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1	Verbal feedback is the primary mechanism for performance related review in professional
2	English male soccer: A quantitative exploration
3 4 5	ORIGINAL INVESTIGATION
6	
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29 Abstract

30 Purpose: Feedback is information that is provided to aid reflection and learning and enhance future 31 performances. Due to the increased demands of professional soccer and governance around staffing 32 structures, the number of stakeholders delivering/receiving feedback has grown over the past two 33 decades. The aim of the present study was to explore the feedback strategies used within professional male soccer in England. *Methods:* 139 respondents comprising of coaches (n = 34), players (n = 39), 34 35 and performance-staff (n = 66) from the English Premier League and English Football Leagues 36 completed an online survey. The survey included 19 questions covering giving and receiving feedback. 37 **Results:** Daily verbal interactions such as conversations and informal chats were the primary source of 38 feedback and were highly prevalent between the three groups (59-80%). Feedback was delivered 39 frequently (daily/weekly) by all stakeholders at regular time points (before, during, and after training 40 and matches) with >75% of coaches reporting giving feedback at all time points. Two-way feedback 41 was also prevalent, with >76% of participants delivering or receiving feedback two-ways. *Conclusions:* 42 The data highlighted the importance of verbal communication within the process of optimising 43 professional soccer player's development and performance. Professional soccer clubs should focus on 44 interpersonal and intrapersonal skill development and an approach that facilitate positive interactions 45 between staff and players within the optimal environment (i.e., time and space). We recommend further 46 exploration of stakeholders' perceptions and effectiveness of feedback in influencing decision-making 47 and informing behaviour change.



50 Introduction

51 Feedback is defined as information provided to a learner that allows them to reflect on their performance and determine what they subsequently should or should not do next.¹ The use of feedback 52 53 has now expanded beyond skill acquisition and education-based literature to other contexts of sport 54 such as the perceptions of athletes and coaches on the impact of feedback on their performance.^{2,3} 55 Athletes perceive feedback to be central to self-reflection and have repeatedly indicated preferences for 56 delayed and individual feedback.⁴ This feedback is provided not only from their coach, but from other stakeholders such as performance-staff, parents/carers, and teammates/peers.^{4,5,6} Furthermore, athletes 57 58 and coaches from various sports highlight that feedback is a two-way process between giver and 59 receiver.^{7,8} For example, team-sport players have indicated that feedback provided them with guidance 60 on areas of development and performance, as well as a platform to share reflections with their coaches.^{2,3} 61 However, in these studies, preferences for greater opportunity to feedback to coaches and increases in 62 individual feedback were demonstrated, as athletes felt that this gave them opportunities to clarify the 63 feedback and increased the perceived quality of the information provided.^{4,9} Evidence from rugby and 64 soccer players suggests that future performance may be optimised when a two-way multi modal feedback approach (i.e., visual, auditory, written, and kinaesthetic) is utilised.^{4,9} While studies recognise 65 a need for two-way feedback between coaches and athletes, there is limited information on how this 66 feedback is delivered (i.e., frequency, type, timing, location etc.) by a range of stakeholders.¹⁰ 67

68 Both the acute and chronic physical demands of professional soccer have evolved and increased 69 over time.^{11,12} In England, the Elite Player Performance Plan (EPPP) specifies minimum requirements 70 for performance-staff, and has therefore resulted in an increase in provision, resources, and staffing 71 across soccer academies.¹³ Subsequently, professional soccer clubs employ performance-staff (e.g., 72 sport scientists) to feedback physical performance data to players and coaches.¹⁴ Furthermore, with the 73 evolution of rules, equipment, and technology there has been a significant growth of performance-staff 74 (sports scientists; medical staff; performance analysts) over the last two decades.¹⁵ These performance-75 staff typically use technologies such as global positioning systems (GPS) and micro electrical 76 mechanical systems (MEMS) to assess athlete physical loading and activity profiles. Feedback of this 77 information may support coaches decision-making processes for training prescription, and return-to-

play.^{10,16,17} For example, when examining the perceptions of practitioners and coaches, these stakehodlers generally agree that feedback of training load data is beneficial to their club.^{18,19} Furthermore, coaches, performance-staff, and players rated physical performance feedback as at least 'somewhat important' in guiding coaching practice and influencing the practices/behaviours of coaches and players.¹⁰ While these studies have provided insights into the *what* and *why* of feedback in professional soccer, it is important to understand the mechanisms of *how*. Thus, greater understanding of the mechanisms of feedback employed in professional soccer are required.

85 The aim of the current study is to examine current feedback strategies of performance related 86 information employed by stakeholders in professional male soccer in England. Furthermore, we aimed to establish the use of two-way feedback across the stakeholder groups. Examinations of the behaviours 87 of youth soccer coaches have indicated verbal feedback is one of the most frequently utilised 88 89 strategies.²⁰ Likewise, coaches and athletes have exhibited preferences for learning and information sharing through informal sources.^{21,22} Due to the increased workforce and regular communication 90 91 within professional male soccer clubs, it was hypothesised that verbal interactions would be the primary 92 source of feedback (e.g., coaching instructions; conversations).

93

94 Methods

95 **Participants**

96 Coaches (n = 34), performance-staff (n = 66), and players (n = 39) working in male professional 97 English soccer clubs voluntarily completed an online survey. For the purposes of this study, professional 98 soccer clubs (time of data collection) were defined as those within the English Premier League (EPL) 99 and Football Leagues (EFL)/tiered academy structure. In line with the EPPP, academies are categorised 100 from category 1 (CAT 1) to category 4 (CAT 4) based upon the support that they offer to their players 101 (i.e., facilities, education, coaching and welfare provision).¹³ To meet the inclusion criteria, players were 102 required to be >16yrs and representing the professional development phase (PDP; 16-23yrs) or first 103 (senior) team. Coaches and performance-staff were required to be working full-time with any age group 104 from foundation phase (FP; 9-11yrs), youth development phase (YDP; 12-16yrs), PDP, and first team,¹³ there were no stipulations on how much experience participants had in these roles. All 105

participants were provided with an information sheet on the first page of the survey and implied consent was given on submission. For players <18 years of age, parental consent was provided. The procedure was in line with the Declaration of Helsinki and approved by a university research ethics committee (18/SPS/029).

- 110
- 111 Design

Participants were recruited using social media platforms and directly through the research team's professional network of contacts. 'Snowball' sampling was used to increase visibility where participants were encouraged to circulate to their networks/peers.²³ The survey was open for approximately twenty-weeks with regular promotions. Participants were purposely targeted to represent the three groups.

117

118 Methodology

119 Three separate surveys were created for each group and took an average of 4 ± 1 mins to 120 complete. Surveys began with a glossary of terms defining feedback as "information on performance 121 that is used to improve performance and/or development". This was followed by several multiple-122 choice questions examining participant demographics and several key topics relating to feedback 123 including: frequency of providing and/or receiving feedback¹⁹ (to understand how often stakeholders 124 exchange information between each group); timing of providing and/or receiving feedback ¹⁹ (to 125 understand the key timepoints when stakeholders exchange important information); and location of 126 providing and/or receiving feedback (to understand where and how important information was exchanged).¹⁰ Each theme was contextually set to explore verbal, written, and visual feedback. Some 127 128 questions were specific to each group, while some were standardised to allow comparison across 129 groups. Questions included multiple-choice and binary (i.e., yes/no). A free-text response option was 130 added to questions where required, allowing for respondents to provide context. Despite this, no 131 participants opted to add extra detail meaning no analysis of free-text data was required. Questions were developed by the research lead and were based on experience and relevant literature.^{10,14,19} The survey 132 133 was reviewed for content validity via four rounds of discussion with the research team.²¹ Two rounds

134 of pilot testing were performed though discussion with two coaches (assistant and lead PDP), two 135 players (one PDP (18yrs) and one first team (22yrs)) and two performance-staff (PDP and first team 136 sport scientists) working in a Championship club (participants were not included in the final data 137 collection). The pilot testing resulted in changes in the wording of some questions/responses to enhance 138 readability and/or understanding (coach = 6; performance-staff = 6; player = 7) which were readdressed 139 and approved by the same stakeholders. The online surveys were then created via platform Survey 140 Monkey (Survey-Monkey, California, USA), and consistented of 19 items for coaches and 141 performance-staff (11 multiple choice; 8 yes/no) and 17 items for players (9 multiple choice; 8 yes/no). 142 Links and QR codes for each survey were created for dissemination via posters, social media posts, and 143 contact emails.

