Global Self-Esteem and Specific Self-Views as Determinants of People's Reactions to Success and Failure

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A critical question in self-esteem research is whether people's reactions to success and failure are guided by their global self-esteem level or by their more specific beliefs about their abilities and attributes. To address this issue, the authors led participants to experience success or failure on an alleged test and then assessed their cognitive and emotional reactions to these outcomes. In Experiment 1, specific self-views predicted participants' cognitive reactions to their performance outcomes, whereas global self-esteem predicted participants' emotional reactions to their performance outcomes. In Experiment 2, global self-esteem predicted participants' emotional reactions to their performance outcomes even after participants' beliefs about their more specific abilities and attributes were taken into account. These findings suggest that when it comes to understanding people's emotional reactions to success and failure, the effects of global self-esteem are not reducible to the way people think about their constituent qualities.

Few statements are as incontrovertible as this: The way people feel about themselves is an important aspect of psychological life. Laypeople and professionals alike refer to these feelings as indicative of a person's level of self-esteem. Through the years, self-esteem has been linked to a wide variety of social psychological phenomena, including conformity (Brockner, 1984), persuasion (Rhodes & Wood, 1992), cognitive dissonance (Steele, Spencer, & Lynch, 1993), subjective well-being (Diener & Diener, 1995), and social comparison processes (Aspinwall & Taylor, 1993; Gibbons & Gerrard, 1991; Wood, Giordano-Beech, Taylor, Michela, & Gaus, 1994), just to name a few.

Self-esteem also appears to influence people's reactions to valenced outcomes. High self-esteem (HSE) people make more self-serving attributions for performance outcomes (Blaine & Crocker, 1993) and suffer less emotional distress when they fail than do low self-esteem (LSE) people (Brown & Dutton, 1995). The purpose of this article is to examine the source of these differences.

One possibility is that these tendencies stem from differences in how the two self-esteem groups think about their particular abilities and attributes. HSE people generally think they have high ability and expect to do well when undertaking an achievement-related task. These perceptions could guide their reactions to failure. After all, if one thinks one has high ability, it is only logical to assume that success is due to one's ability but failure is not (Blaine & Crocker, 1993; Marsh, 1986; Miller & Ross, 1975). This position was articulated by Blaine and Crocker (1993):

We suggest that differences in the use of self-serving biases among high and low self-esteem individuals can be understood in terms of their differing self-concepts. In this regard, our framework is similar to cognitive interpretations of self-serving biases that have been offered by others. (p. 75)

Self-serving attributions, in turn, could explain why HSE people suffer less distress when they fail than do LSE people. HSE people do not assume that failure implies low ability, so they do not feel bad about themselves when they fail. This account is certainly plausible, but there is little in the way of direct evidence to support it. To be sure, there is ample evidence (a) that HSE people think of themselves in more positive terms than do LSE people and (b) that HSE people and LSE people differ in their cognitive and emotional reactions to failure, but there are little data to connect these two sets of findings.

In fact, we are aware of no research that has explicitly tested whether the effects of global self-esteem are due to the way people think about their more specific abilities and attributes. The closest examples we could find were investigations that examined whether self-esteem is viewed more fruitfully as a general, global construct (i.e., global self-esteem) or as a more specific belief about one's competencies or abilities in some domain. Many prominent theorists (e.g., Bandura, 1986; Gerben, 1971; Marsh, 1990; Swann, Pelham, & Krull, 1989) have argued that specific self-views are better predictors of behavior (broadly defined) than is global self-esteem, but the evidence on this point is actually mixed. Some investigations have indeed found specific self-views to be better predictors of behavior than global self-esteem (e.g., Feather, 1969; Marsh, 1990; Swann, Pelham, & Krull, 1989), whereas other studies have found the opposite to be true or have reported mixed findings (e.g., Brockner & Hutton, 1978; Moreland & Sweeney, 1984; Shrauger & Sorman, 1977).
Shrauger's (1975) distinction between cognitive and affective reactions to valenced feedback may shed some light on this inconsistency. Shrauger argued that expectancies of success (i.e., specific beliefs about one's ability in a particular domain) guide people's cognitive reactions to valenced feedback such that people with favorable expectancies regard success as more believable (and failure as less believable) than do people with unfavorable expectancies. Several investigators have tested these ideas and found support for them (e.g., Marsh, 1986; Swann, Griffin, Predmore, & Gaines, 1987). A reasonable extrapolation from this line of research is that HSE people show a greater self-serving bias than do LSE people because they think they are more able and hold higher expectancies of success.

