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Not all players are equally motivated: The role of narcissism

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Abstract

Research on motivational climates consistently demonstrates that mastery-focused climates are associated with positive outcomes and ego-involving performance climates lead to maladaptive outcomes. However, the role of personality within such a framework has been largely ignored. To redress this imbalance, we examined the potential role of narcissism in moderating the effects of different motivational climates on leader inspired extra effort (LIEE) in training. Training is where rugby players spend most of their rugby time and we were keen to examine the combination of personality and climate that might maximize the yield of such training environments. Female rugby players (n = 126) from 15 clubs completed measures of narcissism, motivational climate and effort. Moderated regression analyses revealed that narcissism moderated the relationship between motivational climate and effort. Increases in either performance or mastery climates were associated with increases in effort for narcissists; no such relationship was revealed for low narcissists. The findings demonstrate the importance of considering personality within rugby training environments, as it is clear that not every player will respond the same way to specific training conditions. Coaches who understand this and are able to tailor individualized motivational climates will likely gain the greatest benefits from their different players.

Keywords: Narcissist, coaching, effort, performance climate, mastery climate, PROCESS
Not all players are equally motivated: The role of narcissism

Coaches play a substantial role in shaping the thoughts, feelings and behaviors of their athletes (e.g., Gould, Greenleaf, Chung, & Guinan, 2002). The impact of coaching is particularly apparent in training contexts, as it is training where an athlete spends most of his/her time and the quality of training is well known to impact the quality of athletic performance (Gould et al., 2002; Hardy, Jones, & Gould, 1996). Within the literature, one aspect of coaching that has been the subject of considerable research is the influence of the coach-created motivational climate.

Stemming from Achievement Goal Theory (e.g., Ames, 1992; Nicholls, 1989), motivational climate refers to an individual’s perception of situational cues and structures that are evident within an achievement setting (Ames, 1992). Within the literature, two motivational climates have been operationalized. A mastery climate is characterized by the demonstration of task mastery and by rewarding effort more than ability (Nicholls, 1989; Newton, Duda, & Yin, 2000). Success depends on athletes making improvements in skill development, and learning via trial and error is encouraged to offer an opportunity for self-evaluation (Weiss, Amorose, & Wilko, 2009). Conversely, an ego climate (or performance or outcome climate) underscores the importance of outperforming others (e.g., O’Rourke, Smith, Smoll, & Cumming, 2014). In performance climates learning is seen as a means to an end, and success is evaluated via interpersonal comparison (Nicholls, 1989), where mistakes are seen as failure (O’Rourke et al., 2014; Weiss et al., 2009).

Based on these conceptualizations the motivational climate literature has consistently demonstrated that mastery climates lead to more desirable outcomes than performance climates. For example, mastery climates are associated with greater effort, enjoyment, satisfaction, persistence, and lower anxiety (e.g., Ames, 1992; Nicholls, 1989; O’Rourke et al., 2014; Pensgaard & Roberts, 2002). However, one factor that appears to have been
overlooked in this body of research is the role of individual differences. While some motivational climate research has examined interactions between dispositional goal orientations and motivational climate (e.g., Standage, Duda, & Ntoumanis, 2003), fundamental dimensions of personality appear to have been ignored. This is a surprising omission, as conceptual models of peak performance (e.g., Hardy et al., 1996) suggest that personality plays a fundamental role in psychological preparation, and has a moderating influence over various environmental factors. Supporting this suggestion, evidence from a number of domains supports the moderating influence of personality in performance contexts (e.g., see Roberts & Woodman, in press a, b for recent reviews). One particular personality variable that holds considerable promise for motivational climate research, and which is starting to receive increased research attention by performance focused psychology researchers is narcissism.

In clinical settings, narcissism is defined as “a pervasive pattern of grandiosity, need for admiration, and a lack of empathy” (Diagnostic and Statistical Manual of Mental Disorders, 2000, p. 714). Research in normal (i.e., subclinical) settings has revealed that narcissism is associated with a grandiose, yet fragile, self-view and feelings of entitlement (e.g., Morf & Rhodewalt, 2001). Narcissists consider themselves to be special people who are superior to others (Gabriel, Critelli, & Ee, 1994). Narcissists enjoy competitive environments (More, Weir, & Davidov, 2000), and thrive in difficult and stressful situations where others often choke (e.g., Guekes, Mesagno, Hanrahan, & Kellmann, 2012; Roberts, Callow, Hardy, Woodman, & Thomas, 2010; Roberts, Woodman, Hardy, Davis, & Wallace, 2013; Wallace & Baumeister, 2002; Woodman, Roberts, Hardy, Callow, & Rogers, 2011). Furthermore, they respond well to coach behaviors that are aimed at treating athletes as individuals and less well to coach behaviors that foster a collective sense of unity (Arthur, Woodman, Ong, Hardy, & Ntoumanis, 2011). Competitive environments provide narcissists with an
opportunity to demonstrate their (perceived) talents to the world, and so narcissists are keenly aware that different situations offer more of less opportunity for personal glory. When a situation offers the opportunity for personal glory, narcissists are motivated to perform well. When this opportunity is missing, narcissists withdraw effort and perform poorly (Woodman et al., 2011).

