Conceptions of Happiness Mediate the Relationship Between the Dark Triad and Well-Being

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This study explored the associations between the Dark Triad traits (i.e., Machiavellianism, psychopathy, and narcissism) and mental well-being in a Korean adult sample (N = 1,177). The role of the conceptions of happiness as mediators of these associations was also investigated. Eight conceptions of happiness (e.g., fragility of happiness and eudaimonism), 3 dimensions of hedonic well-being (e.g., life satisfaction), and 2 dimensions of eudaimonic well-being (e.g., psychological well-being) were included in the study. The results showed that Machiavellianism and psychopathy were negatively and narcissism was positively associated with well-being. The pattern of associations between the dark triad and conceptions of happiness showed that Machiavellianism and psychopathy were associated with valuing personal happiness but also considering it to be out of one’s control, and to have negative consequences when achieved. People high on narcissism endorsed generally positive notions of happiness. Results showed that conceptions of happiness functioned as partial mediators in the relationships between the dark triad and well-being. Hence, it seems that the dark triad traits provide a context for the formation of certain beliefs surrounding the nature and value of well-being, which per se influence experienced levels of well-being.

Keywords: dark triad, conceptions of happiness, well-being, machiavellianism, psychopathy, narcissism

INTRODUCTION

The Dark Triad (DT) refers to the three socially aversive, yet non-pathological, traits of Machiavellianism, psychopathy, and narcissism (Paulhus and Williams, 2002). The DT traits predict a wide range of workplace, educational, mating, interpersonal, and antisocial behaviors and tendencies (Furnham et al., 2013) as well as mental well-being (Aghababaei and Blachnio, 2015). In the present study, it was hypothesized that the lay conceptions of happiness (i.e., beliefs about the nature, value, antecedents, and outcomes of happiness; Joshanloo, 2019) would mediate the relationship between the DT and mental well-being. Eight conceptions of happiness were included in this study. The outcome variables of the study consisted of three hedonic (life satisfaction, positive affect, and negative affect) and two eudaimonic (psychological and social) elements of well-being. All variables of the study are defined in Table 1.

Machiavellianism and psychopathy have been found to be negatively correlated with various aspects of subjective well-being, eudaimonic well-being, and mental toughness (Egan et al., 2014; Aghababaei and Blachnio, 2015; Wang et al., 2018; Papageorgiou et al., 2019; Aminnuddin, 2020; Limone et al., 2020). Narcissism, however, has shown positive associations with well-being and...
Conceptions of happiness

Eudaimonism
That well-being consists of meaningful activity, actualizing one's potential, and understanding the meaning of life rather than hedonic experiences.

Inclusive happiness
That our happiness depends on the happiness and well-being of other people, animals, and the natural elements.

Externality of happiness
That one's level of happiness is out of one's control and largely depends on external factors.

Fear of happiness
That happiness can cause bad things to happen.

Transformative suffering
That unhappiness has positive and sometimes transformative powers, and can contribute to well-being.

Fragility of happiness
That happiness is fleeting and may easily turn into less favorable states.

Valuing happiness
That obtaining and maintaining happiness is very important.

Inflexibility of happiness
That one's level of happiness is fixed and unchangeable.

Well-being

Life satisfaction
General satisfaction with present life.

Positive affect
High frequency of positive affect in the past month.

Negative affect
High frequency of negative affect in the past month.

Psychological well-being
Presence of psychological skills and qualities (such as meaning in life and positive relationships).

Social well-being
Having a positive relationship with one's communities and society.

Table 1: Definitions of the variables used.

| Domain             | Variable        | Definition                                                                 |
|--------------------|-----------------|----------------------------------------------------------------------------|
| Dark triad         | Machiavellianism| A selfish orientation in which an individual is willing to use any means to attain goals. |
|                    | Psychopathy     | Characterized by impulsivity, thrill-seeking, callousness, and aggression. |
|                    | Narcissism      | Exaggerated feelings of self-absorption, grandiosity, and entitlement.    |
| Conceptions of happiness | Eudaimonism | That well-being consists of meaningful activity, actualizing one's potential, and understanding the meaning of life rather than hedonic experiences. |
|                    | Inclusive happiness | That our happiness depends on the happiness and well-being of other people, animals, and the natural elements. |
|                    | Externality of happiness | That one's level of happiness is out of one's control and largely depends on external factors. |
|                    | Fear of happiness | That happiness can cause bad things to happen. |
|                    | Transformative suffering | That unhappiness has positive and sometimes transformative powers, and can contribute to well-being. |
|                    | Fragility of happiness | That happiness is fleeting and may easily turn into less favorable states. |
|                    | Valuing happiness | That obtaining and maintaining happiness is very important. |
|                    | Inflexibility of happiness | That one's level of happiness is fixed and unchangeable. |
| Well-being         | Life satisfaction | General satisfaction with present life. |
|                    | Positive affect  | High frequency of positive affect in the past month. |
|                    | Negative affect  | High frequency of negative affect in the past month. |
|                    | Psychological well-being | Presence of psychological skills and qualities (such as meaning in life and positive relationships). |
|                    | Social well-being | Having a positive relationship with one's communities and society. |

Definitions are from Zeigler-Hill and Marcus, 2016; Joshanloo, 2019.

mental toughness (e.g., Egan et al., 2014; Aghababaei and Blachnio, 2015; Zajenkowski and Czarna, 2015; Giacomin and Jordan, 2016; Papageorgiou et al., 2019; Aminnuddin, 2020). Not every previous study supports the conclusions that Machiavellianism and psychopathy are negatively and narcissism is positively associated with well-being. For example, Wang et al. (2018) found a negative association between narcissism and meaning in life, and Brand et al. (2016) found positive correlations between Machiavellianism and psychopathy and mental toughness.

