work, as Sofia's teacher said, "If she needs it, it's not that its being provided as such, but she knows that we are here and available and she can use us if and when she needs to." By trusting athletes to make the decisions that worked for them, the support network not only ensured the players felt in control of their choices but also that they would be happy with the choices. In relation to her swimming, Lisa explained:

Well you've taken your information and now it's down to you and if you want to do it then you do it and if you don't do it then don't moan when you don't do well. Like I think that's the sort of approach she [mother] has sometimes. Which is, I think that sort of makes me do it even more, knowing that they like trust me to do it.

However, although athletes were trusted to make their own decisions, the guidance of their support network helped athletes make informed decisions. As Hannah's father explained in relation to her swimming and school:

I leave the choices to them tell you the truth, because I'll say it's your choice, but I'll spell out the consequence that if you make this choice then this is what'll most probably happen, but I'll leave it ultimately down to them.

Key Factors for Optimizing Support

To enable significant others to provide the aforementioned support, it appeared that three factors were important. Namely, participants indicated that, (a) focusing on the whole person, (b) integrating efforts within the support network, and (c) fostering a culture that promotes continuing education, would enable optimal support from their network.

Focus on the whole person. First participants reflected on the importance of the support network focusing upon developing a whole person, rather than their sport or schooling career individually. As a swimmer, Participant 7, explained in relation to coaches:

514 My biggest recommendation to coaches is to look at your athlete as a person, as a whole 515 and not just an athlete...When a coach is able to make that athlete a better person and a 516 whole person, they haven't just succeeded at school or being a good person, they've 517 succeeded as being a better athlete because they understand things better. 518 Another swimmer, Participant 8, argued for valuing all dimensions of an athlete, explaining, "I think that we need to be looking at the athlete as you know emotionally, socially, mentally 519 520 ...you know the five dimensions." Such views were reiterated by a tennis coach, who shared, 521 "the advice is that you develop not just a tennis player, but a whole person and surprisingly if you do that it actually adds to the other areas." By adopting such an approach, pressure on 522 athletes' sporting or education careers were reduced as they remained in perspective. 523 Participants perceived that the focus upon the whole person and a dual career needed to 524 extend to Sports Federations. For instance, based on a lack of support from her Federation 525 526 Participant 1, a sailor, explained: [Federations] should be saying, "we don't force anyone to do studies, but if there are 527 528 students who feel the need [to study] for the future or their career, we will provide some tools and some support". But they don't and that for me was the most frustrating. 529 530 Overall, summing up the views of many, Participant 8 explained why federations should 531 focus on the whole person, stating, "I think that the organizations have a duty of care to make 532 sure that their athletes are going to be okay once they leave the squad." **Integrated efforts within the support network.** To optimize support, and particularly 533 534 to remove barriers to a dual career and increase a belief in education, individuals in the 535 support network needed to work together rather than in isolation. As Dillon's tennis coach 536 explained in relation to being on the same page as Dillon's tutor: 537 I need to know where he's at, what progress he's making and a little bit about, what is he being asked to do at the moment, what is the workload like, what should he be doing 538

540

541

542

543

544

545

546

547

548

549

550

551

552

553

554

555

556

557

558

559

560

561

562

563

and particularly, if I go away with him then I'm going to need to know roughly what his targets are and what's expected of him when he's away. The tutor reiterated the need for joined up thinking, stating, "We try and encourage them [players] to do work when they're away and if I know the coach who is away with them, making sure that they know that they should be doing work and stuff." Such an integrated approach was possible because individuals engaged in frequent and open communication. Participants also discussed the importance of parents and athletes working together. As the badminton player, Participant 6, explained: The biggest support they [parents] gave to me was that you always had a very awkward conversation, they sat down with me, they tried to understand where I was coming from, and they always tried to work out solutions that works for both...we tried to find a solution, and that's the best support of all. In addition, participants valued parents and coaches providing similar messages. For instance, a swimmer, Participant 7, said, "I think that [support for education] can also come from coaches, not just parents, because some athletes will know sometimes it's better coming from someone else than mum and dad you know, you listen to it a bit better." Summarizing the importance of an integrated approach, a sport psychologist explained: Athletes can be feeling the pressure from everyone, making sure she has the right balance but nobody communicating with each other; they are all just telling her what the expectations are from their angle rather than sitting down and working out the best thing for that individual. I think that's the toughest one with sport and education. Foster a culture of expectation around continuing education. Finally, participants emphasized the importance/benefit of members of the support network fostering a culture in which continuing education is an expectation – something that is not questioned. For many of

