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Introduction

Sport participation has well-established physical and mental health benefits (Biddle & Mutrie, 2008; Daley, 2008). Conversely, and as associated within the athlete population, intense exercise and physical activity has been found to compromise mental health with suggestion of increased experiences of anxiety, depression and burnout (Peluso & Andrade, 2005). Possibly no surprise, therefore, that an increasing number of high-profile professional sporting personalities (e.g., Clarke Carlisle, former footballer; Ronnie O'Sullivan, snooker player; Dame Kelly Holmes, track gold medallist) are speaking publicly about their experiences of mental health difficulties, the stigma associated with disclosure, and how they have coped in the sporting and competitive environment (BBC Sport, October 2015; Gardner & Moore, 2006). Low occurrence of mental health difficulties in athletes is often culturally assumed, but this assumption is not supported by any substantive research (Bär & Markser, 2013). The limited literature available indicates that athletes are equally, if not more, vulnerable to mental health difficulties as the general public (Gulliver, Griffiths, Mackinnon, Batterham, & Stanimirovic, 2015). Unique emotional 'ups and downs', pressures of competitive sport, stress of daily training, consequences of physical injuries, aging and transition (e.g., leaving and retirement), sport-specific challenges (e.g., team membership, aesthetic determinants) as well as stigma and media scrutiny, all present factors which, if not managed, could lead to particular vulnerability to experiencing mental health difficulties (e.g., eating disorders, Arthur-Camselle, Sossin & Quatromoni, 2017, Dosil, 2008; obsessive compulsive tendencies, Biggin, Burns & Uphill, 2017; anxiety, Kamm, 2008; depression and low/negative mood, Nicholls, McKenna, Polman & Backhouse, 2011, Reardon & Factor, 2010; general psychological distress, Gulliver et al., 2015). Athletes attempts to cope with the

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various sport-specific demands (physical, psychological and inter/intra personal) can lead to unsafe and unhealthy short-term, yet often effective, strategies (including disordered eating, Shanmugam, Jowett, & Meyer, 2011; and alcohol abuse, Vamplew, 2012). Unhealthy self-management has been predicted to be an essential element in either precipitating and/or perpetuating pre-existing mental health difficulties (Topolovec-Vranic et al., 2015).

In 2014, Mind (a leading mental health charity in the United Kingdom) commissioned research exploring how sports governing bodies and player organisations approach, manage, and respond to mental ill-health within athlete populations across six sports. Findings highlighted various unique challenges negotiated by athletes experiencing mental health difficulties. Stigma and fear of the consequences of disclosure on sporting career were found to often prohibiting talking about the difficulties. Injury or lack of performance, retirement and ‘struggling in silence’ were all referenced as particular ‘pressure points’ impacting on athletes’ mental health. The research led to the development of the Performance Matters: Mental Health in Elite Sport report, accessible in the public domain. In response,

governing bodies from targeted sports initiated a number of changes ranging from 24 hour telephone helplines for athletes (~~Professional Footballers Association~~), increased access to counselling and mental health support services for players/athletes (~~Rugby Players Association; British Athletes Commission~~), specific mental health training for staff (~~Premier League~~) and training inclusion within coaching qualifications (~~Football Association~~) (Mind, 2014). Although a positive stride forward, mental health research and practical support within sporting domains where there are *unique* sporting factors associated with increased risk (i.e., physical harm and/or life threatening/changing injuries) continues to be lacking (Rice et al., 2018).

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Equestrian sport is referred to as one of the most high-risk sports on land (Landolt et al., 2017; Thompson & Nesci, 2016) with many recognised (health) hazards associated within sub-disciplines within the sport (i.e., horse racing and 'making weight', Dolan et al., 2012). Equestrian sport encompasses multiple sub-disciplines including dressage, showjumping, eventing, polo, racing, etc. Given the research on elements impacting on athlete mental health, equestrian sportspeople may be a sub-group of athletes particularly vulnerable to elevated risk of experiencing mental health difficulties. In addition to the general pressures all athletes must negotiate, equestrian sub-disciplines appear to have various *additional* and competing sport-specific stressors. Aesthetic requirements (e.g., weight and appearance) appear to be associated with eating disorder risk for professional jockeys due to sustained attempts to 'make weight' and sustain significantly low weight (Caulfield & Karageorghis, 2008). Equally, collegiate equestrian athletes may have increased vulnerability to developing eating disorder symptomology due to research findings highlighting distorted perceptions of body image within this population (Torres-McGehee, Monsma, Gay, Minton & Mady-Foster, 2011). Additionally, the challenging training routines and daily demands of horse ownership can result in significant social and academic sacrifices with Pummell, Harwood & Lavallee (2008) highlighting potential risks associated with restricted identity development. Equally, the physical and mental demands in equestrian sport and increased vulnerability to physical injury due to the danger associated with the sport are additional stressors for athletes to manage (Dolan et al., 2012; Dosil, 2008; Landolt et al., 2017; Monsma, Gay, & Torres-McGehee, 2013). A particularly unique element of equestrian sport that is considered fundamental to performance success is the ability of a rider to manage emotions which can influence the horse-rider relationship (McBride & Mills,

2012; Tenenbaum, Lloyd, Pretty, & Hanin, 2002; Wolframm, Shearman & Micklewright, 2010). Professional equestrian sportspeople such as Pippa Funnell, Michal Rapcewicz and Mark Enright provide anecdotal evidence of the impact of a rider's emotions, particularly those associated with mental health difficulties on riding ability, decision making, the relationship with the horse, general psychological wellbeing and ultimately performance (Funnell, 2004; Mathieson, 2015).

