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Accepted Manuscript

The 2 \times 2 model of perfectionism and youth sport participation: A mixed-methods approach

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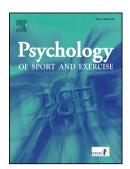
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5 exploration of the experiences of youth sport participants exhibiting different subtypes of 6 perfectionism using mixed-methods. 7 **Design:** A two-stage, mixed-methods, approach was adopted (quantitative identification then 8 qualitative data collection). 9 Method: In stage one (quantitative identification), 192 females enrolled in school- or 10 community-based sport groups (M age = 13.91; SD = .90; range 12 to 16 years) completed a 11 domain-specific perfectionism instrument (Sport-MPS-2) to identify participants prototypical 12 of the four subtypes of perfectionism. In stage two (qualitative data collection), 19 13 prototypical participants (M age = 13.74; SD = .65; range 13 to 15 years) described their 14 experiences of their youth sport involvement. One focus group (n = 4 to 5 per group) and one 15 follow-up individual, semi-structured, interview (n = 4 in total) per subtype were conducted.

16 **Results:** Thematic analysis revealed that the meaning youth sport participants gave to their

17 sport involvement (i.e., goals, values, and purposes) and the features of the social-

18 environment they perceived to be important differed between the four subtypes of

19 perfectionism. For the "pure PSP" and "mixed perfectionism" subtypes, sport was a time to

20 shine and experience success. For the "non-perfectionism" and "pure ECP" subtypes, sport

21 was a place to make friends and belong. Participants from all four subtypes described the

importance of the coach and peers, with some groups identifying different preferred roles forthe coach in terms of type and amount of involvement.

Conclusions: Youth sport participants exhibiting different subtypes of perfectionism vary in
 their experiences of youth sport. Practitioners working with young people in sport should
 consider these differences so to better understand and improve youth sport experiences.

27 *Keywords: qualitative; personality; motivation; parents; peers; coaches*

30	motor skins, experience enhanced physical and psychological wen-being, and bund
31	friendships and good moral character (e.g., Weiss, Kipp, & Bolter, 2012). Although
32	participating in sports offers a range of desirable outcomes, this is not the case for all
33	participants; sport can also be a source of negative experiences and undesirable outcomes
34	(e.g., Fraser-Thomas & Côté, 2009). For example, long-lasting physical injuries, disordered
35	eating, interpersonal difficulties, and morally questionable behaviors are also evident in youth
36	sports (e.g., Martin, Gould, & Ewing, 2017). Whether sport is a positive, negative, or mixed
37	experience for young people, and what young people come to understand about their own
38	experiences, is known to be determined by a complex set of personal and contextual factors
39	that collectively shape sport as a social domain (Roberts, 2012). Research dedicated to this
40	topic seeks to identify what personal and contextual factors are most important and the ways
41	in which these factors act upon one another. We do so in the current study by focusing on
42	whether different subtypes of perfectionism are associated with different experiences of youth
43	sport.
44	Multidimensional perfectionism and the 2×2 model in sport
45	
-	Perfectionism is a multidimensional personality characteristic that involves setting and
46	Perfectionism is a multidimensional personality characteristic that involves setting and striving for exceedingly high standards of performance accompanied by harsh critical
46	striving for exceedingly high standards of performance accompanied by harsh critical
46 47	striving for exceedingly high standards of performance accompanied by harsh critical evaluations (Frost, Marten, Lahart, & Rosenblate, 1990). Several models and measures are
46 47 48	striving for exceedingly high standards of performance accompanied by harsh critical evaluations (Frost, Marten, Lahart, & Rosenblate, 1990). Several models and measures are used to study perfectionism. However, perfectionism can be considered to have two broad

52 strive for their attainment" (Gaudreau & Antl, 2008, p. 357). Conversely, ECP "entails a

33 (Gaudieau & Anti, 2008, p. 337).

56 Although initially research focused on examining these dimensions independently, 57 more recently researchers have begun to examine combinations of these two dimensions. 58 This approach was formalized by Gaudreau and Thompson (2010) in the form of a 2×2 59 model of perfectionism, which includes four subtypes (or within-person combinations) of 60 perfectionism. As outlined by Gaudreau and Thompson (2010), the first subtype of 61 perfectionism is termed "non-perfectionism" and is characterized by low or no personal 62 orientation towards perfectionistic standards and no sense of perceived pressure from others 63 to pursue perfectionistic standards (low PSP/low ECP). The second subtype is "pure PSP" and 64 is characterized by holding perfectionistic standards that are derived solely from the self (high PSP/low ECP). The third subtype is "pure ECP" and is characterized by the pursuit of 65 66 perfectionistic standards derived from pressures in the social-environment (low PSP/high 67 ECP). The fourth subtype is "mixed perfectionism" and is characterized by perceived pressure 68 from significant others to strive for perfection but also personal adherence to perfectionistic 69 standards (high PSP/high ECP). 70 The 2×2 model includes hypotheses that propose differences between the four 71 subtypes based on concepts such as internalization, motivation regulation, and person-72 environment congruence (see Gaudreau, 2016). Hypothesis 1 offers three competing 73 assertions that pure PSP will either be associated with better (H1a), poorer (H1b), or no 74 different (H1c) outcomes compared with non-perfectionism. Hypothesis 2 (H2) asserts that

non-perfectionism will be associated with better outcomes compared to pure ECP. Hypothesis

76 3 (H3) asserts that mixed perfectionism will be associated with better outcomes compared to

19	Gaudreau (2010) recently reviewed research examining the 2×2 model in sport and
80	dance. Seven studies were considered in Gaudreau's review (Cumming & Duda, 2012;
81	Crocker, Gaudreau, Mosewich, & Kljajic, 2014; Gaudreau & Verner-Filion, 2012; Hill,
82	2013; Hill & Davis, 2014; Mallinson, Hill, Hall, & Gotwals, 2014; Quested, Cumming, &
83	Duda, 2014). These studies included predominantly adult sport participants ($k = 2$), youth
84	sport participants ($k = 2$), youth dancers ($k = 2$), and adult coaches ($k = 1$), and a range of
85	outcomes. Of these outcomes, some could be considered indicative of more positive
86	experiences among athletes and dancers (e.g., positive affect, intrinsic motivation, and
87	physical self-worth) and other outcomes indicative of more negative experiences (e.g.,
88	negative affect, fear of failure, and burnout). For each study, Gaudreau calculated effect sizes
89	and demonstrated that H1a was supported more often than H1b (89% of the time). H2 and H4
90	were supported the most (supported 97% of the time). Finally, H3 was supported the least
91	(80% of the time) with the notable exceptions being two studies in dance in which mixed
92	perfectionism was associated with worse outcomes when compared to pure ECP (see
93	Cumming & Duda, 2012; Quested, Cumming, & Duda, 2014). Overall, then, research has
94	generally provided support for the 2×2 model in terms of understanding differences in sport
95	experiences.