144

145 Statistical Analysis

Survey responses were exported into Microsoft Excel and subsequently SPSS (IBM, New York, US) for further analysis. For categorical, multiple-choice and binary questions, we calculated frequencies and percentages for each response. To assess between-group differences in responses, magnitude-based inferences were used.^{10,19} Proportion ratios were calculated and assessed against the following magnitude scale. Qualitative inferences trivial, small, moderate, large, very large, and extremely large were represented by the ratios 1.00, 1.11, 1.43, 2.0, 3.3 and 10 respectively, with their inverses represented by ratios of 0.9, 0.7, 0.5, 0.3, and 0.1.^{24,25}

- 153
- 154 **Results**

155 Participant demographics

Of the 139 respondents (34 coaches, 66 performance staff, 39 players), the coaching group contained: lead coach (59%); assistant coach (24%); head of coaching (12%); academy manager (3%). Performance-staff group included sports scientists (38%); strength and conditioning coaches (9%); performance analysts (26%); physiotherapists (6%); nutritionists (6%); psychologists (3%); heads of sports science and medicine (6%); heads of physical performance (6%); and physiotherapists (6%). Players represented the: U23s (41%); U18s (38%); and first team (21%) squad (**Table 1**). All coaches

162 (100%) and all but one of the players (97%) represented clubs in either the EPL or the EFL 163 Championship (one (3%) respondent was from League 2). Performance-staff were more evenly 164 distributed across leagues represented by clubs in the EPL (37%) and EFL Championship (37%). Within 165 first team environments, players (21%) and performance-staff (39%) were represented more than 166 coaches (5%), resulting in very large and extremely large differences, respectively. Most performance-167 staff (75%) worked with players >16yrs (PDP or first team), whereas the distribution of coaches through 168 the other phases was more even. Respondents within academies were mainly represented by CAT-1 169 and CAT-2 clubs, yet there was some representation of performance-staff (16%) and coaches (10%) 170 across CAT-3/4 clubs, whereas there was none for players, representing extremely large differences.

171

172 **Insert Table 1 around here**

173

174 *Type and frequency*

175 Most performance-staff (80%) and coaches (71%) reported that verbal feedback was delivered 176 through daily informal chats. Moreover, verbal feedback was delivered through formal meetings on a 177 daily (performance-staff, 35%; coaches, 27%) and weekly basis (performance-staff, 39%; coaches, 45%). Written feedback between performance-staff and coaches was primarily delivered as a 178 179 combination of daily and weekly reports on a computer screen (62-63%), and e-mails/texts (61-72%; 180 Table 2). Verbal feedback from performance-staff to players was delivered through daily (performance 181 staff, 79%; players, 59%) and weekly informal chats (performance-staff, 14%; players, 31%), and 182 instructions during training (performance-staff, 71%; players, 90%). For visual feedback, 51% of 183 players reported receiving video feedback from performance-staff on a weekly basis, however there 184 were small to large differences between groups for the frequency of video feedback due to the varied 185 responses by performance-staff. Most written feedback was delivered daily and weekly through paper-186 based reports (51-72%) and reports shown on a computer screen (68-74%; **Table 3**). Verbal feedback 187 was delivered by coaches to players through daily informal chats (coaches, 79%; players, 72%) and 188 daily instructions during training/matches (coaches, 91%; players, 92%). Visual feedback was primarily 189 delivered through daily demonstrations (coaches, 79%; players, 67%), weekly video feedback (coaches,

- 190 74%; players, 77%), and weekly use of a tactics board (coaches, 56%; players, 77%). There was less
- 191 use of written feedback between coaches and players, with reports shown on a computer screen on
- 192 weekly basis only being reported 51-56% of the time (**Table 4**).
- 193
- 194 **Insert Tables 2-4 around here**
- 195
- 196 *Timing*

Most feedback between performance-staff and coaches was delivered after training and matches (>85%), with 68% of performance-staff and 74% of coaches reporting delivering and/or receiving feedback before training. 50-55% reported delivering and/or receiving feedback during training and matches (**Figure 1a**). Feedback from performance-staff to players was delivered after training and matches, with over 86% of respondents from both groups responding *yes* to these times (**Figure 1b**). Over 72% of players and coaches reported that feedback occurred across all time points (**Figure 1c**).

204

205 **Insert Figure 1 around here**

206

207 Location

208 Between performance-staff and coaches, the most frequent locations were training pitch 209 (coaches, 88%; performance-staff, 74%), e-mail/text (coaches, 82%; performance-staff, 80%), and 210 offices (coaches, 85%; performance-staff, 92%). Amongst performance-staff and players, training pitch 211 (performance-staff, 72%; players, 77%), individual/group meetings (performance-staff, 86%; players, 212 82%), and gym (performance-staff, 72%; players, 85%) had the highest proportion of ves responses 213 from both groups. Feedback between coaches and players was primarily delivered on the training pitch 214 (coaches, 100%; players, 100%), in group or individual meetings (coaches, 94%; players, 95%), and in 215 the dressing room (coaches 85%; players, 69%). 216

- -
- 217 Two-way feedback

Survey responses to delivering or receiving two-way feedback are shown in **Figure 2**. Twoway feedback within stakeholder groups was highly prevalent, with over 76% of participants responding *yes* to delivering or receiving feedback two-ways. All coaches reported *yes* to delivering feedback to other coaches.

222

223 **Insert Figure 2 around here**

224

225 Discussion

The aim of the present study was to examine the current mechanisms (i.e., what; why; how) underpinning feedback strategies of performance related information in professional male English soccer clubs. The central finding was that the primary source of feedback was verbal and was predominantly delivered in an informal nature, such as daily conversations between stakeholders. Furthermore, it was established that performance feedback between stakeholders was a two-way process, demonstrating there were frequent opportunities where feedback can potentially improve player performance and assist in the reflective elements of the coaching process.

233 A key finding from the survey was the importance of informal communication between 234 stakeholders. Most verbal feedback between performance-staff, coaches, and players was daily and 235 brief conversations. The combination of verbal instructions delivered daily during training and the 236 informal conversations that surround the transfer of data to aid reflections post training/games is 237 consistent with the research examining coaching practices and information sharing in multi-disciplinary teams.^{10, 19, 20, 22, 26.} For example, the relatively high frequency of verbal feedback reported by players 238 239 may be underpinned by their increased prospect of engagement with the feedback process when presented in this way.¹⁰ Coaches typically favour developing their knowledge (e.g., practice design) via 240 241 informal (collaboration with peers and/or mentor) over formal sources.²⁷ Thus it is not surprising that 242 the most frequent method of feedback from performance-staff to coaches was informal, supporting 243 previous findings that more opportunities should be provided to aid informal interactions such as shared office spaces, canteens and shared lounges.¹⁰ Furthermore, frequent informal communication methods 244 245 employed by all stakeholders may be seen as integral to the effectiveness of multidisciplinary teams

246 within professional soccer, as they provided opportunities for shared reflections, learning, and 247 relationship building.¹⁴ Soccer clubs have previously reported that good internal communication among 248 coaches, sports scientists, and medical staff leads to more favourable outcomes, such as lower player 249 injury burdens and higher training and match availability.²⁸ The data provides further evidence of the 250 value of utilising the power of informal interactions for effective communication between all 251 stakeholders within the professional soccer environment. It may be recommended that stakeholders 252 such as performance-staff look to develop increased interpersonal skills such as knowledge of social 253 contexts, relationship building, and intrapersonal skills such as self-regulation and reflection to deliver meaningful feedback that is purposeful and not 'noise'.^{16,29} Education sessions for performance staff 254 255 and coaches should look to develop interpersonal and communication skills, given the increasing size 256 of multidisciplinary teams in elite professional soccer clubs.

