Three Generalizability Studies of the Components of Perceived Coach Support

Tim Rees, Paul Freeman, Steve Bell, and Ross Bunney
University of Exeter

Coaches are important providers of social support, but what influences us to perceive our coaches as supportive or unsupportive? We investigated the extent to which perceptions of coach support reflect characteristics of athletes and coaches, as well as relational components. In three studies, athletes judged the actual or hypothetical supportiveness of various coaches. The methods of generalizability theory permitted us to conclude that perceptions of coach support primarily reflected relational components, with characteristics both of athletes and coaches also independently playing (lesser) roles. These findings suggest that athletes may systematically disagree on the supportiveness of their coaches.

Keywords: athletes, social support, perceivers, targets, generalizability theory

What influences us to perceive one coach as supportive and another as unsupportive? The importance of this question lies in the fact that (a) coaches play a major role in sport and social support is integral to the coaching process (Bianco, 2001; Chelladurai & Saleh, 1980; Kristiansen, & Roberts, 2010; Rosenfeld, Richman, & Hardy, 1989; Robbins & Rosenfeld, 2001) and (b) perceived support is consistently and strongly related to psychological, physiological, and behavioral outcomes (Cohen, Underwood, & Gottlieb, 2000), including self-efficacy, self-confidence, and sports performance (e.g., Freeman & Rees, 2008, 2009; Rees & Freeman, 2007, 2009); but (c) evidence for the success of social support interventions in improving either perceived support, psychological health, or performance is mixed (Freeman, Rees, & Hardy, 2009; Hogan, Linden, & Najarian, 2002). Translating social support research into effective interventions may thus require an understanding of what influences people to perceive (or judge) others as more or less supportive (Lakey & Lutz, 1996; Hogan et al., 2002). In this research, we report three studies of the components of perceived coach support.

Although variously defined (Veiel & Baumann, 1992), social support is comprised of three major subconstructs (Lakey, 2010). Social integration reflects the number of different types of relationships in which recipients participate (e.g.,

Tim Rees, Paul Freeman, Steve Bell, and Ross Bunney are with Sport and Health Sciences, University of Exeter, Exeter, U.K.
coach, teammate, friends, family members). *Enacted support* reflects the specific helping actions provided by coaches, teammates, friends, and family members, usually during a specific time frame. *Perceived support* refers to one’s potential access to social support and is a support recipient’s subjective judgment that coaches, teammates, friends, and family members would provide assistance if needed. Links between social integration and psychological outcomes have been inconsistent, and enacted support has either been unrelated or even negatively related to psychological outcomes (e.g., Barrera, 1986; Finch, Okun, Pool, & Ruehlman, 1999). Instead, as we noted above, it is individuals who *perceive* their relationships as supportive who have been shown to experience a range of favorable outcomes.

Although coaches have been noted as particularly key support providers, it is unclear what influences us to perceive our coaches as supportive or unsupportive. Theoretical models of social support have differed in the proposed determinants of support perceptions, with the potential for both characteristics of the recipient and the environment to play a role. Both traditionally and intuitively, it might be assumed that people base their perceptions of support on characteristics of the provider and the amount and quality of the specific supportive actions provided (e.g., emotional, esteem, informational, and tangible forms of enacted support: Rees & Hardy, 2000). However, it has been noted that perceived and enacted support may share as little as 12% common variance (Haber, Cohen, Lucas, & Baltes, 2007) and are now widely considered two key but separate constructs (Dunkel-Schetter & Bennett, 1990; Helgeson, 1993; Wethington & Kessler, 1986). Given this evidence, perceptions of support must reflect more than just the support recently enacted.

