Morality as a Basic Psychological Need

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Abstract
We investigate the long-standing yet understudied assumption that feeling moral is a basic psychological need, perhaps like the needs to feel autonomous, competent, and related (ACR). We report an empirical “entrance exam” on whether morality should be considered a need. Specifically, we applied to morality a pioneering method from which Sheldon and colleagues provided evidence that ACR are basic psychological needs. In two studies and four samples, participants recalled events in which they felt un/satisfied, meaningful, pleasurable, at their best, and at their worst. They rated how much candidate psychological needs were satisfied during them. Morality was frequently as or more satisfied than ACR during peak events. Further, it was positively related to indices of positive functioning. These findings suggest feelings of being moral may help people identify times when life is going well. Further, they suggest that morality may be a fundamental psychological need and warrants further investigation.

Keywords
morality, psychological needs, well-being, peak experiences, self-determination theory

James (1878, p. 7) noted that “the joy of moral self-approbation . . . [may be] required to make the notion of mere existence tolerable.” The necessity to feel moral has been intimated throughout modern psychological theory and research. Many motives in Murray’s (1938) classic list appear to be relevant, like abasement and deference. Steele’s (1988) theory of self-affirmation provides a more direct reflection of James’ assertion, which holds that people need to believe that they are good people. There is also some empirical evidence for moral motives (e.g., Read, Talevich, Walsh, Chopra, & Iyer, 2010), or traits (Lee & Ashton, 2004; Zeinoun, Daouk-Oyry, Choueiri, & van de Vijer, 2017) and that morality is a fundamental dimension of person perception (Goodwin, 2015).

Despite these inklings, psychologists have not systematically assessed whether morality displays phenomenological and affective dynamics of a basic psychological need. Is it like psychological needs familiar to the field, such as feelings of autonomy, competence, and relatedness (ACR; Deci & Ryan, 2000)? Similar to (feelings of) ACR, we refer to a moral need as the feeling or experience that one is a moral (which may be at odds with the perceptions of others or objective accounts of moral behavior). Stated differently, here we refer to the subjective sense that one is moral, whatever that may be to the person and her or his moral standards. The point is not to operationalize any “objective” morality but rather to investigate the psychological function of feeling moral. Throughout and for brevity, we will refer to this feeling as “morality” or “moral need satisfaction.” Why might there be such a need? Many researchers suggest that moral behavior has a long phylogenetic history and attends the advanced social coordination of which humans are capable (e.g., de Waal, 2009). If so, then a correspondent phenomenology is likely. Such a phenomenology is also required in many philosophical accounts of morality. Although a moral need has at times been presupposed, the purpose of the current research is to test the aged, widespread, and sometimes controversial notion that people have a basic need to feel moral.

Has Research Shown Morality to Be a Need?
Some research has taken a moral need for granted and assumed it motivates morally relevant behaviors. A widely cited study on cleansing assumed a need for moral purity (Zhong & Liljenquist, 2006). People who merely contemplated making taboo trade-offs (e.g., exchanging money for human body parts) engaged in moral outrage and apparent moral bolstering (Tetlock, Kristel, Elson, Green, & Lerner, 2000). Doing harm to another person induces subsequent compliance via guilt (Carlsmith & Gross, 1969). An odd dynamic has been observed for morality in that when the moral self-concept is highlighted, it appears people are then less likely to engage in moral behavior.

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an effect termed moral licensing (Blanken, van de Ven, & Zee- lenberg, 2015). Moral licensing theorists have suggested that the licensing effect is due to balancing a moral self-concept against costly cooperation (Sachdeva, Iliev, & Medin, 2009). People also display a “holier than thou” bias, overestimating their own generosity (Epley & Dunning, 2000).

Although the abovementioned research paints a suggestive picture, morality does not figure in any major need perspective in a recent review of the historical literature (Pittman & Zeig ler, 2007). How could morality qualify as a need? Baumeister and Leary (1995) provided a set of criteria that continues to guide discussion over hypothetical needs (e.g., Sheldon, 2011). They are presented in Table 1, and each criterion is provided a shorthand name (e.g., the “cognitive” criterion is met when there is evidence that a need directs cognitive processing). Morality may demonstrably meet some of these criteria already. For example, Tetlock et al. (2000) demonstrated that moral motivation has affective consequences (e.g., outrage; see also Rothschild & Keefer, 2017) and elicits morally relevant behavior. These findings satisfy the affective and motivational criteria. Regarding the cognitive criterion, a moral need may underlie the “holier than thou” bias, which occurs in part due to whether people pay attention to population base rates when evaluating their own versus others’ behaviors (Epley & Dunning, 2000). It is unclear, though, whether a moral need is what directs people’s thinking about base rates, which leaves support ambiguous. Despite Steele’s (1988) proposal that people’s desire to see themselves as morally adequate drives self- affirmation processes, to our knowledge research has not treated moral adequacy as a specific motivator of self- affirmation. Demonstrations that morality is a key evaluative character trait (e.g., Goodwin, 2015; Helzer et al., 2014) suggest it may be prolific, but this is tenuous to the extent that traits and needs are divergent constructs.