257 The feedback process observed by coaches and performance-staff were indicative of the current 258 coaching process and workflow of stakeholders who operate in professional soccer environments.^{30,31} 259 For example, feedback was delivered at a high frequency by performance-staff to coaches in a range of 260 formats (verbal; graphical; written) on a daily/weekly basis (Table 2). In addition to informal 261 communication, performance-staff also reported they deliver feedback in formal meetings (74%) and 262 using graph-based data (66%) or email/text/WhatsApp (72%) on a daily/weekly basis. This is not 263 unexpected given previous work examining the nature of feedback from scientists such as performance 264 analysts across a range of sporting contexts.^{4,32,33} It has previously been reported that the clarity and 265 timeliness of training load data reports are central for communication.^{10,18,19} However, coaches generally 266 agree that high volumes of data and/or poor communication can cause barriers to effective feedback.¹⁰ 267 Without consideration, performance staff may risk an information overload to coaches, an approach which is indicative of feedback strategies that can attenuate understanding/learning.¹ It could be 268 269 recommended that reducing the amount of information provided to coaches, yet ensuring the correct data is included may bridge the translational gap between data and decision-making.^{10,31,34} For instance, 270 271 principal component analysis of training load data can be applied within professional soccer to reduce 272 the amount of GPS information fed back from sports scientists to coaches.³⁵ Feedback was delivered in

high frequencies and varying formats, however further research is required to understand whether theinformation provided is perceived to be useful by all stakeholders.

275 The data illustrated that performance-staff primarily provided feedback to coaches before 276 training and after training/matches. This finding is consistent with previous literature indicating that 277 both groups reflected post session and evaluated previous training sessions prior to subsequent training.¹⁰ The higher values in the present study may be reflective of feedback from a broad range of 278 performance-staff rather than physical data alone, fed back by sports scientists. For example, it has been 279 280 shown that as players progress through age groups they are exposed to an increasing array of feedback 281 providers such as physiotherapists, performance analysts, nutritionists and strength & conditioning staff that provide information to both coaches and players before training sessions.⁶ Notwithstanding the 282 283 nature of the information, these data support the suggestion that feedback of such information facilitates 284 not only the use of reflection and/or review after training or matches^{36,37}, but also planning and decisionmaking processes prior to training or matches.^{10,19} While information was typically provided by coaches 285 286 during practice, feedback from performance staff was more rare (Figure 1), therefore an 'integrated 287 delivery model' may not be regularly applied currently. For example, research contextualising the 288 physical actions such as high intensity actions/sprints in relation to positional actions (e.g., overlapping 289 runs for full backs) highlights the potential for merging departmental disciplines (i.e., coaching and 290 sports science).³⁸ Integrated and contextualised feedback of physical, technical, and tactical skills in 291 professional soccer is an area for development, which could enhance the functioning of interdisciplinary 292 teams, thus potentially improving performance and developmental outcomes for players.

293 A further study aim was to identify the use of two-way feedback processes across stakeholder 294 groups. All participants reported they both delivered and received feedback between and within groups, 295 indicating that a two-way interaction exists (Figure 2).⁷ For instance, two-way interactions between 296 managers/coaches and their support staff, managers/coaches, and their players, as well as 297 managers/coaches and the clubs board, have been shown to be prevalent across different sports settings.³⁹ For players, the two-way nature of the feedback mechanisms has been shown through 298 299 athlete's accounts of their involvement in video feedback sessions, demonstrating they are given the opportunity to feedback to their coaches and/or peers.^{3,4,5,9} These findings provide further evidence that 300

301 athletes are no longer seen as just the receivers of feedback, but now play an active role in the process.³² 302 An agreement between both players and performance-staff indicated that players are also the givers of 303 feedback to both performance-staff and coaches, showing further support for the suggestion that players 304 should be recognised and included within the feedback process.^{10,22} The high quantity of two-way 305 feedback together with verbal feedback as the primary source demonstrates that lines of communication 306 are open between all stakeholders, and two-way feedback during daily conversations may be vital to 307 improve performance and development in professional soccer. Professional soccer clubs may look to 308 carefully consider facility design in order to optimise the time, space, and opportunities for two-way 309 feedback to occur. Further research is still warranted to understand the mechanisms that underpin two-310 way feedback and whether it is effective to inform practice and improve performance.

311

312 Limitations

313 With regards to response rate, 139 stakeholders completed the survey across three groups and 314 could be considered low in comparison to the total number of players, coaches, and performance staff 315 in professional soccer. Increased response rates are usually indicative of findings with greater external 316 validity.⁴⁰ However, the current response rate is similar to previous survey-based studies examining feedback of training load data in professional soccer clubs.^{10,19} The novelty and quality of the data set 317 318 should also be acknowledged whilst recognising that challenges arise when recruiting participants from 319 coach and player subgroups, thus limiting a full understanding of feedback in professional soccer. 320 Further investigation of coach and player perceptions from a quantitative and qualitative perspective 321 should be recommended. There is also a possibility within the findings of a clustering of responses, as 322 multiple responses were allowed from one club. This was enabled to access as many participants as 323 possible, and to ensure ecological validity of the findings in the applied club environment in which the 324 research was predominantly carried out. It should be acknowledged that responses are from a range of 325 soccer clubs, yet the potential for sampling bias must also be acknowledged when interpreting the 326 survey data for several reasons. Firstly, there is a much higher representation from performance-staff 327 than coaches and players, which may indicate that the reach of the survey through social media and 328 snowball sampling may have resulted in an over representation of participants from this stakeholder group. Therefore, it could be anticipated that response rates were higher amongst this demographic andmay skew the results.

331

332 Practical Applications

333 Frequent informal communication methods among all stakeholders are integral to the 334 effectiveness of multidisciplinary teams within professional soccer, providing opportunities for shared 335 reflections, learning, and relationship building. Through bespoke training and education sessions, 336 performance staff and coaches should develop interpersonal skills (e.g., social context knowledge, 337 relationship building) and intrapersonal skills (e.g., self-regulation, reflection) to deliver meaningful 338 and purposeful feedback. Reducing the amount of information provided to coaches, while ensuring the 339 inclusion of relevant data, can help bridge the gap between data and decision-making. An approach 340 which optimises the time, space, and opportunity for feedback may be recommended, yet further 341 research is necessary to understand the mechanisms underpinning effective two-way feedback to inform 342 practice and improve performance.

