



Brief research report

Body image and personality among British men: Associations between the Big Five personality domains, drive for muscularity, and body appreciation

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ABSTRACT

The present study examined associations between the Big Five personality domains and measures of men's body image. A total of 509 men from the community in London, UK, completed measures of drive for muscularity, body appreciation, the Big Five domains, and subjective social status, and provided their demographic details. The results of a hierarchical regression showed that, once the effects of participant body mass index (BMI) and subjective social status had been accounted for, men's drive for muscularity was significantly predicted by Neuroticism ($\beta = .29$). In addition, taking into account the effects of BMI and subjective social status, men's body appreciation was significantly predicted by Neuroticism ($\beta = -.35$) and Extraversion ($\beta = .12$). These findings highlight potential avenues for the development of intervention approaches based on the relationship between the Big Five personality traits and body image.

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Introduction

Emerging consensus among differential psychologists suggests that personality characteristics can be organised in terms of five broad trait domains (John, Naumann, & Soto, 2008). Specifically, the Big Five – Openness to Experience, Conscientiousness, Extraversion, Agreeableness, and Neuroticism – are higher-order clusters that are thought to capture much of the variability in personality traits (John & Srivastava, 1999). There is robust evidence to suggest that these domains predict individual differences in a wide range of settings, including mental and physical health, work performance, and academic success (John, Robins, & Pervin, 2008). In addition, there is evidence that the Big Five domains are associated with corporeal experiences, including disordered eating (e.g., McLaren & Best, 2009).

A growing body of research has further highlighted associations between personality, Neuroticism in particular, and body image. For example, women who score more highly on Neuroticism have poorer appearance evaluation (e.g., Davis, Dionne, & Shuster, 2001; Kvaem, von Soest, Roald, & Skolleborg, 2006),

greater dissatisfaction with facial appearance (Thomas & Goldberg, 1995), higher weight preoccupation (Davis, Shuster, Blackmore, & Fox, 2004), lower body appreciation (Swami, Hadji-Michael, & Furnham, 2008; Swami et al., 2013), and greater actual-ideal weight discrepancy (Swami, Taylor, & Carvalho, 2011; Swami et al., 2013). In explanation, it has been proposed that individuals who score highly on Neuroticism are more likely to experience negative emotional states and to become easily dissatisfied, which places them at risk for negative body image (Swami et al., 2013). In addition, individuals who score highly on Neuroticism may also be more sensitive to appearance evaluation and rejection, which heightens drives to attain ideals of beauty, which in turn places them at risk for negative body image.

One limitation of this body of research is the focus on body image among women, to the relative exclusion of men. This is important because, in contrast to the drive for thinness reported among most women, men tend to endorse simultaneous desires to reduce body fat and to increase muscle mass. It is relative to a muscular ideal that many men manage their corporeal cognitions and behaviours (Thompson & Cafri, 2007). For example, studies consistently show that men score higher on drive for muscularity than women and that higher drive for muscularity in men is associated with symptoms of poorer mental health (McCreary, 2007). Among men, Neuroticism may influence drive for muscularity: one previous study reported that Neuroticism predicted drive for muscularity, but did not moderate the effect of other

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psychological variables (e.g., perfectionism; Davis, Karvinen, & McCreary, 2005).

Even so, there are a number of ways in which current knowledge can be extended. First, Davis et al. (2005) only included a measure of Neuroticism and, as such, it remains unclear whether other Big Five domains are associated with men's drive for muscularity. Certainly, among women, greater Extraversion has been associated with stronger dissatisfaction with facial appearance (Thomas & Goldberg, 1995), but also more positive appearance evaluation (Kvalem et al., 2006), more positive body appreciation (Swami et al., 2008, 2013), and lower actual-ideal weight discrepancy (Swami et al., 2013). In addition, at least one study has reported a positive, albeit weak, association between Agreeableness and body appreciation among women (Swami et al., 2013). Thus, examining direct associations between the Big Five domains and men's drive for muscularity remains an important step for further research.

Second, although drive for muscularity is the dominant way in which men's body image has been conceptualised, it should not obscure other relevant indices. For example, body appreciation refers to positive attitudes towards the body and is known to be higher among men compared with women (Tylka, 2013). Furthermore, although body appreciation is negatively correlated with drive for muscularity (Campana, Tavares, Swami, & da Silva, 2013), the two constructs should not simply be considered polar opposites. Rather, body appreciation offers a means of conceptualising men's body image in ways that go beyond indices of dissatisfaction. Furthermore, it is unclear in what ways men's body appreciation is associated with the Big Five domains.