the athletes, an expectation of continuing education was created by parents, as Participant 3 (a

shooter), shared, "My parents are educated, both university education, so from beginning of my sport career it was always depending on my school results so I was really motivated by my parents to study well." Participant 7, one of the swimmers, extended this point, stating, "It was never a question for my family of whether I was going [to school and university], ...it was just an assumption....So I think that helped - the not questioning it."

When or if such a culture extended to the sport or society, it appeared to be particularly helpful in supporting athletes' conversations with coaches, as Participant 6 said about his badminton coach, "I didn't have to really negotiate my education [with my coach] because of the culture and mentality of my country." In contrast, one of the tennis coaches reiterated the importance of a cultural change in tennis in the UK, explaining, "it's about developing a different culture in this country; people are out of school a lot and the majority of them shouldn't be because they're never going to make it as tennis players anyway."

Such national expectations towards continuing education were not always without challenges though, as Participant 5 explained:

I went to the Olympics and then after coming back there was just some discussion with the association that you know I was going to University next year, so he's not going to swim any more. They just assumed I would give up swimming, so I assumed the same.

Additionally, Participant 7 explained that sport also needs to be valued:

I think if you took a poll right now most people in [country] would say no that's [sport] not a job, my child needs to stay in school and have his education or her education is way more important than sport. So that's a cultural mindset that we have to try and say, "okay we understand and we get that, and we're not saying that education isn't important but the two and two could work together."

Overall participants perceived that sport and social culture towards education influenced the extent to which they were able to obtain support necessary to maintain their dual career.

589 Discussion

The objectives of this study were to, (a) understand the role of the social support network in facilitating a dual career in sport and education, and; (b) gain insights into factors that may optimize the provision of such support. The key intention was to engage in a more rigorous understanding of the characteristics of support provided by the 'team around the athlete' by investigating the experiences of dual career management from the perspectives of athletes and their social support network. Such viewpoints not only included current, high performing adolescent athletes and their identified support team, but also retired elite, international athletes who had pursued a dual career pathway.

Roles of the Support Network

One of the most striking elements to emerge from the results was the level of understanding needed from the support team with respect to the explicit demands of elite sport, education, and the interchange between the two achievement domains. To provide effective support parents, teachers, coaches, and organizational support staff demonstrated high levels of 'contextual intelligence' (Brown, Gould, & Foster, 2005) and a cognitive awareness of the stressors faced by the elite student-athlete (cf. Brown et al., 2015; Debois et al., 2014). When members of the network lacked such contextual awareness, athletes and others experienced more challenges in their attempts to engage in a dual career or to support such attempts. Such contextual intelligence appeared to be most apparent in settings where there was a cultural (both within society and sport) acceptance of dual careers (e.g., swimming in the UK) likely due to the greater experience of the support team in this domain.

The results further highlight the need for perceived social support to be present in all its multidimensional forms (cf. Rees & Hardy, 2000). For example, parents and teachers appeared to possess a consistent degree of readiness to offer tangible and logistical support with a clear emphasis on being solution-focused and an adaptable, proactive ability to plan in

ways that would remove unnecessary barriers for the athlete. Emotional support from parents often took the subtle form of 'reading their child' and showing empathy in the context of the simultaneous challenges (Harwood & Knight, 2015). Such efforts were evident across the idiosyncratic demands linked to specific sport types (e.g., international travel-school conflict in tennis versus daily training schedule-school conflict in swimming) and showcased the cognitive skills of network members in terms of anticipation, planning and adaptation.

