

1 **Examining the Effect of Experience and Qualification Pathway When Forming Initial**  
2 **Expectancies of Refereeing Competence**

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14

15 **Abstract**

16 Within sporting environments, it is inevitable that sports personnel (e.g., athletes, coaches,  
17 officials) will continually find themselves developing expectations of others with whom they  
18 interact. With this in mind, the current study aimed to investigate how the informational cues  
19 of experience and qualification pathway may affect both athletes and coaches' judgements of  
20 perceived refereeing competence. A cross-sectional between-subjects experimental design  
21 was employed using 112 soccer coaches and players. Participants were required to read one  
22 of four refereeing vignettes which manipulated the two independent variables of experience  
23 and qualification pathway; Experienced/Longitudinal, Experienced/Fast-Track,  
24 Limited/Longitudinal, Limited/Fast-track. Following familiarization with the vignettes,  
25 participants completed the Assessment of Referee Competence Scale (ARCS) to rate their  
26 perceived competence of the referee. Competence was categorized through six  
27 characteristics; Communication, Confidence, Fitness, Impartiality, Consistency and

28 Respectfulness. MANOVA revealed the Experienced referee was significantly more  
29 competent for all characteristics of refereeing competence compared to the Limited condition.  
30 Although qualification pathway yielded no significant differences between the Longitudinal  
31 and Fast-track condition, follow-up ANOVA revealed that referees associated with the  
32 Longitudinal qualification pathway (i.e., had progressed through every level) were rated  
33 significantly more competent for the characteristic of Communication than referees reported  
34 to be on the Fast-Track scheme. These results suggest that referees can manipulate the  
35 information they present to players and coaches prior to interaction to help induce a positive  
36 first impression. By developing knowledge and skills in impression management, referees are  
37 likely to optimise their control of future interactions and reduce the likelihood of  
38 interpersonal conflict.

39

40 *Key words:* interpersonal perception, first impressions, expectancy effects, sports officials,  
41 communication.

42

43 Examining the effect of experience and qualification pathway when forming initial  
44 expectancies of refereeing competence.

45 Expectancies, defined as “beliefs about a future state of affairs” (Olson, Roese, &  
46 Zanna, 1996, p. 211), signify the process of utilizing visible cues, knowledge, and past  
47 experience to interpret and make sense of the world around us. Within sporting environments,  
48 social interactions are inevitable, and sports personnel (e.g., athletes, coaches, officials) are  
49 continually developing expectations of others with whom they interact. Specifically,  
50 individuals seek out informational cues to aid their understanding of how an interaction may  
51 develop and conclude (Fiske & Neuberg, 1990; Fiske & Taylor, 1991), thus, allowing  
52 individuals to manage how a social interaction will unfold (Greenlees, 2007). From a sport

53 performance perspective, individuals can use expectancies to influence decisions regarding  
54 team selection (e.g., Solomon & Rhea, 2008), optimise their chances of defeating an  
55 opponent (e.g., Buscombe, Greenlees, Holder, Thelwell, & Rimmer, 2006), or to ensure that  
56 the nature of the interaction is positive (e.g., Horn, Lox, & Labrador, 2010). For example, in  
57 soccer, defenders may use informational cues (e.g., whether the attacker is on their strongest  
58 foot) to generate an expectation about how the play will progress to increase their chances of  
59 winning back possession. Similarly, goalkeepers might pick up on similar cues to enhance  
60 their chances of saving a penalty kick (Dicks, Pocock, Thelwell, & van der Kamp, 2016;  
61 Furley, Dicks, & Memmert, 2012). Whilst the previous examples are applicable to  
62 competitive sporting encounters, expectancies may also impact how sporting relationships are  
63 formed (McArthur & Baron, 1983). For instance, expectancies can induce beliefs about the  
64 perceived competence, goals, and psychological state of a range of sports personnel  
65 (Buscombe et al., 2006; Manley, Greenlees, & Thelwell, 2016; Solomon & Rhea, 2008),  
66 which in turn, can induce an array of affective, behavioural, and cognitive responses to  
67 influence how an interaction might progress (Olson et al., 1996).

68         Due to the vast number of informational cues available when forming expectancies of  
69 others, there has been considerable difficulty classifying such cues into more simple and  
70 accessible dimensions. Cook (1971) perhaps provides the simplest explanation by  
71 categorizing cues as static or dynamic. Cook defined a static cue as a construct that is stable  
72 throughout an interaction (e.g., gender, ethnicity), whereas a dynamic cue was described as  
73 interchangeable, depending on the characteristics of the interaction (e.g., body language,  
74 facial expressions, eye contact). Although this classification system is dated, it shares similar  
75 characteristics to more recent expectancy frameworks, developed within the context of the  
76 coach-athlete relationship, including the two-factor (Horn et al., 2010) and three-factor  
77 models (Manley, Greenlees, Thelwell, Filby, & Smith, 2008). Despite being explorative in

78 nature, Manley et al. (2008) proposed that static and dynamic cues alone are not sufficient in  
79 classifying informational cues. Their three-factor model proposed the inclusion of Third-  
80 Party Reports (TPRs) as an additional category. TPRs were defined as sources of information  
81 that arise from the written or verbal opinions of significant others, and could include cues  
82 such as reputation, qualifications, and success rate. This conclusion fits with the findings of  
83 previous research investigating the potential impact of TPRs, regarding the athlete, in  
84 influencing the decision making of sports officials, such as judges, officials and referees  
85 (Findlay & Ste-Marie, 2004; Jones, Paull, & Erskine, 2002; Souchon, Coulomb-Cabagno,  
86 Traclet, & Rasclé, 2004).

