

# **Corrigendum: Psychological and Demographic Predictors of Vaping and Vaping Susceptibility in Young Adults**

Grace E. Teah and Tamlin S. Conner\*

Department of Psychology, University of Otago, Dunedin, New Zealand

Keywords: e-cigarette, electronic cigarette, vaping, survey, personality, mental health, young adult, socioeconomic status

#### A Corrigendum on

## Psychological and Demographic Predictors of Vaping and Vaping Susceptibility in Young Adults

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In the original article, there was an error in **Table 3** and **Table 4** as published. The statistics for the Openness and Intellect aspects were reversed due to a coding error. The corrected **Table 3** and **Table 4** appear below. Amendments have also been made to **Supplementary Table 1** and **Supplementary Table 4**.

Due to this coding error, there was also an error in Results, Independent Logistic Regression, Paragraph 2. The Openness and Intellect aspects were reversed. The corrected paragraph is below.

Table 3 presents the independent logistic regressions for the psychological predictors. Here, we found nine significant predictors of ever-use, four significant predictors of current use, and three significant predictors of susceptibility at our adjusted threshold of p < 0.005. Ever-users had a more distressed psychological profile than current users or ENDS susceptible people. Scoring one standard deviation above the mean in Perceived Stress, Anxiety, or Depressive Symptoms increased the likelihood of ENDS ever-use by 39.4, 41.0, and 49.3%, respectively. Similarly, the one personality trait linked closely with mental health problems, Neuroticism, also increased the likelihood of ENDS ever-use by 36.9% through both of its aspects. Fewer of the mental health variables predicted ENDS current use or susceptibility aside from Perceived Stress increasing the likelihood of current use by 41.5%. Conscientiousness was a significant personality predictor of all three outcomes; higher Conscientiousness decreased the likelihood of ever-use by 28.2%, current use by 45.1%, and susceptibility by 41.9% through one or both aspects. Additionally, our analyses of susceptibility using three-group categorization found that higher Conscientiousness decreased the likelihood of moderate susceptibility by 40.8% [OR(CI) = 0.592 (0.412-0.851), p = 0.005] (Supplementary Table 4). Contrary to predictions, Curiosity and Exploration did not predict any of the ENDS measures. Only the Openness aspect of Openness/Intellect predicted increased likelihood of ever-use by 31.8%.

Due to this coding error, there was also an error in Discussion, Paragraph 1. The Openness and Intellect aspects were reversed. The corrected paragraph is below.

This study explored the demographic and psychological predictors of ENDS use and susceptibility in 521 young-adult MTurk workers in the United States. Overall, we found more predictors of ENDS ever-use and current use than susceptibility. Ever-users and current users were both demographically and psychologically vulnerable. Demographically, ever-users and current

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> \*Correspondence: Tamlin S. Conner tamlin.conner@otago.ac.nz

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users were more likely to be current smokers, of poor socioeconomic means, and current users were also less likely to have pursued any higher education above the high school level. Psychologically, ever-users were more distressed, higher in neuroticism, less conscientious, and higher in openness, whereas current-users were more stressed and less conscientious. Multiple logistic regression showed the importance of current smoking, anxiety, and conscientiousness predicting ENDS ever use, and current smoking, adulthood SES, and conscientiousness predicting ENDS current use. The only predictor of ENDS susceptibility was lower conscientiousness. This paints an interesting picture of the factors that predict ENDS use and susceptibility, as compared to the known predictors of smoking below.

Due to this coding error, there was also an error in Discussion, Paragraph 6. The Openness and Intellect aspects were reversed. In addition Discussion, Paragraph 6 did not address two pieces of literature: Zvolensky et al. (2015) and Leung et al. (2013). The corrected paragraph is below.