In attempting to unpack how people generate perceptions of support, recent research has applied methods from *generalizability theory* (Brennan, 2001; Cronbach, Gleser, Nanda, & Rajaratnam, 1972; Shavelson & Webb, 1991). When recipients of support rate all providers of support within a given study, these methods allow the examination of the extent to which perceived support reflects the characteristics of the people making the judgments (i.e., perceivers), the characteristics of the people being judged (i.e., the supporters or targets), and a unique perceiver–target relational component (e.g., Lakey, McCabe, Fisicaro, & Drew, 1996; Lakey & Scoboria, 2005; and see Lakey, 2010). Perceiver components reflect the extent to which perceivers differ in their support judgments across all targets, regardless of any specific target traits or behaviors. For example, applied to coaching, one athlete might rate the supportiveness of all coaches more favorably compared with another athlete. Target components reflect the extent to which some targets are seen by all perceivers as more supportive than other targets. For example, all athletes might rate one coach as more supportive than another coach. Relational components reflect inconsistency in perceivers’ support judgments across different targets, in that certain perceivers would rate certain targets as more supportive than other targets. In other words, relational components reflect differences in opinion about who is supportive. For example, an offensive football player might rate the head coach as more supportive than does a defensive player, but the defensive player might rate an assistant coach as more supportive than does the offensive player.

Although this line of research is still in its relative infancy, preliminary estimates from studies in general social psychology suggest that the largest component of perceived support is relational. For example, relational components have accounted
for between 21% and 72% of the variance in perceived support with students rating professors, university sorority members rating one another, depressed inpatients rating videoed targets, and therapy patients rating therapists (e.g., Lakey et al., 1996; Lakey, Drew, & Sirl, 1999; Lakey, Cohen, & Neely, 2008). A recent analysis suggests that when real-world samples and targets are used, relational components may account on average for as much as 62% of the variance in perceived support (Lakey, 2010). Perceiver components tend to be smaller, accounting on average for 27% of the variance, while target components account on average for only 7% (Lakey, 2010). The latter finding may run counter to most people’s view of themselves as objectively supportive. That is, some might feel target effects are underestimated. Although the available empirical evidence does not bear out this objection, we believe that judgments of coach support might provide contrary evidence. The coaching process is one in which there is a reasonably well-defined social norm about what coaches are supposed to do to be helpful (e.g., see Jowett & Poczwardowski, 2007), and thus agreement on target support should be higher in coaching compared with other contexts.

Regardless, the identification of perceiver, target, and/or relational components has important applied implications, because it potentially offers a clear focus for intervention. For example, given the figures above, interventions designed to focus purely on target influences may be misguided—a potential reason for the mixed success of support interventions (Hogan et al., 2002; Lakey & Lutz, 1996). The identification of significant relational components in the present studies would, however, challenge the appealing notion that some coaches are characteristically and objectively more supportive than others. In fact, it would suggest that athletes may systematically disagree on the supportiveness of coaches. Therefore, the introduction of one apparently supportive new coach to a group of athletes may not be effective for all athletes. Instead, to enhance intervention efficacy, one might consider adopting a strategy of carefully matching athletes with specific coaches.

The goal of the present research was to use generalizability theory to examine athletes’ perceptions of coach support. To isolate perceiver, target, and relational components, all participants are required to rate the same targets. As Lakey, Lutz, and Scoboria (2004) noted, this leads to difficulty in finding naturalistic contexts in which a sufficient number of targets are well known to all participants. With this in mind, we conducted three differing studies: Study 1 was a hypothetical study, in which soccer players rated the level of support they believed would be available to them if they were playing under the proposed soccer managers. In Study 2, university athletes rated the supportiveness of coaches on video. In Study 3, academy athletes rated the real-world supportiveness of their coaches. In each study, each participant rated each target, resulting in a fully crossed design, enabling us to determine the percentage of variance accounted for by perceiver, target, and relational components. As the design for each study was essentially identical, rather than discussing the results of each study separately, we present all our interpretations in one overall discussion. To increase the statistical power to detect target effects, the data from the three studies were also combined into a partially nested design in a fourth analysis. Such an analysis does not inflate variances, but it does decrease the risk of Type 2 errors. In line with previous research in general social psychology, it was hypothesized that relational components would account for the greatest amount of variance in perceptions of coach support.
Study 1