96 **Perfectionism in sport and qualitative research methods**

97 One feature of all studies examining the 2×2 model is that they have exclusively 98 relied on quantitative methods. Quantitative research methods have enabled the hypotheses of 99 the 2×2 model to be probed in a way that they can be supported (or contradicted) with some 100 degree of certainty. However, solely relying on such methods has the potential to produce an 101 artificial, static, and limited view of individuals' experiences (Cohen, Manion, & Morrison,

104 2007). Sport is a particularly complex setting and the experiences of auncies change over time 105 and contexts. In this regard, qualitative research methods are well suited to studying such 106 complexity and can offer a broader perspective on how and why phenomena might occur 107 (Sparkes & Smith, 2014). In context of perfectionism specifically, qualitative research 108 methods offer an alternative means of exploring the concept of perfectionism and an 109 opportunity to challenge (or affirm) the tenets of current models, here the 2×2 model (Hill, 110 Witcher, Gotwals, & Leyland, 2015). Three studies have used qualitative research methods to explore perfectionism in sport 111 112 so far (Gotwals & Spencer-Cavaliere, 2014; Hill et al., 2015; Sellars, Evans, & Thomas, 113 2016). Of the three studies, one study opted to interview self-identified perfectionists without 114 any quantitative method (Hill et al., 2015). In total, 15 high-level athletes and performing artists (dancers and musicians) were recruited and interviewed regarding their perceptions of 115 perfectionism. Of these participants, the majority were athletes who had competed or were 116 117 currently competing at International level (three males and four females; M age = 32 years; 118 range = 29 to 39 years). Using thematic analysis, drive, accomplishment, and strain emerged 119 as the main descriptors of how participants perceived perfectionism and its influence on their 120 lives. Drive characterized the participants' view that high standards of achievement and 121 performance are central to being a perfectionist. Accomplishment and strain highlighted the 122 specific benefits and drawbacks that participants perceived of being a perfectionist. 123 Like the intentions of the current study, the remaining two studies adopted specific 124 models of perfectionism and quantitative and qualitative methods so to explore the 125 experiences of specific groups of perfectionists. In the first study, Gotwals and Spencer-126 Cavaliere (2014) used scores on Gotwals and Dunn's (2009) Sport Multidimensional

147 perfectionists and 11 uniteduity perfectionists were subsequently interviewed regarding them 130 perspectives on achievement (M age = 21.46 years; SD = 1.96). They found the experiences 131 associated with perfectionism differed depending upon the dimensions and/or combinations of 132 perfectionism dimensions that prevailed among the athletes. Specifically, when healthy 133 perfectionism was identified, athletes were driven to accomplish reasonable and self-referent 134 goals, had better coping skills, and felt socially supported. By contrast, when unhealthy 135 perfectionism was identified, athletes reported being motivated to accomplish unreasonable 136 goals, were preoccupied with winning and avoiding failure, had worse coping skills, and 137 experienced greater interpersonal pressure.

138 In the second study, Sellars et al. (2016), like Gotwals and Spencer-Cavaliere (2014). 139 used scores on the Sport-MPS-2 to identify perfectionistic athletes. They then conducted 140 interviews solely with athletes reporting unhealthy perfectionism (high PSP/high ECP). Their 141 findings were similar to Gotwals and Spencer-Cavaliere's (2014) in that these athletes were 142 highly motivated to reach lofty personal goals, had a fear of failure, and keenly felt pressure 143 from significant others. The findings provided additional insights in terms of athletes feeling dissatisfied with current goal progress, being overly critical of mistakes, and employing a 144 145 range of skills to cope with their perfectionism (e.g., pre-performance routines). Taken 146 together, the findings of Gotwals and Spencer-Cavaliere (2014) and Sellars et al. (2016) 147 illustrate how groupings of perfectionistic athletes differ in various ways, including 148 motivational underpinnings and coping behaviors that contribute to their experiences in sport. 149 The present study 150 Despite these qualitative studies offering a broader, and arguably deeper,

151 understanding of perfectionism and experiences in sport, there are two notable limitations.

171	Method
170	combinations (or subtypes) of perfectionism.
169	provide novel insights into the sport experiences of youth participants who differ in
168	important aims: (i) to explore the 2×2 model of perfectionism in a novel manner, and (ii) to
167	involvement through use of qualitative methods. The study had the potential to satisfy two
166	quantitative research methods and, then, to explore their experiences of their youth sport
165	sport participants prototypical of the four subtypes of perfectionism in the 2×2 model using
164	With these limitations in mind, the purpose of the current study was to identify youth
163	experiences of perfectionism in youth sport different to adult sport.
162	to change across the adolescent developmental period and so this will likely render the
161	their own consideration (Merkel, 2013). In addition, perfectionism and its effects are thought
160	participants operate in sport domains that are shaped differently to adult sports and so require
159	participants and not youth sport participants. This is important because youth sport
158	that all three studies have focused on the perspectives of perfectionistic adult sport
157	model, it has yet to be explored using qualitative research methods. The second limitation is
156	while evidence using quantitative methods has begun to accrue to support the use of the 2×2
155	model of perfectionism; Gotwals & Spencer-Cavaliere, 2014; Sellars et al., 2016). Therefore,
134	perspective (i.e., finitet al., 2013) of adopted other medicatear approaches (i.e., inpartite

172 Methodology

173 Consistent with previous studies examining specific models of perfectionism (e.g.,
174 Gotwals & Spencer-Cavaliere, 2014), a two-stage, mixed-methods approach was adopted. In
175 stage one (quantitative identification) participants completed the Sport-MPS-2 (Gotwals &
176 Dunn, 2009) to identify individuals whose PSP and ECP scores reflected the four subtypes of

179	the four subtypes of perfectionism. Focus groups were selected as they enable participants to
180	share their ideas and engage in conversation with their peers. Such interactive discussions
181	enabled both individual and collective insights into their sport experiences to be gained and
182	facilitated the identification of similar and different experiences (Kitzinger, 2005; Smith &
183	Sparkes, 2017). However, a limitation of focus groups is the public nature of the data
184	collection (Sparkes & Smith, 2014). Thus, to gain further insights into experiences and
185	clarification of the ideas that may be indicative of the socially constructed experiences of
186	individuals in each of the four subtypes of perfectionism, an individual, semi-structured,
187	follow-up interview was conducted with one participant from each group. The participant
188	selected was the individual considered the most prototypical of their subtype of perfectionism,
189	based on their scores for PSP and ECP and/or their focus group responses (as detailed in the
190	procedure). Overall, the two-stage, mixed-methods approach had a greater focus on the
191	qualitative over quantitative data. The approach was adopted because it allowed for a detailed
192	description of the experiences of numerous individuals representative of the four subtypes of
193	perfectionism in the 2×2 model of perfectionism (Sparkes, 2015; Sandelowski, 2000).
194	Overall, the study was approached from an interpretivist perspective, underpinned by
195	epistemological social constructivism (knowledge is believed to be socially constructed) and
196	ontological relativism (reality is multifaceted and subjective) (Sparkes & Smith, 2014). Such
197	an approach encouraged the emphasis of qualitative over quantitative data. The quantitative
198	data was collected solely to ensure that we accounted for the experiences of individuals who
199	fall within each of the four subtypes of perfectionism in the 2×2 model of perfectionism. The
200	qualitative data (focus groups and interviews) enabled us to gain detailed insights into the

205 **Farticipants**

Following institutional ethical approval, 192 females taking part in school- or 204 205 community-based sports (M age = 13.91; SD = .90; range 12-16 years) were recruited for the 206 quantitative identification stage. Only adolescent females were recruited because they are 207 known to have different experiences to adolescent males in youth sport (O'Sullivan & 208 MacPhail, 2010) and the focus here was on identifying similarities and differences in 209 individuals' sport experiences based on subtypes of perfectionism rather than gender. 210 Participants had been playing their sport for an average of 3.40 years (SD = 2.36) and 211 trained/played for an average of 2.87 hours per week (SD = 2.35). Most participants were 212 involved in their sport at club level and considered their participation very important 213 compared to other activities in their lives (M = 6.49; SD = 1.68; 1 = not at all important to 9 =214 extremely important). In the qualitative data collection stage, participants were 19 females (M 215 age = 13.74; SD = .65; range 13-15 years) purposefully sampled from the quantitative stage 216 because they met the criteria (as detailed in the procedure) to be considered prototypical of 217 one of the four subtypes of perfectionism (see Table 1). Participants had been playing their 218 sport for an average of 2.56 years (SD = 1.90) and trained/played for an average of 2.31 hours 219 per week (SD = 1.60). Their participation in sport was also considered very important (M =220 7.16; *SD* = 1.50).