Narcissists’ relentless pursuit of self-enhancement suggests that they may respond more favorably to performance climates. This is because the competitive nature of performance climates provides the narcissist with a clear opportunity for glory. This favorable response might be particularly apparent in training contexts because training typically provides very little opportunity for glory, and narcissists might exert minimal effort (Roberts & Woodman, in press a). How narcissists might perform in a mastery climate is rather less clear. From an ego-involvement perspective, one could argue that the self-referenced nature of mastery climates would result in a weaker opportunity for glory, compared to ego-involving climates. Thus, narcissists might exert less effort in a mastery climate. However, given that narcissists crave the attention of others (Morf & Rhodewalt, 2001), they may perform equally well in a mastery climate; this is because they will perceive that they are gaining increased attention from the coach.

In contrast, low narcissists are not so motivated by the opportunity for glory, and sometimes choke in pressurized situations (see Roberts et al., 2013; Wallace & Baumeister, 2002). Thus, the competitive and anxiety-provoking nature of performance climates (O’Rourke et al., 2014; Pensgaard & Roberts, 2002) may be less attractive for them. As such, these individuals would be more likely to benefit from mastery climates, consistent with much of the motivational climate literature.

In the present study we tested this theorizing by examining interactions between narcissism and each climate on leader-inspired extra effort (LIEE) in training. The idea that
effective leaders can inspire their athletes to invest extra levels of effort is central to a number of perspectives on leadership and coaching (e.g., Bass, 1985). Because of this, LIEE is an often used outcome measure in coaching and leadership research and evidence exists demonstrating that effective leaders can inspire their followers to increase effort (e.g., Arthur et al., 2011; Rowold, 2006). A focus on LIEE is particularly relevant in the current context as effort appears key to understanding the performance of narcissists (see Wallace & Baumeister, 2002; Woodman et al., 2011). Thus understanding the factors that may influence coaches’ ability to increase the effort of narcissists is worthwhile. We hypothesized that narcissism would moderate the effects of performance climate on LIEE such that increases in performance climate would be associated with increases in LIEE for high narcissists but not for low narcissists. We formulated no specific hypothesis for mastery climate because one could present a sound theoretical argument for an interaction in either direction.

Method

Participants

An opportunistic sample of 126 female amateur club-level rugby players (m = 21.91, s = 5.06) from 15 clubs volunteered to take part in the study. Participants had played for their teams for a mean of 5.35 years (s = 6.57), had been with their particular coach for a mean of 1.43 years (s = 1.82), and trained on average 2.22 times per week (s = 1.00). Informed consent was obtained from all participants before participating.

Measures

Narcissism. Narcissism was assessed using the Narcissistic Personality Inventory (NPI; Raskin & Hall, 1979) and the Hypersensitive Narcissism Scale (HSNS; Hendin & Cheek, 1997). The NPI is a 40-item forced-choice inventory and measures the grandiose component of narcissism. For each item, participants are asked to choose between one narcissistic and non-narcissistic statement. For example:
A: I have a natural talent for influencing people
B: I am not good at influencing people

The number of narcissistic responses is summed to give a total narcissism score, with a range of 0-40.

The HSNS measures narcissistic vulnerability. It comprises 10 items (e.g., “My feelings are easily hurt by ridicule or the slighting marks of others”). All items are rated on a five-point scale from 1 (strongly disagree) to 5 (strongly agree). Some theorists (e.g., Campbell & Miller, 2011) recommend that researchers assess both the grandiose and vulnerable components of narcissism. Consequently, we included the HSNS so as to be able to measure narcissism more comprehensively. However, our hypotheses were developed specifically from the perspective of narcissistic grandiosity. As such, the HSNS was included simply as a covariate in each analysis.