### Table 1. Criteria for Establishing Psychological Needs From Baumeister and Leary (1995), the Criteria the Current Studies Test and Whether Morality Passes, and the Cumulative Passing of Criteria for Morality.

| Criteria for Needs                                                                 | Previous Evidence                        | Tested | Passed | Cumulative |
|-----------------------------------------------------------------------------------|------------------------------------------|--------|--------|------------|
| 1. Produce effects readily under all but adverse conditions (prolific)            | Goodwin (2015); Helzer et al. (2014)     | X      | X      | X          |
| 2. Have affective consequences (affective)                                       | Tetlock et al. (2000)                    | X      | X      | X          |
| 3. Direct cognitive processing (cognitive)                                       | Ambiguous (Epley and Dunning, 2000)     | X      | X      | X          |
| 4. Lead to ill effects (such as on health or adjustment) when thwarted (degenerative) | Guillen-Royo and Kasser (2014)         |        |        |            |
| 5. Elicit goal-oriented behavior designed to satisfy it (motivational)            | Tetlock et al. (2000)                    | X      | X      | X          |
| 6. Be universal in the sense of applying to all people (universal)                | Ambiguous (cf., e.g., Helzer et al., 2014) | X      | X      | X          |
| 7. Not be derivative of other motives (nonderivative)                             | Ambiguous (cf., e.g., Helzer et al., 2014) | X      | X      | X          |
| 8. Affect a broad variety of behaviors (expansive)                                |                                          |        |        |            |
| 9. Have implications that go beyond immediate psychological functioning (enduring) |                                          |        |        |            |

The Current Research

We apply to morality the “entry exam” logic pioneered by Sheldon and colleagues (2001). In four studies, we asked participants about recent, highly positive, and negative experiences and assessed need satisfactions within each. We expected the moral need to be satisfied during peaks (e.g., satisfying and meaningful) and to be thwarted during “valleys” (e.g., unsatisfying). This is the satisfying/thwarting dynamic. That a need follows it provides evidence for the cognitive criterion. Going beyond Sheldon et al.’s mean comparisons, we quantify the responsiveness of each need to the satisfying/thwarting dynamic and compare them. We also test the moral need’s distinctiveness. Finally, by examining well-being consequences of moral need satisfaction, we can approach the productive, affective, and prolific criteria.

Studies 1a and 1b

Method

Participants

1a (Mechanical Turk). The initial sample was 395 workers from Amazon’s Mechanical Turk (MTurk) residing in the United
States ($M_{age} = 35.7$, $SD = 11.93$, 43.91% female). Some participants did not complete every section of the study or were eliminated for nonsensical event reports, leading to some figures with a smaller $n$ for tests (minimum $n = 308$). These exclusion reasons apply for each sample below as well.

1b (Students). Participants were 113 students enrolled in an introductory psychology course at a private 4-year university in the Southeastern United States ($M_{age} = 19.3$, $SD = 1.09$, 54.55% reporting female).

**Measures**

*Recent life events.* The event elicitation method was similar in structure and content to Sheldon et al. (2001) and extended it by asking additionally about meaningful and pleasurable life events. Participants were asked to consider the 3 months prior (or, for students, the current semester) to the survey and nominate four different kinds of life events: the most satisfying, unsatisfying, pleasurable, and meaningful. For all events, we told participants that the use of the key terms (e.g., “meaningful”) was intentionally vague and to use their own interpretations (see Online Supplement X for elicitation text). For each life event, participants were asked to provide a paragraph long description.

*Psychological needs.* After each event, description participants were asked to rate the extent to which they felt satisfied along six needs, five of which were drawn from Sheldon et al. (2001): autonomy, competence, relatedness, self-esteem, and security (3 items each). They were provided the stem “During this event, I felt . . .” We also included 5 items to assess the moral need: (1) a strong sense of moral fulfillment, (2) that I was being a good person, (3) that I embodied my moral values, (4) that I did the right thing, and (5) that I put others ahead of myself. Analysis of the moral items from pilot data as well as Studies 1a and 1b recommended dropping the fifth item because it loaded poorly on a moral need factor relative to the rest of the items. This loading pattern may be because the fifth item targets a more specific form of morality than the others. Needs were rated on a 1 not at all to 5 extremely scale. The moral need scale was reliable (average across events: $\alpha_{MTurk} = .91$, $\alpha_{student} = .86$) as were all the needs ($\alpha_{min} = .59$, $\alpha_{max} = .94$, $\alpha_{average} = .83$).

