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Carter, Gregory and Douglass, Melanie

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Running Head: AGE, LONELINESS AND NARCISSISM

The ageing Narcissus: Just a myth? Narcissism and loneliness in older ageNarcissism

moderates the age-loneliness relationship in older age

Abstract

Objective: Recent research has indicated that sub-clinical narcissism may be related to positive outcomes in respect of mental and physical health, and is positively related to an extended lifespan. Research has also indicated narcissism levels may decline over the lifespan of an individual. The aims of the present study were to investigate these issues, exploring age-related differences in levels and outcomes of narcissism. Specifically, narcissism's relationship with loneliness, a deleterious but pervasive state among older-age individuals, was assessed.

Method: 100 middle-aged ($M_{AGE} = 48.07$; SD = 5.27; 53% female) and 100 older-aged participants ($M_{AGE} = 70.89$; SD = 5.97; 51% female) completed the 40-item Narcissistic Personality Inventory and the UCLA Loneliness Scale, Version 3.

Results: Older-age participants had significantly lower levels of narcissism, and significantly higher levels of loneliness than middle-aged participants. Age was negatively correlated within the older aged, but not middle aged group. Age and narcissism significantly predicted <u>self</u>-reported loneliness levels, with narcissism moderating the relationship between age and loneliness.

Conclusions: This study supports existing work, indicating that a degree of narcissism supports is of benefit to normal psychological functioning in respect of age-related loneliness, and is found to be a protective factor in mental health.

Keywords: Narcissism, Loneliness, Age, Mental health, Adaptation

1 1. Introduction

Sub-clinical narcissism is operationally defined as 'self-admiration that is 2 characterized by tendencies toward grandiose ideas, fantasied talents, exhibitionism, and 3 defensiveness in response to criticism; interpersonal relationships... characterized by feelings 4 of entitlement, exploitativeness, and a lack of empathy' (Raskin & Terry, 1988, p. 896). Some 5 psychologists have considered the trait to be maladaptive (Freud, 1914; Kernberg, 1975; 6 Washburn, McMahon, King, Reinecke, & Silver, 2004), and there are undoubtedly 'costs' 7 associated with the trait. These include difficulty in maintaining relationships (social and 8 9 romantic) over time (Campbell, Bush, Brunell, & Shelton, 2005; Rauthman, 2012). However, recent evidence has linked narcissism to a number of 'bright' outcomes. Narcissism is related 10 to positive impression formation (Back, Schmuckle, & Egloff, 2010), and an outgoing social 11 12 style (Holtzman, Vazire, & Mehl, 2010). Other benefits are related to evolutionary 'fitness': increased levels of lifetime sexual partners (Holtzman & Strube, 2012), achieving status in 13 hierarchical environments (Maccoby, 2000; Rosenthal & Pittinsky, 2006), and a longer 14 lifespan with good emotional, psychological and social well-being, and good mental health 15 (Jonason, Baughman, Carter, & Parker, 2015). The present study explores the relationship 16 between narcissism and a specific, deleterious mental state - loneliness - experienced by 17 many in older age, and related to depression and higher levels of suicide (Battegay & 18 Mullejans, 1992; Heisel, Links, Conn, van Reekum, & Flett, 2007; Singh, 2015). Existing 19 20 evidence suggests narcissism decreases with age (Foster, Campbell & Twenge, 2003); the opposite is true of loneliness (Routasalo, Savikko, Tilvis, Strandberg, & Pitkala, 2006). The 21 relationship between the two, and whether narcissism's evolutionarily beneficial effects 22 23 extend to 'protect' against loneliness are explored in the present study.

Historically, approaches to conceptualising and studying narcissism were largely psychodynamic or psychoanalytical (Freud, 1914; Kohut, 1966). Nevertheless, there was a

lack of consensus as to a singular, definitive classification of the concept (see Consoling, 26 1999). Decades of clinical, observational work ultimately led to the inclusion of a definition 27 of narcissism in the third edition of the Diagnostic and Statistics Manual as a lack of empathy 28 accompanied by a pervasive pattern of grandiosity (in fantasy or behaviour) and a need for 29 admiration (American Psychiatric Association, 1980). Narcissism was later classified as a 30 discrete disorder (a 'Cluster B Personality Disorder') in the DSM-IV, according to the criteria 31 of possessing a grandiose sense of self-importance; a preoccupation with fantasies of 32 unlimited success, power, brilliance, beauty, or ideal love; a belief that he or she is 'special' 33 34 and 'unique'; a requirement for excessive admiration; and a sense of entitlement. Over a similar period to these developments, Raskin and Hall (1979) created the Narcissistic 35 Personality Inventory (NPI). Later refined by Raskin and Terry (1988), the NPI is considered 36 37 the genesis of a different approach to the trait. The NPI provided the impetus to view narcissism from a quantitative, empirical, and social-personality point of view, and to define 38 and explore a sub-clinical level of the character trait (Miller & Campbell, 2008). 39