343

344 Conclusions

345 Building on previous work in performance analysis, coaching, and training load monitoring, 346 this study examined the how of feedback of performance related information in professional soccer in 347 England. Key findings from the survey demonstrated the prevalence of verbal feedback within this 348 environment. Feedback was delivered in several formats but was primarily delivered via daily informal 349 conversations during planning, delivery, and reviewing of practice and matches, thus highlighting the 350 importance of verbal communication in the process of attempting to optimise player development and 351 performance. Stakeholders perceived feedback to be delivered highly frequently, highlighting the many 352 opportunities where it can be utilised by practitioners. Finally, feedback was delivered via a two-way 353 process between all stakeholders, illustrating open channels of communication. Practitioners should aim 354 to optimise their interpersonal and communication skills to capitalise on these frequent verbal feedback 355 opportunities within the professional soccer environment. To improve the process, future research may 356 provide opportunities to further explore stakeholders' perceptions of feedback, their motivations to use

- 357 these strategies, and their effectiveness in influencing decision-making and informing behaviour
- 358 change.
- 359
- 360 **Insert Tables 5-7 as appendices around here**
- 361
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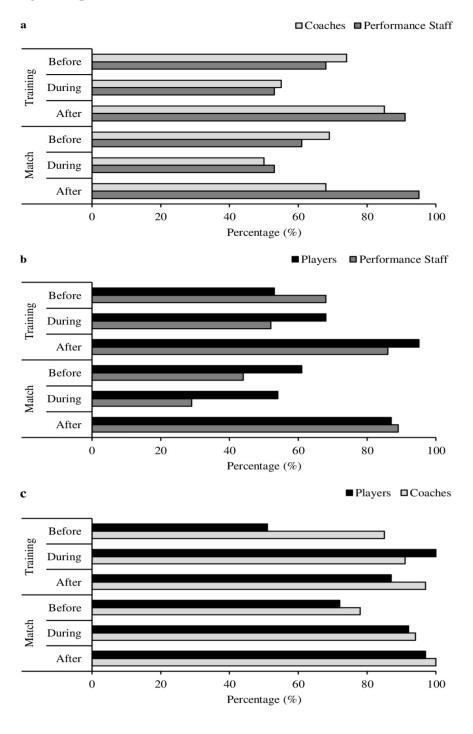
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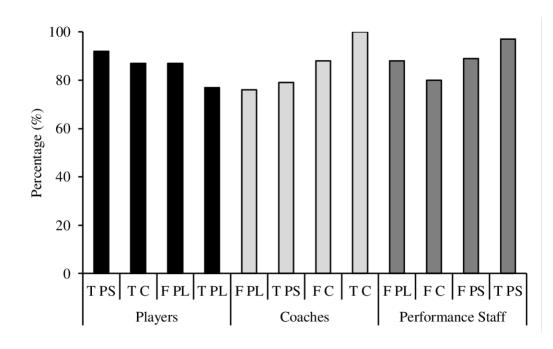
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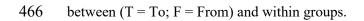
457 Figure Captions



460 Figure 1. Timing of feedback delivery between key stakeholders (a) performance staff (black bars) and
461 coach (light-grey bars), (b) performance staff (dark-grey bars) and player, (c) coach and player.



465 Figure 2. Player, coach and performance staff responses to delivering and receiving 2-way feedback



467 Table 1. Proportion of league clubs worked with, player age categories, academy status and level of experience represented by the participants. Also included

468 are proportion ratios (coaches: performance staff, coaches: players, performance staff :players) and the qualitative inferences.

469

	Coaches % (no.)	Perf Staff % (no.)	Players % (no.)	Proportion Ratio	Qualitative Inference
^a Which league does your senior tean	m/club currently play in?) *			
Premier League	33 (1)	37 (13)	3 (1)	0.9; 13; 14.5	Small; Extremely Large; Extremely Large
Championship	67 (2)	37 (13)	95 (37)	1.8; 0.7; 0.4	Moderate; Small; Large
League 1	0(0)	9 (3)	0 (0)	0.0; 0.0; 0.0	Extremely Large; Extremely Large; Extremely Large
League 2	0 (0)	17 (6)	3 (1)	0.0; 0.0;6.7	Extremely Large; Extremely Large; Extremely Large
^b Which team/age group do you curr	ently mainly work with/p	olay for?**			
First Team	5 (2)	39 (35)	21 (8)	0.1; 0.2; 1.9	
Professional Development Phase	41 (18)	36 (32)	79 (31)	1.1; 0.5; 0.5	
Youth Development Phase	36 (16)	17 (15)	0 (0)	2.2; N/A; N/A	
Foundation Phase	16 (7)	8 (7)	0 (0)	2; N/A; N/A	
^c What is your club's current acaden	ny status?				
Category 1	53 (16)	68 (21)	77 (23)	0.8; 0.7; 0.9	Small; Small; Small
Category 2	37 (11)	16 (5)	23 (7)	2.3; 1.6; 0.7	Large; Moderate; Small
Category 3	7 (2)	13 (4)	0 (0)	0.5; 0.0; 0.0	Moderate; Extremely Large; Extremely Large
Category 4	3 (1)	3 (1)	0 (0)	1.0; 0.0; 0.0	Trivial; Extremely Large; Extremely Large
How many years' experience do you	ı have in your current ro	le?***			
0-1 Year	15 (5)	6 (4)		2.4	Large
1-3 Years	12 (4)	38 (25)		0.3	Very Large
3-6 Years	24 (8)	21 (14)		1.1	Small
6-9 Years	24 (8)	20 (13)		1.2	Small
10-12 Years	9 (3)	9 (6)		1.0	Trivial
12+ Years	18 (6)	6 (4)		2.9	Large

470

471 **Footnotes** ^a77 Total responses, with 3 by coaches, 35 by performance staff and 39 by players. *coaches and performance staff only answered if they worked

472 with First Team; ^b172 Total responses, with 44 by coaches, 89 by performance staff and 39 by players. **Professional development phase was further

473 subdivided into U23s and U18s for players. ?*** °91 Total responses, with 30 by coaches, 31 by performance staff and 30 by players. ***Participants didn't

474 respond if they selected that they worked with First Team on previous question.

- **Table 2.** Proportion of performance staff and coach's responses to the frequency of delivery and reception of verbal, visual, and written forms of feedback
- 476 along with ratio of proportion and qualitative inference for the ratio.

		Coaches % (no.)	Perf Staff % (no.)	Proportion Ratio	Qualitative Inference
How often do you give/rec	eive the following types of VERB	AL feedback to/from your coach/	performance staff?		
Informal Chats or	Never	3 (1)	2 (1)	0.52	Moderate
Conversations	Every Day/Session	71 (24)	80 (53)	1.14	Small
	Every Game/Week	21 (7)	9 (6)	0.44	Large
	Every 1-2 Months	3 (1)	9 (6)	3.09	Large
	Every 3-6 Months	3 (1)	0 (0)	0	Extremely Large
Formal Meetings	Never	12 (4)	15 (10)	1.25	Small
	Every Day/Session	27 (9)	35 (23)	1.28	Small
	Every Game/Week	45 (15)	39 (26)	0.87	Small
	Every 1-2 Months	9 (3)	9 (6)	1.00	Trivial
	Every 3-6 Months	6 (2)	2 (1)	0.25	Very Large
How often do you give/reco	eive the following types of VISU	4L feedback to/from your coach/p	verformance staff?		
Video	Never	28 (9)	36 (24)	1.29	Small
	Every Day/Session	19 (6)	18 (12)	0.97	Trivial
	Every Game/Week	25 (8)	26 (17)	1.03	Trivial
	Every 1-2 Months	16 (5)	9 (6)	0.58	Moderate
	Every 3-6 Months	13 (4)	11 (7)	0.85	Small
Graph Based Data	Never	13 (4)	11 (7)	0.85	Small
	Every Day/Session	28 (9)	42 (28)	1.51	Moderate
	Every Game/Week	25 (8)	24 (16)	0.97	Trivial
	Every 1-2 Months	25 (8)	20 (13)	0.79	Small
	Every 3-6 Months	9 (3)	3 (2)	0.32	Large
How often do you give/reco	eive the following types of WRIT	TEN feedback to/from your coact	h/performance staff?		
Reports on a Computer	Never	15 (5)	17 (11)	1.13	Small
lcreen	Every Day/Session	21 (7)	30 (20)	1.47	Moderate
	Every Game/Week	41 (14)	33 (22)	0.81	Small
	Every 1-2 Months	12 (4)	18 (12)	1.55	Moderate
	Every 3-6 Months	12 (4)	2 (1)	0.13	Very Large
Email/Text/WhatsApp	Never	9 (3)	15 (10)	1.69	Moderate
	Every Day/Session	24 (8)	34 (22)	1.40	Small
	Every Game/Week	36 (12)	38 (25)	1.06	Trivial
	Every 1-2 Months	18 (6)	6 (4)	0.34	Large
	Every 3-6 Months	12 (4)	6 (4)	0.51	Moderate

- **Table 3.** Proportion of performance staff and player's responses to the frequency of delivery and reception of verbal, visual, and written forms of
- 480 feedback along with ratio of proportion and qualitative inference for the ratio.