Insights into the types of facilitative environment created by the support network resonated with the principles of basic needs theory (Ryan & Deci, 2002) in that athletes were presented with autonomy-supportive opportunities to engage in developmental tasks and organizational activities independently. In addition, care to ensure that athletes felt like they could own their own journey and decisions about sport involvement were afforded by parents (Knight & Holt, 2014). Underpinned by collective contributions from all members of the support network, such an autonomy-supportive environment seems to offer a sense of how athletes may be able to optimize their self-regulation as individuals managing the integrated transitions between sport participation and schoolwork/education.

Factors that Optimize Support Provision

Through the integration of interviews from individuals involved in a variety of sports, in various education and sport set-ups, and across a range of countries, we sought to identify key factors that may influence or optimize the provision of support. Somewhat surprisingly, the experiences and needs of individuals in different countries and different sport/education set-ups appeared to be much more similar than they were different. Nevertheless, the overall data set provide some intriguing insights into individual- and group-level factors that underscore optimal support for aspiring athletes in a dual career reality. Importantly, when providing effective support, the aforementioned support network attributes did not appear to exist in isolation. Rather, these attributes existed across members who collaborated in manners that

640

641

642

643

644

645

646

647

648

649

650

651

652

653

654

655

656

657

658

659

660

661

662

663

suggested a sense of seamlessness in terms of supporting the development of the whole person. Congruence between the support team extended beyond support to the athlete to broader group-level support as all network members supported each other. Such support enabled the entire network to be 'on message' with respect to supporting each other's decisions, subsequently reducing any confusion the athlete might experience from mixed messages or differential value judgements. Such a finding is consistent with Henriksen and colleagues (2010a), who have highlighted that integrated efforts are a critical characteristic of successful athletic talent development environments (ATDEs). Resonating with Martindale, Collins, and Daubney's (2005) reinforcement of coherent philosophies within a TDE, these findings accentuate the importance of sports federations facilitating stronger integration among different members of athletes' support network (cf., Harwood & Knight, 2015). Notable features of the support network exalted by athletes and reinforced by members was the implicit belief in the dual values of sport and education (cf. European Commission, 2011). Congruent beliefs in the pursuit of holistic athlete development and a grounded, multidimensional identity (cf. Brewer, Petitpas, & Van Raalte, 2017) appeared to promote behaviors in the support team that enabled the athlete to optimize engagement and development in both domains. A perceptive observation by one retired elite athlete also reflected how sociocultural expectations of the athlete valuing and continuing education were not always 'a given' or assumed in certain countries; yet such societal and organizational expectations (e.g., duty of care) were powerful and necessary in facilitating holistic development and healthier personal identities (European Commission, 2011). Further, the emphasis placed on sport versus education differed across some countries, sports organizations/types of sports, and within families. In situations where the country or organization placed less emphasis on education, family expectations around continuing education were of even greater importance.

Overall, consistent with Henriksen and colleagues (2010a, 2010b) holistic ecological approach to talent development, and the suggestions of Aquilina (2013) and Sum et al. (2017) regarding influences on dual careers, the current study indicates that adolescent athletes' successful engagement in a dual career appears to be influenced by interactions at and across varying environmental levels. In drawing together our findings alongside pre-existing literature, we propose that an athlete's dual career experience is directly influenced by a range of factors including the contextual intelligence, values, and beliefs of individual members of a support team located within the microsystem (Bronfenbrenner, 2005; Henriksen, 2010a, b). Such contextual intelligence and behaviors of individuals appear to be individual representations of the shared expectations and understanding of dual careers that the support network possess. These representations may be reciprocally formed and informed through consistent communication and interaction within the support network. Further still, such values, expectations, and understanding may be more broadly influenced by the macro-level culture (Henriksen, 2010a) created by individual national governing bodies and/or the societal expectations that exist regarding engagement in education versus achieving success in sport.