Motivational climate. To assess perceptions of the coach-created motivational climate, we used the Perceived Motivational Climate in Sport Questionnaire – 2 (PMCSQ-2; Newton et al., 2000). The PMCSQ-2 comprises 33 items, 17 of which assess mastery climate (e.g., “On this team the coach wants us to try new skills”) and 16 of which assess performance climate (e.g., “On this team, players are encouraged to outplay the other players”). Items are scored on a 5-point Likert scale from 1 (not at all) to 5 (all the time).

Leader-inspired extra effort. We used Arthur et al.’s (2011) 4-item measure of leader-inspired extra effort (LIEE). This measure is based on the original LIEE items from Bass and Avolio’s (2005) Multifactor Leadership Questionnaire, but the items are more focused on coaching behaviors in sport (e.g. “My coach motivates me to work hard”). The items are scored on a 5-point Likert scale from 1 (strongly disagree) to 5 (strongly agree).

Procedure
After gaining institutional ethics approval, potential clubs were contacted by the authors. Participants from assenting clubs were then approached at a training session. Once consent had been obtained, participants completed the four questionnaires (NPI, HSNS, PMCSQ-2, LIEE) at the end of training in the presence of the authors. The order of questionnaire completion was counterbalanced across participants, and a short break was provided in between the completion of each questionnaire to reduce the effect of common method variance. All data were collected between mid and end of season to allow any new players time to adapt to the coach.

Results
Preliminary analyses
Descriptive statistics, Cronbach’s alphas and Pearson correlations are presented in Table I. Correlations revealed that both measures of narcissism were positively correlated with performance climate. Consistent with previous research, mastery climate was positively associated LIEE.

Main analysis
We used moderated regression to examine the hypothesis that narcissism would moderate the impact of each motivational climate on LIEE. The hypotheses were tested using PROCESS (Hayes, 2013) with 5000 bootstraps. PROCESS contains a specific function for dealing with non-independence in data, which allowed us to control for any potential effect associated with the nested nature of the data (within teams). PROCESS provides $R^2$ values for the entire regression model along with coefficients for each variable of interest, and the $R^2$ change associated with the interaction term. Alpha was set at .05 for each analysis and, as is recommended (e.g., Jaccard & Turrisi, 2003) when performing this sort of regression analysis, all variables were centred using $z$-score transformations before being entered into
the regression model. In each analysis the HSNS was entered as a covariate. The results of
the regression analyses are presented in Table II.

Performance climate. The regression model accounted for 31.8% of the variance in
LIEE, \( F_{18,105} = 2.72, P < .001 \). Neither performance climate (\( B = .06, P = .55, 95\% \text{ CI } [-.12, .22] \)) nor narcissism (\( B = .04, P = .60, 95\% \text{ CI } [-.11, .19] \)) predicted LIEE. However, a
significant interaction was revealed, \( \Delta R^2 = .03, \Delta F_{1,105} = 5.37, P = .02, 95\% \text{ CI } [.02, .32] \).

Figure 1 (top) displays the nature of the interaction. Simple slopes analysis indicated no
relationship between performance climate and LIEE when narcissism was low (\( B = -.12, P = .26, 95\% \text{ CI } [-.33, .09] \)), and a positive relationship when narcissism was high (\( B = .23, P = .07, 95\% \text{ CI } [-.02, .47] \)).

Mastery climate. The regression model accounted for 39.6% of the variance in LIEE,
\( F_{18,105} = 3.83, P < .001 \). As with the performance climate data, neither mastery climate (\( B = .11, P = .12, 95\% \text{ CI } [-.02, .25] \)) nor narcissism (\( B = .06, P = .42, 95\% \text{ CI } [-.08, .20] \)) was
related to LIEE. However, a significant narcissism × climate interaction was revealed, \( \Delta R^2 = .09, \Delta F_{1,105} = 16.50, P < .001, 95\% \text{ CI } [.14, .40] \). Figure 1 (bottom) displays the nature of
the interaction. Simple slopes analysis indicated no significant relationship between mastery
climate and LIEE when narcissism was low (\( B = -1.6, P = .11, 95\% \text{ CI } [-.36, .04] \)), and a
significant positive relationship when narcissism was high (\( B = .38, P < .001, 95\% \text{ CI } [.20, .57] \)).