Conceptions of happiness are also associated with experienced mental well-being (Joshanloo, 2014; Joshanloo et al., 2016). In a study including eight conceptions of happiness, Joshanloo (2019) found that these conceptions collectively explained between 16% and 29% of the variance in various well-being dimensions. The relationship between the conceptions of happiness and the DT has not been investigated in prior research and is the focus of the present study. The DT traits seem to have implications for how people define well-being and success for themselves. For example, Jonason and Tome (2019) showed that the DT traits partly determine projections of happiness in response to imagined life events (e.g., earning status/power or finding a new romantic partner). The DT traits are also associated with endorsing certain values that have implications for conceptions of well-being. For example, Kajonius et al. (2015) showed that Machiavellianism and narcissism were positively associated with the personal values of achievement and power, whereas psychopathy was positively associated with hedonism and power. Thus, people high in the DT may endorse ego-centric, asocial, or antisocial notions of well-being where their personal happiness is prioritized over other people's happiness.

Although the direction of causality has not been investigated between these variables, and cannot be addressed in cross-sectional studies, given that personality traits are generally more deep-rooted and stable than beliefs, the direction of causality is more likely to run from the DT to the conceptions of happiness. The DT traits are fairly stable over time (Zettler et al., 2020) and there is evidence of their high levels of heritability (Schermer and Jones, 2020). Lau and Marsee (2012), for example, showed that DT-related behaviors were already evident in ages 11–17. Thus, along with other personality traits and environmental influences, the DT traits provide the context for the formation of personal beliefs concerning well-being.

The Present Study

It is hypothesized in this study that conceptions of happiness are among the mediating pathways through which the DT traits influence well-being. One’s level of the DT traits would partly determine an individual’s beliefs surrounding well-being, which per se influence experienced levels of well-being. A Korean sample was used to test this hypothesis. Due to an overall lack of prior literature on the topic, this study sought to explore these associations with no specific hypotheses made a priori with regards to the individual conceptions. However, the available evidence reviewed above does seem to support a number of general expectations:

1. Machiavellianism and psychopathy would be negatively and narcissism would be positively associated with well-being.
2. Machiavellianism and psychopathy would be positively associated with the conceptions of happiness that undermine well-being. Machiavellianism and psychopathy
would be inversely associated with the conceptions that positively predict well-being.

3- Narcissism would be positively associated with the conceptions of happiness that boost well-being and would be negatively associated with the conceptions that undermine well-being.

4- Conceptions of happiness would partially mediate the relationship between the DT and well-being.

METHOD

Participants
The sample consisted of 1,177 Korean participants (average age = 40.955, SD = 12.097, females = 51.1%). The participants were recruited through a data collection agency, and received monetary compensation. Participants who did not respond correctly to the three attention check questions, were excluded. A part of the data was used in a previous study (Joshanloo, 2019) to answer a different research question (i.e., investigating the construct validity of the conceptions of happiness).

Measures

Dark Triad
The Short Dark Triad Questionnaire (Jones and Paulhus, 2014) is a 27-item measure of Machiavellianism ($\alpha = 0.786$), psychopathy ($\alpha = 0.660$), and narcissism ($\alpha = 0.737$), with nine items per subscale. The items are rated on a 5-point scale ranging from 1 = disagree strongly to 5 = agree strongly. Item 20 was removed from the Psychopathy subscale because it had a weak and negative correlation ($r = -0.085$) with the total sub-scale, and its removal increased the alpha from 0.660 to 0.714.

Well-Being
The Satisfaction With Life Scale (Diener et al., 1985) was used to measure life satisfaction ($\alpha = 0.920$). Each of the five items is rated on a 7-point scale ranging from 1 = strongly disagree to 7 = strongly agree. The Negative And Positive Affect Scale (Mroczek and Kolarz, 1998; Joshanloo, 2017a) was used to measure positive and negative affect. The scale includes six items for negative affect (e.g., nervous, $\alpha = 0.877$) and six items for positive affect (e.g., cheerful, $\alpha = 0.924$). Respondents indicate how much of the time (ranging from 1 = none of the time to 5 = all of the time) during the past 30 days they felt each of the affective states. The Social and Psychological Well-Being subscales of the Mental Health Continuum-Short Form (Keyes, 2006) were used to measure social (five items, $\alpha = 0.813$) and psychological (six items, $\alpha = 0.900$) well-being. The items are responded to on a 6-point scale ranging from 0 = never to 5 = every day. To calculate a global well-being score for each person, negative affect was subtracted from the sum of the other four variables, after z-transforming the five well-being variables1.