Limitations and Future Directions

The current study provides important initial insights into how members of the support team can support elite adolescent athletes as they attempt to complete their dual career. However, such findings must be considered in light of the limitations of this study. Most notably, the lack of negative examples included in the study and the limited experiences from elite team sport athletes to guide the formulation of the findings. Moreover, the objective educational success of the dual-career of the athletes were not explicitly measured (e.g., academic grades, school achievements) in stage one as the participants were in the middle of completing their courses. For the purpose of this study, we defined successfully pursuing a dual career pathway as achieving on the national or international stage in sport while

maintaining or completing compulsory education with necessary grades⁵ to facilitate further study (i.e., further or higher education) if desired. However, educational expectations vary between countries and cultures so further examination of what a "successful" dual career actually is, whether at an individual, national, or international level, would be beneficial. Finally, the views of individuals from educational institutions were more limited within this study due to the challenges of engaging with them. As such there is a greater emphasis on the views of individuals from within the sporting context than the educational context within the findings. To extend the findings of this study, longitudinal studies incorporating the views of all members of the support network would be beneficial to illustrate how support must change and adapt across transitions and challenging points in the academic/sporting calendar. Further, studies with athletes who were not able to complete a dual-career would help to more clearly articulate the nature and consequences of support, or lack thereof.

Conclusion

The findings of this study provide a clear indication of the breadth and depth of support required by adolescent athletes to maintain a dual career. Most importantly, it appears that in addition to providing support to athletes, members within the athletes' support network must also support each other and share similar beliefs and expectations regarding sport and education. Such shared expectations and beliefs are more likely to be possible if a culture in which continuing education is accepted and supported within sport is fostered, but this is likely to be influenced by societal values towards sport and education. Overall, it appears that identification of specific roles and responsibilities to be fulfilled by each member of a support network, as well as an identification of the sporting and educational demands and goals of athletes would be useful to guide support for a dual career during adolescence.

⁵ In the UK sample, this was classed as a minimum of C grades in English, Maths, and Science at GCSE level as this is usually required as a minimum to engage in further and subsequently higher education.

712 References 713 Amara, M., Aquilina, D., Henry, I., & PMP. (2004). Education of young sportspersons (lot 1). 714 Final report. Brussels: European Commission. 715 Aguilina, D. (2013). A study of the relationship between elite athletes' educational development 716 and sporting performance. The International Journal of the History of Sport, 30, 374-392. 717 doi:10.1080/09523367.2013.765723 Aguilina, D., & Henry, I. (2010). Elite athletes and university education in Europe: A review of 718 719 policy and practice in higher education in the European Union Member States. *International* Journal of Sport Policy and Politics, 2, 25-47. doi:10.1080/19406941003634024 720 721 Baron-Thiene, A., & Alfermann, D. (2015). Personal characteristics as predictors for dual career 722 dropout versus continuation: a prospective study of adolescent athletes from German elite 723 sport schools. Psychology of Sport and Exercise, 21, 42-49. doi:10.1016 724 /j.psychsport.2015.04.006 Borggrefe, C., & Cachay, K. (2012). "Dual Careers": The structural coupling of elite sport and 725 school exemplified by the German Verbundsysteme. European Journal of Sport and Society, 726 9, 57-80. doi:10.1080/16138171.2012.11687889 727 Brewer, B. W., Petitpas, A. J., & Van Raalte, J. L. (2017). Self-identity and young athletes. In 728 729 C.J. Knight, C.G. Harwood, & D. Gould (Eds.), Sport psychology for young athletes (pp. 153-163). Abingdon, Oxon: Routledge. 730 Bronfenbrenner, U. (2005). Making human beings human: Bioecological perspectives on human 731 732 development. Thousand Oaks, CA: Sage. 733 Brown, D. J., Fletcher, D., Henry, I., Borrie, A., Emmett, J., Buzza, A., & Wombwell, S. (2015). 734 A British university case study of the transitional experiences of student-athletes. 735 Psychology of Sport and Exercise, 21, 78-90. doi:10.1016/j.psychsport.2015.04.002 736 Brown, C. H., Gould, D., & Foster, S. (2005). A framework for developing contextual