Our exploratory analysis of the personality predictors of ENDS yielded interesting results. The most consistent finding was that ENDS ever-users, current users, and susceptible people shared one personality characteristic: lower conscientiousness. This maps closely to findings from smoking research (Malouff et al., 2006; Hakulinen et al., 2015), and to the wider literature on higher conscientiousness being linked to positive health behaviors (Bogg and Roberts, 2004). Like smoking, neuroticism also predicted likelihood of ENDS ever-use; however, it appeared that anxiety, not neuroticism, was the more important predictor of ENDS ever-use from the multiple logistic regressions. Furthermore, unlike smoking, we found no evidence for higher extraversion among ENDS users. However, ENDS ever-users were higher in the openness aspect, which suggests that young adults with high levels of openness are more likely to have used ENDS at least once in their lives. These findings are reflected in previous smoking literature, showing that higher openness to experience increases the likelihood of smoking (Zvolensky et al., 2015), as well as lower openness to experience being a predictor of quitting smoking (Leung et al., 2013). Further work is necessary to replicate associations between openness and ENDS use and susceptibility.

The authors apologize for these errors and state that they do not change the primary scientific conclusions of the article. The original article has been updated.

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Zvolensky, M. J., Taha, F., Bono, A., and Goodwin, R. D. (2015). Big five personality factors and cigarette smoking: a 10-year study among US adults. *J. Psychiatr. Res.* 63, 91–96. doi: 10.1016/j.jpsychires.2015.02.008

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Copyright © 2022 Teah and Conner. This is an open-access article distributed under the terms of the Creative Commons Attribution License (CC BY). The use, distribution or reproduction in other forums is permitted, provided the original author(s) and the copyright owner(s) are credited and that the original publication in this journal is cited, in accordance with accepted academic practice. No use, distribution or reproduction is permitted which does not comply with these terms. TABLE 3 | Results of independent logistic regressions showing estimates in odds ratios (confidence intervals) for psychological predictors of ENDS ever-use, current use, and susceptibility.

Psychological	Ever use [Ref: Never Use]	Current use [Ref: Not a Current User]	Susceptibility (two groups) [Ref: Not Susceptible] ( $n = 239$ )		
variables	(n = 521)	( <i>n</i> = 521)			
Perceived stress	1.394 (1.167–1.666), p < 0.001	1.415 (1.120–1.787), p = 0.004	1.252 (0.940–1.668), <i>p</i> = 0.125		
Anxiety	1.410 (1.178–1.687), p < 0.001	1.300 (1.042–1.620), <i>p</i> = 0.020	1.417 (1.062–1.890), <i>p</i> = 0.018		
Depressive symptoms	1.493 (1.245–1.790), p < 0.001	1.353 (1.085–1.686), <i>p</i> = 0.007	1.233 (0.908–1.674), <i>p</i> = 0.179		
Curiosity & exploration	1.156 (0.972–1.376), p = 0.101	1.068 (0.853–1.337), <i>p</i> = 0.568	0.762 (0.561–1.034), <i>p</i> = 0.081		
Neuroticism (N)	1.369 (1.147–1.635), p = 0.001	1.191 (0.948–1.496), <i>p</i> = 0.133	1.308 (0.969–1.765), <i>p</i> = 0.079		
N-withdrawal	1.373 (1.151–1.640), p < 0.001	1.290 (1.024–1.626), <i>p</i> = 0.031	1.368 (1.009–1.854), <i>p</i> = 0.043		
N-volatility	1.295 (1.086–1.544), p = 0.004	1.071 (0.855–1.341), <i>p</i> = 0.550	1.197 (0.895–1.602), <i>p</i> = 0.225		
Agreeableness (A)	1.062 (0.894–1.263), p = 0.491	1.188 (0.943–1.496), <i>p</i> = 0.144	0.955 (0.721–1.264), <i>p</i> = 0.745		
A-compassion	1.106 (0.930–1.314), p = 0.254	1.147 (0.909–1.447), <i>p</i> = 0.247	0.948 (0.722–1.244), <i>p</i> = 0.699		
A-politeness	0.991 (0.834–1.178), p = 0.920	1.180 (0.938–1.486), <i>p</i> = 0.157	0.979 (0.732–1.311), <i>p</i> = 0.889		
Conscientiousness (C)	0.718 (0.601–0.858), p < 0.001	0.549 (0.429–0.703), <i>p</i> < 0.001	0.581 (0.425–0.794), <i>p</i> = 0.001		
C-industriousness	0.783 (0.657–0.933), p = 0.006	0.625 (0.493–0.794), p < 0.001	0.648 (0.479–0.875), p = 0.005		
C-orderliness	0.723 (0.605–0.865), p < 0.001	0.593 (0.469–0.751), p < 0.001	0.616 (0.449–0.844), <i>p</i> = 0.003		
Extraversion (E)	0.989 (0.833–1.176), p = 0.903	0.889 (0.710–1.113), <i>p</i> = 0.306	0.780 (0.586–1.040), <i>p</i> = 0.091		
E-enthusiasm	0.894 (0.752–1.063), p = 0.206	0.807 (0.644–1.012), <i>p</i> = 0.063	0.871 (0.654–1.160), <i>p</i> = 0.345		
E–Assertiveness	1.099 (0.924–1.307), p = 0.285	1.010 (0.807–1.264), <i>p</i> = 0.934	0.732 (0.545–0.983), <i>p</i> = 0.038		
Openness/intellect (O/I)	1.276 (1.070–1.522), p = 0.007	1.194 (0.947–1.504), <i>p</i> = 0.133	0.984 (0.742–1.305), <i>p</i> = 0.910		
O/I–openness	1.318 (1.105–1.572), <i>p</i> = 0.002	1.293 (1.025–1.632), <i>p</i> = 0.030	1.144 (0.852–1.537), <i>p</i> = 0.372		
O/I-intellect	1.150 (0.967–1.368), <i>p</i> = 0.114	1.050 (0.837–1.317), <i>p</i> = 0.672	0.872 (0.662–1.148), <i>p</i> = 0.329		