87         To appreciate and explain more fully the consequences and implications of  
88 expectancies within the context of sports officiating, the four-stage expectancy cycle (e.g.,  
89 Becker & Solomon, 2005; Horn et al., 2010; Solomon, 2001) represents a useful conceptual  
90 framework. Although this expectancy cycle was developed to create an understanding of how  
91 coaches might form expectations of their athletes, the four stages are highly transferable to  
92 the actions and situational demands of other personnel such as officials and parents (Horn et  
93 al., 2010). The four key components of the expectancy cycle are as follows: (1) the perceiver  
94 develops a set of beliefs and expectancies regarding the target, (2) the perceiver adapts their  
95 behaviour to appear as though their expectations about the target are true, (3) the target  
96 interprets, and therefore adapts, their behaviour to align with the behaviour of the perceiver,  
97 (4) the perceiver uses the target's behaviour as confirmation that their initial expectancies  
98 and beliefs were true. A hypothetical interaction between a soccer player and a referee will  
99 serve as an illustrative example. Stage one of the cycle may involve the player drawing on  
100 their knowledge and previous experience to make an initial judgement or expectancy  
101 regarding the referee's competence. In stage two, this initial expectation is proposed to  
102 influence how the player behaves towards that referee. For example, players are more

103 accepting of a refereeing decision if their initial perception of the referee is that he/she is  
104 confident and “firm” with the players (see Simmons, 2010). In the third stage, the referee  
105 interprets the player’s behaviour towards the decision, and will either adapt his or her  
106 behaviour to match the player’s initial expectancy (i.e., behavioural confirmation), or will  
107 challenge the behaviour of the player by consciously striving to justify the initial decision  
108 more robustly through subsequent behaviour (i.e., behavioural disconfirmation). In the fourth  
109 stage, the role of the perceiver swings back to the player, who interprets the referee’s  
110 behaviour to conclude whether it has reinforced or brought into question the initial  
111 expectation (Becker & Solomon, 2005). As this cycle is triggered from pre-existing beliefs, it  
112 is possible that players will focus on specific sources of information exhibited by a referee to  
113 confirm or contest their initial expectation.

114         Despite the above illustration, few studies have investigated interpersonal expectancy  
115 effects within the context of athlete-referee interactions. In one such study, Dosseville,  
116 Laborde, and Bernier (2014) recruited 473 athlete participants studying a sports-related  
117 degree, and asked them to rate the extent to which each of 32 specific sources of information  
118 influenced their expectancies of refereeing competence. Data reduction techniques helped to  
119 categorize the 32 individual items into four distinct classifications: static, communicational,  
120 performance, and psychological cues. Notably, alongside communicational cues, all six  
121 psychological cues - honesty, self-confidence, integrity, self-control, politeness, and respect -  
122 were rated by athletes to be amongst the ten most influential sources of information when  
123 forming initial impressions and expectancies of referees, a finding which supports previous  
124 suggestions that psychological cues are vital in expectancy formation (e.g., Becker &  
125 Solomon, 2005; Dosseville, Laborde, & Raab, 2011). In addition, although static cues were  
126 rated as least influential in expectancy formation, as was reported in the study conducted by  
127 Manley et al. (2008), Dosseville et al.’s findings showed that team sport athletes perceived

128 static cues to be more influential in forming competence judgements of officials compared to  
129 fighting and racquetball sports. Since this study by Dosseville et al. represents the first  
130 attempt to categorize the sources of information used by athletes to form expectancies of  
131 referees, further research is warranted to validate, and elaborate on, the reported findings. A  
132 complementary approach could be to educate referees so they can harness specific sources of  
133 information to positively influence interactions with other sports personnel such as players,  
134 coaches, and fans.

135 Further to the theoretical arguments regarding expectations, the current study seeks to  
136 better understand the expectations held by players and coaches of soccer officials who  
137 progress through a 'Fast-track' route as opposed to the more traditional 'full' or  
138 'Longitudinal' referee training programmes. To provide a context, through its constituent  
139 county organisations, the English Football Association (FA) designed a process to identify  
140 and nurture talented referees from an early age, to then enter into the Fast-track programme,  
141 intended to elevate eligible referees to the top of the game through an accelerated promotion  
142 scheme. The route was initially designed to ease pressure on the referees at the highest level  
143 and increase the number of the select group referees (19 in the 2015–2016 season, compared  
144 to 24 in 2001). The intention of the Fast-track programme was partially to address the decline  
145 in numbers, but also to provide a platform for promoting officials at a faster pace as opposed  
146 to having to methodically work their way through a system over a period of many years. As  
147 would be expected, there have been many questions regarding the Fast-track programme, not  
148 least to the quality of the officials that it produces and the experience that these officials are  
149 given before they are promoted (for a full review see Webb, 2017).