221 **Procedure**

Quantitative identification. Sport-MPS-2 (Gotwals & Dunn, 2009) responses were subjected to a missing value analysis, which revealed that there were 163 complete cases and 224 29 cases with missing data. The missing data cases had 24 unique patterns and so data was deemed missing in a non-systematic manner. Due to having > 5% missing data (i.e., the

220 Temanning missing uata cases (see Oranam, Cumsine & Elek-Fisk, 2003). To ensure mat 229 participants could verbally discuss their sport experiences, 17 were removed for indicating 230 that English was not their first spoken language, one further participant was removed for not 231 reporting their age, and 10 participants were removed for perceiving their sport involvement 232 to be less than moderately important (i.e., a score of < 4 on a 9-point scale). As no univariate 233 and multivariate outliers were detected, the final sample for the quantitative identification 234 phase comprised 159 participants (M age = 13.85; SD = .90; range 12-15 years). 235 Following computation of PSP (personal standards subscale) and ECP (concern over 236 mistakes subscale added to doubts about actions subscale) composite scores (i.e., total PSP 237 and total ECP), a median-split was conducted to categorize participants into groups reflective 238 of the four subtypes of perfectionism from the 2×2 model. This is consistent with extant 239 research adopting variable-centered approaches to form high and low perfectionism groupings 240 (e.g., Hill, Hall, Duda, & Appleton, 2011). Based on this approach and the withdrawal of one 241 school-based sport group due to the departure of their gatekeeper, 86 participants were 242 available for participation in the qualitative data collection stage: 26 non-perfectionism (M 243 PSP = 1.97, SD = .50; M ECP = 3.90, SD = .80), 15 pure PSP (M PSP = 3.34, SD = .42; M244 ECP = 4.24, SD = .64), seven pure ECP (M PSP = 2.43, SD = .23; M ECP = 5.77, SD = .83), 245 and 38 mixed perfectionism (M PSP = 3.42, SD = .52; M ECP = 6.39, SD = .84) participants. 246 A one-way ANOVA with Scheffe post-hoc tests revealed that there was a statistically 247 significant difference between the four subtypes in terms of PSP, F(3, 82) = 54.16, p < .05, $\eta p^2 = .67$ and ECP, F(3, 82) = 59.83, p < .05, $\eta p^2 = .69$, consistent with how the four subtypes 248 249 of perfectionism should have high and/or low levels of PSP and ECP.

232	from 54-45 minutes ($M = 59$ minutes, $SD = 4.30$). To help participants to reel connortable
253	discussing their experiences each focus group comprised participants from the same school-
254	or community-based sport group. Participants were also reflective of the same subtype of
255	perfectionism so to create a homogeneous group and allow for any contrasts in sport
256	experiences between subtypes to be observed (Hennessy & Heary, 2005; Morgan, 1997).
257	Each focus group involved the same moderator (lead author) and a note taker. A semi-
258	structured questioning route with opening, introductory, transition, key (e.g., who, if anyone,
259	influences how much you like participating in your sport or not?), and ending questions was
260	employed (see Appendix 1). The questioning route was created and refined based on extant
261	qualitative research regarding the quality of youth sport experiences (e.g., Holland,
262	Woodcock, Cumming, & Duda, 2010), a review by a 'critical friend' (a researcher who had
263	previously conducted focus groups with youth sport participants), and a pilot focus group with
264	five 13-year-old female participants from the same school-based sport group. The pilot focus
265	group proved useful in terms of refining the questioning route, establishing the typical
266	duration of a focus group, and allowing the moderator and note taker to become familiar with
267	the questions (Morgan, 1997). Following the pilot, minor changes to the order of questions
268	were made and a question regarding future sport intentions was added.
269	To explore some of the concepts that emerged from the focus groups in greater depth,
270	an individual semi-structured follow-up interview was conducted with the one participant,
271	from each of the four focus groups, that was considered the most prototypical of their subtype
272	of perfectionism. Consistent with the interpretivist paradigm, interviews helped ensure that
273	the experiences of individuals (as well as the collective group) were fully explored. A
274	participant was considered most prototypical if they met the criteria of having a PSP and ECP

211 group responses were deemed typical for the subtype. This is consistent with the manner in 278 which the 2×2 model is typically examined (Gaudreau & Thompson, 2010). In total, four individual follow-up interviews (one per subtype of perfectionism) were conducted (see Table 279 280 1). Interviews ranged from 21-33 minutes (M = 27 minutes; SD = 5.00). This excluded a 10-281 minute re-familiarization period with participants, which took place prior to the interviews. 282 The same interviewer (also the focus group moderator) conducted all four follow-up 283 interviews. There was an introduction, main discussion, and a closure period. For the main 284 discussion, a semi-structured interview guide informed by Gotwals and Spencer-Cavaliere 285 (2014) was used because their study yielded insights into personal (e.g., perceptions of 286 success) and social-environment factors (e.g., role of coaches, parents, and teammates) that 287 had been identified as important by participants in the focus group stage (see Appendix 2). 288 Prompts were also employed to follow-up on responses. After each interview, the interviewer 289 documented her own reflections.

290 Data analysis

291 Each of the focus groups and individual interviews were audio-recorded and transcribed 292 verbatim. Participants were given pseudonyms to help ensure anonymity. Thematic analysis, 293 based on Braun and Clarke (2006), was then used to understand the sport experiences of 294 participants deemed prototypical of the four subtypes of perfectionism. For familiarization, 295 transcripts were read and re-read by the lead author and the second author. In the coding 296 phase, the lead and second author individually generated succinct codes for a focus group 297 transcript immediately followed by the corresponding individual interview transcript for each 298 subtype of perfectionism. The codes and collated data for each subtype of perfectionism were 299 then examined by the lead author to identify broader patterns of meaning (candidate themes).

the second author throughout the write-up as clear interpretations of the data occurred.