Bolded, significant at the adjusted p < 0.005.

TABLE 4 | Results of the multiple logistic regression showing estimates in odds ratios (confidence intervals) for ENDS ever-use, current use, and susceptibility based on the two groups categorization.

Block 0 (no predictors added)         Constant         0.165         0.088         3.541         1 $p = 0.060$ 1.180           Block 1 (adding demographic predictors)         -0.002         0.094         0.000         1 $p = 0.966$ 0.998           Adulthood SES         -0.239         0.093         6.626         1 $p = 0.010$ 0.788         0.857-0.94           Current smoker         1.848         0.392         2.2.191         1 $p < 0.001$ 6.346         2.942-13.65           Block 2 (adding psychological predictors)         -0.061         0.104         0.348         1 $p = 0.857$ 1.021           Corrent smoker         -0.061         0.104         0.348         1 $p = 0.003$ 1.357         1.108-1.65           Corrent smoker         -0.300         0.365         0.104         8.680         1 $p = 0.003$ 1.357         1.108-1.65           Conscient fucures as aspect         -0.300         0.068         9.429         1 $p = 0.002$ 0.714         0.612-0.88           On-poreness aspect         0.522         0.977         6.722         1 $p < 0.001$ 0.52           Predictors of ENDS curr	Predictors of ENDS ever-use ( $n = 521$ )	В	S.E.	Wald	DF	Sig.	Exp(b)	CI
Constant       0.165       0.088       3.541       1 $p = 0.080$ 1.180         Block 1 (adding demographic predictors)       Constant       -0.002       0.094       0.000       1 $p = 0.986$ 0.998         Adulthood SES       -0.239       0.033       6.826       1 $p = 0.010$ 0.788       0.657-0.94         Constant       0.021       0.392       22.191       1 $p < 0.001$ 0.788       0.657-0.94         Constant       0.021       0.398       0.332       21.97       1.021       0.434 $p = 0.827$ 1.021         Constant       0.021       0.096       0.048       1 $p = 0.003$ 1.357       1.108-1.62         Corrent smoker       -0.001       0.7575       2.639-12.5       Anxiety       0.305       0.104       8.880       1 $p = 0.003$ 1.357       1.108-1.62         Constant       -0.200       0.038       9.429       1 $p = 0.002$ 0.741       0.612-036         On-penness aspect       -0.300       0.368       9.429       1 $p = 0.002$ 0.741       0.662-0.77         Block 1 (adding demographic predictors)       B       S.E       Wald	Block 0 (no predictors added)							
Biock 1 (adding demographic predictors)         Canstant $-0.002$ $0.094$ $0.000$ 1 $p = 0.986$ $0.986$ Adulthod SES $-0.239$ $0.032$ $22.191$ 1 $p < 0.001$ $6.346$ $2.942-13.61$ Biock 2 (adding psychological predictors)       Constant $0.021$ $0.098$ $0.048$ 1 $p = 0.827$ $1.021$ Adulthod SES $-0.061$ $0.104$ $0.348$ 1 $p = 0.023$ $1.021$ Adulthod SES $-0.061$ $0.104$ $0.348$ 1 $p = 0.003$ $0.755$ $2.639-125$ Current smoker $1.750$ $0.398$ $1.9322$ $p = 0.003$ $1.081-0.68$ Curscientiousness-orderliness aspect $0.200$ $0.048$ $1$ $p = 0.003$ $1.063-1.55$ Predictors of ENDS current use ( $n = 521$ )       B       S.E.       Wald       DF       Sig.       Exp(b)       Cl         Block 1 (adding demographic predictors) $-1.527$ $0.114$ $176.19$ $p < 0.001$ $0.527$ Adulthood SES $-0.515$ $0.130$ $15.722$ $1$ $p < 0.001$ <	Constant	0.165	0.088	3.541	1	p = 0.060	1.180	