Conceptions of Happiness
The items of the 5-item Fear of Happiness Scale (Joshanloo, 2013; Joshanloo et al., 2014) are rated on a 7-point scale ranging from 1 = strongly disagree to 7 = strongly agree. The 4-item Externality of Happiness Scale (Joshanloo, 2017b), the 4-item Fragility of Happiness Scale (Joshanloo et al., 2015), the 5-item Transformative Suffering Scale (Joshanloo, 2014), the 4-item Inflexibility of Happiness Scale (Joshanloo, 2019), and the 7-item Valuing Happiness Scale (Mauss et al., 2011) have a response format identical to that of the Fear of Happiness Scale. In the Eudaimonism And Hedonism Scale (Joshanloo, 2019), the participants are asked to distribute 100 points among six components of well-being. Three of the components are hedonic and three of them are eudaimonic. In the present study, only the eudaimonic well-being score is used because including both hedonic and eudaimonic variables in multivariate analyses would be inappropriate given a perfect negative correlation between the two. Eudaimonic scores are calculated by summing or averaging the points given to the eudaimonic items. The Inclusive Happiness Scale (Joshanloo, 2019) presents seven pairs of circles that range from two non-overlapping circles to nearly congruent circles. Each of the six items asks about the perceived overlap between one’s happiness and the happiness of a group of people, animals, or plants. Alphas for inflexibility, externality, fear, transformative, fragility, inclusive, and valuing were 0.686, 0.802, 0.823, 0.830, 0.842, 0.893, 0.663, respectively2.

Items were recoded when needed, such that higher scores indicate higher levels of the variables. The total score for each variable was calculated by averaging the responses to the items of that variable. All of the scales were translated into Korean by a team of bilinguals, research assistants, and university professors using back-translation, collaborative, and iterative translation procedures (Douglas and Craig, 2007).

RESULTS

Preliminary Analyses
SPSS and JASP were used for data analysis. The descriptive statistics for all variables are presented in the supplementary material (Supplementary Table 1). Table 2 presents the intercorrelations between the DT, conceptions, and global well-being. The intercorrelations including the five well-being variables are presented in the supplementary material (Supplementary Table 2). Five separate regression analyses were conducted with well-being variables as outcomes and the DT variables as predictors. The results are presented in Table 3. As expected, Machiavellianism and psychopathy predicted well-being negatively, whereas narcissism predicted well-being positively. $R^2$ values ranged between about 11% constructed and used. The five variables had a good internal consistency ($\alpha = .84$). An exploratory factor analysis suggested that a single-factor model is consistent with the data, with factor loadings ranging between 0.537 and 0.811 and variance explained = 54.040%)

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1 Considering that the five well-being variables used in this study are correlated (e.g., Gallagher et al., 2009; also see the supplementary material), the well-being measures are not multi-faceted, and this study is interested in measuring well-being comprehensively and generally, a composite index of well-being was

2 With the exception of the Valuing Happiness Scale, all of the conceptions of happiness scales used in this study and their scoring information are publicly available at https://bit.ly/3siBWcV
conceptions contributed about 15% more. A second hierarchical regression showed that when the conceptions were entered in the first step, they explained about 26% of the variance in global well-being. The results are presented in Table 5. Together, the variables explained about 37% of the variance in global well-being.

A follow-up hierarchical regression showed that when the DT variables were entered in the first step, they explained 22% of the variance. When entered in the second step, the conceptions contributed about 15% more. A second hierarchical regression showed that the conceptions explained about 26% of the variance in global well-being and the DT in the second step contributed 11% more. The detailed results of these analyses are presented in the supplementary material. Thus, each set of variables contribute significantly to global well-being when controlling for the other set of variables. However, the contribution of conceptions is slightly larger than that of the DT.

Mediation Analyses
Three mediation analyses were performed using the Process macro (Hayes, 2017) with 5,000 bootstrap resamples. In each analysis, the eight conceptions were specified as parallel

### Table 2: Intercorrelations between the variables of the study.

| 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1. Machiavellianism | 0.535*** |         |         |         |         |         |         |         |         |         |
| 2. Psychopathy | 0.146*** | 0.215*** |         |         |         |         |         |         |         |         |
| 3. Narcissism | −0.095** | −0.071*  | 0.096** |         |         |         |         |         |         |         |
| 4. Eudaimonism | 0.133*** | 0.078**  | 0.009   | −0.090**|         |         |         |         |         |         |
| 5. Inflexibility | 0.215*** | 0.217*** | −0.016  | −0.090**| 0.334***|         |         |         |         |         |
| 6. Externality | 0.185*** | 0.214*** | −0.038  | 0.034   | 0.183***| 0.446***|         |         |         |         |
| 7. Fear | 0.068*   | 0.051   | 0.095** | 0.150***| 0.001   | 0.008   | 0.331***|         |         |         |
| 8. Transformative | 0.189*** | 0.134*** | −0.070* | −0.006  | 0.012   | 0.158***| 0.232***| 0.286***|         |         |
| 9. Frailty | −0.123***| −0.078***| 0.131***| 0.116***| −0.024  | −0.089**| −0.003  | 0.174***| −0.081**|         |
| 10. Inclusive | 0.288*** | 0.208*** | 0.117***| −0.051  | 0.135***| 0.277***| 0.271***| 0.187***| 0.186***| 0.053   |
| 11. Valuing | −0.207***| −0.216***| 0.340***| 0.070*  | −0.096**| −0.364***| −0.287***| 0.077**  | −0.249** | 0.269***| −1.35***|

*p < .05, **p < .01, ***p < .001.