307 Methodological rigour

308 All eight key markers outlined by Tracy (2010) were considered to ensure 309 methodological rigor. First, the topic appears worthy and of significant contribution because 310 the 2×2 model of perfectionism is the most current conceptualization of perfectionism and 311 perfectionistic youth sport participants' views on their sport experiences have yet to be 312 elicited through qualitative research methods. The study was also designed in a manner that 313 should satisfy rich rigor as a variety of data collection methods (focus groups and interviews) 314 were employed to gain enough data to address the research question. In addition, the lead 315 author immersed herself in the context of the participants on multiple occasions to try and 316 ensure enough time was spent gathering the data. Participants were also selected based on 317 being at a stage of development where they should be able to discuss their sport experiences 318 in-depth. The study demonstrates sincerity as each step of the method and any challenges 319 faced when gathering and analyzing the data have transparently been documented. The 320 research is marked by thick description and the showing rather than telling of the participants' 321 experiences through inclusion of focus group exchanges between participants and individual 322 participant quotes. The study should resonate with adolescent female sport participants 323 exhibiting differing combinations of perfectionism dimensions and their coaches; potentially 324 influencing coach practice. Ethically, the study gained institutional ethical approval for

321	provide nover insights into the sport experiences of youth participants who unter in
328	combinations (or subtypes) of perfectionism dimensions. Through use of quantitative, and in
329	particular, qualitative research methods and analysis, these two objectives were met.
330	Results
331	Data analysis highlighted differences between the four subtypes of perfectionism in
332	terms of (i) the meaning youth sport participants gave to their sport involvement. That is, the
333	goals, values, and purposes participants expressed regarding sport. (ii) The environment that
334	they perceived could support or detract from them obtaining the outcomes they desired from
335	sport. The following sections provide a description of these two overarching themes for each
336	subtype of perfectionism. As a consequence of concurrently analyzing the focus group and
337	individual interview transcript data for each of the four subtypes of perfectionism, the
338	findings of both are interwoven in the following sections. To enable the voice of the
339	participants to be heard above and beyond pre-existing literature, the results are presented
340	devoid of links to the perfectionism and youth sport literature. Rather, the findings are
341	examined in the context of extant theory and research within the discussion.
342	Non-perfectionism

342Non-perfectionism

343 Sport: An enjoyable hobby for friendship and learning. For these participants, 344 netball was one of several hobbies they engaged in, as Erin said, "I feel netball is a big part of 345 my life" but she also stated that, "I personally have other hobbies." Netball seemed to be 346 important to participants for social and personal reasons, as Erin also expressed, "I think 347 netball is a really great like social way of making friends and meeting new people but it's also 348 really good exercise." Although netball was important for this group, it was not necessarily

331	The social importance of netball initially appeared to be related to providing
352	opportunities for the participants to be with, and make friends, as Lorna said, "You make
353	loads of friends from it [netball]." However, the social value of netball was not restricted to
354	spending time with friends, but also having an opportunity to be part of a team that comprised
355	friendly and similar others. Erin explained, "I think mostly people are the same so if you all
356	feel good afterwards then that means you've worked well as a team, used teamwork skills, so
357	everybody's been quite encouraging and happy and things." Further to social opportunities,
358	this group valued their participation in netball because it provided them with an opportunity to
359	develop, learn, and test their skills, as Erin said, "It's fun because we do different exercises to
360	test different skills dodging and stuff and then you play a game and you use that in your
361	game and that shows how you can improve."
362	In contrast to their focus upon learning and development, the participants appeared to
363	have limited regard for winning and losing as the following exchange shows:
364	Erin: I mean we finished last season quite positive where did we come second so that
365	was actually a big achievement for us because before we didn't do.
366	Julia: Yeah we didn't do that well.
367	Erin: But that proves that the training we've done has improved so that means if we're
368	all dedicated players which I think most of us are with the training we have we can
369	always be improving and if not like coming third I'm not saying we have to like always
370	improve where we come just like noticing that we're playing better.
371	Overall, opportunities to develop friendships and skills were especially important for
372	this group because they seemed to contribute to the overriding motive for participating in
373	netball, which was enjoyment. For example, Julia simply stated, "Netball is really fun to

370	An environment that enables non-perfectionists to enjoy sport as a nobby for
377	friendship and learning. Several environmental influences supported or detracted from the
378	participants experiencing sport as an enjoyable hobby for friendship and learning. Perceptions
379	of coaches, parents, and peers were among the most prominent influencers. With regards to
380	coaches, having an understanding that sport was not the participants' only hobby appeared
381	desirable. Julia said, "But Jill [coach] if you can't play 'oh don't worry it's fine' she just says
382	'oh you can play next time' like she doesn't see it as a bad thing to do." Coaches who did not
383	understand the girls' competing priorities were seen as less desirable, as Erin explained,
384	"matches are always on the days I have Spanish and then if I say like 'oh I'm going to
385	Spanish' they [coaches] get really annoyed."
386	When coaches adopted a more supportive approach, by offering instructional feedback
387	in a non-threatening manner and praising the girls, they seemed able to reinforce the
388	participants' desire for improvement. This was clearly articulated by Erin, who said:
389	When you go wrong they [coaches] tell you how you can improve but they never shout
390	at you Then when you do something right you get loads of praise and it makes you
391	feel good and it makes you keep going so then you can improve that.
392	By being supportive of performance attempts and accepting of mistakes, a coach could further
393	support the value this group placed on developing their skills, as Julia said, "Yeah cos it's like
394	when like you get encouraged like you think you can do it and then you can do it well"
395	However, a coach could detract from the participants' desire for improvement if they
396	expressed performance expectations or provided criticism. Such coach behaviours could
397	result in the girls withdrawing, as Julia shared:

400	know what to do in a situation and they d say on no you shouldn't have done that .
401	Parents and peers also played an important role in supporting the participants' desire for
402	improvement and reinforcing their confidence. For instance, discussing parents, Erin said:
403	Well it's good when your parents encourage you you could see the massive
404	difference between how confident you'd be without it and with it so when they say like
405	'oh you played really well there' or even if you didn't play well they still pick up on the
406	positive things cos they're parents but it also helps when they say how you can
407	improve cos you think I know what I have to do now so I can play better.
408	Peers could also support participants' desire to demonstrate competence through personal
409	improvement by acting as a reference point for improvement. Erin explained:
410	We played a game the other week and we noticed loads of techniques that the other
411	team were using that we hadn't and it wasn't really that we didn't enjoy the match
412	but it was more like you thought 'oh maybe we should do that' and it kind of makes
413	you feel a little bit like 'oh we should train harder we should be learning those things'.
414	Although peers could support the meaning of sport for this group, they could also detract from
415	it. For instance, peers were perceived as preventing participants from having an opportunity to
416	demonstrate improvement if they behaved in an unfair manner or undermined sport being an
417	enjoyable and social endeavour, as Sonia, Erin, and Melanie discussed:
418	Sonia: Maybe when you're playing against like a rough team that's bad they're
419	really, really rough and they like elbow you and trip you up, stuff like that.
420	Erin: Yeah people like it can be quite sneaky cos people can do things like small things.
421	Melanie: And get away with it.

424 uisuacung you.

425 **Pure personal standards perfectionism**

426 **Sport:** A collaborative adventure to achieve team success. For these participants, 427 emphasis was placed on netball being a collaborative team endeavour, as Gemma said that 428 she liked netball because, "I think just like the whole team thing and playing like together." 429 Collaborating with teammates seemed to be important to this group because it enabled them 430 to achieve success, as Ellie said, "you participate as a team... and motivate each other cos like 431 we all want to do well." Success appeared to manifest in working to the best of their abilities together and winning as a team. Lydia explained, "...we play a match like we all try and do it 432 433 the best we can and it like pays off cos like all our matches so far we've had we've won so 434 we're doing pretty well."