*Well-being.* After reporting on their life events, participants completed two measures of global well-being, the Satisfaction with Life Scale (SWLS; Diener, Emmons, Larsen, & Griffin, 1985) and the 8-item Flourishing Scale (Diener et al., 2010). These measures were included for a comprehensive operationalization of well-being across hedonic (SWLS) and eudaimonic (flourishing) conceptions (cf. Deci & Ryan, 2008; Diener et al., 2010).

**Results**

*Is the Moral Need Satisfied in Peak Experiences?*

The means for the extent to which each psychological need was satisfied in each of the four life events are presented graphically for the MTurk sample in Figure 1. Table 2 reports tests of the mean of the moral need against those of the other psychological needs by event type. Significance tests to compare the salience of the moral need against the others were conducted via a series of repeated measures analyses of variances. Specifically, we conducted a repeated measures ANOVA with the six needs constituting a within-subjects factor. For each, the moral need was set as the reference, and differences were established by examining the parameter estimates, which indicated the differences in means for each need versus that of morality (i.e., the $d$ scores in Table 2). The omnibus $F$s were significant for each event (all $F$s > 6.40, $p$s < .001; numerator $df = 5$ and denominator $df$ from 1,705 to 1,765).

Across each of the positive events, the moral need was frequently as highly satisfied as the needs for ACR and self-esteem. Starting with the paradigmatic satisfying event, morality was more satisfied than relatedness, a core SDT need, across both samples. It was not statistically different from competence in either sample. Compared to autonomy in the satisfying event, morality was significantly lower for the MTurk sample, but not the student sample, although the differences in means were quite similar. The moral need was also higher than the security need across both samples and lower than the self-esteem need. Regarding the unsatisfying event, the moral need was consistently higher than any of the other needs save autonomy and, in the MTurk sample, self-esteem. Turning next to the meaningful event, morality did not differ from autonomy, relatedness, or self-esteem but was significantly higher than competence and security, and this pattern was consistent across both the samples. Similarly, in the pleasurable event, the moral need was higher than competence and security. In contrast to the meaningful event, however, the remaining needs of self-esteem, autonomy, and relatedness were nearly or significantly lower than the moral need. In summary, the morality need performed just as well at this portion of the exam as the SDT needs.

*How Responsive Is Morality to Different Events?*

Next, we tested whether the needs followed a pattern of satisfaction and thwarting. That is, were needs highly satisfied in positive events and dissatisfied in negative ones? This was important for two reasons. First, if the salience of a need does not display satisfaction dynamics that correspond to situational influences, then that suggests it is a motivational constant or unwavering self-concept and is thus unlikely to have consequences for behavior. Further, the analysis technique we employed provides a quantification of the extent to which needs were responsive to a dynamic pattern. Specifically, we employed the framework for testing patterned change hypotheses outlined by Furr and Rosenthal (2003). Our contrast
Table 2. Comparing Moral Need Satisfaction to Other Important Candidate Needs in Every Type of Event, Study 1.

| Study 1a (MTurk) |          |          |          |          | Study 1b (Student) |          |          |          |          |
|------------------|----------|----------|----------|----------|-------------------|----------|----------|----------|----------|
| Morality         | 3.939    | 3.013    | 4.079    | 3.921    | Morality          | 4.190    | 2.799    | 4.279    | 4.028    |
| Self-esteem      | .209     | 2.71     | .007     | .166     | Self-esteem       | .277     | 2.41     | .016     | .277     |
| Security         | -.279    | 3.61     | .000     | -.166    | Security          | -.399    | 3.47     | .001     | -.399    |
| Autonomy         | .166     | 2.15     | .031     | -.441    | Autonomy          | .150     | 1.30     | .193     | .150     |
| Competence       | .099     | 1.28     | .201     | -.269    | Competence        | .153     | 1.33     | .184     | .153     |
| Relatedness      | -.235    | 3.04     | .002     | -.383    | Relatedness       | -.429    | 3.73     | .001     | -.388    |

Note. d is the difference between the mean of the moral need satisfaction (the reference) and the other need. Positive scores reflect that the listed need was higher than the moral need.

Figure 1. The satisfaction of six psychological needs across four types of life events in the Study 1a sample. Error bars represent standard errors.
Does the Moral Need Have Implications for Well-Being?