### Table 3: The dark triad predicting well-being.

| Outcome      | Unstandardized Coefficient | Chi: Lower | Chi: Upper | t    | p     | Standardized coefficient | Semi-partial correlation | $R^2$, $F$, p |
|--------------|----------------------------|------------|------------|------|-------|--------------------------|--------------------------|---------------|
| Life satisfaction |                            |            |            |      |       |                          |                          | 0.121, 53.851, 0.000 |
| Machiavellianism | −0.238                    | −0.390     | −0.085     | −3.062| 0.002 | −0.099                   | −0.084                  |               |
| Psychopathy | −0.422                    | −0.579     | −0.266     | −5.283| 0.000 | −0.174                   | −0.145                  |               |
| Narcissism | 0.863                     | 0.708      | 1.017      | 10.963| 0.000 | 0.308                    | 0.300                   |               |
| Positive affect |                            |            |            |      |       |                          |                          | 0.122, 54.082, 0.000 |
| Machiavellianism | −0.193                    | −0.277     | −0.109     | −4.531| 0.000 | −0.147                   | −0.124                  |               |
| Psychopathy | −0.194                    | −0.281     | −0.108     | −4.429| 0.000 | −0.145                   | −0.121                  |               |
| Narcissism | 0.455                     | 0.370      | 0.540      | 10.525| 0.000 | 0.295                    | 0.288                   |               |
| Negative affect |                            |            |            |      |       |                          |                          | 0.111, 48.744, 0.000 |
| Machiavellianism | 0.158                     | 0.071      | 0.246      | 3.548 | 0.000 | 0.116                    | 0.098                   |               |
| Psychopathy | 0.355                     | 0.265      | 0.446      | 7.731 | 0.000 | 0.255                    | 0.213                   |               |
| Narcissism | −0.238                    | −0.326     | −0.149     | −5.251| 0.000 | −0.148                   | −0.145                  |               |
| Psychological |                            |            |            |      |       |                          |                          | 0.235, 120.061, 0.000 |
| Machiavellianism | −0.151                    | −0.259     | −0.043     | −2.743| 0.006 | −0.083                   | −0.070                  |               |
| Psychopathy | −0.356                    | −0.467     | −0.245     | −6.275| 0.000 | −0.192                   | −0.160                  |               |
| Narcissism | 1.011                     | 0.902      | 1.121      | 18.116| 0.000 | 0.474                    | 0.463                   |               |
| Social |                            |            |            |      |       |                          |                          | 0.167, 78.572, 0.000 |
| Machiavellianism | −0.216                    | −0.319     | −0.113     | −4.128| 0.000 | −0.130                   | −0.110                  |               |
| Psychopathy | −0.212                    | −0.318     | −0.106     | −3.928| 0.000 | −0.126                   | −0.105                  |               |
| Narcissism | 0.762                     | 0.658      | 0.866      | 14.335| 0.000 | 0.391                    | 0.382                   |               |

All dfs were 3 and 1,173.

(negative affect) and 23% (psychological well-being). Next, eight regression analyses were performed where the DT predicted conceptions of happiness. As shown in Table 4, the DT explained approximately between 1% (transformational) and 9% (valuing) of the variance in the conceptions. A regression analysis was conducted with the conceptions and the DT predicting global well-being ($F(11, 1165) = 61.485, p < 0.001$).
TABLE 4 | The dark triad predicting conceptions of happiness.