As success was linked to working as a team, it was vital that all team members were of 435 436 a similar disposition, as Gemma explained, "Just like trying with all their effort and just 437 constantly running and jumping and not giving up and just trying to stay positive even if it 438 could be a bad situation." There was also a sense that teammates who did not put forth effort 439 to achieve team success were not tolerated by this group, as Gemma said, "...they 440 [teammates] don't try and that's like annoy like the rest of the team... it's like well everybody 441 else is putting in their best so why can't like you do the same." Such was the emphasis placed on working well as a team that it appeared to underpin enjoyment. As Gemma said, "Just that 442 443 you're happy you played well you just feel like as a team you feel really like together and 444 happy and like you've really enjoyed it and you've done well."

However, it was not just working well as a team that contributed to enjoyment, as
Gemma also described, "like when we win I always really enjoy that especially the whole like

449	unumpus (ame agams	t opponem	is that were	perceived to be	of higher abi	inty and the	e gills nau
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- 450 worked well together, then enjoyment was even more pronounced:
- 451 Ellie: I enjoyed our match on Thursday.
- 452 Focus group moderator: What was it about that that was good Ellie?
- 453 Lydia: We won.

...

- 454 Ellie: Well I dunno I think it's quite nice because they're like a private school and really
- 455 posh and I think it's quite nice that like it doesn't really matter what facilities you have
- 456 we still beat them and also I quite liked it because we worked quite well as a team.
- 457 Lydia: Yeah we started to concentrate more.
- 458

459 Ellie: Yeah and we were quite competitive, yeah but in a positive way.

460 Winning and losing were kept in perspective, however, as Ellie said:

461 ...we did like really well compared to previous years because we like practiced a lot and
462 quite a lot of the game we might have lost overall but we actually like won one half of it
463 and it was against teams like that we've always considered much better than us... it was
464 a good achievement.

When this group did achieve as a team, there was a sense of pride, as Gemma stated,
"...everyone proud that you've actually like achieved something." Similarly, if individuals
were recognised for the efforts that they put forth to do their best for the team this also evoked
feelings of pride and satisfaction, as Gemma explained, "...you get a feeling of like pride like
I was picked out of all these people, it just makes you feel quite good about yourself."
Although there was a sense that the girls in this group could take pride and satisfaction from
their endeavours, they could also be frustrated and disappointed with themselves if they did

4/4	An environment without critical evaluation. Several factors were important for
475	supporting or detracting from participants being able to experience sport as an opportunity for
476	success through team collaboration. The two most prominent factors concerned the role of the
477	coach and perceptions of peers. In terms of the coach, this group seemed to require an
478	environment where they were setting the criteria for achievement, as Bryony said:
479	at [team] like if you want to change or you want to improve like your skills if you
480	want like you don't have to do one set thing all the time and I like the freedom of that
481	like you can choose what you want to improve on.
482	The girls in this group also appeared most comfortable if their coach had limited expectations
483	of them, as Bryony expressed, "I enjoy it at [team] a bit more because you get less kind of
484	like pressure on everything and it is a bit more enjoyable really because you're not yeah I
485	think a bit less is expected of you."
486	A coach who supported the girls' desire for collaborative team success by reinforcing
487	messages of trying their best and offering instructional feedback in a non-threatening manner
488	was also viewed positively. Imogen articulated this idea:
489	Well I like it cos our coach I feel like she knows us like inside out. She can have a joke
490	with us and kind of like have a laugh and stuff, but like she always wants us to like do
491	our best and stuff. And I like it cos like if you're a shooter she might say like if I shoot
492	she might say that was like rubbish or something cos she knows how I usually play and
493	like I understand then she'll tell me what to do next and she just like helps us all really.
494	In terms of peers, teammates could support this groups' desire to work well together as a team
495	by being encouraging, as Bryony and Ellie discussed:

498 like you le being part of the team.

499 Ellie: Yeah like whenever you make an interception and like people shout at you well

500 done and whatever it kind of helps motivate you and feel like you're working as a team.

501 Peers could detract from netball being a collaborative endeavour, however, if they were

502 unfriendly or judgmental. As the girls discussed:

503 Lydia: I don't know it's like with trials like with the [academy] thing from in June...

- and I've gotten into it before but this time I didn't get in and it was absolutely awful and
- 505 I hated it.
- 506 Ellie: I felt like everyone was like much better than me.

507 Imogen: It was so difficult.

508 Lydia: The girls that do it weren't very supportive. They were more... for themselves.

509 In addition, this group viewed peers who were thought to be elevating themselves above the

team and again were judgmental, negatively. Lydia explained, "Stevie was telling us all what

511 we could do better, the thing is she wasn't doing it in a nice way she was like 'I'm gonna tell

- 512 you all what you're doing wrong you need to do this."
- 513 **Pure evaluative concerns perfectionism**

514 Sport: An opportunity to experience belonging, togetherness, and hide within a

515 crowd. These participants placed considerable emphasis on sport providing an opportunity for 516 them to develop connections with others, as Bianca said she liked dance because, "…in dance

517 we work together cos we're in a group and so we're in a whole squad... so you get to work

- 518 with other people..." For this group, social connections appeared to be about more than just
- 519 working together and extended to feelings of belonging and togetherness, as Brooke said,
- 520 "...it's [rugby's] just fun cos we're all like a family..." Kiera reiterated this when she said,

525	There seemed to be a protective function associated with belonging to a group of equal
524	and supportive peers, as Keira explained, "like you don't get judged for it like cos we all
525	like do the same and like if you make a mistake it doesn't matter cos everyone's there to
526	support you." Being aware of other people's judgements was a recurring concern for this
527	group but feeling strongly connected with and supported by peers appeared to waylay some of
528	these worries. As Kiera and Maisie discussed:
529	Kiera: Like the first time we played in teams against each other I was panicking quite a
530	lot because I thought 'oh if I do a mistake then like will everyone hate me or something'
531	but like now when we're playing teams against each it's not like that at all like
532	everyone's really supportive and like even if you make a mistake it doesn't matter.
533	Maisie: Like yeah I thought that as well like when you first started going to the matches
534	and everything it was kind of like you wanted to like make sure you got it right but
535	then like as it got on it was just really enjoyable going like on the bus and then coming
536	back and it never really mattered that much cos we were all like friends and we were
537	helping each other.
538	It was the feeling of belonging and not being exposed and judged that seemed to
539	underpin enjoyment for this group, as Maisie said, "I just like netball cos you're kind of like
540	one of the team you do just kind of feel less like judged and you can just have fun and work
541	as you know like a team and work with your friends. Brooke went on to say, "I just like how
542	we can all be different but all like do the same thing like we can all like I dunno we can all
543	help each other out and not like be bothered by whatever goes on or anything, I find it fun,
544	different." As the enjoyment for this group was in belonging with others and not being
545	evaluated, winning was not a valued objective for these girls. Beatrice articulated this point