Method

Sample and Procedure

The study was approved by an institutional ethics committee review, and participants provided informed consent. Fifty male competitive (club-level) soccer players ($M_{age} = 20.18, SD = 1.50$) were asked to rate the supportiveness of five well-known soccer managers from the English Premier League. The players currently had a coach, and generally trained twice per week and played matches twice per week. The managers ($M_{age} = 54.40, SD = 9.56$) were of different nationalities, possessed a minimum of 4 years management experience (in the English Premier League), had managed at least two clubs, and had managed their current club for at least 2 years. Although the managers were not observed to provide any specific supportive actions, it was believed that this method was appropriate for studying how participants rated support. Previous research has successfully adopted similarly novel approaches, such as participants rating the perceived supportiveness of TV characters (Lakey et al., 2004). As Lakey et al. noted, such strategies share common features with real-life, naturalistic contexts, in that participants have had the opportunity to view targets across various situations and displaying different forms of behavior. In the current study, all participants reported some ($n = 35$) or a lot of knowledge ($n = 15$) of the managers.

To protect the confidentiality of the managers, we adopted a similar procedure to Lakey et al. (1996). Rather than including the managers’ names on the questionnaires, a coding system was used. A research assistant constructed the code and handed a coding booklet to participants along with the questionnaire packets. Participants returned the questionnaires in sealed envelopes, and the research assistant removed the coding and consent forms. This process ensured the investigators were unaware of the support ratings of specific managers and which participants provided the ratings. The research assistant was not involved in any other aspect of Study 1. The order of the presentation of targets was randomized.

Measures

Target Supportiveness. Target supportiveness was assessed by way of nine items, adapted from the questionnaire used by Freeman and Rees (2009) to measure perceived support. As Freeman and Rees used high-level golfers and assessed support from all potential providers, we chose items based upon their relevance and applicability for the samples in the present set of studies and the focus on coaches’/managers’ support. This followed the recommendation from the social support literature that social support measures should be relevant to the situational context in which they are being used (Bianco & Eklund, 2001; House & Kahn, 1985; Wills & Shinar, 2000). The nine items reflected emotional, esteem, and informational forms of support. Tangible items were deemed inappropriate, in particular for Study 1, in which tangible forms of support (material aid, actual help with tasks) would have been more likely from clubs rather than the coaches/managers. Following the procedure of Freeman and Rees (2009), before data collection, the study authors, an
independent sport psychology researcher from a separate institution, a group of 10 (5 male; 5 female) postgraduate university students who had completed modules in sport psychology and social support, and two university-level coaches scrutinized the items for relevance and representativeness. The judges were required to read each item and indicate (by circling yes or no) the relevance of those support items for the coaching of athletes. All judges agreed to the relevance of all nine items. In addition, the judges confirmed that the items were representative of the typical supportive behavior of coaches.

Participants were asked to rate how supportive each manager would be to the participant if the participant actually played under that manager. The measure asked respondents, “To what extent do you feel . . . [manager’s code] . . . would . . . ,” with response options ranging on a 5-point scale from 1 (not at all) to 5 (a lot). Sample items included, “Tell you, you can do it?” and “Give you constructive criticism?” Although the support measure did contain emotional, esteem, and informational forms of support, we did not distinguish among the dimensions in our analysis. While social support may be broken down into specific dimensions conceptually, in naturalistic settings the dimensions are not usually independent (Cohen & Wills, 1985), and researchers often use unidimensional measurement of support. In this study, we followed the practice of previous generalizability research (e.g., Lakey et al., 2004; Neely et al., 2006), for which the focus is on overall support perceptions rather than examination of specific dimensions. Internal consistency for the supportiveness ratings of the five managers using this measure ranged from .79 to .83.

Statistical Analyses

Univariate generalizability theory was applied to examine perceiver, target, and relational components of perceived support using a fully crossed design. Variance components and standard errors were computed using restricted maximum likelihood variance estimation, using the variance components procedure in SPSS, version 19. Questionnaire items and targets were within-subjects factors, and perceivers were the between-subjects factor. Each participant was a level of the perceivers factor and each manager was a level of the targets factor. To reduce measurement error and simplify the design, the odd and even questionnaire items were combined to form two indicators of support (Lakey et al., 2004), which were levels of the items factor. As Shavelson and Webb (1991) noted, the highest order interaction (perceivers × targets × items) was confounded with unmeasured sources of variation and was therefore used as the error term. For the purpose of this study, we focus on perceiver, target, and relational components, and thus do not report all possible components. All components were, however, used to calculate the total variance. The perceiver, target, and relational components were significant when their 95% confidence intervals did not include 0.