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Present Study

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The limited research within sport and mental health literature has offered some insight into the pressures and unique challenges athletes negotiate whilst also the consequences for, and on, mental health and psychological wellbeing (Gulliver et al., 2015; Hughes & Leavey, 2012; Rice et al., 2016). Research findings have suggested that there may be sports with sub-groups of athletes that are particularly vulnerable to developing or exacerbating mental health difficulties (Dosil, 2008; Landolt et al., 2017; Monsma et al., 2013). Given the identified additional stressors and pressures equestrian athletes negotiate, it is surprising to find that little is known about how these athletes experience or perceive psychological wellbeing and mental health difficulties within the sport. The purpose of the current study was to gain an understanding of equestrian sportspeople's experiences and perceptions of mental health difficulties and psychological wellbeing. The insights gained from this new research will contribute to greater understanding as to the specific mental health needs of equestrian sportspeople and provide suggestion for the development of approaches and strategies for this target population.

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Method

A dual approach involving both an anonymous e-survey and a purposive sample of semi-structured interviews was undertaken. The study was approved by the researchers' University Ethics Committee.

The e-survey was developed to gather a broad range and scope of opinions, whilst the aim of the semi-structured interview was to capture depth of perception. Both modes of data collection used open-ended questions to gather and explore opinions, understanding and awareness of mental health and psychological wellbeing in equestrian sport.

The qualitative approach to this research was consistent with the researchers' interpretivist epistemological position which is grounded in the premise of sharing knowledge based on descriptions of phenomena rather than pre-existing ideas or frameworks (Creswell, 2014). Demographic information was collected along with eight open-ended questions covering areas of: general understanding, recognition, causes, triggers and impact of mental health difficulties for equestrian sportspeople, and coping strategies and support available for this population. The questions were developed after a review of the literature on mental health and psychological wellbeing in sport whilst also informed by the authors' research experience and expertise in mental health and sport. Example questions include: 'What do the words *'mental health'* mean to you?' and 'How do you think mental health difficulties impact upon equestrian sportspeople/athletes?'.

Coach/instructor-athlete and parent-athlete attachment style and relational dynamic have been found in previous research to influence athlete wellbeing, basic psychological need satisfaction (e.g., Davis & Jowett, 2014; Felton & Jowett, 2017) and care-seeking responses (Milroy, Hebard, Kroshus & Wyrick, 2017). With this in

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mind, a holistic systemic approach was adopted to ensure an inclusive understanding of perspectives about mental health and psychological wellbeing in equestrian sport. As such, participants were key individuals involved in the system of an equestrian sportsperson, including the athlete, parent and coach/instructor. The selection of participants was criterion based: individuals over 16 years old who were either/or a competitive equestrian sportsperson, parent(s) or coach/instructor of an equestrian sportsperson and, able to comprehend written or spoken English.

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Advertisement of the study and distribution of the e-survey link was facilitated through recruitment drives (over a period of five months; January – May 2016) over social media (Facebook and Twitter), advertisement in an international equestrian magazine, and posters in equestrian colleges/centres.

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All participants who completed the e-survey were invited to participate in the interview-based phase of the research through 'opting in' via contacting the lead author as a declaration of interest. Semi-structured interviews were organised through follow-up e-mail correspondence. All interviews were digitally recorded and transcribed verbatim.

Participants

The final e-survey sample included 155 participants (female, n=148) with the majority within the age bracket 35-44 years old (23%) and of a United Kingdom nationality (81%). The sample contained individuals from a comprehensive range of equestrian disciplines with various levels of expertise within that discipline (e.g., from amateur to advance/professional Table 1.), who described themselves as equestrian sportspeople (92%), parents of an equestrian sportsperson (10%) or instructor/coach (26%), with most having over 16 years of experience within equestrian sport (67%).

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The semi-structured interview comprised a small purposive sample of eight participants (75% female) consisting of equestrian sportspeople (88%). Forty percent of the participant sample identified as coaches/instructors. The semi-structured interview sample was recruited via the e-survey sample (75% of total semi-structured interview sample) and equestrian colleges/centres (25%).