	Block 1 (adding demographic predictors)							
Adulthood SES $-0.239$ 0.083       6.626       1 $p = 0.010$ 0.788       0.667-0.94         Current smoker       1.248       0.392       22.191       1 $p < 0.001$ 6.346       2.942-13.67         Block 2 (adding psychological predictors)       0.021       0.096       0.048       1 $p = 0.827$ 1.021         Constant       0.021       0.096       0.048       1 $p = 0.857$ 1.021         Adulthood SES       -0.061       0.104       0.348       1 $p = 0.030$ 0.788-1.16         Constant       0.0252       0.007       6.702       1 $p = 0.002$ 0.741       0.612-0.86         Conscientiousness-orderliness aspect       -0.300       0.098       9.429       1 $p = 0.002$ 0.741       0.612-0.86         OI-openness aspect       0.252       0.097       6.702       1 $p = 0.001$ 0.128       1.063-1.55         Predictors of ENDS current use ( $n = 521$ )       B       S.E.       Wald       DF       Sig.       Exp(b)       Cl         Block 1 (ading demographic predictors)       -       -       1 $p < 0.001$ 0.152       .463-0.71         Constan	Constant	-0.002	0.094	0.000	1	p = 0.986	0.998	
Current smoker       1.848       0.332       22.191       1 $p < 0.001$ 6.346       2.942-13.6         Block 2 (adding psychological predictors)       constant       0.021       0.096       0.048       1 $p = 0.827$ 1.021         Aduthod SES       -0.061       0.104       0.348       1 $p = 0.056$ 0.941       0.768-1.15         Current smoker       1.750       0.398       19.362       1 $p = 0.003$ 1.357       1.08-1.66         Conscient/ounsness-orderliness aspect       -0.300       0.098       9.429       1 $p = 0.002$ 0.741       0.612-0.86         Orl-openness aspect       0.252       0.097       6.702       1 $p = 0.010$ 1.286       1.063-1.55         Predictors of ENDS current use ( $n = 521$ )       B       S.E.       Wald       DF       Sig.       Exp(b)       Cl         Block 1 (adding demographic predictors)       Constant       -1.527       0.114       178.031       1 $p < 0.001$ 0.597       0.463-0.77         Current smoker       1.551       0.297       27.326       1 $p < 0.001$ 0.463<-0.77	Adulthood SES	-0.239	0.093	6.626	1	p = 0.010	0.788	0.657–0.945
Block 2 (adding psychological predictors)         Constant       0.021       0.096       0.048       1 $\rho = 0.827$ 1.021         Adduthood SES       -0.061       0.104       0.348       1 $\rho = 0.827$ 1.071         Current smoker       1.750       0.398       19.362       1 $\rho < 0.001$ 5.755       2.639-12.5         Anxidey       0.305       0.104       8.680       1 $\rho = 0.003$ 1.337       1.106-1.66         Conscientiousness-orderliness aspect       -0.300       0.098       9.429       1 $\rho = 0.002$ 0.741       0.612-0.86         On-openness aspect       0.252       0.997       6.702       1 $\rho = 0.001$ 1.286       1.083-1.56         Predictors of ENDS current use ( $n = 521$ )       B       S.E.       Wald       DF       Sig.       Exp(b)       Cl         Block 1 (adding demographic predictors)       -       -       -       1.55       0.301       15.752       1 $\rho < 0.001$ 0.597       0.463-0.77         Current smoker       -       -       0.515       0.130       15.752       1 $\rho < 0.001$ 0.514         Aduthood SES       -       -	Current smoker	1.848	0.392	22.191	1	<i>p</i> < 0.001	6.346	2.942-13.690