Results

The variance components, 95% confidence intervals, and percentages of variance accounted for by each of the perceiver, target, and relational components are presented in Table 1 for each study. By far the largest contributor to support perceptions was the relational component, accounting for a significant 38% of the variance.
The next largest was the perceiver component, accounting for a significant 21% of the variance. The target component accounted for 10% of the variance, although this value was nonsignificant.

**Study 2**

**Method**

The study was approved by an institutional ethics committee review, and participants provided informed consent. Sixty-nine university athletes ($M_{age} = 19.84$, $SD = .83$; 40 males; 29 females) were asked to rate the supportiveness of five coaches ($M_{age} = 37.80$, $SD = 10.97$; 3 males; 2 females) using videoed targets. Participants competed in a variety of team ($n = 43$) and individual ($n = 26$) sports and all currently had a
coach. The performance level of the participants comprised club ($n = 35$), county ($n = 19$), national ($n = 11$), and international ($n = 4$) standard. All the participants reported no prior knowledge of the coaches. The coaches possessed a minimum of 8 years of coaching experience ($M = 15.60$, $SD = 6.19$) and coached in team ($n = 3$) and individual ($n = 2$) sports. The videos consisted of five 2-min video clips in which each of the five coaches was seated in an interview suite and asked to talk about his/her style of coaching and the benefits for athlete development of that style. Participants rated the supportiveness of the coaches using the same measure as in Study 1. Questionnaire packets were also prepared and administered in the same way as in Study 1. Internal consistency for the supportiveness ratings of the five coaches ranged from .86 to .93.

**Results**

As in Study 1, the largest contributor to support perceptions was the relational component, accounting for a significant 41% of the variance (see Table 1). The perceiver component accounted for a significant 20% of the variance. The target component accounted for 26% of the variance, although this value was nonsignificant.¹

**Study 3**

**Method**

**Sample and Procedure**

The study was approved by an institutional ethics committee review, and participants, their parents, and the coaches provided informed consent. Fifty-one youth athletes ($M_{age} = 13.08$, $SD = .87$; 44 males, 7 females) enrolled on a “gifted and talented” (identified by coaches as individuals who have achieved at a level significantly in advance of the average for their year group) program were asked to rate the supportiveness of five of their coaches ($M_{age} = 35.20$, $SD = 5.12$; 3 males; 2 females). Participants competed in a variety of team ($n = 40$) and individual ($n = 11$) sports. The performance level of the participants comprised county ($n = 46$) and national ($n = 5$) standard. All participants had worked with all the coaches before and reported themselves to have a little ($n = 23$) or detailed knowledge ($n = 28$) of the coaches. The coaches possessed a minimum of 10 years of coaching experience ($M = 14.60$, $SD = 4.98$) and coached in team ($n = 4$) and individual ($n = 1$) sports. Participants rated the supportiveness of the coaches using the same measure as in Studies 1 and 2, and the questionnaire packets were prepared and administered in the same way. Internal consistency for the supportiveness ratings of the five coaches ranged from .94 to .97.

**Results**

As in Studies 1 and 2, the largest contributor to support perceptions was the relational component, accounting for a significant 44% of the variance. The perceiver component accounted for a significant 22% of the variance. The target component accounted for 29% of the variance, although this value was nonsignificant.²
Components of Perceived Coach Support

Combined Study Analysis

Method

Sample, Procedures, and Statistical Analysis

To increase the statistical power to detect target effects, the data from the three studies were combined into a fourth analysis. The combined sample was therefore 170 participants ($M_{age} = 17.91, SD = 3.35$; 134 males, 36 females), each of whom rated 5 out of the 15 possible targets. Participants competed in a variety of team ($n = 133$) and individual ($n = 37$) sports. The performance level of the participants comprised club ($n = 85$), county ($n = 65$), national ($n = 16$), and international ($n = 4$) standard. Data were analyzed as a partially nested design. Items and targets were within-subjects factors; perceivers and study were between-subjects factors. Perceivers and targets were nested within studies.