Pursuing a unique prediction strategy via simultaneous regression was complicated by high intercorrelation among the aggregated needs (average $r_{\text{MTurk}} = .73$; $r_{\text{student}} = .62$). Because of this, we took a one-on-one viability approach to test whether the moral need retained unique prediction against each of the other needs when the predictive model was morality and only one other need. In a series of regressions in the larger MTurk sample, SWL and flourishing were regressed separately onto morality and one of the other five needs at a time. Morality and the other needs were unique, positive predictors of both SWL and flourishing in every case save one: Self-esteem predicted each well-being indicator uniquely and morality did not.

Does the Moral Need Have Unique Implications for Well-Being?

Aggregating need satisfaction across events, moral need satisfaction was positively correlated with flourishing ($r_{\text{MTurk}} = .67$, $r_{\text{students}} = .40$) and SWL ($r_{\text{MTurk}} = .50$, $r_{\text{students}} = .24$) as were all the needs and with comparable strengths. Morality had positive implications for both measures of well-being and across both samples.

Are the Moral Need and Self-Esteem (Structurally) the Same?

The nonderivative criterion is that morality should not be derivative of other needs. A sense that one is moral and the broader self-evaluation involved in self-esteem are distinct. One could imagine that feeling moral contributes to self-esteem (and vice versa) but is not reducible to it—some people may derive a great deal of self-esteem from feeling moral and others less so. Still, feeling moral and having self-esteem are often implied to be very similar or the same (e.g., Dunning, 2007; Steele, 1988), and the moral and self-esteem aggregates were highly correlated as noted above, so it is important to demonstrate their empirical distinction despite the definitional one. Toward this end, we fit two competing structural models in the MTurk sample which was larger and more likely to generalize beyond undergraduates. In the two-factor model, the moral and self-esteem needs were separate but covarying latent variables with their separate, respective items. In the second, the items for both self-esteem and morality loaded onto a single factor. Evidence for distinct constructs would be present if the first model fits better than the second. This was indeed the case. The two-factor model fit (RMSEA = .097, 90% [.075, .120], CFI = .970, TLI = .943) was superior to the single factor model (RMSEA = .168, 90% [.147, .190], CFI = .902, TLI = .829), $\chi^2(1) = 123.26, p < .0001$. 

Discussion

Across two studies and three peak life events, the moral need was often as or more satisfied than other psychological needs SDT has so far identified as essential. The moral need was never lower than the SDT needs simultaneously yet was always higher than the security need and frequently higher than the competence need. These results are important for two key reasons. First, they indicate that the moral need guides cognitive processing in that people use it, in part, to identify peak

### Table 3. $r_{\text{alerting}}$ Statistics and Confidence Intervals, Studies 1 and 2.

| Study | DV | $r_{\text{alerting}}$ | 95% CI (Lower, Upper) |
|-------|----|----------------------|----------------------|
| 1a    | Morality | 13.34 | .787 | [.704, .849] |
|       | Relatedness | 15.46 | .829 | [.760, .879] |
|       | Autonomy | 13.93 | .800 | [.721, .858] |
|       | Competence | 13.24 | .785 | [.701, .847] |
|       | Self-esteem | 17.24 | .855 | [.796*, .898] |
|       | Security | 13.91 | .800 | [.721, .858] |
| 1b    | Morality | 15.96 | .670 | [.605, .726] |
|       | Relatedness | 18.57 | .724 | [.667, .772] |
|       | Autonomy | 19.39 | .739 | [.685*, .785] |
|       | Competence | 16.49 | .682 | [.618, .737] |
|       | Self-esteem | 18.74 | .727 | [.671*, .775] |
|       | Security | 18.51 | .723 | [.666, .771] |
| 2a    | Morality | 18.06 | .906 | [.854, .940] |
|       | Relatedness | 14.93 | .871 | [.801, .917] |
|       | Autonomy | 14.97 | .871 | [.801, .917] |
|       | Competence | 15.13 | .874 | [.806, .919] |
|       | Self-esteem | 18.94 | .914 | [.866, .945] |
|       | Security | 13.34 | .845 | [.763, .900]* |
|       | SA/meaning | 17.82 | .904 | [.851, .939] |
|       | Phys/health | 11.87 | .815 | [.720, .880]* |
|       | Money | 6.30 | .599 | [.427, .729]* |
|       | Power | 12.99 | .839 | [.754, .896]* |
|       | Pleasure | 15.15 | .874 | [.778, .919] |
| 2b    | Morality | 22.03 | .909 | [.869, .937] |
|       | Relatedness | 19.37 | .887 | [.833, .922] |
|       | Autonomy | 14.98 | .829 | [.757, .881]* |
|       | Competence | 17.98 | .872 | [.817, .911] |
|       | Self-esteem | 19.10 | .884 | [.833, .920] |
|       | Security | 13.26 | .796 | [.713, .857]* |
|       | SA/meaning | 19.78 | .891 | [.843, .925] |
|       | Phys/health | 12.79 | .785 | [.698, .849]* |
|       | Money | 8.29 | .634 | [.503, .737]* |
|       | Power | 14.03 | .812 | [.734, .868]* |
|       | Pleasure | 17.26 | .863 | [.804, .905]* |

Note. SA/meaning = self-acceptance/meaning; phys/health = physical thriving/health; DV = dependent variable; CI = confidence interval. 

