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The Healthy Side of Positive Schizotypy May Reflect Positive Self-Report Biases Henri Chabrol, Patrick Raynal*

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Abstract

The concept of healthy schizotypy, characterized by positive schizotypy symptoms in the absence of negative or disorganized schizotypy, raises questions regarding whether the contrast between its healthy appearance and its relatively high level of impairment might be due to self-reported advantages. Using cluster analysis, we aimed at typifying a positive schizotypy group in a large nonclinical sample of young adults to examine its association with depressive symptoms, cannabis use, academic performance, well-being and serendipity, while controlling for variables inducing positive self-report biases: selfdeceptive denial, wishful thinking, social desirability and narcissistic traits. We thus identified a pure positive schizotypy cluster (P) and a positive and disorganized cluster (PD) which had the highest level of the positive factor. Both clusters were characterized by a contrast between a high level of well-being, life satisfaction and self-reported serendipity (similar to a low schizotypy cluster) with elevated level of impairment markers (lower academic performance, higher depressive symptoms and cannabis use), comparable with clusters high in negative schizotypy. Moreover P and PD had elevated levels of variables susceptible to induce positive self-report biases (denial, wishful thinking, social desirability, narcissistic traits), while the clusters high in negative schizotypy had lower levels. We conclude that the relative high level of well-being and life satisfaction observed in groups with elevated positive and low negative schizotypy may in fact be linked to positive self-report biases. Key words: cluster analysis; schizotypal traits; wishful thinking; narcissistic traits; subjective well-being.

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Novelty and Significance

What is already known about the topic?

- Schizotypy, a personality trait related to schizophrenia with lesser severity, is composed of three dimensions: positive (unusual peceptive experiences...), negative (social withdrawal...) and disorganized thoughts.
- Schizotypy is associated with moderate impairment and psychopathology but "healthy schizotypy" was proposed in individuals displaying positive schizotypy without other dimensions.
- A healthy appearance of individuals with positive schizotypy contrasts with a relatively high impairment.

What this paper adds?

- We examined whether this contrast was due to biases in self-report questionnaires.
- Individuals with positive schizotypy have higher levels of variables susceptible to induce positive self-report biases.
- · The relative well-being reported by these persons could be associated with positive self-report bias.

Multiple factor analytic studies (Kocsis-Bogar, Nemes, & Perczel-Forintos, 2016; Kwapil, Gross, Silvia, & Barrantes Vidal, 2013) supported that the symptoms of schizotypy and schizophrenia could be grouped in three dimensions: positive (unusual experiences, odd beliefs, and magical thinking), negative (anhedonia, apathy, social anxiety and social withdrawal) and disorganized (eccentricity, odd behaviour and speech).

These dimensions have been used in cluster analytic studies of schizotypy aimed at identifying distinct groups of individuals that could be associated differentially with

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psychopathology, impairment, and risk of developing schizophrenia-spectrum disorders. Five cluster analytic studies were conducted on large samples of adolescents or college students. They typically found positive, negative, mixed, and low schizotypy clusters (Barrantes Vidal, Fananas, Rosa, & Obiols, 2003; Barrantes Vidal, Lewandowski, & Kwapil, 2010; Raynal, Goutaudier, Nidetch, & Chabrol, 2016; Suhr & Spitznagel, 2001; Tabak & de Mamani, 2013).

The three latter studies explored whether clusters differed on behavioural correlates and found that high positive schizotypy clusters tended to display less impairment than the other clusters with significant schizotypy symptoms. Barrantes Vidal *et alii* (2003) compared clusters on history of depression, substance abuse, social adjustment and dimensions of the Five-Factor Model of personality: the positive schizotypy cluster was open to experience and extraverted but had a history of depression and substance abuse (Barrantes-Vidal *et alii*, 2003; Barrantes Vidal *et alii*, 2010). Others found that the high positive cluster presented similar levels of well-being as the low schizotypy cluster (Tabak & de Mamani, 2013). And recently our group observed that the positive schizotypy cluster had high levels of personality disorder traits and psychopathological symptoms, and low academic achievement, confirming an unhealthy side to positive schizotypy (Raynal *et alii*, 2016).