150 With the above in mind, the primary aim of the present study was to examine the  
151 extent to which two specific sources of information – refereeing experience and qualification  
152 pathway – influence soccer players' and coaches' perceived competence ratings of a referee.

153 Previous findings by Manley, Greenlees, Smith, Batten, and Birch (2014) have highlighted  
154 the effects of reputational information on the subsequent behavioural responses of athletes.  
155 Specifically, Manley et al. displayed that coaches perceived as experienced are said to be  
156 given significantly more attention, and elicit greater effort and persistence from their players,  
157 than those perceived as less experienced. Further support reported by Dosseville et al. (2014),  
158 demonstrated that officiating experience, bracketed under performance cues, was one of the  
159 more highly rated informational cues used by players when formulating judgements  
160 regarding officiating competence. Similarly, Simmons (2011) was able to display that  
161 experience is a cue when evaluating a referee's (mental) competence. Based on this body of  
162 literature, it was hypothesized that soccer players and coaches will perceive experienced  
163 referees to be more competent than referees with a limited amount of experience.

164 Whilst the effects of pathways have been discussed within educational environments  
165 (e.g., Buchmann & Park, 2009; Mavromaras & McGuinness, 2012), this is the first study to  
166 investigate the effects of qualification pathway within a sporting context. Taking into  
167 consideration the stages of the FTEM (Foundation, Talent, Elite, Mastery) framework for the  
168 development of officials (Macmahon et al., 2014), it was hypothesized that referees who had  
169 undertaken every level of a qualification pathway (Longitudinal) would be perceived to be  
170 more experienced and, therefore, rated as more competent than referees who had progressed  
171 through a Fast-track scheme or pathway. However, given the novelty and exploratory nature  
172 of the investigation, no hypothesis was made regarding the interaction between experience  
173 and qualification pathway.

## 174 Method

### 175 Participants

176 A power analysis was conducted using G\*Power 3.1 (Faul, Erdfelder, Lang, &  
177 Buchner, 2007) to identify the minimum total sample size required within the present study.

178 Four relevant publications were identified (Dosseville et al., 2014; Manley et al., 2008;  
179 Manley et al., 2014; Thelwell, Page, Lush, Greenlees, & Manley, 2013) where similar  
180 population samples and experimental designs had been implemented. From a total of 16  
181 reported effect sizes (range = 0.003 to 0.430) reported across the four publications, a mean  
182 partial Eta squared (partial  $\eta^2$ ) effect size of 0.118 was calculated. Using this as the basis for  
183 the subsequent power analysis, a minimum sample size of 109 participants was identified.

184 Ninety-one soccer players ( $M_{\text{age}} = 21.9 \pm 3.6$ ;  $n_{\text{female}} = 14$ ) and 21 soccer coaches  
185 ( $M_{\text{age}} = 36.1 \pm 12.5$ ;  $n_{\text{female}} = 1$ ) from several regions across England volunteered to take  
186 part in the study. A total of 28 participants were randomly allocated to each experimental  
187 condition. The soccer players had a mean playing experience of  $11.0 \pm 5.6$  years, with the  
188 majority participating at an amateur level (81.3%). The remaining participants competed at  
189 the semi-professional (16.5%) and professional levels (2.2%). Coaches had a mean coaching  
190 experience of  $12.0 \pm 6.8$  years and again, the majority had coached at amateur level (76.2%);  
191 the remainder were coaching at the semi-professional level (23.8%). The majority of the  
192 coaches had obtained their experience working in England (85.7%), while some had  
193 experience of coaching in the United States of America (14.3%). Participants were  
194 predominantly White British (92%), with the remainder being of American Caucasian  
195 (5.4%), Hispanic-Latino (1.8%) and African American (0.8%) ethnicity. In line with the  
196 adopted inclusion criteria, all participants were 18-years-old or over, all players had a  
197 minimum of one year playing experience, and all coaches held a minimum of a level one  
198 Football Association (FA) coaching qualification.

#### 199 Measures and Materials

200 *Participant Demographic Questionnaire.* This questionnaire was used to obtain  
201 information regarding the general and sporting background of each participant. Specifically,  
202 information was gathered regarding age, gender, race/ethnicity, primary sport, number of



203 years' experience competing in that sport, and highest level of participation. Information  
204 regarding whether the participant was a coach or a player was gathered verbally.