Shrauger (1975) also examined whether expectancies of success influence people's affective reactions to success and failure. He found that they did not: Independent of their expectations for success, people preferred success over failure. Note, however, that Shrauger used the term affective reactions to refer to people's preference for positive outcomes over negative outcomes, not to people's emotional reactions to receiving positive or negative feedback. His contention that everyone prefers success over failure does not mean that everyone experiences the same emotional reaction to success and failure.

Some of our previous research is relevant to this issue. As noted earlier, we have found that HSE people feel less humiliated and ashamed of themselves when they fail than do LSE people (Brown & Dutton, 1995). We speculated that global self-esteem, not specific self-views, guided these reactions to failure, but we provided no direct evidence that this was the case. The present research allowed us to test this idea directly.

To summarize, there is reason to believe that specific self-views influence people's cognitive responses to success and failure and that global self-esteem influences people's emotional responses to success and failure. To address this issue, we gave participants a test that allegedly measured an important intellectual ability. Before administering the test, we assessed participants' expectations of success and perceived ability level; afterward, we assessed their cognitive and emotional reactions to their test performance. We anticipated that specific self-views would predict what our participants thought about their test performance but that global self-esteem would predict how they felt about their test performance.

Study 1

Method

Participants

The participants were 191 University of Washington (UW) undergraduates (63 men, 128 women).1 They participated in exchange for extra credit in various lower division psychology courses. Six additional participants did not adequately follow instructions, and their data were therefore discarded.

Materials and Procedure

The experiment was conducted in small groups of 2-4 students, with participants seated at separate computers in such a way that they could not see each other's computer screens. All instructions and experimental measures were presented on the computer.

At the start of the experiment, participants completed Rosenberg's (1965) self-esteem scale. This 10-item scale is a popular and well-validated measure of global self-esteem (Baumeister, Tice, & Hutton, 1989; Rosenberg, 1979).

After completing this measure, participants were informed that they were about to take a test of their integrative orientation ability. Integrative orientation was described as an important problem-solving ability involving the capacity to find creative and unusual solutions to problems. We emphasized that integrative orientation was an aspect of general intelligence and was related to scholastic performance.

The experimental task was then introduced. This task was the Remote Associates Test (RAT; Mednick, 1962). In this task, participants are shown three words (e.g., ear, swimming, and cue) and are asked to find a fourth word that relates to the other three (in this case, pool). Working interactively with the computer, participants in Experiment 1 completed three sample problems to ensure that they understood how the problems were solved.

The participants then learned that the test they would be taking was made up of 10 problems and that they would be given 5 min to solve these problems. Prior to taking the test, participants indicated (a) how well they expected to perform on the test relative to other UW students (1 = very poorly, 9 = very well); (b) how their integrative orientation ability compared with other UW students' (1 = bottom 10%; 9 = top 10%); and (c) how many of the 10 problems they expected to solve. Participants' answers to these questions were highly correlated, and we averaged them to form a task-specific expectancy index (α = .86).

We then administered the test. We varied the difficulty of the problems so that half the participants received a set of easy problems and half received a set of difficult problems. Difficulty level was determined on the basis of prior testing with an independent sample and on the basis of published norms (McFarlin & Blascovich, 1984). Assignment to conditions was randomly determined.

After the allotted time for working on the test had expired, the computer paused for a moment and informed participants how many problems they had correctly solved. After receiving this information, participants completed two additional questionnaires (in counterbalanced order). One questionnaire assessed participants' cognitive reactions to their test performance. This questionnaire asked participants to indicate (a) how accurately they thought the test assessed integrative orientation ability and (b) the extent to which they thought their test performance was due to their integrative orientation ability (1 = not at all, 9 = very much). Scores on the two measures were highly correlated (r = .85), and we averaged them to derive a measure of how much participants thought their test scores accurately represented their ability levels.