Discussion

We examined the role of narcissism on the relationship between motivational climate
and LIEE. As narcissists are driven by self-enhancement and a performance climate is
characterised by its competitive and ego-involving function, we hypothesized that increases
in performance climates would be associated with higher levels of LIEE for narcissists only.
This hypothesis was supported by the data. The findings for mastery climate mirrored those of performance climate; only narcissists respond to a mastery climate with extra effort.

The performance climate interaction was expected given that the competitive and ego-focused nature of performance climates provides narcissists with an opportunity for personal glory and a chance to demonstrate their perceived superiority. Interestingly, low narcissists’ effort appears unaffected by different levels of performance climate. Performance climates are typically viewed as globally maladaptive (e.g., O’Rourke et al., 2014; Pensgaard & Roberts, 2002). However, in terms of effort invested in training, these rugby data clearly indicate that performance climates can be either beneficial (for narcissists) or simply have no effect (low narcissists). The negative trend for low narcissists somewhat mitigates this data-driven sentiment, however, and more research is needed to determine the degree to which performance climates might affect the motivation of players who are low in narcissism and thus low in the propensity to seek personal glory.

Interestingly, the mastery climate effects mirrored those of the performance climate. Only narcissists reported higher levels of effort under mastery climates. Although mastery climates may not offer the same degree of self-enhancement opportunity for narcissists, the increased effort for narcissists is consistent with an attentional explanation. Narcissists crave the attention of others and want to be admired (Morf & Rhodewalt, 2001). The similarity of the performance and mastery effects suggests that narcissists will perceive any climate as worthy of investing extra effort in training because they will perceive that the coach will pay them attention if they perform well within that climate. Conversely, low narcissists failed to report higher levels of effort under mastery climates. This result is in direct contrast to much of the motivational climate literature, where mastery climates are almost ubiquitously viewed as positive (e.g., O’Rourke et al., 2014; Standage et al., 2003), and suggests that low
narcissists do not respond with increased effort to coaches’ attempts to create a mastery climate. This is potentially very informative and clearly warrants further research.

As narcissists appeared to benefit equally from performance and mastery climates it is clear that performance climates are not always negative. Although continually focusing on competition, ego-involvement, and punishment for mistakes obviously has drawbacks, allowing athletes to experience these sorts of conditions in training settings, if done properly, might have a positive impact on players’ ability to perform under pressure. Indeed, competition is by definition a pressurised ego-involving environment where there are real consequences for making mistakes. If athletes are to be able to deal with these situations then it is likely that they will benefit from training for such situations. In support of this contention, recent research on mental toughness has shown that exposing athletes to punishment-conditioned stimuli in training increases their ability to perform under pressure (cf. Bell, Hardy, & Beattie, 2013).

At the very least, the effects for mastery and performance climates in the present data suggest that extolling the virtues of mastery climates at the expense of a performance climate is an erroneous and overly simplistic position, which is potentially damaging to maximizing performance in competitive sport teams. Each motivational climate has merit in terms of maximizing effort from rugby players and further research that targets the effect of the different climates on different aspects of performance is clearly warranted.

These findings offer a number of implications for theory and practice. First, the results demonstrate the importance of considering personality in motivational climate research. Not all athletes respond to particular motivational climates in the same way. Understanding which personality variables impact which motivational climates, and how, is a key direction for future motivational climate research. Variables such as neuroticism, optimism and perfectionism are all likely candidates in this regard. From an applied
perspective, practitioners working with coaches and athletes need to think carefully about
who their athletes are, and how they best respond, before promoting particular climates, as
clearly one motivational climate does not fit all. Second, narcissists report higher levels of
effort in training regardless of which climate they perceive the coach to be creating. This
demonstrates that coaches can play a substantial role in improving the quality of a narcissist’s
training, potentially making narcissistic athletes even more potent in competition settings (cf.
Roberts & Woodman, in press a). Third, motivational climates do not appear to influence low
narcissists, at least in terms of effort. However, this is not to say that coach behaviors have no
impact on low narcissists, as transformational coaching behaviors do positively influence
these individuals (Arthur et al., 2011). Thus for low narcissists, the behaviors that a coach
adopts may well be more important than the environment he or she creates. Finally, it is
important to note that despite narcissists’ reporting increased effort under both climates and
low narcissists reporting no change, this by no means suggests that we view narcissism as
inherently good for team functioning and performance and low narcissism as bad. Indeed,
narcissists’ inflated self views and focus on personal glory at the expense of others certainly
does not always lead to positive outcomes (e.g., Campbell & Miller, 2011; Gabriel et al.,
1994; Morf & Rhodewalt, 2001; Wallace & Baumeister, 2002). Individuals higher and lower
in narcissism both have a role to play in helping teams thrive, they just need to be managed
and coached differently.