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Data Analysis

The transcripts from the semi-structured interviews along with subjective information gathered from the completed e-surveys were analysed using inductive thematic analysis (six phase procedure), a qualitative method for identifying and analysing themes which emerge from the data (Braun & Clarke, 2006). To ensure consistency of approach, validity and reliability, after interviews were transcribed, they were repeatedly read and coded independently by the lead author and an assistant clinical psychologist. The resultant codes were reviewed by a colleague experienced in qualitative data analysis (Phase 1. & 2.). Codes were collated into potential themes based on data that appeared repeatedly. Interpretations of all the qualitative data compared, discussed and agreed upon (Phase 3.). Themes were reviewed and further refined, with the development of a thematic map (Figure 1.) when all team members were satisfied that the themes represented the data set (Phase 4. & 5.). The themes are detailed in this document (Phase 6.).

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176 **Results**

177 **Strong** thematic commonalities were found regardless of participant expertise

178 or equestrian discipline. Five main themes, **22 first-order themes and 16 second-order**

179 **themes** emerged from the data (*Figure 1.*). Quotations were selected for inclusion in

180 the paper if considered illustrative of key themes.

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182 **INSERT FIGURE 1 HERE**

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184 **Theme 1: Emotional Wellbeing in Balance**

185 **The** main theme of ‘**emotional wellbeing in balance**’ contained four **first-**

186 **order themes**; ‘*inclusive*’, ‘*focused & organised thoughts*’, ‘*positive sense of self*’

187 and, ‘*positive in actions & interactions*’.

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188 Psychological wellbeing and mental health was considered by participants as

189 ‘*inclusive*’ and something which all individuals negotiate daily. **Fundamental**

190 **elements** were deemed by participants as contributing to, and being a consequence of,

191 **sustainable “good mental health”**. Logical decision making, successful problem-

192 solving, and realistic expectations of self were deemed key **factors** in demonstrating

193 ‘*focused & organised thoughts*’. The ability to negotiate a range of emotions, cope

194 with adversity and trust “*gut feelings*” all contributed to a ‘*positive sense of self*’.

195 Additionally, individuals who are ‘*positive in actions and interactions*’ (defined as

196 embracing challenges and opportunities as well as meaningful interaction with others)

197 were considered to maintain psychological wellbeing ‘in balance’.

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198 “[mental health is]...*being comfortable and confident in your life, happy to be*

199 *stretched and challenged, meet people, be on your own etc. manage setbacks and take*

200 *up opportunities.*”

Theme 2: Emotional Wellbeing Imbalance

Six first-order themes emerged from the main theme of ‘emotional wellbeing imbalance’ including ‘contextual’, ‘spectrum of imbalance’, ‘disorganised thoughts’, ‘negative sense of self’, ‘personal & professional relationship difficulties’ and ‘physical health difficulties’.

Life experiences, upbringing and childhood influences were identified as significant ‘contextual’ factors contributing both positively and negatively to an individual’s psychological wellbeing and mental health. Participants referred to a range of ‘mental health difficulties’ which vary in complexity, severity and intensity, suggestive of a ‘spectrum of imbalance’. However, ‘disorganised thoughts’, typified by issues with problem-solving, reduction in focus, forgetfulness, increased tendency to make “illogical and irrational” decisions, and a ‘negative sense of self’, inclusive of negative self-belief, low self-esteem and confidence, were indicators of mental health difficulties. ‘Personal and professional relationship difficulties’ were identified consequences to confusion over change in an individual’s behaviour and interaction as a result of an individual struggling to manage their mental health. Additionally, ‘physical health difficulties’ were perceived as both cause and consequence of problems with psychological wellbeing. Genetic predisposition was considered by some participants to contribute to mental health difficulties, whilst brain dysfunction and susceptibility to illness were perceived to be more as consequences.

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Theme 3: Wellbeing *Imbalance* – Impact on Equestrian Sportspeople

The main theme of ‘wellbeing *imbalance* – impact on equestrian sportspeople’ contained five first-order themes; ‘*negative thoughts, emotions and self-belief*’, ‘*perceptions of pressure and judgement*’, ‘*unpredictable behaviour and increased risk-taking*’, ‘*changes in horse-rider partnership*’ and, ‘*inhibited performance, progression and development*’.

Sport-specific consequences for those equestrian sportspeople struggling to manage mental health difficulties were characterised by ‘*negative thoughts, emotions and self-beliefs*’ about ability and distorted ‘*perceptions of pressure and judgement*’ typified by unrealistic goal-setting, reduced focus, concentration and ability to learn, sensitivity to judgements, constructive criticism and taking instruction and, excessively comparing self with others. Both ‘*negative thoughts, emotions and self-beliefs*’ and ‘*perceptions of pressure and judgement*’ were considered contributory factors to avoiding competitions, “*losing their bottle*” (i.e., losing the courage to do something), struggling with motivation, and ultimately, disengagement. ‘*Unpredictable behaviour and increased risk-taking*’ including unusual changes in behaviour, recklessness (around themselves, others and with horses), increased falls, alongside identifiable ‘*changes in the horse-rider partnership*’ (e.g., horse performance deterioration, decreased confidence displayed by the horse) were considered indicators of an individual struggling with psychological wellbeing. Consequently, ‘*performance, progression and development*’ could be inhibited to the point where it could “*ruin your career*”.