737 intelligence (CI). The Sport Psychologist, 19, 51-62. doi:10.1123/tsp.19.1.51 738 Carless, D., & Douglas, K. (2009). 'We haven't got a seat on the bus for you' or 'all the seats are 739 mine': narratives and career transition in professional golf. Qualitative Research in Sport 740 and Exercise, 1, 51-66. doi:10.1080/19398440802567949 741 Christensen M. K., & Sørensen, J. K. (2009). Sport or school? Dreams and dilemmas of talented 742 young Danish football players. European Physical Education Review, 15, 115-133. 743 doi:10.1177/1356336x09105214 744 Debois, N., Ledon, A., & Wylleman, P. (2015). A lifespan perspective on the dual career of elite male athletes. Psychology of Sport Exercise, 21, 15-26. doi:10.1016 745 746 /j.psychsport.2014.07.011 747 European Commission (2011). Developing the European Dimension in Sport. Brussels: 748 European Commission. EU Expert group. (2012). EU guidelines on dual careers of athletes. Recommended policy 749 750 actions in support of dual careers in high-performance sport. Approved by the EU Expert 751 Group "Education & Training in Sport" at its meeting in Poznan on 28 September 2012. Harwood, C.G., & Knight, C.J. (2015). Parenting in youth sport: A position paper on parenting 752 expertise. Psychology of Sport and Exercise, 16, 24-35. doi:10.1016 753 /j.psychsport.2014.03.001 754 755 Henriksen, K., Stambulova, N., & Roessler, K. K. (2010a). Successful talent development in track and field: considering the role of the environment. Scandinavian Journal of Medicine 756 757 & Science in Sports, 20, 122-132. doi:10.1111/j.1600-0838.2010.01187.x 758 Henriksen, K., Stambulova, N., & Roessler, K. K. (2010b). Holistic approach to athletic talent 759 development environments: A successful sailing milieu. Psychology of Sport and Exercise. 760 11, 212-222. doi:10.1016/j.psychsport.2009.10.005 761 Henriksen, K., Stambulova, N., & Roessler, K. K. (2011). Riding the wave of an expert: A

- successful talent development environment in Kayaking. *The Sport Psychologist*, 25, 341-
- 763 362. doi:10.1123/tsp.25.3.341
- Henry, I. (2010). Elite athletes and higher education: Lifestyle, 'balance' and the management of
- sporting and educational performance. Retrieved from
- http://doc.rero.ch/record/22126/files/2010 Henry.pdf
- Knight, C. J., & Holt, N. L. (2011). Sport participation during childhood and adolescence. In N.
- 768 L. Holt & M. Talbot (Eds.), Long term engagement in sport and physical activity:
- 769 Participation and performance across the lifespan (pp. 9-18). Abingdon, Oxon: Routledge.
- Knight, C. J., & Holt, N. L. (2014). Parenting in youth tennis: Understanding and enhancing
- children's experiences. Psychology of Sport and Exercise, 15, 155-164.
- 772 doi:10.1016/j.psychsport.2013.10.010
- Larsen, C. H., Alfermann, D., Henriksen, M. K., & Christensen, M. K. (2013). Successful talent
- development in soccer: The characteristics of the environment. Sport, Exercise, and
- 775 *Performance Psychology*, 2, 190-206. doi:10.1037/a0031958
- Lupo, C., Guidotti, F., Goncalves, C. E., Moreira, L., Doupona Topic, M., Bellardini, H., et al.,
- 777 (2015). Motivation towards dual career of European student-athletes. European Journal of
- 778 Sport Science, 15, 151-160. doi:10.1080/17461391.2014.940557
- Martindale, R. J., Collins, D., & Daubney, J. (2005). Talent development: A guide for practice
- and research within sport. *Quest*, *57*, 353–375. doi:10.1080/00336297.2005.10491862
- McCormack, C., & Walseth, K. (2013). Combining elite women's soccer and education: Norway
- 782 and the NCAA. Soccer & Society, 14, 887-897. doi:10.1080/14660970.2013.843927
- 783 Miles, M. B., Huberman, A. M., & Saldaña, J. (2014). *Qualitative data analysis: A methods*
- 784 sourcebook (3rd Ed). Thousand Oaks, CA: Sage
- Rees, T., & Hardy, L. (2000). An investigation of the social support experiences of high-level
- sports performers. *The Sport Psychologist*, 14, 327-347.doi:10.1123/tsp.14.4.327