| Outcome          | Unstandardized Coefficient | C.I: Lower | C.I: Upper | t   | p    | Standardized coefficient | Semi-partial correlation | $R^2$, F, $p$ |
|------------------|-----------------------------|------------|------------|-----|------|----------------------------|--------------------------|---------------|
| Eudaimonism      |                             |            |            |     |      |                            |                          | 0.023, 9.280, 0.000 |
| Machiavellianism | −0.791                      | −1.408     | −0.173     | −2.513 | 0.012 | −0.086                      | −0.073                   |               |
| Psychopathy      | −0.474                      | −1.110     | 0.162      | −1.461 | 0.144 | −0.051                      | −0.042                   |               |
| Narcissism       | 1.286                       | 0.660      | 1.913      | 4.028  | 0.000 | 0.119                       | 0.116                    |               |
| Inflexibility    |                             |            |            |     |      |                            |                          | 0.018, 7.130, 0.000 |
| Machiavellianism | 0.241                       | 0.115      | 0.367      | 3.759  | 0.000 | 0.129                       | 0.109                    |               |
| Psychopathy      | 0.021                       | −0.108     | 0.151      | 0.325  | 0.745 | 0.011                       | 0.009                    |               |
| Narcissism       | −0.027                      | −0.155     | 0.101      | −0.416 | 0.678 | −0.012                      | −0.012                   |               |
| Externality      |                             |            |            |     |      |                            |                          | 0.065, 27.360, 0.000 |
| Machiavellianism | 0.263                       | 0.141      | 0.386      | 4.222  | 0.000 | 0.141                       | 0.119                    |               |
| Psychopathy      | 0.297                       | 0.171      | 0.423      | 4.824  | 0.000 | 0.157                       | 0.131                    |               |
| Narcissism       | −0.154                      | −0.278     | −0.030     | −2.440 | 0.015 | −0.071                      | −0.069                   |               |
| Fear             |                             |            |            |     |      |                            |                          | 0.061, 25.273, 0.000 |
| Machiavellianism | 0.193                       | 0.069      | 0.317      | 3.050  | 0.002 | 0.102                       | 0.086                    |               |
| Psychopathy      | 0.344                       | 0.216      | 0.472      | 5.278  | 0.000 | 0.179                       | 0.149                    |               |
| Narcissism       | −0.202                      | −0.328     | −0.076     | −3.146 | 0.002 | −0.091                      | −0.089                   |               |
| Transformative   |                             |            |            |     |      |                            |                          | 0.011, 4.390, 0.004 |
| Machiavellianism | 0.078                       | −0.056     | 0.213      | 1.140  | 0.254 | 0.039                       | 0.033                    |               |
| Psychopathy      | 0.023                       | −0.116     | 0.161      | 0.319  | 0.750 | 0.011                       | 0.009                    |               |
| Narcissism       | 0.203                       | 0.067      | 0.340      | 2.923  | 0.004 | 0.087                       | 0.085                    |               |
| Fragility        |                             |            |            |     |      |                            |                          | 0.048, 19.923, 0.000 |
| Machiavellianism | 0.314                       | 0.191      | 0.437      | 5.007  | 0.000 | 0.169                       | 0.143                    |               |
| Psychopathy      | 0.127                       | 0.000      | 0.254      | 1.963  | 0.050 | 0.067                       | 0.056                    |               |
| Narcissism       | −0.238                      | −0.362     | −0.113     | −3.733 | 0.000 | −0.109                      | −0.106                   |               |
| Inclusive        |                             |            |            |     |      |                            |                          | 0.039, 16.072, 0.000 |
| Machiavellianism | −0.235                      | −0.365     | −0.105     | −3.547 | 0.000 | −0.120                      | −0.102                   |               |
| Psychopathy      | −0.096                      | −0.230     | 0.038      | −1.411 | 0.159 | −0.048                      | −0.040                   |               |
| Narcissism       | 0.365                       | 0.233      | 0.497      | 5.433  | 0.000 | 0.159                       | 0.155                    |               |
| Valuing           |                             |            |            |     |      |                            |                          | 0.091, 39.364, 0.000 |
| Machiavellianism | 0.306                       | 0.226      | 0.387      | 7.430  | 0.000 | 0.245                       | 0.207                    |               |
| Psychopathy      | 0.079                       | −0.004     | 0.163      | 1.865  | 0.062 | 0.062                       | 0.052                    |               |
| Narcissism       | 0.100                       | 0.018      | 0.182      | 2.382  | 0.017 | 0.068                       | 0.066                    |               |

All dfs were 3 and 1,173.

TABLE 5 | The dark triad and conceptions as predictors of global well-being.

| Outcome          | Unstandardized Coefficient | C.I: Lower | C.I: Upper | t   | p    | Standardized coefficient | Semi-partial correlation |
|------------------|-----------------------------|------------|------------|-----|------|----------------------------|--------------------------|
| Machiavellianism | −0.408                      | −0.797     | −0.018     | −2.052 | 0.040 | −0.059                      | −0.048                   |
| Psychopathy      | −1.063                      | −1.456     | −0.670     | −5.312 | 0.000 | −0.151                      | −0.124                   |
| Narcissism       | 2.726                       | 2.332      | 3.119      | 13.589 | 0.000 | 0.337                       | 0.317                    |
| Eudaimonism      | −0.024                      | −0.059     | 0.011      | −1.336 | 0.182 | −0.032                      | −0.031                   |
| Inflexibility    | 0.097                       | 0.084      | 0.277      | 1.050  | 0.294 | 0.026                       | 0.024                    |
| Externality      | −0.802                      | −1.008     | −0.596     | −7.639 | 0.000 | −0.217                      | −0.178                   |
| Fear             | −0.501                      | −0.707     | −0.296     | −4.782 | 0.000 | −0.137                      | −0.111                   |
| Transformative   | 0.451                       | 0.268      | 0.633      | 4.853  | 0.000 | 0.130                       | 0.113                    |
| Fragility        | −0.547                      | −0.733     | −0.362     | −5.798 | 0.000 | −0.147                      | −0.135                   |
| Inclusive        | 0.558                       | 0.389      | 0.728      | 6.473  | 0.000 | 0.158                       | 0.151                    |
| Valuing           | −0.218                      | −0.497     | 0.062      | −1.524 | 0.128 | −0.039                      | −0.036                   |

Mediators between one of the DT variables and global well-being, and age and gender were controlled for. Table 6 presents the mediation analysis results. All total, direct, and indirect effects were significant, indicating that partial mediation is supported for Machiavellianism, psychopathy, and narcissism. Significant mediators for Machiavellianism were externality,
TABLE 6 | Mediation analyses.

