



## Associations between schizotypy and belief in conspiracist ideation



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### ABSTRACT

Previous studies have reported associations between conspiracist ideation and domain-level facets of schizotypy, but less is known about associations with lower-order facets. In the present study, 447 adults completed measures of conspiracist ideation and the Schizotypal Personality Questionnaire (SPQ), consisting of nine subscales grouped into four domains. Results of a multiple regression showed that two domains of the SPQ significantly predicted conspiracist ideation, but multicollinearity was a limiting factor. In a second regression, we found that the subscales of Odd Beliefs or Magical Thinking and Ideas of Reference significantly predicted conspiracist ideation, without any multicollinearity constraints. We interpret these results as implicating two specific lower-order facets of schizotypy in belief in conspiracy theories. We further contrast the present results with previous studies indicating associations between conspiracist ideation and paranormal beliefs.

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### 1. Introduction

A conspiracy theory usually refers to a subset of false narratives in which the ultimate cause of an event is believed to be due to a malevolent plot by multiple actors working together (Swami & Furnham, 2014). Studies have suggested that belief in conspiracy theories are widespread (e.g., Goertzel, 1994), which is of concern because they have the potential to sow civic discord and public mistrust (Swami & Coles, 2010). In response, a new psychology of conspiracy theories has developed over the past several years, incorporating multiple perspectives spanning cognitive to differential psychology (for reviews, see Swami & Coles, 2010; Swami & Furnham, 2014).

A key focus of this work has been to problematise the traditional view that conspiracist ideation is the product of individual or collective psychopathology. Rather, conspiracy theories are now viewed as a subset of false beliefs that help individuals make sense of phenomena that are incomprehensible or beyond one's control (Swami & Furnham, 2014); that is, they are rational attempts to deal with the psychological feelings triggered by complex phenomena. Even so, this perspective does not rule out the possibility that conspiracist ideation, measured as a differential trait, will be associated with psychopathological indices, particu-

larly those that point to underlying paranoia or delusional thinking (Swami et al., 2011).

In support of this perspective, researchers have recently begun examining associations between conspiracist ideation and traits such as paranoid ideation, superstitious beliefs, magical ideation, and belief in the paranormal (Brotherton, French, & Pickering, 2013; Bruder, Haffke, Neave, Nouripannah, & Imhoff, 2013; Darwin, Neave, & Holmes, 2011; Stieger, Gumhalter, Tran, Voracek, & Swami, 2013; Swami et al., 2011). In addition, three studies have reported significant associations between conspiracist ideation and schizotypal personality disposition (Bruder et al., 2013; Darwin et al., 2011; Swami et al., 2013). Schizotypy is believed to refer to one's proneness to schizophrenia and holds that there is a continuum of cognitive, perceptual, and affective characteristics and experiences ranging from normal dissociative states to extreme states (Claridge, 1997). In explanation, it has been suggested that the relationship is a function of schizotypal individuals being more open to arguments in support of conspiracy theories as a result of their suspiciousness of others (Darwin et al., 2011).

A potential constraint on this explanation, however, has been the limited way in which schizotypy has been measured in earlier studies. Thus, Swami et al. (2013) reported that scores on the Unusual Experiences subscale of the Oxford-Liverpool Inventory of Feelings and Experiences (O-LIFE; Mason, Claridge, & Jackson, 1995) significant and positively predicted conspiracist ideation. Conversely, two other studies have reported significant associations between conspiracist ideation and three domains of

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schizotypy measured on the Schizotypal Personality Questionnaire-Brief (SPQ-B), namely Cognitive-Perceptual Deficit, Interpersonal Deficit, and Disorganisation; Bruder et al., 2013; Darwin et al., 2011). There are, however, questions concerning the reliability of the SPQ-B (Axelrod, Grilo, Sanislow, & McGlashan, 2001), as well as the factorial validity of the three-factor model of schizotypy (Compton, Goulding, Bakeman, & McClure-Tone, 2009). Moreover, use of domain-level dimensions may obscure associations between conspiracist ideation and lower-level schizotypal traits.

In the present study, we sought to extend the available literature by examining associations between conspiracist ideation and schizotypy, as measured by the full form of the SPQ, consisting of nine subscales grouped into four domains. Doing so allowed us to examine associations between conspiracist ideation and domain schizotypy, as well as lower-level subscales of the SPQ. In terms of the latter, two prime candidates for associations with conspiracist ideation are (i) Paranoid Ideation/Suspiciousness, which would reflect the role of distrust of others, particularly those in authority, in conspiracist ideation (Darwin et al., 2011; Swami, Chamorro-Premuzic, & Furnham, 2010), and; (ii) Odd Beliefs or Magical Thinking, which would be consistent with previous reports of associations between conspiracist ideation and paranormal beliefs (Bruder et al., 2013; Darwin et al., 2011; Swami et al., 2011, 2013).