Results

The variance components, 95% confidence intervals, and percentages of variance accounted for by each component in the combined analysis are presented in Table 1. All three components accounted for significant amounts of variance in support perceptions. The largest was the relational component, accounting for 35% of the variance; the target and perceiver components accounted for 21% and 18% of the variance, respectively.

Discussion

The primary purpose of this research was to examine perceiver, target, and relational components of perceived coach support. If support perceptions were to reflect a stable, trait-like characteristic of perceivers, it would be expected that, compared with other athletes, certain athletes would rate all coaches as more or less supportive. If support perceptions were to reflect characteristics of the targets, it would be expected that all athletes might fundamentally agree on the supportiveness or otherwise of each of the coaches. Finally, if support perceptions were primarily relational, it would be expected that certain athletes would rate certain coaches as more or less supportive. The data from the present studies demonstrate that all three sources of variance made significant contributions to perceptions of coach support, with the primary contributor being the relational component.

The explained variances of 35–44% for relational components in the present studies were consistent with judgments of support in other contexts (e.g., Lakey et al., 1996, 1999, 2008). The present studies of coach support thus add to the understanding of the components of perceived support. Perceived support has traditionally been considered to reflect either support recently received from objectively supportive providers or a stable, trait-like characteristic of the perceiver. As Lakey and Scoboria (2005) noted, rather than these views being competing, they may merely reflect explanations at different levels of analysis. The findings of the present studies suggest that both perceiver and target components may play a role in judging the supportiveness of coaches, but that the largest contributor to support perceptions is the relational component. This implies that in rating supportiveness
in the present studies, although some coaches/managers were viewed as particularly supportive by certain athletes, the same (apparently supportive) coaches were viewed in a different (and less supportive) light by other athletes. For example, one offensive coordinator might be rated very differently on support by a quarterback than by a lineman. Relational components are the least well-researched source of support variance, but their relative influence suggests traditional views of support perceptions may be limited. That is, perceived support appears not to reflect characteristics of just the athlete or coach. Rather, relational components suggest that athletes are likely to disagree on the supportiveness of the same coaches.

Although the relational components accounted for the greatest amount of variance in support perceptions, perceiver components were also significant, accounting for between 20% and 22% of the variance in the three studies and 18% in the combined analysis. Despite these lower effect sizes, perceiver components should not be ignored. Indeed, these results suggest partial support for the notion that support perceptions may reflect perceiver characteristics, which are stable across different providers of support. From this viewpoint, perceived support could be considered less a reflection of targets, but more a reflection of athletes’ tendency to rate all coaches as more or less supportive. For example, soccer Player A might rate the supportiveness of all coaches more favorably than does soccer Player B. The initial, nonsignificant target effects across the three studies (10–29% of the variance in support perceptions) might have suggested that there was little interparticipant agreement regarding whether one coach was more supportive than another. However, in the combined analysis, the target variance of 21% was significant. This points to the fact that studies with just five targets may be insufficiently powerful to detect target effects and may lead to Type 2 errors. It would be unusual, however, for studies to be realistically conducted in which athletes are able to reflect on the support of more than five coaches. It is of particular note that the amount of variance accounted for by target components in the present studies is greater than those observed in other contexts. In the general social psychology literature, target effects are typically small, leading to claims that target effects are relatively unimportant and/or that there are no objectively supportive features of providers.4 For example, target components have been found to account for less than 10% of the variance in the support perceptions of university freshmen rating psychology majors (Veenstra et al., 2011), university sorority members rating one another (Lakey et al., 1996), family members rating each other (Branje, van Åken, & van Lieshout, 2002), and medical fellows rating clinical faculty (Giblin & Lakey, 2010). In contrast, as we noted in our introduction, there may be something unique about sport and/or coaching that leads to the higher values we observed in the present studies. In particular, because the role of coaches is relatively well specified in sport, with a well-defined social norm about what coaches are supposed to do to be helpful (e.g., provide training and instruction, guidance, positive feedback, and support: Jowett & Poczwardowski, 2007; Riemer, 2007), it seems perfectly reasonable that agreement on level of target support should be much higher in the present studies compared with studies using different populations.