These results challenged the concept of *healthy schizotypy*, characterized by the presence of positive schizotypy symptoms in the absence of negative or disorganized schizotypy symptoms (McCreery & Claridge, 2002) and by the association with adaptive traits and favourable functioning such as subjective wellbeing, flexible/unconventional thinking and creativity, fantasy-proneness and openness to experience, raising the question of the evolutionary advantages of schizotypy (Mohr & Claridge, 2015; Schofield & Claridge, 2007). However, several studies reported associations between positive schizotypy and mood disorders, substance abuse, and the need for psychiatric treatment (Barrantes Vidal *et alii*, 2010; Chapman, Chapman, Kwapil, Eckblad, & Zinser, 1994; Dinn, Harris, Aycicegi, Greene, & Andover, 2002; van Os & Linscott, 2012). Moreover positive schizotypy was reported to be associated with high neuroticism, frequency of alcohol use, impairment (Barrantes Vidal *et alii*, 2010) and with impulsivity and antisocial behaviours (Dinn *et alii*, 2002).

Recently we suggested that some self-reported advantages, such as high subjective well-being, that were attributed to positive schizotypy, may reflect either lack of insight and/or the tendency to deform reality and adapt it to one's own wishes, which are associated to magical thinking, a key component of positive schizotypy (Raynal et alii, 2016). Supporting this view, Fonseca Pedrero, Paino, Sierra Baigrie, Lemos Giráldez, and Muñiz (2012) observed that in non-clinical samples of adolescents, individuals with psychotic-like experiences used avoidance coping strategies including wishful thinking more frequently than adolescents who did not experience psychotic-like symptoms. Other mechanisms may be involved. As high scorers on positive schizotypy have been found to have high levels of perceived positive quality of social relationships (Raynal et alii, 2016; Tabak & de Mamani, 2013), they may be more susceptible to social desirability biases. Another possibility is that high levels of positive schizotypy symptoms is perceived as being different and superior, that leading to the development of narcissistic traits, such as grandiosity, that may be expressed by overestimation of well-being (Sedikides, Rudich, Gregg, Kumashiro, & Rusbult, 2004) or overestimation of own talents (e.g., self-reported serendipity).

SELF-REPORT BIAS IN POSITIVE SCHIZOTYPY

The aim of the present study was to explore the typology of schizotypal traits in a large nonclinical sample of young adults to investigate whether a positive schizotypy group would emerge and to examine its association with depressive symptoms, cannabis use, objective academic performance, self-reported well-being, life satisfaction and serendipity, while controlling for variables inducing positive self-report biases such as denial, wishful thinking, socially desirable responding and narcissistic traits.

Method

Participants

Potential participants were informed about the study via social networks and the official websites of French universities. Informed consent was obtained from all participants before completing the study. Potential participants were provided with information regarding the aims of the study and were informed that answers to the questionnaires would remain confidential and be analysed according to scientific intentions. No compensation was offered to participate in the study, following a standard procedure of the institution. The participants were provided with the possibility to contact one of the authors via email for further information or to receive referral. Personal information (e.g., age, gender) was gathered. The variable academic level was obtained by asking students their enrolment in one of the following programs: undergraduate (first, second or third year), Master's degree (first or second year) or Ph.D. Elevated scores indicate high degrees. 976 individuals (790 females, 80.9%) aged between 18 and 24 (mean age of females= 20.18 ±1.65; males= 21.04 ±1.76) completed the questionnaire.

Instruments

- Schizotypal Personality Questionnaire-Brief (SPQ-B). Schizotypal traits were assessed using the French version of the SPQ-B, a self-administered scale including 22 dichotomous items (Raine & Benishay, 1995; Raynal et alii, 2016). The three following dimensions of schizotypal personality are assessed: cognitive-perceptual deficits ("Positive" 8 items), interpersonal deficits ("Negative" 8 items) and disorganisation (6 items). Each item is scored 0/1 (No/Yes). However studies suggested caution with respect to the proposed SPQ-B subscales and recommended to use factor analytic techniques to study the SPQ-B latent structure in specific samples (Compton, Goulding, Bakeman, & McClure-Tone, 2009).
- *Balanced Inventory of Desirable Responding* (BIDR, Paulhus & Reid, 1991). Self-deceptive denial was assessed with the 20-item relevant subscale of the BIDR. Items are scored from 1-totally untrue) to 7 -totally true.
- Ways of Coping Checklist (WCC, Vitaliano, Russo, Carr, Maiuro, & Becker, 1985). Wishful thinking was assessed with the 8-item relevant subscale of the WCC. Responses are scored on a 4-point Likert scale ranging from 0 -never used to 3 -frequently used.
- *Personality Diagnostic Questionnaire-4* (PDQ-4, Hyler, Rieder, Williams, Spitzer, & Lyons, 1988). Narcissistic traits were measured using the relevant 9-item subscale of the PDQ-4. Items are scored from 1 -strongly disagree to 4 -strongly agree.
- Marlowe-Crowne Social Desirability Scale (MCSDS, Strahan & Gerbasi, 1972). Socially desirable responding was assessed with the 10-item MCSDS. Items were scored 0 -false or 1 -true, except for the specific items that required inverse scoring.
- Patient Health Questionnaire (PHQ-9, Kroenke & Spitzer, 2002). Depressive symptoms were measured using the PHQ-9. The measure is scored from 0 (never) to 3 (almost every day) with total score ranging from 0 and 27.