		Perf Staff % (no.)	Players % (no.)	Proportion Ratio	Qualitative Inference
How often do you give/rece	eive the following types of VERI	BAL feedback to/from your players,	/performance staff?		
Informal Chats or	Never	5 (3)	3 (1)	1.77	Moderate
Conversations	Every Day/Session	79 (52)	59 (23)	1.34	Small
	Every Game/Week	14 (9)	31 (12)	0.44	Large
	Every 1-2 Months	2 (1)	8 (3)	0.20	Very Large
	Every 3-6 Months	2 (1)	0 (0)	0	Extremely Large
Instructions During	Never	26 (17)	8 (3)	3.35	Very Large
Training/Match	Every Day/Session	53 (35)	64 (25)	0.83	Small
	Every Game/Week	18 (12)	26 (10)	0.71	Small
	Every 1-2 Months	3 (2)	3 (1)	1.18	Small
	Every 3-6 Months	0 (0)	0 (0)	N/A	N/A
How often do you give/rece	eive the following types of VISU	AL feedback to/from your players/	performance staff?		
Video	Never	26 (17)	21 (8)	1.26	Small
	Every Day/Session	14 (9)	15 (6)	0.89	Small
	Every Game/Week	32 (21)	51 (20)	0.62	Moderate
	Every 1-2 Months	21 (14)	10 (4)	2.07	Large
	Every 3-6 Months	8 (5)	3 (1)	2.95	Large
Graph Based Data	Never	18 (12)	3 (1)	7.09	Very Large
	Every Day/Session	18 (12)	21 (8)	0.89	Small
	Every Game/Week	41 (27)	54 (21)	0.76	Small
	Every 1-2 Months	20 (13)	13 (5)	1.54	Moderate
	Every 3-6 Months	3 (2)	10 (4)	0.30	Large
How often do you give/rece	eive the following types of WRIT	TEN feedback to/from your player	rs/performance staff?		
Reports on a Computer	Never	17 (11)	13 (5)	1.30	Small
Screen	Every Day/Session	18 (12)	15 (6)	1.18	Small
	Every Game/Week	50 (33)	59 (23)	0.85	Small
	Every 1-2 Months	15 (10)	13 (5)	1.18	Small
	Every 3-6 Months	0 (0)	0 (0)	N/A	N/A
Email/Text/WhatsApp	Never	33 (22)	62 (24)	0.54	Moderate
	Every Day/Session	12 (8)	8 (3)	1.58	Moderate
	Every Game/Week	32 (21)	21 (8)	1.55	Moderate
	Every 1-2 Months	23 (15)	5 (2)	4.43	Very Large
	Every 3-6 Months	0(0)	5 (2)	0.00	Extremely Large

Table 4. Proportion of coach's and player's responses to the frequency of delivery and reception of verbal, visual, and written forms of feedback along with

484 ratio of proportion and qualitative inference for the ratio.

		Coaches % (no.)	Players % (no.)	Proportion Ratio	Qualitative Inference
How often do you give/rec	eive the following types of VERE	AL feedback to/from your players	s/coaches?		
Informal Chats or	Never	0 (0)	3 (1)	0.00	Extremely Large
Conversations	Every Day/Session	79 (27)	72 (28)	1.11	Trivial
	Every Game/Week	18 (6)	21 (8)	0.86	Small
	Every 1-2 Months	0 (0)	5 (2)	0.00	Extremely Large
	Every 3-6 Months	3 (1)	0 (0)	0.00	Extremely Large
Instructions During	Never	0 (0)	3 (1)	0.00	Extremely Large
Training/Game	Every Day/Session	91 (31)	92 (36)	0.99	Trivial
	Every Game/Week	9 (3)	3 (1)	3.44	Very Large
	Every 1-2 Months	0 (0)	3 (1)	0.00	Extremely Large
	Every 3-6 Months	0 (0)	0 (0)	N/A	N/A
How often do you give/rec	eive the following types of VISU.	AL feedback to/from your players/	coaches?		
Video	Never	3 (1)	3 (1)	1.15	Small
	Every Day/Session	12 (4)	13 (5)	0.92	Trivial
	Every Game/Week	74 (25)	77 (30)	0.96	Trivial
	Every 1-2 Months	12 (4)	8 (3)	1.53	Moderate
	Every 3-6 Months	0 (0)	13 (5)	0.00	Extremely Large
Demonstration	Never	0 (0)	8 (3)	0.00	Extremely Large
	Every Day/Session	79 (27)	67 (26)	1.19	Small
	Every Game/Week	21 (7)	21 (8)	1.00	Trivial
	Every 1-2 Months	0 (0)	5 (2)	0.00	Extremely Large
	Every 3-6 Months	0 (0)	0 (0)	N/A	N/A
How often do you give/rec	eive the following types of WRIT	TEN feedback to/from your playe	rs/coaches?		
Paper Based Reports	Never	30 (10)	31 (12)	0.98	Trivial
	Every Day/Session	3 (1)	3 (1)	1.18	Small
	Every Game/Week	24 (8)	36 (14)	0.68	Moderate
	Every 1-2 Months	27 (9)	15 (6)	1.77	Moderate
	Every 3-6 Months	15 (5)	15 (6)	0.98	Trivial
Email/Text/WhatsApp	Never	33 (11)	51 (20)	0.65	Moderate
	Every Day/Session	12 (4)	13 (5)	0.95	Trivial
	Every Game/Week	27 (9)	21 (8)	1.33	Small
	Every 1-2 Months	21 (7)	10 (4)	2.07	Large
	Every 3-6 Months	6 (2)	5 (2)	1.18	Small

Table 5. Survey questions and possible responses for Coaches.