787 Ryan, D. C. (2015). Factors impacting carded athlete's readiness for dual careers. *Psychology of* 788 Sport and Exercise, 21, 91-97. doi:10.1016/j.psychsport.2015.04.008 789 Ryan, R. M., & Deci, E. L. (2000). Overview of self-determination theory: An organismic 790 dialectical perspective. In E. L. Deci & R. M. Ryan (Eds.), Handbook of self-determination 791 research (pp. 3-33). Rochester, NY: The University of Rochester Press. 792 Ryba, T. V., Stambulova, N. B., Ronkainen, N. J., Bundgaard, J., & Selänne, H. (2015). Dual career pathways of transnational athletes. Psychology of Sport and Exercise, 21, 125-134. 793 794 doi:10.1016/j.psychsport.2014.06.002 795 Smith, B., & Caddick, N. (2012). Qualitative methods in sport: A concise overview for guiding 796 social scientific sport research. Asia Pacific Journal of Sport and Social Science, 1, 60-73. 797 Sparkes, A., & Smith, B. (2009). Judging the quality of qualitative inquiry: Criteriology and 798 relativism in action. Psychology of Sport and Exercise, 10, 491–497. doi:10.1016 799 /j.psychsport.2009.02.006 800 Stambulova, N. B., Engström, C., Franck, A., Linnér, L., & Lindahl, K. (2015). Searching for an 801 optimal balance: dual career experiences of Swedish adolescent athletes. Psychology of Sport and Exercise, 21, 4-14. doi:10.1016/j.psychsport.2014.08.009 802 Torregrosa, M., Ramis, Y., Pallarés, F., & Selva, C. (2015). Olympic athletes back to retirement: 803 804 A qualitative longitudinal study. Psychology of Sport and Exercise, 21, 50-56. doi:10.1016 805 /j.psychsport.2015.03.003 Wylleman, P., & Lavallee, D. (2004). A developmental perspective on transitions faced by 806 807 athletes. In M. Weiss (Ed.), Developmental sport psychology: A lifespan perspective. 808 Morgantown, WV: Fitness Information Technology. 809 Wylleman, P., Reints, A., & De Knop, P. (2013). A developmental and holistic perspective on 810 athletic career development. In P. Sotiaradou, & V. De Bosscher (Eds.), Managing high 811 performance sport (pp. 159-182). New York, NY: Routledge.