## 2. Method

### 2.1. Participants

The participants of this study were an online, international sample of 346 women and 101 men, who ranged in age from 18 to 68 ( $M = 23.17$ ,  $SD = 7.87$ ). Most participants were from the United States of America (49.1%) and the United Kingdom (36.4%), with the remainder of the sample consisting of various nations (14.5%). The sample consisted of 72% who had completed at least some college, with 98.4% completing high school.

### 2.2. Measures

#### 2.2.1. Conspiracist ideation

The Belief in Conspiracy Theories Inventory (BCTI; Swami et al., 2010, 2011) was used to measure general conspiracist ideation. The BCTI is a 15-item measure that describes a range of internationally-recognisable conspiracy theories, which are rated for agreement on a 9-point scale (1 = *Completely false*, 9 = *Completely true*). An overall score is computed as the mean of all items and higher scores on this scale reflect greater conspiracist ideation. Previous work has shown that the scale is one-dimensional, has good internal consistency (Swami et al., 2010, 2011), and correlates very strongly with a non-event-based, generic measure of conspiracist ideation (Brotherton et al., 2013). In the present study, Cronbach's alpha for this scale was .92.

#### 2.2.2. Schizotypy

We used the 74-item Schizotypal Personality Questionnaire (SPQ; Raine, 1991), which was designed to measure all nine diagnostic criteria for schizotypal personality disorder. Each 'yes' response counts as one point and nine subscale scores were computed as the total score for all items associated with each subscale. Table 1 shows Cronbach's alpha coefficients for the nine subscales in the present sample, which is in line with the findings of Compton et al. (2009). Scores for domains were derived by the summation of subscale scores. In the original development of the SPQ, Raine (1991) proposed a three-domain structure; more recently, however, Compton et al. (2009) reported that a four-domain model had better fit indices. In the present study,

**Table 1**

Internal consistency reliabilities (Cronbach's  $\alpha$ ) of the Schizotypal Personality Questionnaire subscales.

Subscale	Items	$\alpha$
Odd Beliefs or Magical Thinking <sup>1</sup>	7	.77
Unusual Perceptual Experiences <sup>1</sup>	9	.74
Ideas of Reference <sup>2</sup>	9	.80
Paranoid Ideation/Suspiciousness <sup>2/3</sup>	8	.80
Excessive Social Anxiety <sup>2/3</sup>	8	.81
No Close Friends <sup>3</sup>	9	.80
Constricted Affect <sup>3</sup>	8	.76
Odd or Eccentric Behaviour <sup>4</sup>	7	.86
Odd Speech <sup>4</sup>	9	.80

Note. Domain: <sup>1</sup>Cognitive-perceptual, <sup>2</sup>Paranoid, <sup>3</sup>Negative, <sup>4</sup>Disorganised (Stefanis et al., 2004).

therefore, we computed domain scores based on the four-domain model (see Table 1; Stefanis et al., 2004).

#### 2.2.3. Demographics

Participants provided their demographic details consisting of age, sex, country of residence, education, and ethnicity.

### 2.3. Procedure

Ethics approval was obtained from the relevant university ethics committee.

The survey was launched in March 2012 and ran until January 2014. Survey dissemination was undertaken via multiple routes. On the one hand, the internal Research Participation Scheme at the University of Westminster was used. This scheme gives course credit to students who participate in research undertaken by members of staff. No monetary incentives were offered to the participants for completion of the survey. On the other hand, the survey was advertised at university-associated online platforms, primarily for institutions in the USA and UK. The participants gave a dual-consent; prior to and post-survey.

## 3. Results

Descriptive statistics for all variables included in the present study are reported in Table 2. An independent-samples *t*-test showed that there was no significant difference in conspiracist ideation between women ( $M = 3.82$ ,  $SD = 1.60$ ) and men ( $M = 3.83$ ,  $SD = 1.73$ ),  $t(444) = 0.05$ ,  $p = .963$ ,  $d < .01$ , so the sample was combined for all further analyses. Inter-scale correlations between conspiracist ideation and the SPQ domains and subscales, respectively, are reported in Table 2. As can be seen, greater conspiracist ideation was significantly associated with higher scores on three SPQ domains (Cognitive-Perceptual, Paranoid, and Negative). In addition, greater conspiracist ideation was significantly associated with higher scores on six of the nine SPQ subscales.

To examine the predictive power of schizotypy, we computed two separate multiple linear regressions using the Enter method. In the first regression, we entered conspiracist ideation as the criterion variable and all SPQ domains as predictor variables. Results showed that the regression was significant,  $F(4, 446) = 16.24$ ,  $p < .001$ , Adj.  $R^2 = .12$ . As can be seen in Table 3, Cognitive-Perceptual and Disorganised emerged as significant predictors of conspiracist ideation, although multicollinearity was a limiting issue. In the second regression, we entered conspiracist ideation as the criterion variable and all SPQ subscales as predictor variables. The regression was again significant,  $F(9, 446) = 8.75$ ,  $p < .001$ , Adj.  $R^2 = .14$ . Regression coefficients are reported in Table 4 and, as can be seen, the only significant predictors of conspiracist ideation

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