*Nonoverlap with the $r_{\text{alerting}}$ for the moral need.

weight pattern was (1, 1, 1, -3) for (satisfying, meaningful, pleasurable, and unsatisfying). This analysis provided an $r_{\text{alerting}}$ effect size for conformity to the specified pattern (see Table 3). The morality need was as responsive as competence and relatedness to the satisfaction and thwarting dynamics although slightly less than autonomy and self-esteem, based on comparisons of the $r_{\text{alerting}}$ confidence intervals.
experiences. Second, it is quite comparable to the other canonical needs from SDT. Further, the moral need had implications for well-being.

At first glance, a curious finding across these studies was that the moral need was also relatively higher in the unsatisfying event. Why? Moral failure may not contribute as strongly to dissatisfaction in the moment as some of the other needs due to the time courses of approach feelings versus guilt. Further, an “unsatisfying” event is ambiguous with respect to the source of dissatisfaction, and people may default to a negative event that happened to them and not because of them. This is addressed in Study 2.

**Studies 2a and 2b**

Study 2 extends our analysis in important ways: It (a) compares morality to all 10 needs from Sheldon and colleagues (2001), (b) assesses event-level affect, and (c) provides a broader sampling of negative events. Thus, Study 2 places morality in a broader candidate need set, allows for a different test of morality’s contribution to well-being (i.e., at the event level), and expands the event set for testing the satisfying/thwarting dynamic.

**Method**

**Participants**

2a (MTurk). Participants were 117 workers from Amazon’s MTurk ($M_{age} = 40.5$, $SD = 12.78$; 55.77% female of 104 reporting).\(^3\) Participants received $3.00.

2b (Students). Participants were 72 students ($M_{age} = 18.9$, $SD = 1.00$; 62.5% female) enrolled in an introductory psychology course at a private Southeastern University who participated for course credit.\(^4\)

**Measures and Procedure**

*Moral trait scale.* Participants completed the Moral Trait Scale, which measures six traits along commonly cited virtues (e.g., compassion) as well as a global moral trait. The Moral Trait Scale is similar in content and structure to the Global Moral Character Scale (Helzer et al., 2014). Participants responded to 34 items from 1 strongly disagree to 5 strongly agree, and we employed the average of all items.

*Recent life events.* Participants were asked to consider the 3 months prior to the survey (or current semester) and nominate five events: most satisfying, most unsatisfying, most meaningful, when they had “acted at [their] best,” and when they had “acted at [their] worst.” Aside from event content, the event-elicitation procedure followed that of Study 1. By asking about when participants were acting at their best and worst, we sought to deconfound causes of negativity in unsatisfying events. Further, this provided a broader sampling of negative events compared to Study 1.

*Psychological needs.* After each event description, participants were asked to rate the extent to which they felt satisfied along all 10 needs drawn from Sheldon et al. (2001): the set of five from Study 1 as well as power, money, self-acceptance/meaning, physical thriving/health, and pleasure.

*Event-level well-being.* After each event description, participants were also asked to rate affects according to two negative (terrible, miserable) and two positive (happy, satisfied) items rated on a 1 not at all to 6 extremely scale. They also rated their quality of life from 1 below my average to 5 my average to 5 above my average.

*Well-being.* Participants also completed the SWL and flourishing scales from Study 1.

**Results**

Table 4 reports tests of the mean of the moral need against those of the other psychological needs by event type, following the same analytical strategy as Study 1. The means are displayed graphically for the larger MTurk sample in Figure 2.