540 A juugement and chanenge-mee environment. Many personal and environmental 549 factors supported or detracted from sport being valued as a social opportunity free from 550 judgement for this group. This group seemed to require a sense of agency and control over 551 their sport involvement as this could temper concerns over being evaluated, as Kiera said, 552 "Like so if like you're there [at lunchtime practice] voluntarily like there's not as much like 553 pressure to do well because like you're going voluntarily." Brooke reiterated the preference 554 for an environment free from judgement of others, such as teachers/coaches, when she said: 555 Well on Tuesday some of our rugby like girls we went over to [another school] and 556 started training there like by ourselves without a teacher or anything and it was just fun 557 and like how we helped each other out like some of us weren't good at kicking but the 558 people that were good at kicking like taught us how to do it like properly and stuff. 559 Teachers/coaches supported the girls' values for social connection by being friendly, supportive, or tolerant of mistakes, as Bianca described, "...our teacher ...she treats she 560 561 doesn't treat us like little kids and students she treats us like friends she's dancing with so that 562 makes it a lot it makes more fun..." In contrast, parents did not seem to be as instrumental in 563 supporting the girls' desire for togetherness, as Bianca simply stated, "Well when they 564 [parents] come and watch I guess it's nice to hear them say you danced well..." Parents 565 appeared more influential in detracting from the girls' desire to be social and participate 566 devoid of evaluation. The way they did this was by having high expectations or being 567 unsupportive, as Brooke said: 568 My dad like is a really like he just pushes you and cos he was like he used to be on one

569

of the biggest like rugby teams he used to be like really known and then he just like tries

- 572 The most prominent environmental factor that influenced whether this groups
- 573 meaning of sport was supported or not were their peers. As Bianca explained:
- 574 If they're [peers] nice to you then it makes you want to be around them more ... in other
- 575 sports that I've played I have noticed people who get competitive makes you want to
- 576 play less because they kind of ruin the sport and ruin the fun because they care too
- 577 much for what they're gaining rather than actual taking part which kind of ruins it.
- 578 When unpacking what overly competitive peers meant, Kiera said:
- 579 Like you're playing and if you like miss with the pass or say if you like drop it when 580 like you catch it and you drop it and then the other person gets it and everyone just

- 581 starts having a go.
- 582 Mixed perfectionism

Sport: A time to shine and affirm self-worth. For these participants, sport was an 583 584 arena in which they could feel competent, as Caitlin said, "Well I'm usually quite confident in 585 sport... just kind of like having that reassurance that you are like good at something like just 586 find that comfort within like sports." Other domains in their lives did not seem to afford them the same opportunity to feel confident, as Bridget said, "...when I'm at school I don't feel like 587 588 as confident but then when I'm at dance I'm confident and just a lot different and free." 589 Ultimately, these girls felt that through sport they could be themselves, as Caitlin said, "It's 590 [sport is] just reassuring and something where you can just be yourself..." 591 Perceptions of competence appeared to be linked with performing to the best of their 592 abilities, as Eden said, "If you've played a good game if you feel like you've done all you can 593 even if you didn't win as long as you've done all you can you've played at your best."

594 Competence judgements also involved winning, as Hannah said, "Well you just want to play

371	negative emotions were invoked when they did not perform to their best, as Calum said.
598	It's quite frustrating when like you can't do something like you try quite a few times
599	and it's not going well for youit gives you that feeling like you feel like you've just
600	let yourself down a bit
601	Being recognised by peers as being competent was a valued outcome for this group
602	because it seemed to hold positive implications for their self-worth, as Danielle said:
603	I do get into it a lot in rounders but cos it's sort of like I sort of like the fact that it's
604	sort of like depending on you to score and get a rounder so it sort of like drives you
605	more to like do well in the sport
606	There was a balancing act, however, between being recognised for their competence and not
607	feeling responsible when their personal contributions were not effective. Further, the girls
608	expressed concerns over having their competence negatively evaluated by others and letting
609	others down. As Caitlin said:
610	Well like at school it might be like my friends or like peers who like might be expecting
611	you to be good at that and then if I'm not I'm not like sure how they feel but it might
612	be like disappointing or like might be unsure of how good I actually am at that sport.
613	Learning from others and for themselves was seen as vital to self-advancement and
614	being able to demonstrate their ability. This was clearly illustrated in the following exchange:
615	Hannah: Well you get to meet new people as well and you hear about how they play and
616	you also see their tactics and then you can use the tactics to make your team better.
617	Bridget: Yeah you hear like other people's stories of like what they use to help them so
618	you can sort of go off that and help yourself by hearing what they've said.

become better than others. On the other, it made them leer like they facked competence and
this invoked self-criticism, as Eden said, "It's usually like when I can't do something that
everybody else can and so I feel like I'm letting myself down cos I know I can probably do it
cos everybody else can do it but then I just feel bad cos I've let myself down..."
Overall, demonstrating their best in sport, relative to themselves or others, was related

to some feelings of enjoyment, as Eden said, "I think I would feel like I'd achieved something because obviously you've done well in your sport you feel proud of yourself that you've gone and done something well and you can sort of feel good about it."

A competence-supportive environment/an environment for success. Many important
 influences could support or detract from participants' experiences of sport as an opportunity
 to develop and demonstrate competence. First, these girls seemed to require some clear

632 success criteria against which their competence would be judged, as Bridget said:

633 ... It sort of like puts me off because like when my dance teacher is like giving me
634 something to aim for then I feel fine and I've got something to go for but when like
635 they're just watching me and not telling me anything I sort of feel like I don't know

anything and any of my routines.

When judgements were perceived as unfair (e.g., incongruent feedback with the criteria for
success), offered by peers of perceived lesser status (e.g., those not as invested or as capable),
or were unexpected, this ran counter to the value this group placed on demonstrating
competence, as Eden said:

I usually don't like it when they [coaches] sort of repeat on something but I alreadyknow how to do it just I've made a mistake and they think that I can't do it and are

telling me how to do it again...

040 you don't realise.

The coach seemed to play an important role in supporting this groups' need to develop 647 their abilities by ensuring equal opportunity for personal advancement, as Eden said, "...here 648 649 everybody gets to play the same amount of games so we get the same amount of practice and 650 no one gets left out..." Coaches also supported the girls' desire to demonstrate competence by 651 offering praise/recognition, as Hannah said, "It's good when they [coaches] recognise you've 652 done something good and it builds on your confidence as well..." The final way coaches 653 supported the values of this group was by offering helpful advice. Parents also seemed to be 654 able to support this groups' desire for personal advancement by offering useful advice, as 655 Eden articulated: Both my parents aren't really sporty anymore but they both used to play badminton so 656 657 they know like what it takes and what I've got to do to improve and what areas are 658 important so they can like help me to get better... 659 As was alluded to in earlier quotes, peers were viewed as important co-competitors in 660 this groups' quest for competence. However, there were a few ways in which they could 661 detract from this role. Peers who overshadowed this group led to them feeling disappointed 662 that their best may not be good enough, as Danielle said, "If you're like if you're working 663 against each other in groups and then they win and then they boast it just makes you feel a bit 664 like 'great thanks for that." Further, when peers engaged in unsportspersonlike conduct, it ran 665 counter to the enjoyment that this group could derive from demonstrating their best 666 performance, as Eden said, "Bad sportsmanship people that don't play by the rules argue back

sort of make games unenjoyable to play."

668

Discussion

the memer unat emerged relate to nover misights regarding the 2 × 2 moder and its tenets. we then provide a comparison of the findings of the current study of perfectionistic youth sport participants with findings from previous qualitative research with perfectionistic adult sport participants. Finally, we provide a discussion of some of the practical implications of the findings.