205 *Assessment of Referee Competence Scale (ARCS)*. The ARCS was developed for the  
206 purposes of the present study using a combination of items from the Adapted Referee Self-  
207 Efficacy Scale (Myers, Feltz, Gullen, & Dithurbide, 2012) and characteristics defined within  
208 the "Match Officials" section of the FA Respect Code of Conduct (The FA, 2016). The  
209 resultant ARCS comprised a total of 18 situation-specific questions designed to capture  
210 participants' perceptions of refereeing competence. The 18 questions related to the six  
211 characteristics outlined in the FA Respect Code of Conduct (fitness, impartiality, consistency,  
212 respectfulness, confidence, communication) and were reinforced by a sample of coaches,  
213 players and referees who took part in the initial stages of measurement development. Each  
214 characteristic within the ARCS comprises of three questions with scores for questions  
215 ranging from 1 (strongly disagree) to 7 (strongly agree) and overall characteristic scores  
216 ranging from 3 (low) to 21 (high). Example questions presented in the scale include: (1)  
217 fitness - the referee keeps in good physical condition, (2) impartiality -the referee will not  
218 favour one team over the other, (3) consistency - the referee will be consistent with his  
219 decision-making, (4) respectfulness - the referee will respect all the player equally, (5)  
220 confidence - the referee will stick by his own decisions, and (6) communication - the referee  
221 will be a good communicator with players. Using the recommendation from Kline (1999) the  
222 Cronbach's alpha ( $>.89$ ) indicated high internal consistency for the ARCS that suggested the  
223 scale to be appropriate for use within the study.

224 *Referee Vignettes*. Referee vignettes consisted of a written profile of a hypothetical  
225 referee, and were developed based on the existing literature concerning the types of cues used  
226 to make judgements about perceived refereeing competence (Dosseville et al., 2014). As  
227 vignettes have been employed effectively within previous experimental studies, particularly

228 in the context of football officiating (e.g., Faccenda, Pantelon, & Reynes, 2009; Simmons,  
229 2010), the use of vignettes within the present study were deemed to be an appropriate method  
230 of manipulation in regards to the two independent variables (Experience and Qualification  
231 Pathway).

232 Each vignette was consistent in reporting information such as name, gender, year the  
233 referee started officiating, height, and activities outside of their officiating duties. However,  
234 specific information relating to the referee's "Experience" and "Qualification Pathway" was  
235 manipulated to create four experimental vignettes; Experienced/Longitudinal,  
236 Experienced/Fast-track, Limited/Longitudinal, and Limited/Fast-track. The vignette  
237 representing the Experienced referee who had undertaken all the necessary levels of the  
238 Qualification Pathway (i.e., Experienced/Longitudinal) was presented as follows:

239 *"Rob is a football referee who has a wealth of experience as an FA qualified referee.*  
240 *He holds a Level 1 National List qualification (the highest level of referee certification),*  
241 *meaning that he can officiate in the English Football League and English Premier League.*  
242 *He achieved his current position having progressed through all of the necessary levels within*  
243 *the refereeing training process. At the age of 18 (Level 9), he started officiating in the*  
244 *Amateur leagues before being promoted in turn to officiate in the County, Supply,*  
245 *Contributory, and Conference leagues before finally being promoted (as a result of consistent*  
246 *good performances and experience) to the Level 1 National List. Rob is of average height and*  
247 *weight for his age, and is active in terms of his sport and exercise away from his officiating*  
248 *duties".*

249 The referee with Limited experience yet had completed the Longitudinal qualification  
250 pathway (i.e., Limited/Longitudinal vignette) was presented with the exact same description  
251 as above, but with the two introductory sentences adapted to read as follows:

252           *“Rob is a football referee who has a developing profile of experience as an FA*  
253 *qualified referee. He holds a Level 3 qualification which means that he can officiate in the*  
254 *Contributory Leagues (below the North and South Conference Leagues)”*

255           Within vignettes describing referees who progressed through the Fast-track scheme,  
256 the following sentences were incorporated: *“He achieved his current position having*  
257 *progressed via the fast-tracking refereeing scheme”*...*“Rob has now been identified as a*  
258 *referee of huge potential and has been selected onto the referee fast-tracking scheme where a*  
259 *referee mentor will assist his progression to Level 1 National List status (enabling him to*  
260 *officiate in the English Football League and English Premier League)”*.

#### 261 Procedure

262           Following approval from the research ethics committee, participants were recruited  
263 over a period of approximately three months. Initially, participants were recruited using the  
264 existing knowledge and contacts of the lead researcher, with each consenting participant  
265 signposting the lead researcher towards further potential participants. Prospective participants  
266 were contacted via an email which provided brief information about the purpose of the study,  
267 what would be expected of participants, the potential benefits of the study, and the  
268 previously-mentioned inclusion criteria. To express their interest, prospective participants  
269 could contact the lead researcher using the details provided within the recruitment email.  
270 Through further email correspondence, the lead researcher arranged appropriate times, dates,  
271 and venues to meet with the participants so that they could complete the study.