Suicidal ideations were assessed according the 3-item scale of Garrison, Addy, Jackson,

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Mckeown, and Waller (1991). Responses are scored on a 4-point scale (0-never, 3 -very often). Total scores range from 0 to 9.

- *Frequency of cannabis use* was assessed as described by Simons, Correia, Carey, and Borsari (1998). Participants were asked to report on a 9-point rating scale ranging from 0 -no use) to 8 -more than once a day, their frequency of cannabis use in the last 3 months.
- Satisfaction with Life Scale (SLS, Diener, Emmons, Larsen, & Griffin, 1985). Subjective well-being was assessed using the SLS, a 5-item scale scored from 1 -strongly disagree) to 7 -strongly agree.
- *Psychological Well-Being Scale* (PWBS, Ryff, 1989). We also measured well-being using three subscales (positive relations, self-acceptance and personal growth; each contains 7 items) of the PWBS. Responses are scored on a scale ranging from 1 -strongly disagree to 6 -strongly agree.
- Serendipity Quotient (ŠQ, McCay-Peet & Toms, 2011). The self-assessed ability for serendipity (i.e., the capacity to creatively take advantage of an unexpected observation) was measured using the 7-item SQ. Responses are scored on a 5-point scale ranging from 1 -strongly disagree to 5 -strongly agree.
- The variable Academic results was obtained by asking students their overall grade for the last semester (Failed; Passed with grade $\geq 10/20$ and < 12/20; Passed with grade $\geq 12/20$ and < 14/20; Passed with grade $\geq 14/20$ and < 16/20; Passed with grade $\geq 16/20$).

RESULTS

A confirmatory factor analysis (CFA) was used to test Raine and Benishay's 3-factor model (Raine & Benishay, 1995). Multiple fit indices were used to evaluate the model fully, based on the following recommended indices (Tabachnick & Fidell, 2007): 1) the model chi square divided by the degree of freedom (χ^2 / df); this value should be smaller than 2.00; the lower this value is, the better the fit; 2) the Goodness-of-Fit Index (GFI; this value should be 0.90 or higher for a good fit; the higher this value is, the better the fit); 3) the Root Mean Square Residual (RMR; this value should be 0.05 or lower; the lower this value is, the better the fit); 4) the Root Mean Square Error of Approximation (RMSEA; this value should be 0.08 or lower; the lower this value is, the better the fit); 5) the Akaike information criterion (AIC, the lower this value is, the better the fit). Raine and Benishay's 3-factor model fitted the data poorly ($\chi^2/df=5.81$, GFI=0.9, RMR=0.065, RMSEA=0.074, AIC=1.14). Then a principal component analysis using an Equamax rotation (which is the most adequate rotation method for dichotomous data) was conducted on the 22 SPQ-B items to identify a more relevant model based on two criteria: the scree test and the total proportion of variance accounted for (O'Rourke & Hatcher, 2013). The eigenvalue curve suggested either a 3-, or 4-factor solution. The 4-factor solution, accounting for 39% of the variance, was rejected as one of its factor was composed of a single item. The 3-factor solution accounting for 33.4% of the variance was thus chosen (Table 1). Each item was assigned to one of the three factors if this item loaded greater than 0.30 on that factor and if there was a difference of at least 0.20 between the loading of this item for this factor and the loading of this item for any other factors. The factors were called: *Negative schizotypy* (items 1, 11, 15, 21 and 22; e.g., "People find me aloof and distant"); Positive schizotypy (items 2, 5, 12 and 17; e.g., "Sense some person or force"); and Disorganized schizotypy (items 3, 4, 6 and 13) dominated by eccentricity (e.g., "I use words in unusual way", "unusual mannerisms and habits", "People think I am very bizarre"). Factors were weakly correlated, with r varying from .09 to .26. As the total amount of the variance accounted for was not high, a CFA was conducted to test the fit of the novel model, which showed better fit indices (χ^2 /df=4.67, GFI=0.96, RMR=0.05, RMSEA=0.06, AIC=0.33) compared with Raine and Benishay's model.