Although associated with multiple adverse attitudes and behaviours, evolutionary 40 psychologists have recently appraised narcissism in respect of the benefits that high levels of 41 the trait confer, as well as its costs. Holtzman and Strube (2012) suggest the charm, self-42 adornment and unrestricted sociosexuality associated with the trait facilitate a successful 43 short-term mating strategy. Paunonen, Lönnqvist, Verkaslo, Leikas, and Nissinen (2006) 44 found that the egotism and self-esteem aspects of narcissism were associated with other-rated 45 leadership potential. Jonason et al. (2015) found that narcissism was related to living longer, 46 and to feelings of hope, self-esteem and psychological well-being. Jonason et al. argued that 47 this was an example of the adaptive benefits that narcissism yields; in particular, and that the 48 positive mental health outcomes, in particular, were a result of narcissistic individuals' 49 extraversion and sociability,. This was proposed to partly stemming from their-narcissistic 50

individuals' need for others to admire and lavish attention on them. 51

52

Narcissism and age

Despite myriad empirical studies exploring the trait's correlates and outcomes, little 53 attention has focused on the relationship between narcissism and age. In particular, there is a 54 paucity of work on narcissism involving older-age participants: most studies have been 55 conducted with student- or early-middle-aged participants. A recent meta-analysis of 355 56 studies (N = 470,856) reported that the upper end of the age range of participants was 55 57 years old (Grijalva et al., 2015). Among the few authors who have reflected on narcissism in 58 59 later life, most have adopted case-study approaches (Jovic, 1986; Becker, 2006). Even the Berlin Ageing Study (BASE; Lindenburger, Smith, Mayer, & Baltes, 2010), a large-scale 60 study that investigated the mental health and psychological functioning of older-age 61 participants (aged 70-100), did not address the issue, despite its focus on sub-diagnostic 62 psychopathology, and self and personality concepts. 63

Where studies have been conducted on this topic, researchers have noted that 64 increasing age can affect narcissistic tendencies, relating to typically contemporaneous 65 changes to an individual's role in the world (Wheelock, 1997). These changes may 66 encompass a lessening of authority and responsibility, and even a loss of independence 67 (Danko, Arnaud, & Gely-Nargeot, 2009). Researchers have proposed that this creates 68 'narcissistic injury' (Wheelock) and induces a 'narcissistic crisis' (Teising, 2008). Changes in 69 70 self-perception are particularly deleterious to narcissism, particularly regarding sentiments of self-admiration, fantasied talents and exhibitionism. Societal views of the age group to which 71 one belongs greatly affects individuals (Danko et al.). Battegay and Mullejans (1992) 72 concluded that the elderly have 'less narcissism at their disposal' (p. 293); a view shared by 73 Pellerin, Pinquier and Portart (2003), who referred to 'the weakening of narcissism' (p. 89). 74 75

Supporting this, Twenge and Campbell (2008), in a large-scale (N = 3,445),

geographically and ethnically wide-ranging cross-sectional study, reported that college-aged 76 members of 'Generation Me' (p. 862) are more narcissistic than post-war 'Baby Boomers' and 77 their antecedents. Although contested by some (Trzesniewski, Donnellan & Robins, 2008), a 78 79 meta-analysis by Twenge, Konrath, Foster, Campbell, and Bushman (2008) showed that NPI scores were significantly positively correlated with the year of their recording. Other 80 available evidence (Roberts, Edmonds & Grijalva, 2010) suggests this is accurate, reflecting 81 the recession of narcissism over age, and that age, rather than cohort belonging, per se, is the 82 cause of this decline. 83