272           Upon meeting with the researcher, participants were provided with a participant pack  
273 containing an information sheet, consent form, Participant Demographic Questionnaire,  
274 Referee Vignette (randomly allocated by experimental condition), and the ARCS.  
275 Participants read the information sheet and confirmed their participation by signing the  
276 consent form before completing the participant demographic questionnaire. Each participant  
277 was then given two minutes to read their referee vignette before completing the ARCS. The  
278 standardised vignette reading time ensured that all participants had a consistent, equitable  
279 opportunity to study the details of the vignette before indicating their initial impressions of  
280 the referee's competence. All documents were completed in the presence of the lead  
281 researcher to ensure participants' questions could be answered during completion of the  
282 study. Once participants had provided their responses to the vignette via the ARCS, all  
283 participants were thanked for taking part and provided with a full debrief of the aims and  
284 objectives of the study, including details of the information that had been manipulated to  
285 create the four experimental conditions. The study took approximately 10 to 15 minutes to  
286 complete, inclusive of the two-minute reading time, and was carried out in line with the  
287 ethics procedures of the University of the first author.

#### 288 Data Analysis

289           Hypotheses were tested using a 2x2 factorial multivariate analysis of variance  
290 (MANOVA). MANOVA compared the effects of the two independent variables (Experience  
291 and Qualification Pathway) on competency ratings obtained from the ARCS. In detail,  
292 MANOVA and follow-up univariate analyses of variance (ANOVA) were conducted on the  
293 subscale scores for fitness, impartiality, consistency, respectfulness, confidence, and  
294 communication. Interaction effects were investigated to ensure that the scores from one  
295 independent variable did not significantly differ across different levels of the other  
296 independent variable. In line with the recommendations of Clark-Carter (2010), partial Eta

297 squared (partial  $\eta^2$ ) effect sizes were reported whereby values of between .001 and .058 were  
298 classed as small effect sizes, values of between .059 and .137 were considered medium, and  
299 effect sizes of .138 and greater were classed as large.

## 300 Results

### 301 Preliminary Analysis

302 A 2x2 factorial MANOVA was conducted on the independent variables of Experience  
303 (Experienced/Limited) and Qualification Pathway (Longitudinal/Fast-Track) based on  
304 perceived competency scores generated from the ARCS. Box's M test indicated a significant  
305 difference between the covariance matrices of the dependent variable ( $p < .05$ ). Due to the  
306 sensitive nature of the Box's M test, Field (2013) recommends that significant results can be  
307 disregarded where sample sizes across each condition are equal, as was the case within the  
308 present study. Based on this recommendation, Pillai's trace was the criterion used in the  
309 subsequent analyses.

### 310 Main Analyses

311 *Interaction.* No significant interaction effect was found between Experience and  
312 Qualification Pathway (Pillai's Trace<sub>6, 103</sub> = 0.029,  $F = 0.514$ ,  $p = .796$ , partial  $\eta^2 = .029$ ,  
313 observed power = .200). This indicates that the two independent variables did not combine to  
314 influence participants' ratings of perceived referee competence, and were analysed separately  
315 as a result of this finding.

316 *Experience.* MANOVA revealed a significant main effect, thus indicating a difference  
317 between the two levels of the variable - Experienced and Limited (Pillai's Trace<sub>6, 103</sub> = 0.251,  
318  $F = 5.756$ ,  $p < .001$ , partial  $\eta^2 = .251$ , observed power = .997). Follow-up ANOVA revealed  
319 significant effects for all six characteristics: fitness ( $F_{1, 108} = 12.708$ ,  $p < .001$ , partial  $\eta^2 =$   
320 .105, observed power = .942), impartiality ( $F_{1, 108} = 15.601$ ,  $p < .001$ , partial  $\eta^2 = .126$ ,  
321 observed power = .975), consistency ( $F_{1, 108} = 25.339$ ,  $p < .001$ , partial  $\eta^2 = .190$ , observed

322 power = .999), respectfulness ( $F_{1, 108} = 13.591, p < .001, \text{partial } \eta^2 = .112, \text{observed power} =$   
323  $.955$ ), communication ( $F_{1, 108} = 19.790, p < .001, \text{partial } \eta^2 = .155, \text{observed power} = .993$ ),  
324 and confidence ( $F_{1, 108} = 25.714, p < .001, \text{partial } \eta^2 = .192, \text{power} = .999$ ). Large effect sizes  
325 were displayed for the characteristics of consistency, communication, and confidence, with  
326 medium effect sizes reported for fitness, impartiality, and respectfulness. As can be seen from  
327 the data displayed in Table 1, the experienced referee was perceived as more competent than  
328 the referee with limited experience on all six characteristics.