“It [mental health difficulties] impacts in every aspect, the way you ride, the way you come into a jump, the route you plan, and the way the horse acts as well, because it is the horse reacting to your body language and how you are so if you are

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not psychologically prepared for what you are doing, that effects how the horse goes,
and effects your whole level of competition.”

Theme 4: Impact of Equestrian Sport on Wellbeing

Two first-order themes of ‘*wellbeing imbalance*’ and ‘*promotes wellbeing in balance*’ emerged from the main theme. Five second-order themes (‘horse ownership/industry demands’, ‘sport/life balance’, ‘danger of the sport’, ‘fitting in’ and ‘pressure and expectations regarding competition and success’ were associated with the first-order theme of ‘*wellbeing imbalance*’. With the first-order theme of ‘*promotes wellbeing in balance*’ comprising two second-order themes (‘increases emotional resilience’ and ‘therapeutic success and achievement’).

Stress factors contributing to ‘*wellbeing imbalance*’ were associated with the physical and psychological demands of horse ownership (i.e., working conditions, financial pressures etc.), wider industry issues (e.g., impact of economic downturn; ‘fitting in’ with peers), negotiating sport/life balance and, the danger of the sport (e.g., illness/loss of horse(s) and colleagues; consequences of accidents and injury). Equally, pressures and expectations (personal and external) and the implication of achievement in competitions (e.g., losing a sponsor, future business etc.) were influential to psychological wellbeing.

Conversely, equestrian sport was considered to actively ‘*promote wellbeing in balance*’ through the many opportunities to increase self-belief and self-esteem (i.e., success in competition or training). Additionally, negotiating the sporting “ups and downs” was identified as promoting and enhancing emotional resilience. A “therapeutic” element in ‘*promoting wellbeing in balance*’ was recognised as the unique horse-rider relationship/partnership.

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“Stress of preparation for and competing in competitions can have a negative impact on the mental state of sportspeople which can also affect their performance ability. However, equestrianism can also have a positive effect on the performance ability and mental state of an individual through achievements.”

Theme 5: Regaining Balance

Five first-order themes emerged from the main theme ‘regaining balance’ including ‘general approaches’, ‘sport-specific approaches – self’, ‘sport-specific approaches – instructor/coach’, ‘bounce-back ability’ and, ‘sport-specific changes’. Three second-order themes were identified for; ‘sport-specific approaches – self’ (‘seek help & advice’, ‘self-management’ and ‘self-assess and educate’), ‘sport-specific approaches – instructor/coach’ (‘empathetic listening & open conversation’, ‘support, suggest & advise’ and, ‘practical support strategies’) and ‘sport-specific changes’ (‘culture change’, ‘reduce stigma & raise awareness’ and, ‘accessible specialist input/approaches’).

Seeking general professional help and support were identified as important ‘general approaches’ for any individual struggling to manage mental health difficulties. Self-assessment of the issue, educating oneself and/or actively seeking help and advice from trusted others and personal ‘support systems’ were recognised as self-perpetuated strategies to understanding and approaching difficulties. Equally, self-management of difficulties through recreational drugs, alcohol, unhealthy eating, ‘covering up’ the problem, and doing nothing were identified approaches (‘sport-specific approaches – self’). Practical techniques including changing and tailoring lesson plans to address approaches to stressors, re-directing goals (e.g., less performance orientated), removing time pressures and sharing stress management

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strategies were potential tactics to support riders in managing mental health difficulties (***‘sport-specific approaches – instructor/coach’***). Specific techniques on how instructor/coaches approach individuals, such as allowing time and space for the individual to talk, asking how someone is feeling, “truly” listening, verbally acknowledging problems and efforts, and signposting to professionals and family, were deemed helpful support strategies. Participants highlighted that those equestrian sportspeople who are managing and negotiating specific mental health difficulties have ***‘bounce-back ability’***, described as an extra-ordinary strength and resilience built from personal challenges.

Various ***‘sport-specific changes’*** were identified as desirable to enable promotion of psychological wellbeing and aid in reducing stigma. Practical changes suggested were for governing bodies to provide specific regulations regarding work conditions (e.g., fixed pay, accommodation of health and holiday pay etc.), competitions (i.e., prize money, team selection) and sponsorship terms. More openness, disclosure and sympathetic discussion within popular equestrian media about mental health issues authored by specialists and professional equestrian athletes should be encouraged. Increasing the cohesion between the disciplines and reducing emphasis on “winning” were both identified as enabling equestrian sportspeople to feel involved within a supportive community. Participants believed that more sport-specific psychological research and access to specialist input by training of instructors/coaches, or via group training would be of significant value in normalising conversations about psychological wellbeing and mental health.

“...more access to training on how you deal with the emotional side of your client, and your competitor. I must admit that as a riding instructor, I sometimes feel that I would be far better as a trained psychologist as I am dealing with some really

quite profound emotional issues that some people have got, so I think that might be quite helpful.”