Results largely replicated those of Study 1. The moral need and ACR were satisfied to similar degrees across events. Moving to particular events, in the satisfying event, morality did not differ in salience compared to ACR or self-esteem in either sample. It was significantly more satisfied than money and power in both samples. It was also higher than pleasure, physical thriving, security, and meaning in the MTurk sample. Regarding the unsatisfying event, in the student sample the moral need differed only from physical thriving in that it was higher. In the MTurk sample, the moral need was higher than the other needs except for autonomy, competence, and self-esteem. Turning next to the meaningful event, morality did not differ from autonomy, relatedness, or self-esteem across samples, replicating Study 1, and was also no different from self-actualization/meaning. Morality was more satisfied than competence, security, pleasure, money, power, and physical thriving. For the “at your best” event, the moral need was more satisfied than competence in the student sample and also did not differ from autonomy and relatedness. This pattern of significance flipped in the MTurk sample such that relatedness and autonomy were lower than morality. Self-esteem did not differ from morality when participants were at their best. All remaining needs were considerably less satisfied than morality. Finally, when participants were at their worst, the moral need was significantly lower than autonomy and relatedness for students and lower than autonomy for the MTurk sample. It was also lower than power for the students and marginally so for the MTurk sample.

*How Responsive Is Morality to Different Events?*

Next, we examined the extent to which the needs followed a pattern of satisfaction/thwarting expected over the three
Table 4. Comparisons of Various Need Satisfactions Against the Moral Need Across Events, Study 2.

|                      | Satisfying Mean | d | t | p   | Unsatisfying Mean | d | t | p   | Meaningful Mean | d | t | p   | At Your Best Mean | d | t | p   | At Your Worst Mean | d | t | p   |
|----------------------|-----------------|---|---|-----|-------------------|---|---|-----|----------------|---|---|-----|------------------|---|---|-----|------------------|---|---|-----|
| Morality             | 3.732           |   |   |     | 2.367             |   |   |     | 3.850          |   |   |     | 4.219            |   |   |     | 1.632             |   |   |     |
| Autonomy             | 0.060           | 0.41| 0.680|   | -0.223           | -1.77| .077|   | -0.218           | -1.43| .152|   | -0.398           | -2.84| .005|   | .739             | 6.17| <.001|   |
| Competence           | 0.244           | 1.67| 0.96|   | -0.229           | -1.82| .069|   | -0.398           | -2.62| .009|   | -0.261           | -1.86| .063|   | .209             | 1.74| .081|   |
| Relatedness          | -0.270          | -1.84| 0.66|   | -0.385           | -3.06| .002|   | 0.039            | 0.25| .799|   | -0.651           | -4.64| <.001|   | -0.025           | -0.21| .834|   |
| Security             | -0.524          | -3.58| 0.000|   | -0.407           | -3.23| .001|   | -0.786           | -5.18| <.001|   | -1.161           | -8.27| <.001|   | 1.167            | 1.39| .165|   |
| Self-esteem          | 0.271           | 1.85| 0.664|   | -0.122           | -0.97| .332|   | 0.090            | 0.59| .555|   | -0.076           | -0.54| .590|   | 0.116            | 0.97| .332|   |
| SA/meaning           | -0.310          | -2.11| 0.035|   | -0.486           | -3.86| .000|   | -0.239           | -1.58| .115|   | -0.617           | -4.40| <.001|   | -0.060           | -0.56| .573|   |
| Pleasure             | -0.408          | -2.78| 0.006|   | 0.016            | 0.09| .927|   | 0.170            | 1.09| .276|   | -0.291           | -1.92| .055|   | 0.609            | 3.96| <.001|   |
| Money                | -1.041          | -7.11| <.001|   | -0.520           | -4.13| <.001|   | -1.483           | -9.78| <.001|   | -1.750           | -12.47| <.001|   | 0.041            | 0.34| .733|   |
| Power                | -0.759          | -5.19| <.001|   | -0.560           | -4.44| <.001|   | -0.642           | -4.23| <.001|   | -0.704           | -5.01| <.001|   | 0.214            | 1.78| .075|   |
| Physical/health      | -0.716          | -4.89| <.001|   | -0.691           | -5.49| <.001|   | -0.835           | -5.52| <.001|   | -1.494           | -1.64| <.001|   | -0.028           | -0.24| .813|   |