329 INSERT TABLE 1 HERE

330 *Qualification Pathway.* No significant main effect was found, indicating no difference  
331 between the two levels of the variable - Longitudinal and Fast-track (Pillai's Trace $_{6, 103} =$   
332  $0.091, F = 1.713, p = .125, \text{partial } \eta^2 = .091, \text{observed power} = .627$ ). Nevertheless, further  
333 analyses were deemed appropriate given the medium effect size reported (Clark-Carter,  
334 2010). Follow-up ANOVAs revealed a significant effect for the characteristic of  
335 communication ( $F_{1, 108} = 8.639, p = .004, \text{partial } \eta^2 = .074, \text{observed power} = .830$ ). As  
336 depicted by the data in Table 2, participants perceived the referee who had qualified through  
337 the Longitudinal pathway to be more competent in terms of his communication skills  
338 compared with the referee who had completed the Fast-track route to qualification. No other  
339 significant effects were reported for Qualification Pathway: fitness ( $F_{1, 108} = 1.654, p = .201,$   
340  $\text{partial } \eta^2 = .015, \text{observed power} = .247$ ), impartiality ( $F_{1, 108} = 3.344, p = .070, \text{partial } \eta^2 =$   
341  $.030, \text{observed power} = .441$ ), consistency ( $F_{1, 108} = 2.637, p = .107, \text{partial } \eta^2 = .024,$   
342  $\text{observed power} = .363$ ), respectfulness ( $F_{1, 108} = 2.978, p = .087, \text{partial } \eta^2 = .027, \text{observed}$   
343  $\text{power} = .402$ ) and confidence ( $F_{1, 108} = 3.030, p = .085, \text{partial } \eta^2 = .027, \text{observed power} =$   
344  $.407$ ).

345 INSERT TABLE 2 HERE

347           The primary aim of the present study was to investigate the effect of two specific  
348 sources of information – Experience and Qualification Pathway – on perceptions of  
349 refereeing competence from the perspective of soccer players and coaches. The research  
350 generated two hypotheses. Hypothesis one stated that the experienced referees would be rated  
351 as significantly more competent than those who were described as having obtained limited  
352 experience. The first hypothesis was supported for all six competency characteristics of  
353 fitness, impartiality, consistency, respectfulness, communication, and confidence. In  
354 congruence with previous research (e.g., Findlay & Ste-Marie, 2004; Manley et al., 2008;  
355 2014; Manley, Greenlees, Thelwell, & Smith, 2010; Thelwell et al., 2013), the results  
356 strongly support the notion that third-party reports such as experience are highly influential  
357 cues when formulating initial impressions and expectations of a person's competence.

358           Although the findings support conclusions that have been drawn within previously  
359 published literature (e.g., Manley et al., 2008; 2010; 2014; Thelwell et al., 2013), they  
360 provide an innovative and unique contribution to the expectancy literature by investigating  
361 qualification pathway, a variable which, to date, has not been considered in the context of  
362 players' and coaches' impressions and expectancies of soccer referees. Specifically,  
363 hypothesis two predicted that referees who had gained their qualification by progressing  
364 through the Longitudinal pathway (i.e., progressing through every level of the qualification)  
365 would be perceived as significantly more competent than referees who had completed the  
366 Fast-track route to qualification. Following initial analysis, the second hypothesis was not  
367 supported as five of the six competency categories displayed no significant differences as a  
368 function of Qualification Pathway. However, further examination of the sub-components of  
369 competence revealed that referees who had qualified via the Longitudinal method were  
370 perceived as significantly more competent communicators than the referees who were  
371 portrayed as products of the Fast-track scheme. Moreover, it appears that schemes promoting

372 faster qualifications, particularly in education, do not always prepare individuals adequately  
373 for the real life demands of their profession following their qualification, compared to  
374 traditional methods (McConney, Price, & Woods-McConney, 2012). In the context of sport,  
375 research has investigated the interpersonal actions of elite referees demonstrating “best  
376 practice” with regards to communicating decisions within football (Mellick, Fleming, Bull, &  
377 Laugharne, 2005). In addition, Simmons (2006) have highlighted that experienced football  
378 referees are able to employ a range of verbal and non-verbal techniques to effectively  
379 communicate their decisions in a way that enhances player acceptance of that decision,  
380 consequently reducing the chances of player dissent and aggression. It is, therefore, not  
381 surprising that 13 (86.6%) of 15 English Premier League referees highlighted effective  
382 communication as key within their management of the game, an overarching factor  
383 underpinning officiating excellence (Slack, Maynard, Butt, & Olusoga, 2013).

384         There is abundant evidence from a wide range of professional contexts to demonstrate  
385 that optimal interpersonal relationships are often established through the effective use of  
386 communication skills (Kyndt & Rowell, 2012; Lang, 2012). Just like the process of forging  
387 good working relations, the processes involved in the development of effective  
388 communication skills are complex, time-intensive, and considered an essential element of  
389 skills training for many established professions (Health and Care Professions Council, 2016;  
390 Lasater, 2016). Ergo, it is not surprising that within the present study, the Longitudinal  
391 pathway (i.e., more time in training) was associated with greater perceived communication  
392 competence of referees. This finding is particularly pertinent to the principal role and duties  
393 of a soccer referee, where success is often determined by the referee’s ability to build  
394 effective working relationships with significant others, inclusive of the players and their  
395 coaching staff. If establishing rapport and mutual trust with players and coaches represents an  
396 important performance demand for soccer referees, then it should come as no surprise that



397 communication skills have been identified as a distinguishing characteristic between referees  
398 who have qualified through different pathways.