Discussion

This qualitative study explored the perceptions of a diverse range of equestrian sportspeople as to their understanding and awareness of mental health difficulties, the impact on their personal lives and on their sport. Common perspectives were found with five main themes, 22 first-order themes and 16 second-order themes emerging from the data. Two themes (*‘emotional wellbeing in balance’*; *‘emotional wellbeing imbalance’*) offer general insight into awareness and understanding of mental health difficulties and were not specific to equestrian sport. Three sport-specific themes (*‘wellbeing imbalance – impact on equestrian sportspeople’*; *‘impact of equestrian sport on wellbeing’*; *‘regaining balance’*) provide focus on particular considerations.

Mental health and psychological wellbeing was generally recognised as a ‘balance’ negotiated by everyone, contextually-determined, and ranged on a spectrum varying in complexity and severity. Changes in thought functionality (organised/disorganised), ‘sense of self’, actions and interaction reflected individual mental health and psychological wellbeing. Physical health issues were seen as being both cause and effect of mental health difficulties.

Unmanaged mental health difficulties were perceived to increase negative beliefs, distort perceptions of pressure and judgement, alter behaviours and reactions, significantly influence changes in horse-rider relationship and thereby generally inhibit performance, progression and development. Physical, psychological and social sport-specific pressures associated with the equestrian lifestyle and competition were also thought to contribute negatively to emotional wellbeing, exacerbate mental health

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difficulties and affect performance. Conversely, it was acknowledged that involvement in equestrian sport can promote emotional wellbeing through the development of robust resilience, generate positive self-esteem from achievement and provide a unique 'therapeutic' experience in the horse-rider relationship.

Equestrian sportspeople appear to manage mental health difficulties either through general approaches (e.g., visit GP) and/or sport-specific strategies including 'self-management' techniques and methods led and supported by the 'instructor/coach'. Self-management strategies were predominantly associated with self-generated assessment, self-education and intervention through unhealthy strategies (e.g., 'do nothing', recreational drugs). Instructor/coach-led strategies tended to be practical support (i.e., re-directing goals; tailoring sessions etc.) and general conversational strategies (e.g., utilising an empathetic and validating approach). Clear sport-specific changes were identified as potential significant steps forward in changing cultural perspectives and reducing stigma and censure with these including education provision, increased media publicity, governing body and professional athlete endorsement and improved access to specialist professionals.

This study provides holistic consideration of the experiences of equestrian athletes but unlike previous research is not exclusive of any particular mental health diagnosis (e.g., eating disorders, Monsma et al., 2013; depression, Hammond, Gialloreti, Kubas, & Davis, 2013) or coping strategies (i.e., disordered eating, Plateau, McDermott, Arcelus, & Meyer, 2014; alcohol abuse, Vamplew, 2012). The findings offer additional perspective and insight into potential factors contributing to mental health and wellbeing not only within equestrian sport but with application to sport in general.

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376 *Limitations*

377 The study obtained a broad international scope of opinion and, as inherent in
378 qualitative research, findings are subjective, contextually-bound and not necessarily
379 representative of a universal perspective of equestrian sportspeople. The majority of
380 participants were female, a possible reflection of gender disparity within both the
381 sport (Plymth, 2012) and/or a gender willingness to disclose mental health difficulties
382 both in general population (Martin, Lavalee, Kellmann, & Page, 2004) and amongst
383 athletes (Hammond et al., 2013).

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385 *Clinical and Practice Implications*

386 Four key clinical and practical implications emerged from the findings. Firstly,
387 and in correspondence with previous sport psychology research (e.g., Gulliver,
388 Griffiths, & Christensen, 2012; Junge & Feddermann-Dermot, 2016), the findings
389 underline the importance of promoting greater awareness. Provision of training
390 specifically for instructors/coaches offering psycho-education about mental health
391 within the equestrian field and suggestion of practical techniques (e.g., conversational
392 approaches, when to advise referral etc.) would provide meaningful and an empathetic
393 dimension above and beyond that of 'physical skills training' (as advocated by
394 previous research; Plateau et al., 2014). Equally, and as a means of promoting a
395 cultural shift, a mental health module could be produced as part of the syllabus to
396 equestrian training exams, a suggestion also promoted in previous research involving
397 coaches within other elite sport (Biggin et al., 2017; Pensguard & Roberts, 2000).
398 Raising awareness and educating individuals about mental health difficulties and the
399 importance of psychological wellbeing, aids in promoting open and ongoing
400 discussion with the potential to reduce stigma and promote (healthy) help-seeking

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behaviours and engagement with services and professionals (Biggin et al., 2017; Gulliver et al., 2012; Mind, 2014).