| Predictor | Parameter | Unstandardized Effect | SE | 95% CI lower | 95% CI upper | Mediation supported | P → M | M → O |
|-----------|-----------|-----------------------|----|--------------|--------------|---------------------|-------|-------|
| **Machiavellianism** | | | | | | | | |
| t = −6.943  p = 0.000 | Total | −1.411 | 0.203 | −1.810 | −1.012 | | | |
| t = −2.800  p = 0.005 | Direct | −0.541 | 0.193 | −0.919 | −0.162 | | | |
| | Total Indirect | −0.870 | 0.137 | −1.145 | −0.612 | | | |
| | Eudaimonism | 0.000 | 0.015 | −0.028 | 0.034 | | | |
| | Inflexibility | 0.031 | 0.030 | −0.027 | 0.093 | | | |
| | Externality | −0.342 | 0.071 | −0.488 | −0.214 | | | |
| | Fear | −0.252 | 0.061 | −0.381 | 0.142 | | | |
| | Transformative | 0.101 | 0.043 | 0.022 | 0.194 | | | |
| | Fragility | −0.244 | 0.060 | −0.373 | −0.137 | | | |
| | Inclusive | −0.133 | 0.052 | −0.243 | 0.040 | | | |
| | Valuing | −0.031 | 0.067 | −0.156 | 0.104 | | | |
| **Psychopathy** | | | | | | | | |
| t = −7.325  p = 0.000 | Total | −1.566 | 0.214 | −1.985 | −1.146 | | | |
| t = −3.855  p = 0.000 | Direct | −0.763 | 0.198 | −1.151 | −0.375 | | | |
| | Total Indirect | −0.803 | 0.133 | −1.076 | −0.549 | | | |
| | Eudaimonism | 0.000 | 0.009 | −0.020 | 0.019 | | | |
| | Inflexibility | 0.019 | 0.022 | −0.023 | 0.065 | | | |
| | Externality | −0.365 | 0.075 | −0.529 | −0.233 | | | |
| | Fear | −0.303 | 0.069 | −0.452 | −0.181 | | | |
| | Transformative | 0.114 | 0.046 | 0.032 | 0.213 | | | |
| | Fragility | −0.182 | 0.057 | −0.306 | −0.078 | | | |
| | Inclusive | −0.055 | 0.050 | −0.159 | 0.040 | | | |
| | Valuing | −0.029 | 0.053 | −0.131 | 0.077 | | | |
| **Narcissism** | | | | | | | | |
| t = 12.444  p = 0.000 | Total | 2.766 | 0.222 | 2.330 | 3.202 | | | |
| t = 11.887  p = 0.000 | Direct | 2.372 | 0.200 | 1.981 | 2.764 | | | |
| | Total Indirect | 0.394 | 0.133 | 0.134 | 0.662 | | | |
| | Eudaimonism | −0.019 | 0.022 | −0.066 | 0.024 | | | |
| | Inflexibility | 0.001 | 0.008 | −0.017 | 0.019 | | | |
| | Externality | 0.024 | 0.058 | −0.093 | 0.138 | | | |
| | Fear | 0.059 | 0.047 | −0.028 | 0.158 | | | |
| | Transformative | 0.105 | 0.041 | 0.032 | 0.193 | | | |
| | Fragility | 0.092 | 0.046 | 0.012 | 0.191 | | | |
| | Inclusive | 0.195 | 0.052 | 0.103 | 0.305 | | | |
| | Valuing | −0.065 | 0.033 | −0.139 | −0.010 | | | |

P = predictor. M = mediator. O = outcome.

DISCUSSION

In line with the prior research (e.g., Aghababaei and Blachnio, 2015), the present results showed that Machiavellianism and psychopathy were negatively and narcissism was positively associated with well-being. The DT traits were better predictors of psycho-social well-being than subjective well-being, which is consistent with evidence that eudaimonic well-being depends more heavily than hedonic well-being on self- and impulse-control capacities (Joshanloo et al., 2021). People who score high on the DT (particularly psychopathy) are likely to show hampered self-control, which is likely to undermine eudaimonic more than hedonic well-being.

Narcissism has been found to predict an array of adaptive outcomes in previous research, which may explain its positive impact on these results, it can be concluded that conceptions of happiness mediate the relationship between the DT and global well-being. Except for eudaimonism and inflexibility, all other conceptions were significant mediators for at least one DT trait.
linkage to well-being. For example, narcissism is associated with lower neuroticism (Lahey, 2009), higher assertiveness (Samuel and Widger, 2008), self-esteem (Sedikides et al., 2004), higher likelihood of being chosen for leadership positions (Dowgwillo et al., 2016), and better dating outcomes (Jonason et al., 2010). However, the positive link between narcissism and well-being can also be looked at from two other angles. Firstly, the scale of narcissism used in this study predominantly measures the relatively adaptive features of narcissism (e.g., grandiosity and positive self-regard), leaving out more maladaptive features (e.g., exploitative and narcissistic fragility), which may inflate the associations with well-being. Secondly, narcissists show a tendency for socially desirable responding and self-enhancement biases (John and Robins, 1994; Kowalski et al., 2018), which may affect their responses to well-being questions. It remains for future research to shed further light on the nature of narcissism-well-being linkages.

The present results showed that Machiavellianism and psychopathy were associated with conceptions that undermine well-being, whereas narcissism was generally associated with conceptions that facilitate well-being. The strongest associations were found between the DT and three conceptions valuing, externality, and fear. Thus, Machiavellianism and psychopathy are linked to the cluster of beliefs that indicate a “doubtful pursuit” of happiness (Joshanloo, 2019), where happiness is valued, but is considered to be out of one's control, and to have negative consequences when achieved. A previous study also showed that callous/unemotional tendencies were associated with conceiving happiness as inflexible, uncontrollable, and external (Tullert and Plaks, 2016).