The results of the present studies have important implications for social support interventions. Given the significant perceiver components, a perceiver approach would be legitimate, and may involve trying to change the maladaptive support cognitions of an athlete with low perceived support—e.g., challenging the belief
that using support is a sign of weakness (Hardy, Jones, & Gould, 1996). However, perceiver effects reflect the aspect of support that is stable across support providers and time, and thus might not be amenable to change. Furthermore, on average, perceiver components accounted for only 18% of the variance in perceptions of support, so a perceiver-based approach would likely be less effective than a relational-based strategy for increasing support perceptions. Although target components were nonsignificant in the three studies, the significant effect in the combined analysis potentially provides a challenge to the notion from general social psychology (e.g., see Lakey, 2010) that there may be no objectively supportive features of providers. In light of this result, a target approach could also be legitimate, and might involve the introduction of one objectively supportive coach. It should, however, be noted that evidence for the success of support interventions that have introduced one provider has been mixed (Hogan et al., 2002). Attempting to introduce one objectively supportive coach may simply not be practical, and it might ignore other important qualities of coaching, such as experience, skill level, trust, respect, communication skills, and understanding (Jowett & Poczwardowski, 2007). Given that the relational component accounted for the greatest amount of variance in support perceptions, a relational approach may still be the most promising focus of interventions. For this approach, athletes would need to be matched with specific coaches, to ensure a good fit. For example, similarity in attitudes, experiences, or personalities could be used to match athletes and coaches. Although a matching approach offers the best potential for ensuring perceptions of coach support are maximized, one could see that this could have the potential to become a time-consuming task. However, preliminary evidence (Veenstra et al., 2011) suggests that support recipients can accurately forecast later relational support even following brief conversations with potential support providers. For example, using university freshmen interacting with psychology majors, Veenstra et al. (Study 1) successfully forecasted relational support (i.e., successfully matched perceivers with providers) over a 3-week period, based on recipients’ positive affect and judgments of providers’ supportiveness following an initial 10-min conversation. Veenstra et al. (Study 2) then replicated this effect in a mixed sample of students and workers over a 4-month period. It may not, however, be possible to employ such a matching strategy in all sports. For example, some teams might only have one coach, thereby eliminating the potential to match athletes with coaches. In contrast, in individual sports such as athletics, tennis, and golf, athletes might have greater freedom to opt for (or be matched with) a particular coach.

Although the basis on which to conduct matching will be an important avenue for future research, the question remains, what factors or mechanisms lead to the effects we observed in the present set of studies? For example, why might some athletes have a tendency to report all coaches as more supportive compared with other athletes (perceiver effect)? Similarly, why might athletes agree that some coaches are more supportive (target effect)? And why might some athletes disagree on the supportiveness of certain coaches (relational effect)? Perceiver effects might be due to perceptual biases of the perceivers (Lakey & Drew, 1997). For example, Lakey, Moineau, and Drew (1992) found that individuals with characteristically low perceived support rated the supportiveness of videotaped support attempts less favorably than individuals with characteristically high perceived support. Certain personality characteristics such as agreeableness (Lakey et al.,
have been associated with target effects. Relational effects may result from perceivers using different information to rate support providers, such that in rating supportiveness, one athlete may draw upon the perceived similarity of coaches to themselves, whereas another athlete might draw upon coaches’ personality traits. Lutz and Lakey (2001) found that perceivers’ personality predicted the extent to which they drew upon different traits to rate the supportiveness of providers. The implication of this work is that one athlete might view a coach as supportive if the coach were to exhibit openness, whereas another athlete might view a coach as supportive if the coach were to exhibit agreeableness. Lutz and Lakey even found that, compared with perceivers low in neuroticism, perceivers high in neuroticism saw targets high in neuroticism as more supportive. The latter finding might be influenced by people’s preferences for how support-related conversations should be carried out: A support provider low in neuroticism might not meet the high neuroticism perceiver’s preference for or expectation of support; conversely, the support provider high in neuroticism might show more empathy for the negative emotion of the high neuroticism perceiver.