This study is not without its limitations. For example, our decision to use female club
rugby players comes at a cost to generalizability, in terms of sex, type of sport and
competitive level. The literature surrounding narcissism and sex differences is somewhat
equivocal (cf. Morf & Rhodewalt, 2001; Wallace & Baumeister, 2002). Moreover, theoretical
accounts on the development of narcissism (e.g., Kohut, 1977) and the impact of narcissism
on behavior (e.g., Morf & Rhodewalt, 2001) do not incorporate the need to consider sex
differences, as narcissism develops as a result of difficulties during parent-child interactions. However, the sole focus on females does not rule out the possibility that male narcissists may respond differently to motivational climates. Thus future research exploring the responses of male and female athletes is worthwhile. Further, to increase generalizability, examining these relationships in individual sport athletes, as well as athletes from different competitive levels, would also be worth considering. A further limitation of the research is its cross sectional design, and so future research that seeks to replicate these effects in a longitudinal design would be worthwhile. In addition, we used self-report measures of effort and so future studies may wish to include more objective measures and/or informant ratings to forego the reliance on single-source data collection. This would be particularly helpful in the context of narcissism as narcissists are known to engage in ego-protecting strategies (Morf & Rhodewalt, 2001) and so may not always accurately report their levels of effort. Finally, one might argue that our conceptualization of motivational climate was rather narrow and further research that considers the influence of need-supportive and need-thwarting environments (e.g, Quested & Duda, 2010) and coach behaviors (Bartholomew, Ntoumanis, Ryan, & Thøgersen-Ntoumani, 2011) is warranted.

In summary, narcissism consistently moderated the effects of motivational climate on effort such that narcissists reported higher levels of effort under each motivational climate; low narcissists’ effort was unaffected. Future research would do well to clarify these effects and to investigate more fully the role that personality plays in influencing how athletes respond to different coaching behaviors.
References


NARCISSISM AND MOTIVATIONAL CLIMATE


Footnote

1. In the present article, the terms narcissists or high narcissists are used interchangeably to describe individuals who score relatively highly on valid self-report measures of narcissism such as the Narcissistic Personality Inventory (Raskin & Hall, 1979), as opposed to individuals with narcissistic personality disorder. The term low narcissist is used to describe individuals with relatively low scores on such self-report measures.
Table I. Descriptive Statistics and correlations between study variables (n = 126).

<table>
<thead>
<tr>
<th>Measure</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
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<td>1. NPI</td>
<td></td>
<td>.02</td>
<td>.11</td>
<td>.18*</td>
<td>.06</td>
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<tr>
<td>2. HSNS</td>
<td></td>
<td></td>
<td>.11</td>
<td></td>
<td>.30**</td>
</tr>
<tr>
<td>3. Mastery Climate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>.64**</td>
</tr>
<tr>
<td>4. Performance Climate</td>
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<td></td>
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<td>5. LIEE</td>
<td></td>
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</tr>
</tbody>
</table>

Mean | 14.32 | 26.62 | 59.55 | 50.60 | 14.34 |
SD   | 8.23  | 6.87  | 7.04  | 8.82  | 3.25  |
Alpha| .91   | .83   | .90   | .93   | .89   |

* p < .05, ** p < .001
Table II. Regression analyses examining interactions between motivational climate and narcissism on LIEE

<table>
<thead>
<tr>
<th>Model</th>
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<th>t</th>
<th>LLCI</th>
<th>ULCI</th>
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<td>.60</td>
<td>-.12</td>
<td>.22</td>
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<tr>
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<td>.04</td>
<td>.08</td>
<td>.52</td>
<td>-.11</td>
<td>.19</td>
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<tr>
<td>NPI × Performance</td>
<td>.18</td>
<td>.07</td>
<td>2.32**</td>
<td>.022</td>
<td>.32</td>
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<tr>
<td><strong>Mastery Climate</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Constant</td>
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<td>16.98***</td>
<td>.66</td>
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<td>.07</td>
<td>4.06***</td>
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<td>.40</td>
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</table>
** $p < .01$, *** $p < .001$
Figure 1. Interactions between performance climate and narcissism (top), and mastery climate and narcissism (bottom), on leader inspired extra effort. Regression slopes are derived from regression equations with hypothetical individuals who are one standard deviation below the mean (low) or one standard deviation above the mean (high).