84 Extant research thus suggests narcissism decreases with age, simultaneous to a decrease in libido, self-attention, ego, and, often, socially-conventional standards of beauty 85 (Battegay & Mullejans, 1992). One of the consequences of the attenuation of narcissism may 86 87 be the issues of self-confidence that arise within some elderly individuals. Older adults can experience self-confidence issues in interpersonal interactions, particularly with unfamiliar 88 individuals. This extends to uncertainty in novel environments, or situations (Battegay & 89 Mullejans). The effect, therefore, can be a greater feeling of isolation, and a tendency to 90 withdraw from such novel people and circumstances, eliminating the social lifestyle that 91 Jonason et al. (2015) hypothesised was central to narcissism's health benefits. While 92 Battegay and Mullejans' Swiss study centres on the extreme outcomes these feelings can 93 result in (i.e., suicide), their data are nonetheless valuable in gaining an insight into a rarely-94 studied aspect of the elderly experience. Suicide levels were significantly higher for men over 95 60 (p < 0.05), with sex differences increasing in those over 70 (p < 0.01), concurrent with 96 decreased levels of narcissism (Battegay & Mullejans). The same is true of the findings of 97 Clark (1993), who suggested that, in certain cases, suicidal tendencies were brought about by 98 life-changes that relate to age, compounded by decreased levels of narcissism. Even in non-99 suicidal elderly individuals, a positive correlation between narcissism and depression has 100

been noted. Importantly, both these relationships remain when controlling for cognitive
functioning (Heisel et al., 2007). These results reflect the 'mixed-benefits' nature of the trait,
but more importantly, the link between narcissism and mental health, which we continue to
explore here.

105

Narcissism and loneliness

Narcissism can be conceived, partially, as an evolved as protectorive against some 106 negative psychological states, of which loneliness is foremostone, and from which other 107 negative psychological states subsequently stem. Wada (2000) has suggested a degree of 108 109 narcissism may be crucial (and therefore beneficial) to individuals' functioning, no less in old age than in earlier life. If narcissism declines to the extent existing literature suggests, that 110 would partly explain a predisposition towards the 'psychological vulnerability' (p. 885) often 111 112 manifest in later years. Wada suggests the degradation of narcissism levels in the elderly may, in part, be responsible for increased susceptibility to depression, which in turn 'can 113 induce various kinds of physical illness' (p. 887). This is supported by Pellerin et al. (2003), 114 and Stucke and Sporer (2002): the latter investigated the relationship between narcissism and 115 negative mental states, in terms of responses to ego threats, and found lower levels of 116 narcissism predicted negative emotionality. 117

In addition to representing a buffer against negative psychological states, the levels of 118 self-esteem and self-confidence associated with narcissism (Zeigler-Hill, Clark, & Pickard, 119 120 2008) impart a considerable, specific defence against feelings of loneliness. Sedikides, Rudich, Gregg, Kumashiro and Rusbult (2004) conducted five studies into the relationship 121 between narcissism and psychological health. The second of these found that narcissism was 122 inversely related to both daily and dispositional loneliness. Furthermore, in a longitudinal 123 study that considered clinical, anecdotal and empirical evidence, Joiner, Petty, Perez, Sachs-124 Ericsson and Rudd (2008) found that the relationship between levels of narcissism and 125

126 psychological health appears to be linear, and unidirectional.

Moreover, Taylor, Lerner, Sherman, Sage and McDowell (2003) presented evidence 127 that narcissism acts as a defence mechanism - a concomitant of good mental health - and that 128 the self-esteem and self-enhancement associated with a degree of narcissism is positively 129 correlated with developing good interpersonal relationships. Taylor and colleagues' results 130 support Battegay and Mullejans (1992), who recorded a concurrent reduction in narcissism 131 and self-confidence in the elderly, particularly with regard to experiences involving others. 132 Avoidance of social interactions likely results in increased feelings of isolation and 133 134 loneliness, further exacerbated over time, in the manner of a feedback loop (see also Rainer & Martin, 2012). Finally, in a series of Finnish studies, Kalliopuska (2008) reported links 135 between low levels of narcissism and high levels of shyness, leading to feelings of isolation. 136 137 This further supports the relationship between social isolation and loneliness. Interpersonal skills, socialisation patterns, and social support have also been implicated in an individual's 138 vulnerability to developing, as well as recovery from, depression (Bieling & Alden, 2001; 139 Billings, Cronkite, & Moos, 1983; Coyne, 1976; Joiner, Alfano, & Metalsky, 1992), in a 140 similar feedback loop. Other studies have found comparable results, noting that depression -141 which, as established, is a greater risk to those with lower levels of narcissism - and other 142 'hardships originating from ageing' (p. 223), were causally related to loneliness (Routasalo et 143 al., 2006). 144