The other questionnaire assessed participants' emotional reactions to their test performance. Here, participants indicated the extent to which they felt they were presently feeling proud, pleased with themselves, humiliated, or negative after they have succeeded or failed (Brown & Dutton, 1995).

After reversing the scoring for the negative emotions, we averaged the four items to derive a single emotion scale (α = .83).

When they had finished completing these items, participants informed the experimenter that they were finished with the experiment. They were then debriefed, thanked, and excused.

Results

Preliminary Analyses

We examined the data with a series of hierarchical regression analyses.2

1 Gender of participant did not modify any of the findings in this experiment or in Experiment 2 and therefore is not discussed further.

2 In all regression analyses reported in this article, we standardized all variables prior to conducting the analyses.
Table 1
Hierarchical Multiple Regression Analyses Relating Self-Esteem and Task Performance to Various Criterion Measures: Experiment 1

<table>
<thead>
<tr>
<th>Predictor variable</th>
<th>Criterion</th>
<th>Pretask expectancies</th>
<th>Task performance</th>
<th>Ability attributions</th>
<th>Emotion</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$b$</td>
<td>$\Delta R^2$</td>
<td>$b$</td>
<td>$\Delta R^2$</td>
<td>$b$</td>
</tr>
<tr>
<td>Self-esteem</td>
<td>.33***</td>
<td>.03</td>
<td>.11</td>
<td>.36***</td>
<td>.36***</td>
</tr>
<tr>
<td>Task performance</td>
<td>-.01</td>
<td>.11***</td>
<td>-.71***</td>
<td>.50***</td>
<td>-.20**</td>
</tr>
<tr>
<td>Self-Esteem × Task Performance</td>
<td>.04</td>
<td>.00</td>
<td>.04</td>
<td>.00</td>
<td>-.15*</td>
</tr>
</tbody>
</table>

Note. Entries are unstandardized regression coefficients. $R^2$ values are increments in variance for each step.

Self-esteem effects. Our first set of analyses used self-esteem and task performance (dummy coded as 1 = success, 2 = failure) as predictor variables. After entering these variables into the predictive equation, we added a term representing the interaction of these variables (formed by multiplying the two predictors to form a cross-product term).

Table 1 presents the results of these analyses. The first column shows that self-esteem influenced participants' expectancy ratings: HSE participants expected to perform better than did LSE participants. These differential expectancies did not translate into better performance, however, as self-esteem did not predict the number of problems participants solved (see Task Performance column in Table 1).

The Ability Attributions column in Table 1 shows the results for participants' cognitive reactions to their task performance. The significant cross-product term ($b = -.15$) means that self-esteem and task performance interacted to predict these judgments. To examine the nature of the interaction, we calculated predicted values for participants who scored one standard deviation above or below the mean on each variable (Cohen & Cohen, 1983). As shown in Figure 1, LSE participants regarded success and failure as equally diagnostic of their ability level, but HSE participants thought the test provided a more accurate assessment of their ability when they did well than when they did poorly. Another way of saying this is that HSE participants exhibited a self-serving bias but LSE participants did not.

The Emotion column in Table 1 shows the results for the analysis of emotion. The significant cross-product term ($b = .19$) again means that self-esteem and task performance interacted to predict these reactions. Figure 2 reveals the nature of the interaction. Consistent with prior research (Brown & Dutton, 1995), the figure shows that HSE participants experienced less emotional distress following failure than did LSE participants.

Expectancies. In our next set of analyses, we substituted pretask expectancies for self-esteem (see Table 2). Although expectancies did not predict participants' emotional reactions to their test performance, expectancies did interact with task performance to predict participants' ability attributions ($b = -.19$). Figure 3 shows the nature of the interaction. As can be seen, participants with high expectancies of success made more self-serving attributions for their test performance than did participants with low expectancies of success. The form of the interaction is virtually identical to that found when self-esteem was used as a predictor.

Main Analyses

The preceding results set the stage for our main analyses. Until this point, we have seen that global self-esteem and specific self-views (i.e., pretask expectancies) each interact with task performance to predict participants' cognitive reactions to success and failure but that only global self-esteem interacts with performance outcomes to predict participants' emotional reactions to success and failure. The key issue now is whether the effects of global self-esteem are due to people's more specific beliefs about their abilities.