Having identified that perceiver, target, and relational components underpin perceived coach support, future research should also examine the unique effects of the different components (Lakey, 2010; Lutz & Lakey, 2001). That is, just because the relational component was the largest contributor to perceived coach support does not mean it is related to key outcomes of interest, such as emotions, self-efficacy, and performance. Ultimately, we would want evidence that an athlete who sees a coach as especially supportive performs particularly well in the presence of that coach. To examine such effects requires studies in which participants are assessed on relevant criterion variables in the presence of each coach/support provider. Multivariate generalizability analyses may then be used to determine the correlations between support perceptions and the criterion variables at the various component levels.

Some potential limitations of the present studies should be noted. First, a limitation of Studies 1 and 2 is that participants did not rate members of their own network, which may limit the ecological validity of these studies. The results were, however, congruent with those found in Study 3, in which participants did rate members of their own network. Second, one could also argue that with regard to Study 3, although participants rated members of their own network, by restricting participants to all rate the same five coaches, we may have excluded some participants’ most supportive coach. Future research could ask participants to rate their most important coaches (or indeed other support providers). This was the strategy employed by Barry, Lakey, and Orehek (2007) and Lakey and Scoboria (2005), in whose studies participants rated their own important providers of support. The nature of these designs means, however, that providers (targets) are then nested within perceivers, such that provider and relational components cannot be distinguished. Third, in Studies 2 and 3, athletes and coaches were drawn from individual and team sports. If individual-sport athletes were to have found it difficult to rate team-sport coaches (and vice versa), this might have led to greater disagreement among athletes, thereby inflating the relational effect. The results were nonetheless very similar to Study 1, in which the focus was explicitly on the team sport of soccer. Finally, one could argue that in Study 2, instead of allowing coaches to speak freely, advice from coaching experts might have been sought to manipulate the content
of the videos. The focus of all of the studies was, however, on athletes’ naturally occurring perceptions of coach support. It would not, therefore, have been relevant or appropriate to attempt to manipulate the style or content of the coaching videos.

In conclusion, the present studies help inform our understanding of perceived coach support by demonstrating the relative contributions of perceiver, target, and relational components. Although support perceptions reflected all three components, the largest contributor was the relational component. Thus the answer to the question, “What influences us to perceive one coach as supportive and another as unsupportive?” would be, “it depends.” Researchers and applied practitioners may need to consider the match between athletes and coaches to ensure supportive relationships are formed. Attention to the different components will help develop understanding of how support perceptions are formed, relationships between support and outcomes, and the most appropriate focus for social support interventions.

Notes

1. To examine whether gender of the perceiver moderated the amount of variance accounted for by perceiver, target, and relational components, the analysis was repeated for male and female athletes separately. A significant gender difference would be apparent if it could be demonstrated that the 95% confidence intervals for the two samples did not overlap. The 95% confidence intervals did, however, overlap for perceiver, target, and relational components, thus demonstrating that these effects did not differ for males and females. To examine whether gender of the target influenced the amount of variance accounted for by support perceptions, analysis was repeated with target nested within gender. The 95% confidence intervals for each of the perceiver, target, and relational components overlapped in the nested and original analyses, indicating that these effects did not differ across male and female targets. In addition, target gender did not account for a significant amount of variance in support perceptions.

2. Similarly to the additional analyses (see Note 1) in Study 2, there were no effects for gender of perceivers or targets.

3. Note that the magnitude of variance accounted for by the relational components has been reduced compared with the individual studies. This is due to inclusion of the study factor, which accounted for a nonsignificant 16% of the variance in perceptions of coach support.

4. As Lakey (2010) pointed out, when all participants rate the same targets, target components reflect the extent to which targets differ in their rated supportiveness, averaged across participants’ ratings. To the extent that interrater agreement may be considered an index of objective reality, target components reflect the extent to which supportiveness is an objective feature of targets.

References


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