Evolutionary psychologists have proposed that individual differences in personality both 'create' and 'solve' problems (e.g., Buss, 1993). This argument has been made in respect of narcissism and short-term mating (Holtzman & Strube, 2012); evidence suggests it may be true of narcissism and loneliness. Through an aversion to several harmful health behaviours, whether or not the motivation is to maintain attractiveness, narcissism is related to a comparatively healthy lifestyle and increased longevity (Jonason et al., 2015; Hudek-

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151 Knežević, Kardum, & Mehić, 2016). To the extent that older age engenders loneliness,

152 narcissism may additionally function to 'solve' this costly outcome.

153

The present study

As narcissism declines with age, and loneliness increases, the design of the present 154 study measures both of these in a targeted sample of middle- and older-age participants. The 155 selection of tests to be used in the current project was informed by existing literature. The 156 design required a measure of narcissism, a measure of loneliness, and a screening test to 157 assess cognitive function in participants, to ensure that inventory items were understood. 158 159 Samuel and Widiger (2008) compared five narcissism scales with a range of conceptualisations of sub-clinical narcissism, and found more empirical support for the NPI 160 as a measure of sub-clinical narcissism than any other inventory, in accordance with the 161 theories of Paulhus (2001). NPI items assess extroversion, dominance, independence, self-162 esteem, and self-importance (Corry, Merritt, Mrug, & Pamp, 2008). In addition, the NPI is 163 considered the optimum extant measure for assessing "narcissism as a psychological 164 construct in the sense of personality variable" (Ritter & Lammers, 2007, p. 55). The UCLA 165 Loneliness Scale, Version 3 (Russell, 1996) has demonstrated a high internal consistency 166 (with alpha values ranging from .89 to .94), and strong test-retest reliability (r = .73, over a 167 12-month period) (Shaver & Brennan, 1991). It has also been used successfully with elderly 168 populations (Cutrona, Russell, & Rose, 1986). To screen for shortcomings in cognitive 169 170 functions that may result from older age (Crook, Bartus, Ferris, Whitehouse, Cohen, & Gershon, 1986), the Mini-Cog Test was selected (Borson, Scanlan, Brush, Vitaliano, & 171 Dokmak, 2000). This test was chosen as it is more sensitive to mild memory-related cognitive 172 impairments than other screening tests (a sensitivity of 76%, higher than conventional 173 neuropsychological batteries) and is quick to administer and score (Borson, Scanlan, Chen & 174 Ganguli, 2003). The primary reason for its inclusion was to ensure that all participants, across 175

age groups, had comparable cognitive functioning. This was judged important as assorted issues (including around focus and confusion) are known to increase in prevalence after the age of 65 (the mean age of participants in the older group was 70.89).

In all cases, selected measures were comparatively concise modifications of earlier versions. This minimisation of length was considered important, so as not to subject participants to fatigue and jeopardise response accuracy.

In line with theories regarding age-based differences in narcissism, and existing literature on loneliness, it was anticipated that older-aged participants would report lower levels of narcissism and higher levels of loneliness than middle-aged participants. Age was expected to be a negative correlate and predictor of narcissism and a positive correlate and predictor of loneliness. Narcissism was expected to be a negative predictor of loneliness. Given evidence regarding narcissism's protective benefits in respect of mental health, it was expected that narcissism would moderate the relationship between age and loneliness.

189 **2. Method**

190 2.1 Participants

Two hundred participants, 100 of whom were middle-aged (35-55 years old) and 100 191 of whom were older (65-85 years old) were recruited through opportunity sampling in the 192 local community. Participant age ranged from 35 to 85; the mean age of the middle-aged 193 group was 48.07 years (SD = 5.27); the mean age of the older-age group was 70.89 years (SD194 195 = 5.97). Participants aged 55-65 years were not targeted as this range is considered a nondistinct category between late middle age and early older age; the U.K. Census supports this 196 assertion (Office for National Statistics, 2001). Furthermore, the full onset of older age is not 197 typically considered to occur in the U.K. until the eligibility to retire, with benefits, which 198 currently occurs for all U.K. nationals by the age of 65. The middle-aged group comprised 47 199 male and 53 female participants; the older-aged group comprised 49 males and 51 female 200

201 participants.