![Figure 1. Schematic representation of the interaction between self-esteem and task performance in the prediction of ability attributions in Experiment 1.](image-url)
To explore this issue, we conducted a hierarchical regression analysis that included self-esteem, pretask expectancies, and task performance as predictor variables (as well as all possible two-way and three-way interactions, entered in a sequential fashion). The logic behind this approach is as follows: If differential expectancies explain why HSE participants made more self-serving attributions than did LSE participants, we should find that this effect disappears once expectancies have been statistically removed. A regression analysis with both predictors in the equation allows us to test this hypothesis, because the analysis simultaneously tests the independent effect of all predictor variables (see Cohen & Cohen, 1983, for a more complete discussion of this issue).

Inspection of the Ability Attributions column in Table 3 shows the results with ability attributions as the criterion variable. The lack of a significant Self-Esteem × Task Performance interaction (b = −.09) means that once expectancies were statistically controlled, HSE participants were no more self-serving in their causal judgments than were LSE participants. Note, however, that the reverse was not true. Even after we statistically controlled for the effects of self-esteem, expectancies continued to

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Table 2
Hierarchical Multiple Regression Analyses Relating Expectancies and Task Performance to Various Criterion Measures: Experiment 1

| Predictor variable | Ability attribution | | Emotion | |
|--------------------|---------------------|-----------------------|------------------------|
| Expectancies       | .04                 | ΔR²: .04              | .06                    | ΔR²: .06               |
| Task performance   | −.20***             | .04*                  | −.39***                | .15***                |
| Expectancies × Task Performance | .19** | .03** | .05 | .00 |

Note. Entries are unstandardized regression coefficients. R² values are increments in variance for each step.

**p < .05. ***p < .001.

Table 3
Hierarchical Multiple Regression Analyses Relating Self-Esteem, Task Performance, and Expectancies to Various Criterion Measures: Experiment 1

| Predictor variable | Ability attributions | | Emotion | |
|--------------------|---------------------|-----------------------|------------------------|
| Self-esteem        | .10                 | ΔR²: .38***           | .38***                 |
| Task performance   | −.20**              | .05*                  | −.40**                 |
| Expectancies       | .00                 | .05*                  | −.07                   | .28***                |
| Self-Esteem × Task Performance | −.09 | ΔR²: .20** |
| Expectancies × Task Performance | −.16* | ΔR²: .04 |
| Self-Esteem × Expectancies | .02 | .05* | −.03 | .04* |
| Self-Esteem × Expectancies × Task Performance | −.08 | .00 | .06 | .00 |

Note. Entries are unstandardized regression coefficients. R² values are increments in variance for each step.

**p < .05. ***p < .001.
interact with performance outcomes to predict attributions \((b = -16)\). Taken together, these findings imply that self-esteem differences in cognitive reactions to performance feedback are cognitively mediated. HSE people think they have high ability and expect to succeed, and this explains why they make more self-serving attributions than do LSE people (Blaine & Crocker, 1993; Brockner, Wiesenfeld, & Raskas, 1993; Marsh, 1986).

But what of participants' emotional reactions to their performance outcomes? Can differential expectancies explain why HSE people are less adversely affected by failure than are LSE people? To answer this question, we repeated our analyses using emotional reactions as the dependent variable. The Emotion column in Table 3 shows that even after the effects of expectancies were statistically removed, self-esteem continued to interact with task performance to predict participants' emotional responses \((b = .20)\). As before, the effect was such that HSE people were affected less adversely by failure than were LSE people. This finding suggests that self-esteem differences in emotional reactions to task performance are not driven by people's more specific beliefs about their ability.

### Supplementary Analyses

Cognitive theories of emotion assert that people's emotional responses to success and failure are governed by their beliefs about the causes of their performance (e.g., Weiner, 1986). This view suggests that attributions may mediate self-esteem differences in emotion: Expectancies determine attributions, and attributions determine emotion.