Secondly, increased access to, and publicity about, the best placed psychological professionals specialising in equestrian sport, mental health and psychological wellbeing would promote destigmatisation and potentially early detection and intervention. Additionally, a pro-active approach would prevent confusion and uncertainty for athletes, coaches and parents, as to who to approach whilst also prevent professionals attempting to practice outside of their competencies (Biggin et al., 2017). Publicity could be facilitated through clinics/workshops and articles in popular media whilst also endorsed by governing bodies and sporting professionals. Equally, sports psychologists would benefit greatly by specialist training and/or access to supervision opportunities with clinical psychologists would aid and support towards early detection and access to specialist intervention if required.

Thirdly, as advocated by the findings within this study whilst also research on equine-assisted therapy with various (clinical) population groups (e.g., adults, Bizub, Joy & Davidson, 2003; children, Schultz, Remick-Barlow & Robbins, 2007) the horse-rider relationship appears to have specific unique therapeutic benefits in promoting mental health and psychological wellbeing. Equestrian sportspeople may have exclusive opportunity to psychologically benefit from the attachment developed as part of the 'horse-rider' dyad. As such, mental health programmes and training for athletes and instructors/coaches need to ensure some focus on the impact of the horse-rider dynamic and how to readdress any relational imbalance.

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Fourthly, increased recognition and support is required from sporting governing bodies by a general review of policy and changes in regulation within equestrian sport.

Future directions

Further studies with a focus to specific disciplines, expertise levels and/or groups (e.g., instructors or athletes) would provide insight into the subtle inter-discipline differences in perspectives, so expanding the development of targeted education and intervention.

In promoting psychological wellbeing offered to the equestrian community future specialist training should be augmented with considered intervention techniques, continually reviewed as to applicability, impact, and effectiveness on individual mental health, horse-rider relationship and performance outcomes. Further exploration into how skills gained from these interventions are incorporated into the daily functioning of an equestrian athlete would inform future provision, policy and research.

Conclusion

This study explores the understanding of mental health difficulties and psychological wellbeing from the perspectives of athletes, instructors/coaches and parents from a diverse range of equestrian sport. The nature of obtaining data via internet communication has enabled international input. The findings offer new insight into sport-specific factors which may promote or compromise the mental health of equestrian athletes. Future research and sport-specific initiatives would

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448 advance techniques in promotion of psychological wellbeing and, prevention, support
449 and recovery of those equestrian athletes experiencing mental health difficulties.

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452 **Competing Interests:** None.

453 **Ethics Approval:** Granted by the University of Central Lancashire Ethics Committee.

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454 **Declaration of Interest:** None of the authors of the manuscript have declared any

455 conflict of interest, which may arise from being named as an author on this

456 manuscript. There were no funding sources for this study.

References

- Arthur-Cameselle, J., Sossin, K., & Quatromoni, P. (2017). A qualitative analysis of factors related to eating disorder onset in female collegiate athletes and non-athletes. *Eating Disorders*, 25(3), 199-215.
- Bär, K.-J., & Markser, V.Z. (2013). Sport specificity of mental disorders: the issue of sport psychiatry. *European Archives of Psychiatry and Clinical Neuroscience*, 263, s205-s210. doi:10.1007/s00406-013-0458-4
- BBC Sport (2015, October 5). Clarke Carlisle says some sports 'lagging on mental health'. Retrieved October 18, 2015, from <http://www.bbc.co.uk/sport/0/football/34424496>
- Biddle, S. J.H., & Mutrie, N., (2008). *Psychology of Physical Activity: Determinants, Well-Being and Interventions*. (2nd Ed.). London and New York: Routledge
- Biggin, I.J.R., Burns, J.H., & Uphill, M. (2017). An investigation of athletes' and coaches' perceptions of mental ill-health in elite athletes. *Journal of Clinical Sport Psychology*, 11, 126-147. doi.org/10.1123/JCSP.2016-0017
- Bizub, A.L., Joy, A., & Davidson, L. (2003). "It's like being in another world": demonstrating the benefits of therapeutic riding for individuals with psychiatric disability. *Psychiatric Rehabilitation Journal*, 26(4), 377-384. doi.org/10.2975/26.2003.377.384
- Braun, V., & Clarke, V. (2006). Using thematic analysis in psychology. *Qualitative Research in Psychology*, 3, 77-101. doi.org/10.1191/1478088706qp064oa
- British Horse Society. *Equestrian statistics*. Retrieved October 20, 2015, from <http://www.bhs.org.uk/our-charity/press-centre/equestrian-statistics>

480 Caulfield, M.J., & Karageorghis, C.I. (2008). Psychological effects of rapid weight
 481 loss and attitudes towards eating among professional jockeys. *Journal of Sports*
 482 *Sciences*, 26, 877-883. doi.org/10.1080/02640410701837349

483 Creswell, J.W. (2014). *Research design: qualitative, quantitative and mixed methods*
 484 *approaches*. London, UK: Sage.