Therefore, part of the influence of the DT on well-being can be explained by their shared variance with the conceptions of well-being. The mediation analysis results (Table 6) provided broad support for the prediction that conceptions of happiness mediate the relationship between the DT and well-being. It is noteworthy that although the results of the mediation analyses (Table 6) indicate that transformative suffering is a positive pathway to well-being from all DT traits, in the regression analysis reported above (Table 3), only narcissism had a significant relationship with transformative suffering. This is because, in each mediation analysis, only one of the DT traits was included to predict transformative suffering whereas, in the regression analysis, all three traits were included as predictors (i.e., each effect is adjusted for the other two effects). Therefore, the mediating pathway through transformative suffering for Machiavellianism and psychopathy is a weak one and does not hold if the other two traits are controlled for.

In sum, the present results indicate that people high on Machiavellianism and psychopathy do value and pursue happiness, but they have doubts about the consequences of happiness and their levels of personal control over it. It seems that these two traits prompt the individual to take a competitive approach to obtaining happiness rather than a collective and collaborative approach, where even achieving happiness may cause troubles (e.g., happiness may induce a sense of rivalry or envy in others). This cluster of beliefs is compatible with the selfish, nihilistic, and cynical aspects of the DT, accompanied by the perception that the world is a hostile and competitive place (Rauthmann and Kolar, 2013). People high on narcissism, on the other hand, endorsed more positive notions of well-being, which can partly explain narcissism's positive links with well-being.

The limitations of the study should be acknowledged. For example, given the cross-sectional nature of the study, the direction of causality between the variables could not be ascertained, and thus future longitudinal and experimental studies are certainly needed. Furthermore, in light of the cross-cultural differences reported in the levels of the DT (Jonason et al., 2020), the present results need to be replicated in other national samples before more definitive conclusions can be drawn. Despite these limitations, this study is the first to show that the DT traits are associated with beliefs surrounding well-being, and provide evidence in support of the hypothesis that people with various levels of the DT traits gravitate towards certain notions of well-being that are per se beneficial or detrimental to well-being.

DATA AVAILABILITY STATEMENT

The raw data supporting the conclusions of this article will be made available by the authors, upon reasonable request.

ETHICS STATEMENT

The studies involving human participants were reviewed and approved by The Institutional Review Board of Keimyung University. The patients/participants provided their written informed consent to participate in this study.

AUTHOR CONTRIBUTIONS

The author confirms being the sole contributor of this work and has approved it for publication.

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SUPPLEMENTARY MATERIAL

The Supplementary Material for this article can be found online at: https://www.frontiersin.org/articles/10.3389/fpsyg.2021.643351/full#supplementary-material
REFERENCES

Aghababaei, N., and Blachnio, A. (2015). Well-being and the Dark Triad. Pers. Individual Diff. 86, 365–368. doi: 10.1016/j.paid.2015.06.043

Aminuddin, N. A. (2020). Personality and Islamic religiosity: preliminary survey data of Brunetian Malay Muslim university students and their psychological well-being, unethical behavior, and dark triad traits. Data Brief 30:105486. doi: 10.1016/j.dib.2020.105486

Brand, S., Sabouri, S., Gerber, M., Sadeghi Bahmani, D., Lemola, S., Clough, P., et al. (2016). Examining Dark Triad traits in relation to mental toughness and physical activity in young adults. Neuropsychiatr. Dis. Treat. 12, 229–235. doi: 10.2147/ndt.97267

Diener, E. D., Emmons, R. A., Larsen, R. J., and Griffin, S. (1985). The satisfaction with life scale. J. Pers. Assess. 49, 1–75.

Douglas, S. P., and Craig, C. S. (2007). Collaborative and iterative translation: an alternative approach to back translation. J. Int. Market. 15, 30–43. doi: 10.1007/jmink.15.0300

Egan, V., Chan, S., and Shorter, G. W. (2014). The Dark Triad, happiness and subjective well-being. Pers. Individual Diff. 67, 17–22. doi: 10.1016/j.paid.2014.01.004

Furnham, A., Richards, S. C., and Paulhus, D. L. (2013). The Dark Triad of personality: a 10 year review. Soc. Pers. Psychol. Compass 7, 199–216. doi: 10.1111/j.1750-483X.2012.012018

Gallagher, M. W., Lopez, S. J., and Preacher, K. J. (2009). The hierarchical structure of well-being. J. Pers. 77, 1025–1050. doi: 10.1111/j.1467-6494.2009.00573.x

Giacomini, M., and Jordan, C. H. (2016). Self-focused and feeling fine: assessing state narcissism and its relation to well-being. J. Res. Pers. 63, 12–21. doi: 10.1016/j.jrp.2016.04.009

Hayes, A. F. (2017). Introduction to Mediation, Moderation, and Conditional Process Analysis: A Regression-Based Approach. New York, NY: The Guilford Press.

John, O. P., and Robins, R. W. (1994). Accuracy and bias in self-perception: individual differences in self-enhancement and the role of narcissism. J. Pers. Soc. Psychol. 66, 206–219. doi: 10.1037/0022-3514.66.1.206

Joshanloo, M., Jovanović, V., and Park, J. (2021). Differential relationships of hedonic and eudaimonic well-being with self-control and long-term orientation. Japanese Psychol. Res. 63, 47–57. doi: 10.1111/jpr.12279

Joshanloo, M., Lepshokova, Z. K., Panyushcheva, T., Natalia, A., Poon, W. C., Yeung, W. W. L., et al. (2014). Cross-cultural validation of fear of happiness scale across 14 national groups. J. Cross Cultural Psychol. 45, 246–264.