To test this possibility, we performed another regression analysis, substituting the attributions participants made for their task performance for pretask expectancies. The results of these analyses are shown in Table 4. The data reveal two interesting effects. First, attributions and task performance interacted \((b = -16)\) to predict emotion in the manner specified by Weiner (1986). This interaction did not, however, alter the strength of the Self-Esteem × Task Performance interaction, which remained significant \((b = .22)\). The fact that self-esteem continued to interact with task performance to predict emotion even after the effects of attributions were statistically removed means that differences in ability attributions do not explain why HSE participants were affected less adversely by failure than were LSE participants.

### Discussion

In Experiment 1, we examined whether self-esteem differences in response to failure are due to the way people think about their more specific attributes. Evidence supporting this hypothesis was found when we examined participants' cognitive reactions to success and failure. The tendency for HSE participants to make more self-serving attributions for their task performance than LSE participants was eliminated once we statistically controlled for participants' pretask expectancies of success and beliefs about their ability. This finding supports the claim that the reason HSE people make more self-serving judgments is that they believe they are more able (Blaine & Crocker, 1993; Brockner et al., 1993; Marsh, 1986).

There was no evidence, however, that specific self-views mediated self-esteem differences in emotional reactions. Regardless of their pretask expectancies and independent of the attributions they made for their performance, HSE people felt less distressed when they failed than did LSE participants. This finding suggests that when it comes to people's emotional reactions to failure, the effects of global self-esteem are not reducible to the way people think about their more constituent qualities.

At this point, this conclusion should be regarded as preliminary and in need of further clarification. For one thing, pretask expectancies may not be the most relevant cognitive variable. People's beliefs about their attributes and abilities across a variety of domains might be a more important determinant of their emotional reactions to success and failure.

This conjecture follows from Steele's (1988) self-affirmation theory. Steele has argued that people cope with negative outcomes in one domain by focusing on their virtues in other, unrelated domains (see also Baumeister, 1982; Brown & Dutton, 1995; Brown & Smart, 1991; Greenberg & Pyszczynski, 1985). When applying these ideas to understanding self-esteem effects, Steele has argued that HSE people are better insulated from the negative effects of failure because they believe they have so many other fine qualities (Josephs, Larrick, Steele, & Nisbett, 1992; Steele et al., 1993). Presumably, these perceived qualities function as cognitive resources, which HSE people call upon when they fail.

From this perspective, specific self-views (i.e., people's beliefs about their specific competencies, attributes, and abilities) explain self-esteem differences in emotional reactions to success and failure. HSE people believe they have many more positive qualities than do LSE people, and this is why they experience less emotional distress when they fail. Although there is some evidence to support this claim (Steele et al., 1993), it is largely indirect. To our knowledge, no investigation has (a) measured people's beliefs about their attributes in a variety of areas, (b) exposed people to failure, and then (c) determined whether attribute-specific beliefs mediate self-esteem differences in response to a negative outcome. Experiment 2 was designed to provide such a test.

### Table 4

**Hierarchical Multiple Regression Analyses Relating Self-Esteem, Task Performance, and Attributions to Emotion: Experiment 1**

<table>
<thead>
<tr>
<th>Predictor variable</th>
<th>(b)</th>
<th>(\Delta R^2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self-esteem</td>
<td>.35***</td>
<td></td>
</tr>
<tr>
<td>Task performance</td>
<td>-.39***</td>
<td></td>
</tr>
<tr>
<td>Attributions</td>
<td>.05</td>
<td>.28***</td>
</tr>
<tr>
<td>Self-Esteem × Task Performance</td>
<td>.22***</td>
<td></td>
</tr>
<tr>
<td>Attributions × Task Performance</td>
<td>-.16**</td>
<td></td>
</tr>
<tr>
<td>Self-Esteem × Attributions</td>
<td>.01</td>
<td>.06***</td>
</tr>
<tr>
<td>Self-Esteem × Attributions × Task Performance</td>
<td>.12</td>
<td>.01</td>
</tr>
</tbody>
</table>

*Note.* Entries are unstandardized regression coefficients. \(R^2\) values are increments in variance for each step. **\(p < .01\). ***\(p < .001\).*
Experiment 2

Method

Participants

The participants were 136 UW undergraduates (42 men, 94 women) who participated in exchange for extra credit in various lower division psychology courses. The data from 4 additional participants were discarded because 2 had expressed suspicion regarding their test performance and 2 did not follow instructions.