485 Daley, A. (2008). Exercise and depression: a review of reviews. *Journal of Clinical*
 486 *Psychology in Medical Settings*, 15, 140-147. doi 10.1007/s10880-008-9105

487 Davis, L., & Jowett, S. (2014). Coach-athlete attachment and the quality of the coach-
 488 athlete relationship: implications for athlete's well-being. *Journal of Sports*
 489 *Sciences*, 32(15), 1454-1464. doi.org/10.1080/02640414.2014.898183

490 Dolan, E., McGoldrick, A., Davenport, C., Kelleher, G., Byrne, B., Tormey, W.,
 491 Smith, D., & Warrington, G.D. (2012). An altered hormonal profile and elevated
 492 rate of bone loss are associated with low bone mass in professional horse-racing
 493 jockeys. *Journal of Bone and Mineral Metabolism*, 30(5), 534-542. doi
 494 10.1007/s00774-012-0354-4

495 Dosil, J. (2008). *Eating disorders in athletes*. Wiley: England.

496 Felton, L., & Jowett, S. (2017). Self-determination theory perspective on attachment,
 497 need satisfaction, and well-being in a sample of athletes: a longitudinal study.
 498 *Journal of Clinical Sport Psychology*, 11(4), 304-323.

499 Funnell, P. (2004). *Pippa Funnell: the autobiography*. Orion: Great Britain.

500 Gardner, F., & Moore, Z. (2006). *Clinical sport psychology*. United States of
 501 American: Human Kinetics.

502 Gulliver, A., Griffiths, K.M., & Christensen, H. (2012). Barriers and facilitators to
 503 mental health help-seeking for young elite athletes: a qualitative study. *BMC*
 504 *Psychiatry*, 12, 157. doi:10.1186/1471-244X12-157

505 Gulliver, A., Griffiths, K.M., Christensen, H., Mackinnon, A., Callear, A., Parsons, A.,
506 ...et al. (2012). Internet-based interventions to promote mental health help-
507 seeking in elite athletes: an exploratory randomised controlled trial. *Journal of*
508 *Medical Internet Research*, 14(3), 120-137. doi:10.2196/jmir.1864

509 Gulliver, A., Griffiths, K.M., Mackinnon, A., Batterham, P.J., & Stanimirovic, R.
510 (2015). The mental health of Australian elite athletes. *Journal of Science and*
511 *Medicine in Sport*, 255-261. doi:10.1016/j.jsams.2014.04.006

512 Hammond, T., Gialloreti, C., Kubas, H., & Davis, H. (2013). The prevalence of
513 failure-based depression among elite athletes. *Clinical Journal of Sport*
514 *Medicine*, 23(4), 273-277. doi:10.1097/JSM.0b013e318287b870

515 Hughes, L., & Leavey, G. (2012). Setting the bar: athletes and vulnerability to mental
516 illness [Editorial]. *The British Journal of Psychiatry*, 200, 95-96. doi:
517 10.1192/bjp.bp.111095976

518 Junge, A., & Feddermann-Demont, N. (2016). Prevalence of depression and anxiety
519 in top-level male and female football players. *British Medical Journal Open*
520 *Sport & Exercise Medicine*, 2, e000087. doi:10.1136/bmjsem-2015-000087

521 Kamm, R.L. (2008). Diagnosing emotional disorders in athletes: a sport psychiatrists
522 perspective. *Journal of Clinical Sport Psychology*, 2, 178-201.

523 Landolt, K., O'Halloran, P., Hale, M.W., Horan, B., Kinsella, G., Kingsley, M., &
524 Wright, B.J. (2017). Identifying the sources of stress and rewards in a group of
525 Australian apprentice jockeys. *Qualitative Research in Sport, Exercise and*
526 *Health*, 9(5), 583-599. doi.org/10.1080/2159676X.2017.1340329

527 Martin, S., Lavalley, D., Kellmann, M., & Page, S. (2004). Attitudes toward sport
528 psychology consulting of adult athletes from the United States, United Kingdom

and Germany. *International Journal of Sport and Exercise Psychology*, 2, 146-160. doi: 10.1080/1612197X.2004.9671738

Mathieson, A. (2015, May 11). Report finds athletes are afraid of admitting mental health problems. *Horse & Hound*. Retrieved from <http://www.horseandhound.co.uk/news/report-finds-athletes-are-afraid-of-admitting-mental-health-problems-489555>

Commented [HB53]: Reviewer 1# Point 25.

McBride, S.D., & Mills, D.S. (2012). Psychological factors affecting equine performance. *Bio Medical Council Veterinary Research*, 8(180), 1-11. doi.org/10.1186/1746-6148-8-180

Milroy, J.J., Hebard, S., Kroshus, E., & Wyrick, D.L. (2017). Sport-related concussion reporting and coach-athlete attachment among collegiate student-athletes. *Journal of Clinical Sport Psychology*, 1 – 23. doi.org/10.1123/icsp.2017-0029

Mind (2014). Mental health in elite sport. Retrieved October, 20, 2015, from <http://www.mind.org.uk/news-campaigns/campaigns/sport-and-mental-health/>

Monsma, E.V., Gay, J.L., & Torres-McGehee, T.M. (2013). Physique related perceptions and biological correlates of eating disorder risk among female collegiate equestrians. *Journal of Athletic Enhancement*, 2:2. doi: 10.4172/2324-9080.1000107.