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		Factor loading	gs
item	1	2	3
nem	Negative	Positive	Disorganized
	schizotypy	schizotypy	schizotypy
 People find me aloof and distant 	0.55*^	0.08	0.1
Sense some person or force	-0.05*	0.55*^	0.14
3. Unusual mannerisms and habits	0.03	0.19	0.59*^
People can tell what you're thinking	-0.12	0.06	0.31*^
5. Noticed special signs for you	-0.03	0.58*	0.14
6. People think I am very bizarre	0.08	0.29	0.52*^
On my guard even with friends	0.45*	0.46*	-0.03
8. People find me vague and elusive	0.38*	-0.14	0.52*
Often pick up hidden threats	0.32*	0.36*	0.13
10. People are taking notice of you	0.25	0.36	-0.01
11. Discomfort with unfamiliar people	0.71*^	-0.01	-0.04
12. Astrology, UFOs, ESP, sixth sense	-0.11	0.54*	0.03
13. I use words in unusual ways	0.07	-0.16	0.65*^
14. Not let people know about you	0.45*	0.25	0.09
15. Tend to keep in the background	0.69*^	0.02	0.03
16. Distracted by distant sounds	0.06	0.28	0.44*
17. Stops people from taking advantage	0.21	0.42*^	0.13
18. Unable to get "close" to people	0.47*	0.27	-0.03
19. I am an odd, unusual person	0.01	0.41*	0.36*
20. Hard to communicate clearly	0.52*	0.14	0.32*
21. Very uneasy talking to people	0.71*^	-0.05	-0.02
22. Tend to keep my feelings to myself	0.4*^	-0.03	0.04
Eigenvalues	3.93	2.05	1.33
Explained variance	14.7%	9.78%	8.79%

Table 1. Principal component analysis of 22 SPQ-B items

Notes: *= values >0.3; ^= items retained in the model.

A cluster analysis was then conducted in two steps to generate profiles based on the novel model. In the first step, a hierarchical cluster analysis was conducted (Ward's method with Euclidean distance). Based on the dendrogram and the aggregation curve, a six-cluster solution was identified. In the second step, K-means clustering was used to assign individuals to one of the identified clusters. A discriminant analysis showed clear differences between clusters (Wilks' $\lambda = 0.04$, p < .001) with 97.7% of cases correctly classified. Each cluster was named according to the schizotypy factor(s) that scored above the sample mean with respect to this cluster (Figure 1; Table 2). This led to the five following clusters: *High schizotypy* (H); *Positive schizotypy* (P); *Negative schizotypy* (N); *Disorganized schizotypy* (D); *Positive and Disorganized* (PD). The sixth cluster was named *Low* (non schizotypy, L) as it scored below the mean on all schizotypy dimensions.



Figure 1. Six-cluster solution based on the three factors of schizotypal traits indicated on the x-axis.