Constant       0.021       0.096       0.048       1 $p = 0.827$ 1.021         Adulthood SES       -0.061       0.104       0.348       1 $p = 0.556$ 0.941       0.768-1.15         Current smoker       1.750       0.338       19.362       1 $p < 0.001$ 5.755       2.639-1.25         Ankitty       0.305       0.104       8.680       1 $p = 0.002$ 0.741       0.612-0.86         Conscientiousness-orderliness aspect       -0.300       0.098       9.429       1 $p = 0.002$ 0.741       0.612-0.86         O/-openness aspect       0.252       0.097       6.702       1 $p = 0.002$ 0.741       0.612-0.86         Ordeotors of ENDS current use ( $n = 521$ )       B       S.E.       Wald       DF       Sig.       Exp(b)       CI         Block 0 (no predictors added)       -	Block 2 (adding psychological predictors)							
Adulthood SES $-0.061$ $0.104$ $0.348$ $1$ $p = 0.556$ $0.941$ $0.768-1.16$ Current smoker $1.750$ $0.398$ $10.392$ $1$ $p < 0.001$ $5.755$ $2.639-12.5$ Anxiety $0.305$ $0.104$ $8.680$ $1$ $p = 0.002$ $0.741$ $0.612-0.85$ Orlopenness aspect $0.252$ $0.097$ $6.702$ $1$ $p = 0.002$ $0.741$ $0.612-0.85$ O'l-openness aspect $0.252$ $0.097$ $6.702$ $1$ $p = 0.002$ $0.741$ $0.612-0.85$ Predictors of ENDS current use ( $n = 521$ )BS.E.WaldDFSig.Exp(b)ClBlock 0 (no predictors added)Constant $-1.527$ $0.114$ $178.031$ $1$ $p < 0.001$ $0.217$ Block 1 (adding demographic predictors)Constant $-1.527$ $0.114$ $176.419$ $1$ $p < 0.001$ $0.597$ $0.463-0.77$ Corrent smoker $-1.527$ $0.142$ $176.419$ $1$ $p < 0.001$ $0.597$ $0.463-0.77$ Adulthood SES $-0.515$ $0.130$ $15.752$ $p < 0.001$ $0.597$ $0.463-0.77$ Corrent smoker $1.551$ $0.297$ $27.326$ $1$ $p < 0.001$ $0.597$ $0.463-0.77$ Constant $-1.956$ $0.149$ $172.400$ $1$ $p < 0.001$ $0.592$ $0.502-0.85$ Current smoker $1.552$ $0.307$ $25.533$ $1$ $p < 0.002$ $0.565$ $0.502-0.85$ Current smoker $0.572$ $0.$	Constant	0.021	0.096	0.048	1	p = 0.827	1.021	
Current smoker       1.750       0.398       19.362       1 $p < 0.001$ 5.755       2.639–12.5         Arxiety       0.305       0.104       8.680       1 $p = 0.003$ 1.357       1.108–1.66         Conscientiousness-orderliness aspect       -0.300       0.098       9.429       1 $p = 0.002$ 0.741       0.612-0.86         Ol-openness aspect       0.252       0.097       6.702       1 $p = 0.010$ 1.286       1.063–1.55         Predictors of ENDS current use ( $n = 521$ )       B       S.E.       Wald       DF       Sig.       Exp(b)       CI         Block 1 (adding demographic predictors)       -1.527       0.114       178.031       1 $p < 0.001$ 0.152         Constant       -1.527       0.114       176.419       1 $p < 0.001$ 0.152         Adulthood SES       -0.515       0.130       15.752       1 $p < 0.001$ 0.597       0.463–0.77         Qurant smoker       -1.557       0.130       15.752       1 $p < 0.001$ 0.514       4.611       1 $p < 0.001$ 0.463       0.567       0.565       0.502–0.85       0.502–0.85       0.502–0.85       0.502–0.35	Adulthood SES	-0.061	0.104	0.348	1	p = 0.556	0.941	0.768–1.153