Nicholls, A.R., McKenna, J., Polman, R.C.J., & Backhouse, S. (2011). Overtraining during preseason: stress and negative affective states among professional rugby union players. *Journal of Clinical Sport Psychology*, 5, 211-222.

Peluso, M.A.M., & de Andrade, L.H.S. (2005). Physical activity and mental health: the association between exercise and mood. *Clinic*, 60(1), 61-70.

553 Pensgaard, A.M., & Roberts, G.C. (2000). The relationship between motivational
 554 climate, perceived ability and sources of distress among elite athletes. *Journal of*
 555 *Sports Sciences*, 8(3), 183-189.
 556 Plateau, C.R., McDermott, H.J., Arcelus, J., & Meyer, C. (2014). Identifying and
 557 preventing disordered eating among athletes: perceptions of track and field
 558 coaches. *Psychology of Sport and Exercise*, 15, 721-728.
 559 doi.org/10.1016/j.psychsport.2013.11.004
 560 Plymouth, B. (2012). Gender difference within equestrian sports: an issue of
 561 difference and inequality. *Sport in Society*, 15(3), 335-348.
 562 Pummell, B., Harwood, C., & Lavallee, D. (2008). Jumping to the next level: a
 563 qualitative examination of within-career transition in adolescent event riders.
 564 *Psychology of Sport and Exercise*, 9(4), 427-447.
 565 doi.org/10.1016/j.psychsport.2007.07.004
 566 Reardon, C.L., & Factor, R.M. (2010). A systemic review of diagnosis and medical
 567 treatment of mental illness in athletes. *Sports Medicine*, 40(11), 961-980.
 568 doi:10.2165/11536580
 569 Rice, S.M., Purcell, R., De Silva, S., Mawren, D., McGorry, P.D., & Parker, A.G.
 570 (2016). The mental health of elite athletes: a narrative systematic review. *Sports*
 571 *Medicine*, doi:10.1007/s40279-016-0492-2
 572 Rice, S.R., Parker, A.G., Rosenbaum, S., Bailey, A., Mawren, D., & Purcell, R.
 573 (2018). Sport-related concussion and mental health outcomes in elite athletes: a
 574 systematic review. *Sports Medicine*, 48(2), 447-465.
 575 Schultz, P.N., Remick-Barlow, G.A., & Robbins, L. (2007). Equine-assisted
 576 psychotherapy: a mental health promotion/intervention modality for children

577 who have experienced intra-family violence. *Health and Social Care in the*
578 *Community*, 15(3), 265-271. doi.org/10.1111/j.1365-2524.2006.00684.x

579 Shanmugam, V., Jowett, S., & Meyer, C. (2013). Eating psychopathology amongst
580 athletes: the importance of relationships with parents, coaches and teammates.
581 *International Journal of Sport and Exercise Psychology*, 11, 24-38.

582 Shanmugam, V., Jowett, S., & Meyer, C. (2011). Application of the transdiagnostic
583 cognitive-behavioural model of eating disorders to the athletic population,
584 *Journal of Clinical Sport Psychology*, 5, 166-191.

585 Tenenbaum, G., Lloyd, M., Pretty, G., & Hanin, Y.L. (2002). Congruence of actual
586 and retrospective reports of precompetitive emotions in equestrians. *Journal of*
587 *Sport and Exercise Psychology*, 24, 271 – 288. doi.org/10.1123/jsep.24.3.271

588 Thompson, K., & Nesci, C. (2016). Over-riding concerns: developing safe relations in
589 the high-risk interspecies sport of eventing. *International Review for the*
590 *Sociology of Sport*, 51(1), 97-113. doi: 10.1177/1012690213513266

591 Topolovec-Vranic, J., Zhang, S., Wong, H., Lam, E., Jing, R., Russell, K. ...et al.
592 (2015). Recognising the symptoms of mental illness following concussions in
593 the sports community: a need for improvement. *PLoS ONE* 10(11): e0141699.
594 doi:10.1371/journal.pone.0141699

595 Torres-McGehee, T.M., Monsma, E.V., Gay, J.L., Minton, D.M., & Mady-Foster,
596 A.N. (2011). Prevalence of eating disorder risk and body image distortion
597 among national collegiate athletic association division I varsity equestrian
598 athletes. *Journal of Athletic Training*, 46(4), 431-437. doi.org/10.4085/1062-
599 6050-46.4.431

600 Vamplew, W. (2012). Bulimic practices and alcohol consumption: performance
601 enabling performance enhancing mechanisms in nineteenth-century British sport.
602 *Performance Enhancement & Health*, 1, 51-54.

603 Wolfram, I., Shearman , J., & Micklewright, D. (2010). A preliminary investigation
604 into mood states of advanced and novice dressage riders prior to competition.
605 *Journal of Veterinary Behaviour: Clinical Application and Research*, 5, 211.