Table 1

Stage 1 P	articipant	Details
-----------	------------	---------

Siage I Pariici	•		
Setting	Athlete One	Athlete 2	Social Support Network Members
			Interviewed
Tennis	Dillon ⁶ is a 15-year-old male international	Niamh is a 17-year-old female international	Dillon's Mother
academy	tennis player. Dillon has frequently	tennis player. Niamh is currently transitioning	Dillon's Father
	represented Great Britain at competitions	from junior to senior competitions. Niamh has	Dillon's coach/academy manager
	around the world. Dillon has been at the	been with this academy for the last five years.	Niamh's mother
	academy for two years and has been	Niamh has recently completed her GCSE	Niamh's coach
	completing two GCSE qualifications a	qualifications and is currently enrolled in a	S & C coach
	year. He is currently completing further	BTEC and an A' level course.	Tutor
	GCSE qualifications and a BTEC.		Performance lifestyle advisor
High	Lisa is a 15-year-old international	Hannah is a 17-year-old international	Hannah's mother
performance	swimmer, who has represented her country	swimmer, who has represented her country in	Hannah's father
swimming	for the last two years. Lisa is currently	a number of national and international	Hannah's sport psychologist
squad	completing her GCSE qualifications at a	competitions. Hannah is currently completing	Performance advisor
	traditional school. Lisa will continue	her A level exams, having finished her AS	Hannah and Lisa's coach
	education into higher education to start her	levels in the previous year. She is striving to	Lisa's head of Physical Education
	A level exams next year.	achieve the highest grades in her A' levels.	Lisa's head of year
			Lisa's father
		Y	Lisa's mother

⁶ To protect the identity of the athletes, pseudonyms are used throughout this manuscript

National	Sofia is a 15-year-old international field
field hockey	hockey player. She has competed for her
squad	country in a number of international age
	group events and is a regular member of the
	under 16 and 18 national squad. She has
	been part of the national squad for the last
	two. Her father is also her coach. Sofia is
	currently studying for her GCSE
	qualifications within a traditional education
	system.

d Cally is a 16-year-old international field hockey player. She has competed for her country in a number of international age group events and is a regular member of the under 18 national squad and also the senior squad. Cally is currently studying for her A' level qualifications within a traditional education system. Her club training takes place in the n evenings around her schooling with national training occurring monthly.

Sofia's father National coach Sofia's mother Sofia's form tutor Cally's father Cally's mother Cally's PE teacher National age group team manager National team sport psychologist

A football academy

academy for six years. He is currently completing his GCSE exams at a local secondary school. He attends the academy for two afternoons a week (on day release) opportunity to attend educational sessions the weekend. at the academy to make up the work he misses.

Brody is a 16-year-old academy football Harry is an 18-year-old academy football player. He has been playing with the player. He attends the academy full-time having completed his GCSE exams at a traditional school almost two years ago. He completes 12 hours of education at the academy and will obtain a BTEC qualification and trains three evenings a week/plays at the end of this year. He trains every day games at the weekend. He has an except for Wednesdays and plays matches at Head of welfare and education Sport psychology consultant Tom's coach Tom's school head of year Tom's father Harry's coach Harry's father

Table 2

Participant demographics

<u>1 uriicipuni uemograj</u>	onics				
<u>Participants</u>	<u>Number</u>	<u>Gender</u>	Age (years)	<u>Highest Education</u>	<u>Other</u>
Athletes	8	5 female	15-18	4 completing GCSES	6 in dual parent family
		3 male	(M=16.1)	4 completing A'levels/BTEC	2 single parent family
					All athletes had between 1 and 3 siblings
Parents	13	6 female	39-67	3 Masters degree	
		7 male	(M = 49.9)	2 graduate diploma	
				4 undergraduate degrees	
				2 vocational training/diploma	
				2 high school leaving qualifications	
Coaches/	7*	7 male	26-56	7 undergraduate degrees	
Team managers			(M=38.4)		
Teachers/Tutors	6	1 female	25-37	6 undergraduate degrees	
		5 male	(M = 31.7)		
Sport scientists	7	2 female		3 PhD	3 sport psychologists
/advisors		5 male		2 MSc	2 performance lifestyle advisors
				2 undergraduate degree	1 education and welfare officer
			\wedge		1 performance advisor

^{*}One coach was also a parent