Championship League 1 League 2 Other (please specify) What is your club's current academy status? Multiple Choice Category 1 Category 2 Category 3 Category 3 Category 4 Other (please specify) Other (please specify) HOW OFTEN do you receive the following types of VERBAL feedback from your performance Multiple Choice Never staff? Every Day/Session Every Day/Session Phone Calls Every 3-6 Months Every 3-6 Months Other (please specify and describe how often) HUtiple Choice Never HOW OFTEN do you receive the following types of VISUAL feedback from your performance Multiple Choice Never staff? Every Jay/Session Every Jay/Session Video Every Day/Session Every Day/Session	Question	Type of Question	Possible Responses
Coach - Assistant Coach Head of Coaching Assistant Coach Head of Coaching Academy Manager Other (please specify) How many years experience do you have in your current role? Multiple Choice 0-1 year 1-3 years 3-6 years 6-9 years 3-6 years 1-12 years 1-12 years 10-12 years 12 years 12 years 10-12 years 12 years 12 years 10-12 years 12 years 12 years 10-12 years 12 years 13 Component Phase (Under 18s - Under 23s) Youth Development Phase (Under 18s - Under 23s) Youth Development Phase (Under 18s - Under 23s) Youth Development Phase (Under 18s - Under 1	What is your current main role at your club?	Multiple Choice	Manager
Assistant Coach Had of Coaching Academy Manager Other (please specify) How many years experience do you have in your current role? Multiple Choice 0-1 year 1-3 years 3-6 years 6-9 years 6-9 years 1-1 2 years 1-2 years Which team'age group do you currently mainly work with? Please indicate all that apply Multiple Choice Ist Team Professional Development Phase (Under 18s - Under 23s) Youth Development Phase (Under 18s - Under 23s) Youth Development Phase (Under 18s - Under 23s) Youth Development Phase (Under 18s - Under 13s) Youth Development Phase (Under 18s - Under 18s) Which league does your clubs' 1st team currently play in? Multiple Choice Professional Development Phase (Under 18s - Under 18s) Professional Development Phase (Under 18s - Under 18s) Professional Development Phase (Under 18s - Under 18s) Youth Development Phase (Under 18s - Under 18s) Professional Development Phase (Under 18s) Profe			
Head of Coaching Academy Manager Other (please specify) How many years experience do you have in your current role? Multiple Choice 0-1 year 1-3 years 3-6 years 6-9 years 0-12 years 1-1 years 10-12 years 12+ years <td></td> <td></td> <td></td>			
Academy Manager Other (please specify) How many years experience do you have in your current role? Multiple Choice 0-1 year 1-3 years 3-6 years 6-9 years 10-12 years 12+ years Which team/age group do you currently mainly work with? Please indicate all that apply Multiple Choice 1-1 years 12+ years Which team/age group do you currently mainly work with? Please indicate all that apply Multiple Choice Professional Development Phase (Under 18s - Under 23s) Youth Development Phase (Under 18s - Under 23s) Foundation Phase (Under 18s - Under 12s) Foundation Phase (Under 18s - Under 13s) Portice (Please specify) Which league does your clubs' 1st team currently play in? Multiple Choice Premier League Championship League 2 What is your club's current academy status? Multiple Choice Category 1 Category 2 Category 3 Category 4 What is your club's current academy status? Nultiple Choice Never HOW OFTEN do you receive the following types of VERBAL feedback from your performance toff? Multiple Choice Never HOW OFTEN do your cecive the following types of VISUAL feedback from your performance toff? Multiple Choice Never Every Day/Session			Assistant Coach
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Initial problem 10-12 years 12+ years Which team/age group do you currently mainly work with? Please indicate all that apply Multiple Choice 13 t Team Which team/age group do you currently mainly work with? Please indicate all that apply Multiple Choice 13 t Team Professional Development Phase (Under 18s - Under 23s) Youth Development Phase (Under 18s - Under 23s) Which league does your clubs' 1st team currently play in? Multiple Choice Premier League Championship League 1 League 1 League 1 League 2 Other (please specify) What is your club's current academy status? Multiple Choice Category 1 Category 2 Category 2 Category 2 Category 3 Category 4 Other (please specify) HOW OFTEN do you receive the following types of VERBAL feedback from your performance Multiple Choice Never staff? Every Week/Game Every Veek/Game Every 36 Months Phone Calls Every 36 Months Every 36 Months Word OFTEN do you receive the following types of VISUAL feedback from your performance Multiple Choice Never Every Veek/Game Every Yeak/Game Every Day/Session How OFTEN do you receive the following typ			3-6 years
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League 1 League 2 Other (please specify) What is your club's current academy status? Multiple Choice Category 1 Category 2 Category 2 Category 3 Category 4 Other (please specify) Other (please specify) HOW OFTEN do you receive the following types of VERBAL feedback from your performance Multiple Choice Never staff? Every Day/Session Every Week/Game Formal Meetings Every 1-2 Months Every 3-6 Months Phone Calls Every 3-6 Months Every 3-6 Months Other (please specify and describe how often) HUltiple Choice Never HOW OFTEN do you receive the following types of VISUAL feedback from your performance Multiple Choice Never your Session Staff? Every 3-6 Months Every 3-6 Months Every 3-6 Months Video Every Meek/Game Every Day/Session Every Day/Session	Which league does your clubs' 1st team currently play in?	Multiple Choice	Premier League
League 2 Other (please specify) What is your club's current academy status? Multiple Choice Category 1 Category 2 Category 3 Category 4 Other (please specify) HOW OFTEN do you receive the following types of VERBAL feedback from your performance Multiple Choice Never staff? Every Day/Session Every Day/Session Formal Meetings Every 1-2 Months Every 3-6 Months Phone Calls Every 3-6 Months Every 3-6 Months Other (please specify and describe how often) Multiple Choice Never HOW OFTEN do you receive the following types of VISUAL feedback from your performance Multiple Choice Never staff? Every 1-2 Months Every 3-6 Months Video Every Meek/Game Every Day/Session			Championship
Other (please specify) What is your club's current academy status? Multiple Choice Category 1 Category 2 Category 3 Category 4 Category 4 Other (please specify) Other (please specify) HOW OFTEN do you receive the following types of VERBAL feedback from your performance Multiple Choice Never staff? Every Day/Session Every Veek/Game Formal Meetings Every 1-2 Months Every 3-6 Months Other (please specify and describe how often) HOW OFTEN do you receive the following types of VISUAL feedback from your performance Multiple Choice HOW OFTEN do you receive the following types of VISUAL feedback from your performance Multiple Choice Every 3-6 Months Yother (please specify and describe how often) HOW OFTEN do your receive the following types of VISUAL feedback from your performance Multiple Choice HOW OFTEN do you receive the following types of VISUAL feedback from your performance Multiple Choice Every 3-6 Months Video Every Day/Session Every Day/Session Every Day/Session			League 1
What is your club's current academy status? Multiple Choice Category 1 Category 2 Category 3 Category 4 Other (please specify) HOW OFTEN do you receive the following types of VERBAL feedback from your performance Multiple Choice Never staff? Every Day/Session Every Day/Session Formal Meetings Every 1-2 Months Every 3-6 Months Phome Calls Every 3-6 Months Every 3-6 Months Other (please specify and describe how often) HOW OFTEN do you receive the following types of VISUAL feedback from your performance Multiple Choice Never HOW OFTEN do you receive the following types of VISUAL feedback from your performance Multiple Choice Never Video Every 3-6 Months Every 3-6 Months			League 2
Category 2 Category 3 Category 4 Other (please specify) HOW OFTEN do you receive the following types of VERBAL feedback from your performance Multiple Choice staff? Every Day/Session Informal Chats Every Week/Game Formal Meetings Every 1-2 Months Phone Calls Every 3-6 Months Other (please specify and describe how often) HOW OFTEN do you receive the following types of VISUAL feedback from your performance HOW OFTEN do you receive the following types of VISUAL feedback from your performance Multiple Choice Video Never			Other (please specify)
Category 3 Category 4 Other (please specify) HOW OFTEN do you receive the following types of VERBAL feedback from your performance Multiple Choice staff? Every Day/Session Informal Chats Every Week/Game Formal Meetings Every 1-2 Months Phone Calls Every 3-6 Months Other (please specify and describe how often) HOW OFTEN do you receive the following types of VISUAL feedback from your performance HOW OFTEN do you receive the following types of VISUAL feedback from your performance Multiple Choice Video Never	What is your club's current academy status?	Multiple Choice	Category 1
Category 4 Other (please specify) HOW OFTEN do you receive the following types of VERBAL feedback from your performance Multiple Choice Never staff? Every Day/Session Informal Chats Every Week/Game Formal Meetings Every 1-2 Months Phone Calls Every 3-6 Months Other (please specify and describe how often) Every 3-6 Months HOW OFTEN do you receive the following types of VISUAL feedback from your performance Multiple Choice Never staff? Every Day/Session Every Day/Session Video Every Week/Game Every Day/Session			Category 2
Other (please specify) HOW OFTEN do you receive the following types of VERBAL feedback from your performance Multiple Choice Never staff? Every Day/Session Informal Chats Every Week/Game Formal Meetings Every 1-2 Months Phone Calls Every 3-6 Months Other (please specify and describe how often) HOW OFTEN do you receive the following types of VISUAL feedback from your performance Multiple Choice HOW OFTEN do you receive the following types of VISUAL feedback from your performance Multiple Choice Never staff? Every Day/Session Every Day/Session Video Every Week/Game Every Day/Session			Category 3
HOW OFTEN do you receive the following types of VERBAL feedback from your performance Multiple Choice Never staff? Every Day/Session Informal Chats Every Week/Game Formal Meetings Every 1-2 Months Phone Calls Every 3-6 Months Other (please specify and describe how often) Multiple Choice HOW OFTEN do you receive the following types of VISUAL feedback from your performance Multiple Choice HOW OFTEN do you receive the following types of VISUAL feedback from your performance Multiple Choice staff? Every Day/Session Video Every Week/Game			Category 4
staff? Every Day/Session Informal Chats Every Week/Game Formal Meetings Phone Calls Every 1-2 Months Other (please specify and describe how often) HOW OFTEN do you receive the following types of VISUAL feedback from your performance Multiple Choice Never staff? Every Day/Session Video Every Week/Game			Other (please specify)
staff? Every Day/Session Informal Chats Every Week/Game Formal Meetings Phone Calls Every 1-2 Months Other (please specify and describe how often) HOW OFTEN do you receive the following types of VISUAL feedback from your performance Multiple Choice Never staff? Every Day/Session Video Every Week/Game	HOW OFTEN do you receive the following types of VERBAL feedback from your performance	Multiple Choice	Never
Informal Chats Every Week/Game Formal Meetings Every 1-2 Months Phone Calls Every 3-6 Months Other (please specify and describe how often) HOW OFTEN do you receive the following types of VISUAL feedback from your performance Multiple Choice staff? Every Day/Session Video Every Week/Game			Every Day/Session
Phone Calls Every 3-6 Months Other (please specify and describe how often) HOW OFTEN do you receive the following types of VISUAL feedback from your performance Multiple Choice Never staff? Every Day/Session Video Every Week/Game	Informal Chats		Every Week/Game
Phone Calls Every 3-6 Months Other (please specify and describe how often) HOW OFTEN do you receive the following types of VISUAL feedback from your performance Multiple Choice Never staff? Every Day/Session Video Every Week/Game	Formal Meetings		
Other (please specify and describe how often) HOW OFTEN do you receive the following types of VISUAL feedback from your performance Multiple Choice Never staff? Every Day/Session Video Every Week/Game			
staff?Every Day/SessionVideoEvery Week/Game			-
staff?Every Day/SessionVideoEvery Week/Game	HOW OFTEN do you receive the following types of VISUAL feedback from your performance	Multiple Choice	Never
Video Every Week/Game			Every Day/Session
			Every 1-2 Months