Materials and Procedure

There was an important difference between this experiment and Experiment 1. Instead of assessing participants’ perceived competence at the experimental task, we examined their more general perceived qualities. We accomplished this by having the participants complete a trait questionnaire at the start of the experimental session, just after completing Rosenberg’s (1965) self-esteem scale. The questionnaire asked them to indicate how well 10 attributes described themselves (1 = not at all, 5 = very much). Five of the attributes were positive (intelligent, athletic, attractive, talented, and kind) and five were negative (unintelligent, uncoordinated, unattractive, incompetent, and inconsiderate). These items were chosen because they are highly important to college students (see, for example, Pelham & Swann, 1989).

Results and Discussion

Preliminary Analyses

As in Experiment 1, we conducted a number of ancillary analyses to determine whether self-esteem interacted with the success–failure manipulation in the prediction of emotion. The predictors were standardized self-esteem scores and a dummy variable representing the success–failure manipulation (1 = success, 2 = failure). We created an interaction term by calculating the crossproduct of the two standardized variables. The top half of Table 5 shows the results. As can be seen, all three sources of variance were significant (all ps < .01). Inspection of the interaction by graphing (see Panel A of Figure 4) indicated that HSE participants again reported less emotional distress following failure than did LSE participants.

Next, we repeated our analyses, substituting scores on the self-evaluation index for self-esteem (see bottom half of Table 5). All three sources of variance (self-evaluation, task performance, and the interaction of these two variables) were significant (all ps < .05), indicating that scores on the self-evaluation measure also moderated the effects of task performance on emotion. Panel B of Figure 4 shows that the effect closely paralleled that observed for self-esteem.

Main Analyses

Thus far, the data show that both global self-esteem and the manner in which people evaluate their specific characteristics predict people’s emotional responses to success and failure. The critical issue now is whether the effects of global self-esteem depend on how people evaluate their specific characteristics. In particular, are HSE people less adversely affected by failure because they think they have many more positive qualities than do LSE people?

To answer this question, we conducted a regression analysis that included all three predictors (self-esteem, self-evaluations, and task performance) in a single equation (as well as all two-way interactions and the three-way interaction, entered in a sequential fashion). Table 6 shows the results. It can be seen that the Self-Esteem × Task Performance interaction remained significant (b = .18), but the Self-Evaluation × Task Performance interaction did not (b = .07). In short, global self-esteem moderated participants’ emotional reactions to their task performance, and this effect did not depend on whether participants thought they possessed certain positive or negative characteristics.

Supplemental Analyses

We conducted a number of ancillary analyses to determine whether the preceding results were reliable across the various attributes we measured. First, we formed scales by averaging two traits in each of five domains: intelligence (intelligent–unintelligent), social qualities (kind–inconsiderate), attractiveness (attractive–unattractive), athleticism (athletic–uncoordinated), and competence (talented–incompetent). We then standardized these scores and substituted each of them (one at a time) for the general self-evaluation index used in the main analyses. In all five cases, the Self-Esteem × Task Performance interaction remained a significant predictor of emotion after we controlled for these more specific self-evaluations.

In another analysis, we first calculated whether participants’ ratings fell above or below the mean in each of these five domains. We then tallied the number of domains in which the participants rated themselves more positively than their peers. Scores on this index could range from 0 (indicating that a given participant rated himself or herself below the mean in all five areas) to 5 (indicating that a given participant rated himself or herself above the mean in all five areas). Insofar as these scores reflect the number of areas in which participants believe they
Figure 4. Schematic representation of the interaction between self-esteem and task performance (Panel A) and between self-evaluations and task performance outcomes (Panel B) in the prediction of emotion in Experiment 2.

e excel, they may provide the fairest test of Steele et al.'s (1993) cognitive resources model.

Scores on this index were correlated with self-esteem (r = .55, p < .001), and they were found to interact with task performance to predict participants' emotional responses to success and failure when self-esteem was not in the equation (b = .17, p < .05). However, when self-esteem was included in the equation, the only interaction to predict emotion was the Self-Esteem × Task Performance interaction (b = .19, p < .05).