| Morality             | 3.749           |   |   |     | 2.271             |   |   |     | 4.080          |   |   |     | 4.309            |   |   |     | 1.697             |   |   |     |
| Autonomy             | 0.186           | 1.17| 0.244|   | 0.063            | 0.36| .722|   | 0.094            | -0.60| .549|   | -0.230           | -1.52| .128|   | .819             | 5.33| <.001|   |
| Competence           | -0.087          | -0.54| 0.587|   | -0.252           | -1.44| .152|   | -0.543           | -3.48| .001|   | -0.392           | -2.59| .010|   | 0.169            | 1.10| .272|   |
| Relatedness          | 0.024           | 0.15| 0.879|   | -0.016           | 0.09| .927|   | 0.170            | 1.09| .276|   | -0.291           | -1.92| .055|   | 0.609            | 3.96| <.001|   |
| Security             | -0.309          | -1.93| 0.054|   | -0.197           | -1.12| .263|   | -0.693           | -4.44| <.001|   | -0.919           | -6.06| <.001|   | 0.319            | 2.08| .038|   |
| Self-esteem          | 0.279           | 1.74| 0.082|   | -0.137           | -0.78| .437|   | 0.087            | 0.56| .579|   | -0.068           | -0.45| .652|   | 0.178            | 1.16| .247|   |
| SA/meaning           | -0.189          | -1.18| 0.239|   | -0.245           | -1.40| .163|   | -0.149           | -0.96| .339|   | -0.471           | -3.12| .002|   | -0.016           | -0.11| .916|   |
| Pleasure             | -0.170          | -1.06| 0.288|   | -0.322           | -1.83| .068|   | -0.617           | -3.95| <.001|   | -1.041           | -6.88| <.001|   | 0.262            | 1.70| .089|   |
| Money                | -1.045          | -6.54| <.001|   | -0.211           | -1.20| .231|   | -1.480           | -9.48| <.001|   | -1.781           | -11.78| <.001|   | 0.178            | 1.16| .247|   |
| Power                | -0.666          | -4.16| <.001|   | -0.243           | -1.38| .167|   | -0.510           | -3.27| .001|   | -0.689           | -4.55| <.001|   | 0.359            | 2.33| .020|   |
| Physical/health      | -0.274          | -1.72| 0.087|   | -0.368           | -2.09| .037|   | -0.605           | -3.88| <.001|   | -1.022           | -6.76| <.001|   | 0.262            | 1.70| .089|   |

Note. d is the difference between the mean of the moral need satisfaction (the reference) and the other need. Positive scores reflect that the listed need was higher than the moral need. SA/meaning = self-acceptance/meaning.
positive and two negative events. The contrast weight pattern was (1, 1, 1, \(-1.5\), and \(-1.5\)) for (satisfying, meaningful, at your best, unsatisfying, and at your worst). Results are provided in Table 3. As is clear in the table, the morality need is among the most responsive to the expected satisfying/thwarting dynamic.

**Does the Moral Need Have Implications for Well-Being?**

This question can be addressed in a few ways in Study 2. First, we established that when aggregating need satisfaction within a person across events, moral need satisfaction was positively correlated with flourishing (\(r_{\text{MTurk}} = .38\), \(r_{\text{students}} = .28\), \(n = 104\)) and SWL (\(r_{\text{MTurk}} = .24\), \(r_{\text{students}} = .29\), \(n = 68\)), replicating Study 1. Second, as Figure 3 makes clear, the satisfaction of the moral need is positively associated with well-being during the events, especially for positive events. As expected, a series of analyses with event type as a repeated measures factor revealed that morality positively predicted both positive affect, MTurk: \(b = .41\), standard error (SE) = .05, \(t(418) = 9.06, p < .001\); student: \(b = .19\), SE = .06, \(t(282) = 3.33, p = .001\), and quality of life, MTurk: \(b = .28\), SE = .04, \(t(419) = 6.64, p < .001\); student: \(b = .19\), SE = .06, \(t(282) = 3.33, p = .001\), but was not related to negative affect, MTurk: \(b = .00\), \(SE = .02\), \(t(412) = -.10, p = .921\); student: \(b = .04\), SE = .04, \(t(279) = 1.07, p = .29\), which was at floor level (cf. Figure 3).

**Discussion**

The moral need again performed on par with SDT’s basic psychological needs. People felt more moral when at their best than any of the SDT needs (Figure 2). The moral need was more satisfied than relatedness in satisfying events. We observed the need being thwarted in unsatisfying and “at your worst” events, and it was highly responsive to the satisfying/thwarting dynamic (\(r_{\text{satisfying}} > .90\)). Further, morality had positive implications for well-being at the event and global levels. These findings reaffirm morality’s centrality to important life events, responsiveness to circumstances, and implications for well-being.
General Discussion

Is morality a basic psychological need? The present research employed the pioneering need analysis paradigm by Sheldon et al. (2001) to conduct an “entrance exam” on the moral need. Across all four studies, morality was shown to be as crucial to peak experiences as SDT’s needs for ACR as well as self-esteem. When we sampled more than one negative experience and all 10 psychological needs from Sheldon et al. (2001), we found that morality was among the most responsive needs to the dynamics of satisfaction and thwarting. Together, these results indicate that morality directs cognitive processing (cf. Table 1; Baumeister & Leary, 1995) for satisfying events: people identify peak experiences by how much they satisfy the moral need (cf. Sheldon et al., 2001).