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	Comple	Dance	مامام	JUV			Cluster M (SD)	M(SD)				
	M (SD)	Naligo	arpua		High schizot. n=157 (16%)	Low schizot. n=209 (21%)	Positive $m = 1.10 (11\%)$	Negative $n=226 (23\%)$	Disorganized $n=197 (20\%)$	Posit. Disorg. n = 77 (8%)	ы	Significant comparisons
Total schizotypy	9.40 (4.34)	0-22	0.85	0.22	14.94 (2.96)	4.18 (2.35)	8.83 (2.76)	10.89 (3.08)	8.42 (2.19)	11.16 (2.51)	322.6*	H>N,PD>P,D>L
Positive schizotypy	1.60 (1.18)	0-4	0.66	0.34	2.78 (0.78)	0.40(0.49)	2.76 (0.72)	1.04 (0.74)	1.3(0.61)	3.21 (0.41)	450.4*	PD>H,P>D>N>L
Negative schizot.	2.48 (1.61)	0-5	0.82	0.51	3.95 (0.88)	1.33(0.93)	1.92 (1.2)	4.26 (0.78)	1.36(0.9)	1.13 (0.78)	426.5*	N>H>P>D,PD,L
Disorganized schizot.	1.79 (1.18)	0-4	0.54	0.24	2.9 (0.78)	0.75 (0.72)	0.71 (0.46)	1.45 (0.89)	2.68 (0.72)	2.73 (0.75)	280.2*	H,D,PD>N>L,P
Academic results	1.85(1)	0-4	n.a.	n.a.	1.58 (1.05)	2 (0.96)	1.72 (1.05)	1.88 (0.96)	1.81 (1)	1.89(0.99)	3.68*	H <j< td=""></j<>
Academic level	2.43(1.3)	1-6	n.a.	n.a.	1.98(1.06)	2.71 (1.27)	2.25 (1.26)	2.34 (1.22)	2.39 (1.28)	2.1 (1.2)	7.18*	L>H,P,N,PD D>H
Depressive sympt.	9.72 (5.36)	0-25	0.82	0.35	13.08 (5.83)	6.84 (4.22)	9.11 (4.64)	10.5 (5.33)	9.36 (4.71)	10.17 (5.36)	29.74*	H>P,N,D,PD>L
Suicidal ideations	0.89 (1.85)	6-0	0.87	0.7	1.68 (2.46)	0.18 (0.65)	0.67 (1.24)	1.18 (2.06)	0.73(1.7)	1.09 (2.25)	14.76^{*}	H,N,D,PD>L H>P,PD
Cannabis use	0.78 (1.75)	0-8	n.a.	n.a.	0.81(1.89)	0.58 (1.44)	0.83 (1.83)	0.5(1.3)	1.07 (1.98)	1.31 (2.32)	4.306^{*}	D,PD>N PD>L
Life satisfaction	22.24 (7.21)	5-35	0.86	0.55	19.61 (7.54)	25.07 (6.2)	23.35 (6.84)	19.85 (7.11)	23.19 (6.74)	22.88 (7.29)	18.46^{*}	L,P,D,PD>H,N
Well-being	82.91 (9.83)	39-109	0.61	0.07	78.26 (8.21)	87.53 (9.49)	85.14 (8.61)	77.58 (9.56)	85.50 (8.64)	85.66 (8.08)	41.89*	L,P,D,PD>H,N
Serendipity	25.85 (6.39)	7-35	0.89	0.53	26.47 (6.4)	24.9 (6.52)	25.76 (6.46)	24.88 (6.48)	26.5 (6.14)	28.4 (5.3)	5.25*	PD>L,N
Denial	82.69 (13.87)	42-125	0.68	0.09	77.39 (13.19)	87.02 (13.74)	84 (14.65)	82.72 (13.97)	80.94 (12.39)	83.23 (14.2)	9.05*	L>H,N,D P,N>H
Wishful thinking	15.95 (4.44)	0-24	0.74	0.07	17.82 (4.17)	13.37 (4.65)	16.51 (4.44)	16.31 (3.86)	16.02 (4.06)	17.12 (3.91)	23.93*	H>N,D>L P>L
Narcissistic traits	17.55 (4.09)	9-31	0.64	0.17	19.35 (4.1)	16(3.86)	17.99 (4.21)	17.31 (3.9)	17.13 (3.69)	19.19 (4.08)	16.7^{*}	H,PD>N,D>L P>L
Social desirability	4.43 (1.8)	6-0	0.42	0.08	3.95(1.71)	4.74 (1.88)	4.51 (1.71)	4.45 (1.74)	4.37 (1.88)	4.57 (1.74)	3.68*	L>H

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Using one-way analysis of variance, the clusters were compared on levels of schizotypy traits, depressive symptoms and cannabis use, academic achievement, variables sensitive to positive self-report biases (subjective well-being, life satisfaction, self-reported serendipity) and variables related to positive self-report biases (self-deceptive denial, wishful thinking, social desirability, and narcissistic traits; Table 2). Firstly, important intercluster differences were observed regarding the three schizotypy factors, which validated the classification. In addition the clusters displayed contrasted levels when considering the other variables.