676 Youth participants and their experiences of sport

677 The two overarching themes identified provided a number of novel insights into the 678 sport experiences of youth participants who differ in subtypes of perfectionism. The first 679 theme was the meaning youth sport participants gave to their sport involvement. That is the 680 goals, values, and purposes expressed by the sport participants and how these were reflected 681 in their experiences. The second theme was the social environment that the youth sport 682 participants perceived supported or detracted from them obtaining the outcomes they desired 683 from sport. We discuss these two themes in relation to the 2×2 model and its tenets below. 684 One of the key tenets of the 2×2 model is that the four subtypes of perfectionism 685 differ in their motivational underpinning (Gaudreau & Verner-Filion, 2012). Typically, this 686 has been expressed and studied as a function of motivational regulation (e.g., intrinsic 687 motivation; Ouested et al., 2014). In the current study, we found evidence that this extends 688 more broadly to the goals, values, and purposes that participants hold. We adopted the phrase 689 "meaning of sport participation" to reflect this and the social-cognitive approaches to 690 motivation that emphasize these factors (e.g., see Roberts, 2012). In particular, how socially 691 acquired beliefs influence the interpretation of events, such as whether success is construed as 692 personal effort or outperforming others, or whether the purpose of sport is considered to be 693 for personal development or social status.

090 task of mastery goals and social anniation goals, which are two orientations neguenity 697 observed in youth sports (Allen, 2003; Roberts, 2012). In context of extant perfectionism 698 literature, this finding is particularly insightful as there is typically little focus on non-699 perfectionism. Moreover, to some, it could be considered counterintuitive to find individuals 700 who report no internal commitment or external pressure to pursue perfectionistic standards in 701 an achievement domain like sport. The findings here help to shed some light on this issue and 702 are consistent with what might be expected of non-perfectionism as a control or relatively 703 adaptive subtype in the 2×2 model (Gaudreau & Verner-Filion, 2012). Members of this 704 subtype of perfectionism are participating in sport to pursue goals other than personally 705 prescribed or socially prescribed perfection.

The pure PSP and mixed perfectionism groups also appeared to adopt similar goal 706 707 orientations to the non-perfectionism group. This was demonstrated through their focus on 708 putting forth effort to do their best. However, unlike the non-perfectionism group, these two 709 groups also described the importance of winning and outperforming others (i.e., higher ego 710 goals or performance goals; Roberts, 2012). In addition, the pure PSP group valued 711 developing and maintaining mutually satisfying relationships with similar others (Allen, 712 2003) and the mixed perfectionism group valued sport as a vehicle to maintain social status 713 (see Smith, 2003). The different combinations of goals may account for some of the 714 differences between the subtypes in terms of their experiences in sport. They also offer some 715 insight into some of the complexities of pure PSP and mixed perfectionism, such as the need 716 for multipronged hypotheses and mixed findings regarding the outcomes they are related to 717 (see Gaudreau, 2016). Specifically, based on the accounts provided by the participants, sport

720	The findings regarding the meaning of sport for the pure ECT group were also
721	illuminating. This group reported neither actively pursuing skill development nor wanting to
722	demonstrate their comparative superiority. Instead, they placed an especially high value on
723	taking part in sport for social reasons and the sense of belonging it can bring. Unlike social
724	affiliation goals, belonging in the manner that these participants described does not feature
725	prominently in social-cognitive approaches. However, it does feature in other approaches
726	(e.g., relatedness in organismic approaches; see Allen, 2006). That this group identified sport
727	as a means to feel valued and connected with others is a particularly novel finding in that it
728	might explain why we find individuals exhibiting this subtype of perfectionism participating
729	in sport when they also report other motivational qualities and experiences that suggest they
730	may shun sport participation altogether (e.g., amotivation and burnout; Nordin-Bates,
731	Raedeke, & Madigan, 2017; Madigan, Stoeber, & Passfield, 2016).
732	The second theme regarding the social environment revealed that sport experiences for
733	perfectionistic youth sport participants are at least in part dependent on significant others.
734	While this may be intuitive, research has yet to pay attention to the role of significant others
735	within the 2×2 model. Coaches, parents, and peers were mentioned throughout, with coaches
736	considered most important for all four subtypes. In particular, preferences for how coaches
737	should behave were expressed by all subtypes. This is a more novel finding than just
738	identifying they were important. All four of the subtypes desired coaches to be accepting of
739	mistakes and not to hold unrealistic expectations. Thereafter, there were differences. For
740	instance, the non-perfectionism and pure PSP groups appeared especially aware of the

/44	One futurer notable unterence was that the mixed perfectionism group expressed a
745	desire to have opportunities to exercise their competitive instincts (i.e., outcompete peers).
746	This preference was unique to this particular group. This directly reflects the purpose of sport
747	and personal goals that members of this subtype held for their sport participation (e.g., social
748	status). While research has demonstrated that endorsing ego goals may be less problematic
749	when participants are more capable than others, there is a vulnerability associated with
750	coaches adopting such an approach (e.g., Standage, Duda, & Ntoumanis, 2003). That is, when
751	perceived ability is not comparatively superior, it cannot buffer the effects of ego goals and,
752	as was seen here, may lead to undesirable outcomes and negative experiences in youth sport
753	(e.g., feeling incompetent and engaging in self-criticism).
754	The pure ECP group desired minimal coach involvement. The marginalized role of the
755	coach may again reflect the primary purpose of sport for this particular group (i.e.,
756	belonging). It is revealing that the coach was not considered particularly important in
757	fulfilling this purpose. Rather, perhaps unsurprisingly, peers appeared to be most important in
758	this regard. At best, coaches were viewed as friendly and supportive facilitators of the sport
759	experience. At worst, they were viewed as overly observant and judgmental. Research
760	examining perfectionism and peers in sport is limited to only a few studies (e.g., Greblo,
761	Barić, & Erpič, 2015). The accounts provided here suggest that research examining the
762	interplay between perfectionism and peer-relations has the potential to offer additional insight
763	into the experiences that young people have in sport, particularly for those exhibiting pure
764	ECP.

Sport experiences of perfectionistic youth and adult sport participants

100 the equivalent of two subtypes of perfectionism. puter or and mixed perfectionism (Ootwars 769 & Spencer-Cavaliere, 2014; Hill et al., 2015; Sellars et al., 2016). In comparing the accounts 770 of youth sport participants in the current study with adult sport participants in previous 771 studies, some similarities but also some notable differences emerged. The similarities for pure 772 PSP in youth and adult sport participants were that both expressed a drive to accomplish 773 achievable, self-referent goals in sport and felt socially supported. Where the accounts from 774 this subtype differed for youth sport participants, compared to adults, is that youth 775 participants also reported feeling disappointed in themselves when personal/team expectations 776 were not met. In addition, youth participants identified peers (not just coaches) as possible 777 sources of social support and distress (not just social support). The presence of more 778 dissatisfaction and, again, the importance of peers among youth sport participants require 779 additional examination in future research examining this subtype of perfectionism, with the 780 former finding being perhaps more surprising than the latter. 781 For mixed perfectionism, both adult and youth sport participants pursued lofty 782 personal goals to be the best in sport. Further, the outcomes of competition mattered to both 783 youth and adult sport participants. Mixed perfectionists in both adult and youth sport could

also be overly critical of themselves particularly when they were not performing to their best and expressed pressure from significant others to succeed. The differences were that, unlike adults, these youth sport participants did not overly fear failure or feel dissatisfied with goal progress so long as they could learn from others and their mistakes. It is possible that these differences reflect the tendency for sport to become more serious, and the stakes higher, as athletes get older. In addition, there is also greater opportunity for fun, less pressure, and