202 2.2 Materials, procedure, and research design

The Mini-Cog Test (Borson et al., 2000) requires participants to remember three simple words, complete a drawing of a clock set to a specific time (10.45), then recall the words. Recall of fewer than two words and a drawing error indicates memory impairment. A positive screening would have resulted in participants' responses being marked for destruction, however, no participants screened positively for memory impairment.

To measure narcissism, participants completed the 40-item Narcissistic Personality Inventory (Raskin & Terry, 1988). Participants indicate agreement with one of two paired items – for example, "I am essentially a modest person" (non-narcissistic choice) or "Modesty does not become me" (narcissistic choice). Scores are created based on the number of narcissistic choices made. Internal consistency was good ($\alpha = .89$).

To measure feelings of loneliness, participants completed the 20-item UCLA Loneliness Scale, Version 3 (Russell, 1996). Items include 'How often do you feel you lack companionship?'; participants indicate the frequency with which they feel such states on four-point semantic difference ('never', 'rarely', 'sometimes', or 'always'). Internal consistency was good ($\alpha = .89$).

Due to the age of many participants, internet administration was not felt to be prudent. 218 Particularly when working with older-aged participants, in-person administration has been 219 recommended (Lindenburger et al., 2010), as has the use of traditional pen-and-paper 220 methods (Foster et al., 2003). Participants were supplied with a letter of introduction, 221 encompassing briefing information and a consent form. This information reminded 222 participants of their right to decline participation, and to withdraw at any point, in which case 223 any data would be destroyed. To enable withdrawal from the study, after completion of the 224 questionnaire, participants were asked to create an anonymous code and provided with the 225

experimenter's contact details to request this. Questions were then invited, before informed 226 consent was obtained. Following consent, the experimenter administered the Mini-Cog test. 227 Participants were given printed versions of NPI and UCLA Loneliness Scale to complete. 228 Written instructions were provided for each measure; no participants required additional 229 explanation, or assistance with writing their answers. Participants completed their forms in 230 private. In keeping with the nature of items comprising the NPI and UCLA Loneliness Scale, 231 particular consideration was given to participants' privacy. Participants detached consent 232 forms, and placed them in a marked envelope. Following their completion of the test 233 234 inventories, participants placed answer sheets in a separate envelope.

235 **3. Results**

All participants passed the Mini-Cog test. Descriptive statistics for participants' age,
NPI and UCLA Loneliness Scale scores are presented in Table 1.

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To assess differences between samples, t-tests were conducted on NPI and UCLA Loneliness scores between groups. Older-aged participants reported significantly lower levels of narcissism [t(198) = 7.7, p < .001] and significantly higher levels of loneliness than middle-aged participants [t(198) = 5.09, p < .001]. For both groups, males reported significantly higher narcissism scores than females (middle-aged, p < .05; older-aged, p < .01), in keeping with the majority of previous studies (Grijalva et al., 2015).

In order to test whether narcissism moderated the relationship between age and loneliness, a hierarchical linear regression was performed, first testing for the predictive utility of age alone, then age with narcissism, followed by an age-by-narcissism interaction (Aiken, West, & Reno, 1991; Pedhazur, 1997). Narcissism scores were centred before the interaction term was computed in order to control for multicolliniarity of the interaction term, which otherwise would have exceeded a VIF value of 10 (O'Brien, 1987). Due to the significant difference in narcissism scores found between male and female participants, sex was entered in the first step. All of the data met conservative measures of normality.

The hierarchical regression revealed that at stage one, age contributed significantly to 239 the regression model, F(1, 198) = 25.947, p < 0.001 and accounted for 11.1% of the variance 240 in loneliness scores. Introducing narcissism explained 14.0% of the variance in loneliness, 241 which was significant, F(2, 197) = 17.149, p < 0.001. When the interaction term between age 242 and narcissism was entered into the model, a total of 19.2% of the variance was explained, 243 which was significant, F(3, 196) = 16.761, p < 0.001. Sex did not significantly contribute to 244 the model at any stage and was therefore excluded from the analysis. The results suggest that 245 narcissism moderates the relationship between age and loneliness; a graphical representation 246 of the interaction can be found in Figure 1. 247

To explore the moderating effect of narcissism further, and to better understand the interaction between narcissism and age, correlation analyses of age and loneliness

relationship were conducted. Firstly, the full sample was tested. A significant positive correlation was found between age and loneliness r(198) = .35, p < .001. That is, older participants tended to have higher loneliness scores. Next, the correlation was re-tested, controlling for narcissism. It remained significant (positive) r(198) = .23, p < .001, but decreased in strength.