Graph Based Data		Every 3-6 Months
Other (please specify and describe how often) HOW OFTEN do you receive the following types of WRITTEN feedback from your performance staff? Paper Based Print Outs Report on a Computer Screen i.e. laptop shown to you E-Mail/Text Message Other (please specify and describe how often)	Multiple Choice	Never Every Day/Session Every Week/Game Every 1-2 Months Every 3-6 Months
Do you receive feedback from your performance staff at the following times? Please indicate yes or no. Before Training During Training After Training Before Match During Match After Match Other (please specify)	Binary	Yes No
Do you receive feedback from your performance staff in the following places? Please indicate yes or no. Training Pitch Phone Call E-mail/Text Office Notice Board Gym/Treatment Room Canteen Dressing Room Other (please specify)	Binary	Yes No
HOW OFTEN do you give the following types of VERBAL feedback to your players? Talking to Players Instructions during training/match Phone Calls Other (please specify and describe how often)	Multiple Choice	Never Every Day/Session Every Week/Game Every 1-2 Months Every 3-6 Months
HOW OFTEN do you give the following types of VISUAL feedback to your players? Video Demonstrations i.e. technical information Tactics Board Other (please specify and describe how often)	Multiple Choice	Never Every Day/Session Every Week/Game Every 1-2 Months Every 3-6 Months
HOW OFTEN do you give the following types of WRITTEN feedback to your players? Paper Based Print Outs Report on a Computer Screen i.e. laptop you show them E-Mail/Text Message Other (please specify and describe how often)	Multiple Choice	Never Every Day/Session Every Week/Game Every 1-2 Months Every 3-6 Months

Do you give feedback to your players at the following times? Please indicate yes or no. Before Training	Binary	Yes No	
During Training			
After Training			
Before Match			
During Match			
After Match			
Other (please specify)			
Do you give feedback to your players in the following places? Please indicate yes or no.	Binary	Yes	
Training Pitch	j	No	
Meeting – group or individual			
Phone Call			
Dressing Room			
Notice Boards			
Gym/Treatment Room			
Other (please specify)			
GIVE any form of feedback (verbal, visual, written, other) to your performance staff? For	Binary	Yes	
example, you may tell the sports scientist that the players are looking fit and strong during the	2	No	
last 15 minutes of games at the moment.			
GIVE any form of feedback (verbal, visual, written, other) to other coaches?For example, you	Binary	Yes	
may sit down for lunch with another coach and tell him what you thought of his session, and	2	No	
what he could improve upon for next time.			
RECEIVE any form of feedback (verbal, visual, written, other) from other coaches?For example,	Binary	Yes	
you may ask a more experienced coach to observe you coaching and provide you with some	2	No	
examples of how you could improve.			
RECEIVE any form of feedback (verbal, visual, written, other) from your players? For example,	Binary	Yes	
you may ask the players at the end of the session what they thought of the session and what	2	No	
could be done differently next time.			

Table 6. Survey questions and possible responses for Performance Staff.

uestion	Type of Question	Possible Responses
lease indicate which category best represents your current main role?	Multiple Choice	Sports Scientist
		Strength & Conditioning Coach
		Performance Analyst
		Physiotherapist
		Doctor
		Nutritionist
		Psychologist
		Head of Sports Science and Medicine
		Other (please specify)
ow many years' experience, in total, do you have in this role?	Multiple Choice	0-1 year
		1-3 years
		3-6 years
		6-9 years
		10-12 years
		12+ years
/hich team/age group do you currently mainly work with? Please indicate all that apply	Multiple Choice	1st Team
	F	Professional Development Phase (Under 18s - Under 23s)
		Youth Development Phase (Under 12s - Under 16s)
		Foundation Phase (Under 9s - Under 11s)
		Other (please specify)
/hich league does your club currently play in?	Multiple Choice	Premier League
men rengne aver jour erne earrennij praj mi	internipre enteree	Championship
		League 1
		League 2
		Other (please specify)
/hat is your club's current academy status?	Multiple Choice	Category 1
That is your club's current academy status:	Wattiple Choice	Category 2
		Category 3
		Category 4
		Other (please specify)
OW OFTEN do you give the following types of VERBAL feedback to your coaches?	Multiple Chains	Never
of the first of the following types of VERBAL feedback to your coaches?	Multiple Choice	Never Every Day/Session
ormal Meetings		
hone Calls		Every Week/Game Every 1-2 Months
ther (please specify and describe how often)		
		Every 3-6 Months
the (prease specify and describe now orten)		
OW OFTEN do you give the following types of VISUAL feedback to your coach(s)?	Multiple Choice	Never Every Day/Session