In sum, our effects generalize across the various attributes we assessed. HSE participants felt less distress when they failed than did LSE participants, and this is not simply because they think they have more positive traits.

General Discussion

The term self-esteem has been used in multiple ways. Global self-esteem refers to the way people generally feel about themselves; attribute-specific self-esteem refers to the way people evaluate their specific attributes and abilities (e.g., people who believe they are good in math are said to have HSE in that domain of life). In this study, we explored the role these constructs play in guiding people's cognitive and emotional reactions to success and failure. We found that specific self-views predict people's cognitive reactions to task performance but that global self-esteem predicts people's emotional reactions to task performance.

Potential Limitations

Before discussing the implications of these findings, we feel obliged to alert readers to some potential limitations. The analytic strategy we used, in which we statistically controlled for one variable while examining the effects of another, does not provide a strong form of inference. Various factors, including measurement error and differences in range, can explain why the effects of one variable are stronger than those of another. Clearly, it would have been preferable to experimentally manipulate the variables of interest here, although it is difficult to see how that could be done for global self-esteem and people's general beliefs about their abilities and attributes.
At the same time, it is worth noting that expectancies did mediate self-esteem differences in Experiment 1. The tendency for HSE people to make more self-serving attributions for their performance was eliminated once expectancies were taken into account. The fact that the expectancy measure was sufficient to establish this effect lessens the likelihood that the effects we observed elsewhere were due to methodological limitations.

Another possibility is that we did not measure the right attributes in Experiment 2. Perhaps our measure was not broad enough. Maybe we should have assessed participants' beliefs about their musical ability, cooking skills, or any of a dozen other attributes and abilities. We could also have included a measure of how important these self-views were or how certain participants were of their standing on each attribute (Campbell, 1990; Pelham, 1991). These are important issues that our research failed to capture.

**Theoretical and Practical Implications**

These limitations notwithstanding, we believe our results reveal some important details about the nature of self-esteem. HSE people do think they have many more positive qualities than do LSE people, but these differences do not appear to tell the whole story. Our data indicate that even LSE people who think they have many positive qualities feel humiliated and ashamed of themselves when they fail. Why might this be the case?

We believe the most likely possibility is that feelings of humiliation and shame are not responses to judgments about specific attributes and qualities. They reflect a more general and undifferentiated feeling that one is a bad person, rather than simply being bad at things (Sullivan, 1953). In our opinion, these feelings constitute the essence of LSE. Indeed, we believe it is entirely possible for a LSE person to say, "Yes, I know I am smart and can do many things well, but I just don't feel good about myself." These perceptions surface when failure is encountered, evoking feelings of shame and humiliation.

Once activated, these feelings may also spread and color the way LSE people think about their specific attributes (Brown & Mankowski, 1993). Several investigations have found that LSE people overgeneralize the negative implications of failure. Failure in one domain leads them to evaluate themselves more negatively in other domains (Brown & Dutton, 1995; Brown & Smart, 1991; Kernis, Brockner, & Frankel, 1989). HSE people tend to do just the opposite. They tend to compensate for failure by exaggerating their virtues in alternative domains (Brown & Smart, 1991).

At first blush, these opposing tendencies seem inconsistent with our claim that people's emotional reactions to failure depend on their global self-esteem level, not on how they evaluate their specific qualities. In this regard, it is important to note that overgeneralization effects obtain only after failure has occurred; consequently, they represent different ways of coping with failure rather than static differences in how people typically evaluate their specific attributes.

An examination of the way LSE people evaluate their specific characteristics supports this characterization. Within normal populations, LSE people do not regard themselves in excessively negative terms (Baumeister et al., 1989). They do not believe they are stupid, homely, or clumsy. Instead, they generally hold positive beliefs about themselves, particularly relative to their beliefs about others (Brown, 1986, 1993; Brown & Gallagher, 1992). This pattern emerged in the present research as well. Even participants who scored in the bottom 10% of the self-esteem distribution in Experiment 2 rated themselves above the scale midpoint of 3 across the 10 attributes ($M = 3.40$), $t(16) = 2.67, p < .05$.