The schizotypic clusters overall displayed lower academic performance and higher levels of depressive symptoms, suicidal ideations and cannabis use compared with L. The clusters high in the positive factor (P and PD) had similar levels of well-being and life satisfaction than the L cluster while the clusters high in the negative factor (H and N) showed lower subjective well-being and life satisfaction compared with all other groups. Regarding self-reported serendipity, the PD group had the highest scores while the P group did not differ from the other clusters.

Self-deceptive denial in the P and PD groups were more elevated when comparing with other schizotypic clusters. In addition, the P and PD groups showed an intermediate level of wishful thinking, both being significantly higher in P and PD than in L. The L cluster had the highest level of socially desirable responding, followed by the clusters high in the positive factor (P and PD), although these differences were not significant. On the contrary, all schizotypic clusters had significantly higher levels of narcissistic traits than the L cluster. The P and PD groups showed an intermediate level of narcissistic traits, significantly higher in P and PD than in L.

DISCUSSION

In this study we observed that the clusters with high scores of positive schizotypy and low levels of negative schizotypy (namely P and PD clusters) were characterized by a contrast between elevated scores of impairment markers (lower academic performance, higher depressive symptoms and cannabis use) with a high level of well-being, life satisfaction and self-reported serendipity. Thus these *high positive-low negative schizotypy* clusters displayed a relatively good quality of life, comparable to non-schizotypic individuals, in association with significant signs of impairment.

This contrast may reflect positive self-report biases. Indeed, the P and PD clusters had elevated scores for all variables susceptible to induce positive self-report biases (self-deceptive denial, wishful thinking, socially desirable responding, narcissistic traits) while the clusters high in the negative factor (H and N) had lower scores. This suggests that the relative high levels of well-being, life satisfaction, and self-reported serendipity, observed in group with high levels of positive schizotypy and low levels of the negative dimension, may in fact be linked to positive self-report biases. In addition this is consistent with a previous study in which responses biases have been investigated in relationship with positive or negative schizotypy trait (Mohr & Leonards, 2005). This study showed, by manipulating the context of in which a test was administered, that defensive response biases were more likely to affect positive traits scores than negative traits.

Of note, our study confirms the link between diminished subjective wellbeing and negative schizotypy (Abbott, Do, & Byrne, 2012; Cohen & Davis, 2009). Indeed the two groups with elevated negative schizotypy (namely H and N) displayed lower scores of life satisfaction and wellbeing, compared with all the other clusters that are low in negative schizotypy.

This study is based on an exploratory factor analysis of SPQ-B data which produced a 3-factor structure (positive, negative and disorganized) already reported in college students (Axelrod, Grilo, Sanislow, & McGlashan, 2001; Compton *et alii*, 2009; Raine & Benishay, 1995). Based on these factors, a cluster analysis identified six clusters. The identified clusters were reminiscent of those described in earlier reports (Barrantes Vidal *et alii*, 2003; Barrantes Vidal *et alii*, 2010; Suhr & Spitznagel, 2001) and the fact that the P and PD clusters showed levels of well-being and satisfaction with life similar to the L group is consistent with an earlier report (Tabak & de Mamani, 2013). Moreover a large number of significant intercluster differences were observed in our sample.

Regarding the representativeness of our sample, the total mean score (9.4 ± 4.3) for the SPQ-B in our sample is very close to the mean value of 9.6 ± 3.9 reported in a sample of college students (Raine & Benishay, 1995). Similarly the total mean score (9.72 ± 5.36) for PHQ-9 in our study is close to the mean value of 10.44 ± 5.7 found in a sample of US college students (Garlow *et alii*, 2008).

Our study has several limitations. First this study is cross-sectional and results are data-driven and may be not generalizable, considering that participants were generally healthy, high-functioning female students. Regarding the exploratory factor analysis, there are differences between the items composing the factors in the literature (Axelrod *et alii*, 2001; Compton *et alii*, 2009; Raine & Benishay, 1995) and we had to eliminate some items to obtain more specific dimensions. Another limitation is the fact that scales showed suboptimal Cronbach's alphas ranging between .60 and .70, even though this can be considered as an acceptable level of consistency (Schmitt, 1996).

In conclusion, this study suggests that the healthy appearance of positive schizotypy may in fact be linked to positive self-report biases. This emphasizes the necessity of measuring potential advantages of positive schizotypy using methods that are more objective than self-report questionnaires which may be too sensitive to positive selfreport biases among individuals with high levels of positive schizotypy features.

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