192	r ractical implications for working with perfectionistic youth sport participants
793	In describing their goals and their preferred role of the coach, the participants
794	expressed preferences that map on to current literature regarding motivational climates
795	(Roberts, 2012). It appears that a more task-involving climate whereby coaches emphasize
796	self-improvement, effort, and co-operation matches the preferences of most of the subtypes.
797	Such a climate also has the advantage of being known to contribute to a range of positive
798	outcomes in youth sport such as self-esteem, intrinsic forms of motivational regulation, and
799	objective performance (Harwood, Keegan, Smith, & Raine, 2015). Providing such a climate
800	would entail using strategies like rewarding effort even if the skill is not perfect, emphasizing
801	the importance of the learning process rather than the result, and ensuring that, regardless of
802	ability, all participants have the chance to participate to their full potential (Miulli & Nordin-
803	Bates, 2011). Interestingly, providing the opposite type of motivational climate, an ego-
804	involving climate, whereby coaches emphasize comparative ability, reward only success, and
805	encourage competition would partly match the preferences expressed by the mixed
806	perfectionism subtype. However, an ego-involving climate is known to contribute to a range
807	of negative outcomes in youth sport such as negative affect, extrinsic regulation, and avoiding
808	practice/training (Harwood et al., 2015). In this instance, then, it would be unwise for coaches
809	to promote an ego-involving climate. Rather, emphasis on opportunities to learn and develop
810	their skills should take precedence, and offers greater benefit to this group over the longer-
811	term. With respect to acting on these practical implications, caution should be exercised.
812	Although the findings of qualitative research can be transferred to similar contexts, this is not
813	always the case.

814 Limitations and future research directions

32

01/ our interpretations. In addition, we also acknowledge the initiations associated with 818 idiographic methods and the importance of nomothetic methods in seeking to generalize the 819 accounts of the participants. We presume the accounts of these prototypical individuals 820 reflect, at least to some degree, the experiences of other similar youth sports participants. 821 However, to assess if this is the case, based on the accounts documented, examining 822 achievement goals, social affiliation goals, and perceptions of achievement climates in larger 823 samples would be one means of gauging the representativeness of the youth sport participants 824 in the current study.

The manner in which we identified participants will have influenced the accounts 825 826 provided. This includes the instruments used as well as the specific procedure (e.g., median-827 split). This may create findings specific to the instruments and also give an artificial sense of 828 discreet groups and experiences. Other instruments may capture different experiences and 829 warrant examination as has been the case outside of sport (e.g., Speirs Neumeister, Williams, 830 & Cross, 2007). Similarly, the use other techniques to establish groups (e.g., self-assessment 831 tools; Gaudreau, 2015) could be used to verify the experiences described here as 832 corresponding to subtypes of the 2×2 model. 833 Finally, the sample of the current study comprised only adolescent female youth sport 834 participants. Thus, the accounts of perfectionistic adolescent male youth sport participants, 835 and if they differ from females within the 2×2 model, remains unexamined. Previous

836 research highlights that adolescent females and males differ in their sport experiences

837 (O'Sullivan & MacPhail, 2010). Thus, differences are a distinct possibility. As such, it would

be valuable to account for the experiences of adolescent male sport participants from the

839 perspective of the 2×2 model in future research.

33

bit the 2×2 model of perfectionism using quantative data conection methods. The midnigs provide initial evidence that the experiences young people have of sport differs across the four subtypes of perfectionism from the 2×2 model. This is reflected in both the meaning they give to sports participation (i.e., goals, values, and purposes) and elements of the social-

846 environment they considered most important.

849 participants (n = 19)

Demographic informati		Mean scores		
Subtype of perfectionism	Age	Sport	PSP	ECP
Non-perfectionism	15	Netball	1.14	2.38
Non-perfectionism	14	Netball	1.00	2.33
Non-perfectionism	14	Netball	2.29	4.55
Non-perfectionism	14	Netball	1.57	3.83
Non-perfectionism	14	Netball	1.29	3.25
Pure PSP	14	Netball	3.43	4.79
Pure PSP	14	Netball	3.57	4.71
Pure PSP	14	Netball	3.00	4.71
Pure PSP	14	Netball	3.14	3.42
Pure PSP	13*	Netball	3.86	3.00
Pure ECP	15	Dance	2.14	5.38
Pure ECP	14	Rugby	2.17	5.17
Pure ECP	13	Netball	2.29	6.71
Pure ECP	13	Netball	2.67	5.54
Mixed perfectionism	13	Netball	3.29	5.42
Mixed perfectionism	14	Dance/Athletics	3.71	6.42
Mixed perfectionism	13*	Badminton	3.71	7.29
Mixed perfectionism	13	Swimming	2.86	6.50
Mixed perfectionism	13	Horse Riding/Netball	3.57	5.63

850 *Note.* Bold = participants included in individual interviews; * these participants were 14 years

851 old when interviewed; PSP = Personal Standards Perfectionism (range = 1-5); ECP =

852 Evaluative Concerns Perfectionism (range = 2-10).

What is it about your sport that you really like?

Can you give me an example of a time recently, in training, when you really liked participating in your sport?

Can you give me an example of a time recently, during competition, when you really liked participating in your sport?

Can you give me any more examples of times when you have really liked participating in your sport?

What do you least like about your sport?

Can you give me an example of a time recently, in training, when you disliked participating in your sport?

Can you give me an example of a time recently, during competition, when you disliked participating in your sport?

Can you give me any more examples of times when you have disliked participating in your sport?

Who, if anyone, influences how much you like participating in your sport or not?

What, if anything, would make you like your sport more?

Looking to the next school year/season, how do you see yourself continuing with your sport?

What was it about that which you liked?

What was it about that which you liked?

What was it about that which you liked?

What was it about that which you disliked?

What was it about that which you disliked?

What was it about that which you disliked?

What things can your coach do or say that influences how much you like participating in your sport or not?

What things can your parent(s)/guardian(s) do or say...?

What things can your peers/teammates do or say...?

Is there anyone else who is influential?

Main questions	Specific follow-up/Clarifying questions		
What motivates you to participate in your sport?	rt? Can you give me any examples?		
	Are there any other things that motivate you to want to participate?		
Describe what a typical 'good training session' looks like to you.	What would a training session where you feel good afterwards look like to you?		
	Can you describe the kind of thoughts and feelings you experience after a good training session?		
Describe what a typical 'good game/competition' looks like to you.	What would a game/competition where you feel good afterwards look like to you?		
	Can you describe the kind of thoughts and feelings you experience after a good game/competition?		
What makes you not want to participate in your sport?	Can you give me any examples?		
sport.	Are there any other things that make you not want to participate?		
Describe what a typical 'bad training session' looks like to you.	What would a training session where you feel bad afterwards look like to you?		
	Can you describe the kind of thoughts and feelings you experience after a bad training session?		
Describe what a typical 'bad game/competition' looks like to you.	What would a game/competition where you feel bad afterwards look like to you?		
	Can you describe the kind of thoughts and feelings you experience after a bad game/competition?		
What makes the difference between feeling good/bad about your sport participation?			
How do you think you got your ideas of good/bad sport participation?	Where or who do you think you got your ideas from?		

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- Both quantitative and qualitative research methods were employed.
- Sport experiences differed considerably dependent upon the subtype of perfectionism.
- Novel insights were gained into the meaning of sport for perfectionistic youths.
- Coaches/peers appeared vital in shaping perfectionistic youths' sport experiences.