In the present study, therefore, we examined associations between the Big Five domains, men's drive for muscularity, and body appreciation. By including measures of both drive for muscularity and body appreciation in the present work, we were able to examine the predictive power of the Big Five traits in relation to two different, albeit related, aspects of men's body image. Based on the above review, we predicted that Neuroticism would be positively associated with drive for muscularity and negatively associated with body appreciation. Although we did not expect robust associations between these body image variables and other Big Five traits, we nevertheless included the latter in our analyses.

Method

Participants

Participants of this study were 509 men recruited from the community in London, UK, and ranging in age from 18 to 59 years ($M = 25.18$, $SD = 8.28$). Participants' mean self-reported body mass index (BMI) was 24.01 ($SD = 4.90$). Most participants were of British White ancestry (73.1%), whereas 19.3% were of Asian descent, and 7.7% were of African Caribbean descent. In terms of educational qualifications, 36.0% had completed minimum secondary education, 28.3% were still in full-time education, 17.7% had an undergraduate degree, 7.5% had a postgraduate degree, and the remainder had some other qualification.

Measures

Drive for muscularity. We used McCreary and Sasse's (2000) Drive for Muscularity Scale (DMS), which consists of 15 items that tap an individual's desire to have a more muscular body. Items were rated on a 6-point Likert-type scale (1 = *Always*, 6 = *Never*) and were reverse-coded so that higher scores represent greater drive for muscularity. Although scores on the DMS have been shown to have a two-factor lower-order structure representing attitudinal and behavioural dimensions, the two subscales also load onto

a single higher-order dimension (e.g., McCreary, Sasse, Saucier, & Dorsch, 2004). Likewise, in the present study, the two subscale scores were strongly correlated ($r = .51$) and we therefore computed a total DMS score by computing the mean of all 15 items. McCreary (2007) reported that the total DMS score has acceptable reliability and good construct, convergent, and discriminant validities. In the present study, Cronbach's α for this measure was .92.

Body appreciation. We measured body appreciation using the Body Appreciation Scale (BAS) developed by Avalos, Tylka, and Wood-Barcalow (2005). This is a 13-item measure that taps multiple aspects of positive body image and on which items are rated on a 5-point Likert-type scale (1 = *Never*, 5 = *Always*). An overall score was computed as the mean of all 13 items, with higher scores reflecting more positive body appreciation. Among Western men, BAS scores have been shown to have a one-dimensional structure and demonstrate measurement equivalence between women and men (Tylka, 2013). In addition, the measure has been shown to have good psychometric properties among men, including good internal consistency and convergent validity (Swami et al., 2008; Tylka, 2013). In the present work, Cronbach's α for the BAS was .88.

Big Five domains. Participants completed the Neuroticism-Extraversion-Openness-Five-Factor Inventory (NEO-FFI; Costa and McCrae, 1992), which is a 60-item measure of the Big Five at the domain level. Each Big Five domain was measured on 12 items, which were rated for agreement on a 5-point Likert-type scale (1 = *Strongly disagree*, 5 = *Strongly agree*). Domain scores were computed as the mean of items associated with each factor. Costa and McCrae (1992) provided extensive evidence of the NEO-FFI's reliability and validity. Here, Cronbach's α for all five domains were $>.75$.

Subjective social status. We included a measure of subjective social status, namely the McArthur Ladder of Subjective Social Status (MLSS; Adler, Epel, Castellazzo, & Ickovics, 2000). This is a measure of social status presented as a 'social ladder' and in which participants are asked to select the rung that best describes the perceived social status. Scores range from 1 to 10, with higher scores representing higher subjective social status.

Demographics. Participants were asked to report their demographics, consisting of age, ethnicity, educational qualifications, height, and weight (the latter two used to compute self-reported BMI as kg/m^2).

Procedure

Ethics approval for this study was obtained from the relevant university ethics committee. Recruitment was conducted on an opportunistic basis in several public locations in Greater London by six researchers. Once participation had been agreed, participants provided written informed consent and completed an anonymous paper-and-pencil version of the survey in a quiet location set up for the purposes of the project. The order of presentation of the scales was semi-randomised, with demographic items always appearing last. All participants took part on a voluntary basis and were not remunerated for participation. Upon returning their survey to the researchers, participants were provided with a debriefing sheet.

Results

Missing data (<2% of the total dataset) were replaced using the mean replacement technique. Descriptive statistics for, and bivariate correlations between, all variables are reported in Table 1. As can be seen, drive for muscularity was significantly and positively correlated with Neuroticism and with participant BMI. On the other hand, body appreciation was significantly and negatively correlated

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