Joshanloo, M., Weijers, D., Jiang, D. Y., Han, G., Bae, J., Pang, J. S., et al. (2015). Conceptions of happiness and life satisfaction: an exploratory study in 14 national groups. Pers. Individual Diff. 102, 145–148. doi: 10.1016/j.paid.2016.06.065

Joshanloo, M., Lepshokova, Z. K., Natalia, A., Poon, W. C., Sundaram, S., et al. (2016). Conceptions of happiness and life satisfaction: an exploratory study in 14 national groups. Pers. Individual Diff. 102, 145–148. doi: 10.1016/j.paid.2016.06.065

Kajonius, P. J., Persson, B. N., and Jonason, P. K. (2015). Hedonism, achievement, and power: universal values that characterize the Dark Triad. Pers. Individual Diff. 77, 173–178. doi: 10.1016/j.paid.2014.12.055

Keyes, C. L. (2006). Mental health in adolescence: is America’s youth flourishing? Am. J. Orthopsychiatry 76, 395–402.

Kowalski, C. M., Rogoza, R., Vernon, P. A., and Schmerer, J. A. (2018). The Dark Triad and the self-presentation variables of socially desirable responding and self-monitoring. Pers. Individual Diff. 120, 234–237. doi: 10.1016/j.paid.2017.09.007

Lahey, B. B. (2009). Public health significance of neuroticism. Am. Psychol. 64, 241–256. doi: 10.1037/a0015309

Lau, K. S. L., and Marsee, M. A. (2012). Exploring narcissism, psychopathy, and machiavellianism in youth: examination of associations with antisocial behavior and aggression. J. Child Family Stud. 22, 355–367. doi: 10.1007/s10826-012-9586-0

Limone, P., Sinatra, M., and Monacis, L. (2020). Orientations to happiness between the Dark Triad traits and subjective well-being. Behav. Sci. 10:90. doi: 10.3390/bs10050090

Mauss, I. B., Tamir, M., Anderson, C. L., and Savino, N. S. (2011). Can seeking happiness make people unhappy? Paradoxical effects of valuing happiness. Emotion 11:807.

Mroczek, D. K., and Kolarz, C. M. (1998). The effect of age on positive and negative affect: a developmental perspective on happiness. J. Pers. Soc. Psychol. 75, 1333–1349.

Papageorgiou, K. A., Benini, E., Bilello, D., Gianniuo, F., Clough, P. J., and Costantini, G. (2019). Bridging the gap: a network approach to Dark Triad, Mental Toughness, the Big Five, and perceived stress. J. Pers. 87, 1250–1263. doi: 10.1111/jpss.12472

Paulhus, D. L., and Williams, K. M. (2002). The Dark Triad of personality: narcissism, Machiavellianism, and psychopathy. J. Res. Pers. 36, 556–563. doi: 10.1006/jrpe.2001.0092-6566(02)00505-6

Rauthmann, J. F., and Kolar, G. P. (2013). Positioning the dark triad in the interpersonal circumplex: the friendly–dominant narcissist, hostile–submissive Machiavellian, and hostile–dominant psychopath? Pers. Individual Diff. 54, 622–627.

Samuel, D. B., and Widiger, T. A. (2008). Convergence of narcissism measures from the perspective of general personality functioning. Assessment 15, 364–374. doi: 10.1177/1073191108314278

Schermmer, J. A., and Jones, D. N. (2020). The behavioral genetics of the dark triad core versus unique trait components: a pilot study. Pers. Individual Diff. 154:109701. doi: 10.1016/j.paid.2019.109701

Sedikides, C., Rudich, E. A., Gregg, A. P., Kumashiro, M., and Rusbult, C. (2004). Are normal narcissists psychologically healthy? Self-esteem matters. J. Pers. Soc. Psychol. 87, 400–416. doi: 10.1037/1040-3511.87.3.400

Tillet, A. M., and Plaks, J. E. (2016). Testing the link between empathy and lay theories of happiness. Pers. Soc. Psychol. Bull. 42, 1505–1521. doi: 10.1177/014676701560592

Wang, J., Li, T., Wang, K., and Wang, C. (2018). Patience as a mediator between the dark triad and meaning in life. Appl. Res. Q. Life 14, 527–543. doi: 10.1007/s11482-018-9627-y
Zajenkowski, M., and Czarna, A. Z. (2015). What makes narcissists unhappy? Subjectively assessed intelligence moderates the relationship between narcissism and psychological well-being. Pers. Individual Diff. 77, 50–54. doi: 10.1016/j.paid.2014.12.045

Zeigler-Hill, V. E., and Marcus, D. K. (2016). The Dark Side of Personality: Science and Practice in Social, Personality, and Clinical Psychology. Washington, D.C: American Psychological Association.

Zettler, I., Moshagen, M., and Hilbig, B. E. (2020). Stability and change: the dark factor of personality shapes dark traits. Soc. Psychol. Pers. Sci. doi: 10.1177/1948550620953288

**Conflict of Interest:** The author declares that the research was conducted in the absence of any commercial or financial relationships that could be construed as a potential conflict of interest.

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