399         What is surprising, however, is that until very recently, referees have been provided  
400 with very little guidance and support when it comes to the training and development of  
401 communication skills for interpersonal impact. For example, within the previous version of  
402 the *Laws of the Game* document (International Football Association Board; IFAB, 2015),  
403 intended as a resource to support referees in their professional roles, there was an  
404 overwhelming emphasis on game rules as opposed to game management. Specifically, within  
405 this 144-page document, a mere 10 lines of text were included which alluded to the  
406 importance of the referee's body language (p. 84) and management of "mass confrontation"  
407 scenarios (p. 104). Given the title of the document, this focus on rules and laws was to be  
408 expected. Yet, there was no sign-posting to further guidance or training that referees can use  
409 to inform their professional development in related competency areas. The IFAB have  
410 recently published an updated version of this document (IFAB, 2018), which includes an  
411 additional section entitled *Practical Guidelines for Match Officials* (pp. 180-210). Although  
412 this update provides a welcome step in the right direction, the content is still limited in terms  
413 of specific, actionable guidance for soccer referees to follow. The FA's National Referee  
414 Strategy (2018) represents a similar advancement, with seven core values - Respect,  
415 Empathy, Fitness, Evaluation, Reliability, Education, and Excellence - outlined as a  
416 behavioural framework to which referees should adhere in their professional role. However,  
417 at the time of writing this manuscript, the authors were unable to locate any specific details  
418 about how these core principles were established, defined, or developed through the strategy.  
419 Consequently, a recommendation for relevant organisations and professional bodies is to  
420 establish more explicit and robust resources to support the development of core knowledge,  
421 values, and skills at all levels of referee training. Whilst it is identified that the methods of

422 developing communication in officials are often misunderstood and therefore, put aside in  
423 relation to officiating training and research (Simmons & Cunningham, 2013), practical  
424 recommendations have been made emphasising the importance of considering a ‘holistic  
425 approach’ of conceptualizing officiating communication (Salmon & Young, 2011; Simmons  
426 & Cunningham, 2013). Moreover, Cunningham, Simmons, Mascarenhas and Redhead (2014)  
427 highlighted the potential mismatch between what is perceived as effective communication  
428 and the methods used within training. Specifically, Cunningham et al. identify that, in  
429 association with impression management, sport bodies are able to appreciate the official’s  
430 ability to assess situations and the skills involved within effective interactions, yet often rely  
431 heavily on communicative skills exhibited in one-way communication within their  
432 communication training (e.g., the use of whistles and appropriate signals). There is a scarcity  
433 of appropriate and tailored communication training that is informed by academic research.  
434 This reflects a need for the development of more supportive resources that could help  
435 facilitate the acquisition and application of effective communication skills by referees.

436         No interaction effects were reported between the two independent variables of  
437 Experience and Qualification Pathway. Based on the reported findings, a referee’s experience  
438 appears to be a more powerful source of information than a referee’s qualification pathway in  
439 terms of the influence it has over soccer coaches’ and players’ perceptions of refereeing  
440 competence. It is possible that this finding is an artefact of the way in which experimental  
441 stimuli were presented to participants. For instance, within all experimental vignettes,  
442 information regarding the experience of the referee was presented first, followed by details of  
443 the referee’s qualification pathway. As proposed by previous researchers (e.g., Thelwell et  
444 al., 2013), it is possible that by presenting the experiential information first, participants  
445 disregarded any subsequent information presented on the vignette when forming their  
446 impressions and expectancies. Alternatively, it is possible that participants may have formed

447 their expectancy using the experiential information and used subsequent information to  
448 reinforce their initial expectancy (Fiske & Taylor, 1991). If accepted, either of these  
449 suggested explanations would infer that the TPR of experience was strong enough in isolation  
450 to form a concluding expectancy of the referee (Fiske & Taylor, 1991). Such a conclusion  
451 carries much weight when considered in conjunction with published evidence to support the  
452 influential power of experiential information (e.g., Findlay & Ste-Marie, 2004; Manley et al.,  
453 2008; 2010; 2014; Thelwell et al., 2013).

454         It is possible that participants provided judgements about referees using information  
455 stored in memory as opposed to only using the informational cues that were presented  
456 through the vignette. This explanation is in line with that of cognitive researchers (e.g.,  
457 Bryne, Pecker, & Burgess, 2007; Schacter & Addis, 2007), who suggest that imagining the  
458 future (e.g., how competent a referee *might* be) involves similar psychological processes to  
459 remembering the past (e.g., how competent a referee *appeared* to be). Thus, the extent to  
460 which participants were basing their competency judgements on past experience or the  
461 vignette alone is unclear. The authors acknowledge this as a limitation which they would urge  
462 researchers to account for and address in future studies of this nature. Further limitations may  
463 arise from the way the vignettes were constructed. While efforts were made to ensure that  
464 potential confounding factors (e.g., age, gender, height, weight, and activities away from  
465 officiating duties) stayed consistent throughout, some text was adapted to account for the  
466 inclusion of the manipulated variables. As an example, the referee was forwarded onto the  
467 Fast-track scheme due to him displaying “huge potential”; therefore, the extent to which the  
468 use of emotive language may have influenced the perceived competency ratings of  
469 participants is unclear. Further manipulations regarding the content or presentation of  
470 information within vignettes may be a potential avenue for future research, potentially in the  
471 form of more qualitative inquiry (e.g., focus groups).