The absence of true negativity on the part of LSE people suggests that negative beliefs alone do not explain self-esteem differences in behavior. It makes no sense to claim that LSE people are affected by failure so adversely because they think they can do nothing well and have many negative qualities when in fact they regard themselves as reasonably intelligent and talented and not at all unattractive or incompetent.

One might argue that only LSE college students possess positive self-views. We are not aware of any evidence that college students score higher in self-esteem than other groups, but we do not doubt that true self-depreciation occurs in some populations (e.g., the severely depressed). This admission does not negate the point we are making here, which is this: Self-esteem differences are reliably found in the absence of absolute negativity on the part of participants classified as having LSE. This finding suggests that the observed effects are not due to negative thinking per se.

Our findings also bear on how self-esteem should be measured. Some scales assess self-esteem by aggregating people's views of themselves across different domains (e.g., Coopersmith, 1967). The fact that specific self-views and global self-esteem have different correlates suggests that this strategy should be avoided. We are equally skeptical of research that claims to manipulate self-esteem by giving people false feedback regarding some aspect of themselves (e.g., Heatherton & Polivy, 1991). Our findings cast doubt on the assumption that one can mimic global self-esteem by leading people to believe they are high or low in some ability or are good or bad in some domain.

Our findings also speak to interventions designed to instill self-esteem. Many of these programs try to raise self-esteem by encouraging people to focus on their positive qualities, to believe they can do many things well. Approaches such as these are predicated on the dual assumptions that (a) self-esteem is built from the bottom up (from specific beliefs to global self-esteem) and (b) that negative self-relevant beliefs are the defining feature of LSE. We see good reason to question each of these assumptions. As noted earlier, many LSE people already believe they have many fine qualities, but these beliefs do not protect them from the pain of failure. These findings suggest that specific self-beliefs, however positive they may be, are not the key to having HSE.

This naturally leads one to wonder just what is the key to having HSE. Unfortunately, the present research is better suited to showing what HSE is not than establishing what it is. Elsewhere (Brown, 1993; Brown & Dutton, 1995), we have argued that the essence of HSE is an unconditional feeling of affection for oneself that does not depend on the perception that one has any particular positive quality or qualities (Rogers, 1951). We have likened this feeling to the way most (though not all) parents feel toward their children. Most parents feel an abiding love for their children that is not contingent on whether their children are "good at things." Somehow, HSE people introject these
feelings early on in life and thereafter do not judge themselves by what they can or cannot do. Epstein (1980) reached a similar conclusion:

People with HSE, in effect, carry with them a loving parent who is proud of their successes and tolerant of their failures. . . . Although capable of being disappointed and depressed by specific experiences, people with HSE recover quickly, as do children who are secure in their mother’s love. In contrast, people with LSE carry within them a disapproving parent who is harshly critical of their failures, and register only short-lived pleasures when they succeed. Such people are apt to be unduly sensitive to failure and to rejection, to have low tolerance for frustration, to take a long time to recover following disappointments, and to have a pessimistic view of life. The picture is not unlike that of children who are insecure in their parent’s love. (p. 106)

Concluding Remarks

Broad personality variables once dominated psychological research (Allport, 1937). But this is no longer the case. Beginning with Mischel’s (1968) critique, many psychologists turned away from global aspects of personality and toward more specific, cognitively based constructs (Cantor & Kihlstrom, 1981). In a similar vein, social psychologists working in the attitude area have argued that specific beliefs and attitudes are better predictors of behavior than are more general beliefs and attitudes (Ajzen & Fishbein, 1977).

This emphasis on specificity over generality has also found its way into research on self-concept. Many contemporary theorists focus their research on specific views of the self rather than on global self-esteem (e.g., Bandura, 1986; Markus & Wurf, 1987; Swann, 1990). Have some even gone so far as to claim that global self-esteem is a fiction (Gergen, 1971) or is of limited predictive value (Marsh, 1990).

The present findings suggest an important qualification to these conclusions. Although specific self-views may often be a better predictor of behavior than is global self-esteem, this is not the case when it comes to understanding how people feel about themselves when they fail. Insofar as many important tasks in life involve overcoming obstacles and dealing with setbacks, rejection, and disappointment, global self-esteem seems to play a critical role in psychological life.

References


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