Finally, the correlation was tested within each participant group, controlling for narcissism in both cases. For the middle-aged group, the correlation was not significant r(98)= .02, p = .832. For the older-age group, the correlation was also not significant r(98) = .01, p= .947. Narcissism thus moderated the negative relationship between age and loneliness in <u>both middle-aged and older-age participants</u>. Within groups, results did not differ significantly by sex.

4. Discussion

The results of the current study supported the hypotheses. Narcissism was lower in older-aged participants compared with middle-aged participants. Age was negatively correlated with, and negatively predicted narcissism, but was positively correlated with, and positively predicted loneliness. Narcissism was a negative correlate and predictor of loneliness. Narcissism also moderated the relationship between age and loneliness.

A lower level of narcissism in older individuals is in line with the conclusions of the limited number of studies that have previously explored this issue (Twenge & Campbell, 2008; Danko et al., 2009). The present study therefore reinforces existing evidence contradicting case studies that associate later life with increased narcissism (e.g., Peruchon, 2004). With regard to the potential effect of cohort (i.e., generational) membership (Trzesniewski et al, 2008; Roberts et al., 2010), correlation results bear scrutiny. Within 35-55 year olds (the middle-aged group), there was no significant relationship between narcissism and age, indicating no decline in narcissism across these years. However, 65 appears to be a threshold at which this relationship becomes significant. It therefore seems cohort membership is important, but only in so far as it reflects chronological age. This may be an effect of the substantial change in individuals' lives and roles that typically occur after retirement (Wheelock, 1997; Danko et al., 2009). However, in respect of narcissism in relation to generational belonging, recent evidence from the Berlin Ageing Study (Hülür et al., 2016) has indicated that the BASE II cohort, studied 2013-2014, reported significantly lower levels of loneliness than the 1990-1993 cohort. If Roberts and colleagues' (2010) assertion is correct in that each generation is "more narcissistic than their elders" (p. 97), this may be reflected in the findings of the BASE results (Hülür et al.) and the current study. BASE does not presently record narcissism levels; this could be considered in the future.

A higher level of loneliness in older individuals is also in keeping with existing

literature (Routasalo et al., 2006). In contrast to the negative relationship between age and narcissism, age and loneliness are positively related in older-aged individuals. As with narcissism, this finding indicates that levels of loneliness remain relatively stable over middle-age, suggesting that loneliness is not a typical experience for this age group. Beyond 65, however, individuals are increasingly likely to feel lonely. This may be explained by the often decreased levels of socialising on the part of many older individuals (Kalliopuska, 2008), and the possible loss of close friends and even spouses (Teising, 2008). Higher levels of narcissism may provide one of several buffers against loneliness, in that individuals with higher levels of the trait are likely to continue to seek social interaction (Holtzman et al., 2010), even if only to seek attention.

That narcissism significantly moderated the relationship between age and loneliness in older-aged participants supports previous research on the protective effects that narcissism can impart (Hudek-Knežević, et al., 2016; Jonason et al., 2015), including in later life (Taylor et al., 2003; Zeigler-Hill et al., 2008). Higher levels of narcissism do impart a defence against certain negative mental states – implying that a degree of narcissism should indeed be seen as beneficial in this respect, and a contributing factor to good psychological health (Jonason et al., 2015). Additionally, narcissism is associated with multiple reasons to form friendships (Jonason & Schmitt, 2012), in turn increasing the likelihood of being able to draw on valuable social support (e.g., Cohen & Wills, 1985), offsetting loneliness, stress, and other negative mental states.

Limitations and future research

While the current study does extend knowledge regarding narcissism's relationship with age, it is cross-sectional. Longitudinal research would enhance comprehension of this relationship, especially in respect of the importance of age as compared with generational belonging. In addition, the present study depends on self-report data, which is another

<u>limitation.</u>-We hope the present study may act as a catalyst for <u>such-additional</u> work to be undertaken. Some preliminary work of <u>this-a longitudinal</u> nature has been undertaken with a younger sample (Carlson & Gjerde, 2009), but no such study has yet been presented including participants of middle- or older-age.