The current studies also provide evidence that the moral need has affective consequences. In Study 2, morality was a positive predictor of positive affect across the events. It was particularly strongly linked to PA and quality of life during meaningful and “at one’s best” events (see Figure 3) and less so for merely satisfying events. These findings are consistent with our observation that morality was more tightly linked to flourishing than to SWL. Further, that the moral need could not fully compensate PA and quality of life during negative events suggests that the need may not be as productive under adverse conditions.

There was evidence that morality is distinctive from other needs. Competitive regressions indicated that morality is a unique predictor of well-being versus ACR and security although not against self-esteem. Structurally, in Study 1, confirmatory factor analysis revealed that morality was not reducible to a single need with self-esteem. Thus, morality appears to be structurally and definitionally distinct from self-esteem, but it remains to be seen if it has unique prediction for well-being. It may be that morality is primarily constitutive of self-esteem (cf. Epstein, 1973). Further research is needed on this point. In general, moral need satisfaction during specific life events

Figure 3. The relations between moral need satisfaction and positive affect (top left), quality of life (top right), and negative affect (bottom) across five life events in the Mturk sample in Study 2. Event labels: S = satisfying; U = unsatisfying; M = meaningful; B = at one’s best; W = at one’s worst.
impacts global indices of functioning demonstrates that it has lasting implications beyond immediate psychological functioning, that is, it is prolific and enduring. Future research should continue to address the distinctiveness, prolific, and enduring criteria via other methods, especially prospective longitudinal designs.

A psychological need to feel that one is moral can help make sense of many observations in the moral psychology literature. For example, people take advantage of “moral wiggle room” by cheating but not to the extent that is possible (e.g., Mazar, Amir, & Ariely, 2008). By not maximizing, people may take advantage of their own behavioral ambiguity to maintain feelings of morality. However, despite the “wiggle room” problem, it would be a strange need if it had no veridical traction most of the time. Rather, it should primarily convey true information. Despite this, the desire to resist negative evaluations may sometimes stymie progress in moral development, which provides interesting grounds for future research and points also to important implications for moral education. Further, the satisfaction of a moral need may also be another key reason benevolence contributes to people’s well-being (Martela & Ryan, 2016).

Conclusion

That people have a need to feel moral is a classic psychological notion, and such a need seems integral to explaining the development and maintenance of human moral cognition and behavior. Despite this, such a need has remained somewhat controversial for mainstream psychological science. We demonstrate that morality meets many of the criteria set out by Baumeister and Leary (1995). More broadly, we see that morality provides important information about whether people’s lives are going well. This work provides a basis for a more prominent position of the moral need in future research.

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Author Contributions

All authors contributed to the study concept and designs. Data collection was performed by A. Hawkins, M. Prentice, and E. Jayawickreme. M. Prentice performed data analysis and drafted the manuscript. All authors provided interpretive input, critical revisions, and approval of submission.

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Notes

1. Participants in Study 1 participated only if they met inclusion criteria based on measures of moral character (Helzer et al., 2014), a stipulation for goals of the research funding not central to current purposes. If MTurk participants fell into the top, middle, and bottom 5% ranges of the overall moral character measure (i.e., the average of all items), they were immediately invited to complete the rest of the study. Prospective MTurk participants who completed the intake measure but did not meet criteria (n = 1,683) received $0.40. Participants who completed the study received another $3.00. Students completed measures of moral character and honesty. Participants falling into the top, middle, and bottom 5% ranges of the overall moral character measure, of the fairness or honesty domains of the moral character measure, or of the independent honesty measure, were invited to participate in the study (n = 293). Participants received course credit. Sample size for Study 1a was based on Study 1 of Sheldon et al. (2001), which had a reported n = 322. This would provide more than adequate power for detecting an effect of average reported size of r = .21 (Richard, Bond, & Stokes-Zoota, 2003). Study 1b was determined by student availability in psychology courses and the inclusion criteria.
2. Participants also completed a measure of HEXACO traits (Lee & Ashton, 2004) and demographics.

3. We aimed to recruit around 113 participants, the n for analysis of Study 1b as this was sufficient to detect differences among need satisfactions of \( b \sim .30 \). Further, given that the \( r_{\text{alerting}} \) values tended to be quite large in Study 1 (i.e., \( r > .65 \)), we did not need large samples to obtain stable estimates of those coefficients in Study 2 (cf. Schönbrot & Perugini, 2013).

4. The sample size of Study 2a was allowed to be much smaller than Study 1a as Study 1a’s was more than sufficient to establish differences among need satisfactions, and we were interested in replicating the larger patterns than any particular effect. Study 2b’s student sample was constrained by initial psychology participant pool size and availability of students.

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