Demonstrations i.e. technical information		Every Week/Game
Graph Based Data		Every 1-2 Months
Other (please specify and describe how often)		Every 3-6 Months
HOW OFTEN do you give the following types of WRITTEN feedback to your coach(s)?	Multiple Choice	Never
Paper Based Print Outs	1	Every Day/Session
Report on a Computer Screen i.e. show them a laptop		Every Week/Game
E-Mail/Text Message		Every 1-2 Months
Other (please specify and describe how often)		Every 3-6 Months
Do you give feedback to your coach(s) at the following times? Please indicate yes or no.	Binary	Yes
Before Training		No
During Training		
After Training		
Before Match		
During Match		
After Match		
Other (please specify)		
Do you give feedback to your coach(s) in the following places? Please indicate yes or no.	Binary	Yes
Training Pitch		No
Phone Call		
E-mail/Text		
Office		
Notice Board		
Gym/Treatment Room		
Canteen		
Dressing Room		
Other (please specify)		
HOW OFTEN do you give the following types of VERBAL feedback to your players?	Multiple Choice	Never
Talking to Players		Every Day/Session
Instructions during training/match		Every Week/Game
Phone Calls		Every 1-2 Months
Other (please specify and describe how often)		Every 3-6 Months
HOW OFTEN do you give the following types of VISUAL feedback to your players?	Multiple Choice	Never
Video		Every Day/Session
Demonstrations i.e. technical information		Every Week/Game
Graph Based Data		Every 1-2 Months
Other (please specify and describe how often)		Every 3-6 Months
HOW OFTEN do you give the following types of WRITTEN feedback to your players?	Multiple Choice	Never
Paper Based Print Outs		Every Day/Session
Report on a Computer Screen i.e. laptop you show them		Every Week/Game
E-Mail/Text Message		Every 1-2 Months
Other (please specify and describe how often)		Every 3-6 Months
Do you give feedback to your players at the following times? Please indicate yes or no.	Binary	Yes
Before Training		No

During Training		
After Training		
Before Match		
During Match		
After Match		
Other (please specify)		
Do you give feedback to your players in the following places? Please indicate yes or no.	Binary	Yes
Fraining Pitch		No
Meeting – group or individual		
Phone Call		
Dressing Room		
Notice Boards		
Gym/Treatment Room		
Other (please specify)		
GIVE any form of feedback (verbal, visual, written, other) to other members of the performance	Binary	Yes
staff? Yes/No For example, you (the sports scientist) send a report to the physiotherapist with the		No
physical data for an injured player who has been doing rehab.		
RECEIVE any form of feedback (verbal, visual, written, other) from other members of the	Binary	Yes
performance staff? Yes/No For example, you (the physiotherapist) are carrying out a rehab		No
session, the sports science staff are monitoring your session live and they tell you how much		
high intensity distance the player has covered and what percentage of his maximum speed he has		
achieved.		
RECEIVE any form of feedback (verbal, visual, written, other) from your coach(s)? Yes/NoFor	Binary	Yes
example, you (the performance analyst) may sit down with the coach after a game and he may		No
give you his opinion on the game. This will be the information you use to put the post match		
neeting together.		
RECEIVE any form of feedback (verbal, visual, written, other) from your players? Yes/NoFor	Binary	Yes
example, you (the strength & conditioning coach) have a conversation with a player at the end of		No
a gym session. He explains why he avoids doing upper body weights during the session, it makes		
him feel "top-heavy" and the manager/coach has already told him he is looking heavy and should		
ose weight.		

Table 7. Survey questions and possible responses for Players.

Question	Type of Question	Possible Responses
Which team/age group do you currently mainly play for?	Multiple Choice	1 st Team
		Under 23's
		Under 18's
		Other (please specify)
What is your club's current academy status?	Multiple Choice	Category 1
		Category 2
		Category 3
		Category 4
		Other (please specify)
Which league does your club currently play in?	Multiple Choice	Premier League
		Championship
		League 1
		League 2
		Other (please specify)
HOW OFTEN do you receive the following types of VERBAL feedback from your soccer	Multiple Choice	Never
coach(s)?		Every Day/Session
Talking to coach(s)		Every Week/Game
Instruction during training/match		Every 1-2 Months
Phone Calls		Every 3-6 Months
Other (please specify and describe how often)		
HOW OFTEN do you receive the following types of VISUAL feedback from your soccer	Multiple Choice	Never
coach(s)?		Every Day/Session
Video		Every Week/Game
Demonstrations i.e. technical information		Every 1-2 Months
Tactics Board		Every 3-6 Months
Other (please specify and describe how often)		
HOW OFTEN do you receive the following types of WRITTEN feedback from your soccer	Multiple Choice	Never
coach(s)?		Every Day/Session
Paper Based Print Outs		Every Week/Game
Report on a Computer Screen i.e. laptop shown to you		Every 1-2 Months
E-Mail/Text Message		Every 3-6 Months
Other (please specify and describe how often)		
Do you receive feedback from your soccer coach(s) at the following times? Please indicate yes	Binary	Yes
or no.		No
Before Training		
During Training		
After Training		
Before Match		

During Match		
After Match		
Other (please specify)		
Do you receive feedback from your soccer coach(s) in the following places? Please indicate yes	Binary	Yes
or no.	Dinary	No
Training Pitch		
Meeting – group or individual		
Phone Call		
Dressing Room		
Notice Board		
Gym/Treatment Room		
Canteen		
Other (please specify)		
HOW OFTEN do you receive the following types of VERBAL feedback from your performance	Multiple Choice	Never
staff?	1	Every Day/Session
Talking to Performance Staff		Every Week/Game
Instructions during training/match		Every 1-2 Months
Phone Calls		Every 3-6 Months
Other (please specify and describe how often)		·
HOW OFTEN do you receive the following types of VISUAL feedback from your performance	Multiple Choice	Never
staff?		Every Day/Session
Video		Every Week/Game
Demonstrations i.e. technical information		Every 1-2 Months
Graph Based Data		Every 3-6 Months
Other (please specify and describe how often)		
HOW OFTEN do you receive the following types of WRITTEN feedback from your	Multiple Choice	Never
performance staff?		Every Day/Session
Paper Based Print Outs		Every Week/Game
Report on a Computer Screen i.e. laptop shown to you		Every 1-2 Months
E-Mail/Text Message		Every 3-6 Months
Other (please specify and describe how often)		
Do you receive feedback from your performance staff at the following times? Please indicate yes	Binary	Yes
or no.		No
Before Training		
During Training		
After Training		
Before Match		
During Match After Match		
Other (please specify) Do you receive feedback from your performance staff in the following places? Please indicate	Binary	Yes
	Dinary	No
yes or no. Training Pitch		INU

Meeting – group or individual			
Phone Call			
Dressing Room			
Notice Boards			
Gym/Treatment Room			
Other (please specify)			
GIVE any form of feedback (verbal, visual, written, other) to your soccer coach(s)? Yes/No For	Binary	Yes	
example, at the end of the game the coach asks everyone what their thoughts were on the game		No	
and what we could do better next time. You say that you think we could be more aggressive in			
our individual battles.			
GIVE any form of feedback (verbal, visual, written, other) to your performance staff?	Binary	Yes	
Yes/No For example, you fill in your wellness questionnaire in the morning before training and		No	
say how heavy and sore your legs are feeling, and also you had a really bad sleep last night.			
GIVE any form of feedback (verbal, visual, written, other) to your team mates? Yes/No For	Binary	Yes	
example, during an analysis session you are asked to give 3 good and 3 bad things that a		No	
different unit did during a game (i.e. defenders tell midfielders what they thought).			
RECEIVE any form of feedback (verbal, visual, written, other) from your team mates?	Binary	Yes	
Yes/No For example, you are playing in a game during training and you play a good ball which		No	
opens up an attack for the team, one of the players on your team shouts "what a ball, you're on			
fire".			