Future work could also consider other variables that may account for the association between narcissism and loneliness – such as self-esteem, extraversion, sociability and neuroticism. Whilst the NPI does tap these most of these traits (bar neuroticism; Miller et al., 2008), inclusion of explicit measures to assess them may be enlightening. It is also important that the research investigate the importance of such factors in predicting loneliness in older age. Given the distinction between aloneness and loneliness, there are likely to be complex interactions of factors contributing to this relationship. This research represents only a first step in exploring this issue.

In addition, the measurement inventories selected for the current study's questionnaire are not without fault. Miller and Campbell (2008) have suggested that there are problems within the current conceptualisation of sub-clinical narcissism as measured by the NPI. Namely, these are that it primarily captures the antagonistic, conscientious and extraverted components of the trait, but functions less well in capturing neurotic facets. Moreover, several items on Raskin and Terry's (1988) NPI are explicitly future-oriented. These include 'I will be a success', 'I want to amount to something in the eyes of the world', and 'I am going to be a great person'. These may be inherently difficult for older-age individuals to endorse. The average lifespan in the United Kingdom is 77.2 years for males and 81.6 years for females (U.N. World Population Prospects Revision, 2007). Moreover, as these statements are in the future tense, these statements may cause a comparison between one's present self and one's future or ideal self. Research has shown that older adults perceive less discrepancy between their actual and ideal selves (Ryff, 1991). Moreover, in comparison with young and

middle-aged adults, they perceive more stability in their personality across their past, present, and future selves (Ryff). This implies that they do not envisage changes in, for instance, 'successfulness' in the future, and therefore may prevent them from endorsing these statements, which make up 10% of the NPI. In addition, they may have already achieved major life goals, and may consider themselves to have reached peak success, which would further hinder their ability to endorse these statements. Therefore, assessing narcissistic tendencies in individuals of or over these ages with such times may be flawed.

Increasingly, psychometric research is utilising item-response theory analyses, such as Mokken analysis (Mokken, 1971), to assess personality tests as participants respond to them. Some research has already been undertaken on a short narcissism subscale of a popular measure that assesses the Dark Triad of narcissism, Machiavellianism and psychopathy (Paulhus & Williams, 2002; Carter, Campbell, Muncer, & Carter, 2015). Similar scrutiny should be applied to the NPI, and other measures, especially where the study of individuals of substantially different ages is desirable. Items may need to be revised to ensure parity in item perception and response likelihood.

Relatedly, the independent yet overlapping traits comprising the Dark Triad share multiple correlates. Although they differ in respect of positive health and mental-health related outcomes (Jonason et al., 2015; Hudek-Knežević, 2016), measuring all three traits simultaneously increases confidence that conclusions regarding any of the traits are best attributed to that, and not another component of the Dark Triad (Furnham, Richards, Rangel, & Jones, 2014).

Conclusion

The evidence from this study supports existing work indicating that a degree of narcissism supports normal psychological functioning. To this extent, narcissism appears to both 'create' and 'solve' at least some issues related to longevity. Increasing levels of

narcissism in subsequent generations may be an on-going adaptive response to the longer lives that each generation, at least in many countries, can expect to have. The issue of changing levels of narcissism across the lifespan is undoubtedly complex; further research is needed to better understand the issue, and how it affects individuals in later life. Evidence has shown that narcissism is important to mental health, including loneliness, which has in turn been linked to other psychological issues, including an increased rate of suicide in the olderaged. Even in non-suicidal older-age individuals, a positive correlation between narcissism and depression has been noted. It is, therefore, extremely critical for the mental health of a large portion of the population that this issue is better-understood. In order to accurately assess narcissism in order age, revisions to existing inventories may be needed. In conclusion, this study increases the weight of evidence that recognises the importance of narcissism as a protective factor in mental health and adds to calls for the relationship between age and narcissism to come under greater scrutiny – it is a long overdue reflection.

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	Minimum		Maximum		Mean (SD)	
	Middle-	Older-	Middle-	Older-	Middle-age	Older-age
	age	age	age	age		
Age (years)	35	65	55	83	48.07 (5.27)	70.89 (5.97)
NPI score	6	0	30	23	15.92 (5.13)	10.09 (5.57)
UCLA score	24	28	54	68	39.80 (7.64)	46.20 (9.97)

Age, Narcissistic Personality Inventory and UCLA Loneliness Scale scores