472           Whilst it is clear that these findings have direct implications for supporting officials in  
473 their training, particularly in relation to the development of effective communication, it is  
474 possible that referees themselves can utilize these findings to their own benefit. Specifically,  
475 referees should be encouraged to emphasize the amount of positive information they share  
476 with players and coaches prior to any physical interaction. For example, by sharing  
477 information regarding their extensive experience and methods of achieving their qualification  
478 (i.e., progressing through every level of the more traditional longitudinal pathway), referees  
479 will be in a better position to induce more positive judgements surrounding their perceived  
480 officiating competence. Simmons (2011) suggested that players, depending on familiarity and  
481 novelty of the player-referee interaction, are not aware of the refereeing experience a referee  
482 actually has and, therefore, may perceive experience through different referee behaviours. For  
483 example, calmness, resilience to pressure and, most notably, the ability to explain decisions  
484 (Simmons, 2011). In relation to the present study, specific methods may be adopted by  
485 referees to ensure players formulate positive expectations regarding the referee's perceived  
486 competence prior to an interaction. As an example, this reputational advantage could include  
487 the development of a profile that provides a brief outline of their refereeing background,  
488 including experience and qualification pathway. This profile could then be shared with  
489 players and coaches prior to or in the early phases of initial interactions. Building on these  
490 suggestions, future research may wish to consider examining the differing impact of  
491 particular sources of information when formulating judgements of officiating competence  
492 (i.e., are TPRs a more powerful source of information when forming competency judgements  
493 than those displayed within a match?). Similarly, the extent to which these in-match cues lead  
494 to confirming/disconfirming beliefs, as explained by the four-stage expectancy cycle (e.g.,  
495 Becker & Solomon, 2005; Horn et al., 2010; Solomon, 2001), is a worthy avenue of further  
496 investigation.

497 As it is the role of the referee to promote the highest standards of the game for both  
498 players and coaches (Weinberg & Richardson, 1990), it is vital that working relationships are  
499 not adversely affected by perceptions of competence (Simmons, 2010). As an example, it is  
500 clear that referees frequently make difficult decisions that are often perceived as unfair by  
501 opposing players and coaches. However, Simmons (2010) states that it is not only the  
502 perceptions of the decision which may be deemed unfair, but also how the athlete perceives  
503 the decision-making process. Moreover, if a referee is perceived to lack competence, players  
504 and coaches may form negative judgements regarding the referee's ability to make consistent  
505 and fair decisions. In turn, these negative judgments may increase the likelihood of  
506 psychological stress, interpersonal conflict, and heightened levels of frustration (Bar-Eli,  
507 Levy-Kolker, Pie, & Tenenbaum, 1995), all of which can negatively affect sporting  
508 performance (e.g., Lazarus, 2000; Woodman & Hardy, 2003). Future research should  
509 consider the coach's influence on the potential impact of such expectancies, as this may  
510 facilitate or hinder the player-referee interaction. Conclusively, it appears that these findings  
511 have significant implications for not only the referee themselves but also the overall  
512 conditions of "the beautiful game".

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- 684

**Table 1**  
*Descriptive Statistics for the Subcategories of Referee Competence Between the Experienced and Limited Experience Conditions*

Subcategories of referee competence	Experience	
	Experienced	Limited
	<i>M (SD)</i>	<i>M (SD)</i>
Fitness	18.27 (2.20)	16.54 (2.89)
Impartiality	18.41 (2.60)	16.48 (2.61)
Consistency	18.14 (2.24)	15.93 (2.46)
Respectfulness	18.41 (2.42)	16.73 (2.44)
Communication	17.45 (2.46)	15.45 (2.48)
Confidence	18.55 (2.13)	16.16 (2.87)

686

687 Table 1: Descriptive Statistics for the Subcategories of Referee Competence Between the

688 Experienced and Limited Experience Conditions

**Table 2**  
*Descriptive Statistics for the Subcategories of Referee Competence Between the Longitudinal and Fast-Track Qualification Pathway Conditions*

Subcategories of referee competence	Qualification pathway	
	Longitudinal	Fast-track
	<i>M (SD)</i>	<i>M (SD)</i>
Fitness	17.71 (2.59)	17.09 (2.80)
Impartiality	17.89 (2.79)	17.00 (2.69)
Consistency	17.39 (2.76)	16.68 (2.38)
Respectfulness	17.96 (2.65)	17.18 (2.43)
Communication	17.11 (2.53)	15.79 (2.64)
Confidence	17.77 (2.71)	16.95 (2.83)

689

690 Table 2: Descriptive Statistics for the Subcategories of Referee Competence Between the

691 Longitudinal and Fast-Track Qualification Pathway Conditions

692