Anxiety       0.305       0.104       8.680       1 $p = 0.003$ 1.357       1.108-1.66         Conscientiousness-orderliness aspect       -0.300       0.098       9.429       1 $p = 0.002$ 0.741       0.612-0.88         Orl-openness aspect       0.252       0.097       6.702       1 $p = 0.010$ 1.286       1.083-1.55         Predictors of ENDS current use ( $n = 521$ )       B       S.E.       Wald       DF       Sig.       Exp(b)       Cl         Block 0 (no predictors added)       -       -       -       178.031       1 $p < 0.001$ 0.217         Block 1 (adding demographic predictors)       -       -       -       1.857       0.114       178.031       1 $p < 0.001$ 0.527         Constant       -1.825       0.142       176.419       1 $p < 0.001$ 0.597       0.463-0.77         Current smoker       1.551       0.120       15.752       1 $p < 0.001$ 0.597       0.463-0.77         Current smoker       1.551       0.297       27.326       1 $p < 0.001$ 0.597       0.463-0.77         Current smoker       1.552       0.307       25.533       1	Current smoker	1.750	0.398	19.362	1	<i>p</i> < 0.001	5.755	2.639-12.548
Conscientiousness-orderliness aspect $-0.300$ $0.098$ $9.429$ $1$ $p = 0.002$ $0.741$ $0.612-0.86$ Ol-openness aspect $0.252$ $0.097$ $6.702$ $1$ $p = 0.010$ $1.286$ $1.063-1.56$ Predictors of ENDS current use $(n = 521)$ B       S.E.       Wald       DF       Sig.       Exp(b)       Cl         Block 0 (no predictors added)       Constant $-1.527$ $0.114$ $178.031$ $1$ $p < 0.001$ $0.217$ Constant $-1.527$ $0.114$ $178.031$ $1$ $p < 0.001$ $0.217$ Constant $-1.527$ $0.114$ $176.419$ $1$ $p < 0.001$ $0.152$ Adulthood SES $-0.515$ $0.130$ $15.752$ $1$ $p < 0.001$ $0.597$ $0.463-0.77$ Current smoker $1.551$ $0.297$ $2.7326$ $1$ $p < 0.001$ $0.141$ Adulthood SES $-0.422$ $0.136$ $9.672$ $1$ $p = 0.002$ $0.655$ $0.502-0.85$ Current smoker $1.552$ $0.307$ $2.533$ $1$ $p < 0.001$	Anxiety	0.305	0.104	8.680	1	<i>p</i> = 0.003	1.357	1.108-1.662
O/I-openness aspect $0.252$ $0.097$ $6.702$ $1$ $p = 0.010$ $1.286$ $1.063-1.55$ Predictors of ENDS current use ( $n = 521$ )         B         S.E.         Wald         DF         Sig.         Exp(b)         Cl           Block 0 (no predictors added) $-1.527$ $0.114$ $178.031$ $1$ $p < 0.001$ $0.217$ Block 1 (adding demographic predictors) $-1.527$ $0.114$ $178.031$ $1$ $p < 0.001$ $0.217$ Constant $-1.527$ $0.114$ $178.401$ $1$ $p < 0.001$ $0.557$ $0.463-0.77$ Constant $-1.885$ $0.142$ $176.419$ $1$ $p < 0.001$ $0.557$ $0.463-0.77$ Current smoker $1.551$ $0.297$ $27.326$ $1$ $p < 0.001$ $0.4718$ $2.637-8.44$ Block 2 (adding psychological predictors)         Constant $-1.956$ $0.149$ $172.400$ $1$ $p < 0.001$ $0.443$ Autithood SES $-0.422$ $0.136$ $9.672$ $1$ $p = 0.002$ $0.655$	Conscientiousness-orderliness aspect	-0.300	0.098	9.429	1	p = 0.002	0.741	0.612-0.897
Predictors of ENDS current use ( $n = 521$ )         B         S.E.         Wald         DF         Sig.         Exp(b)         Cl           Block 0 (no predictors added)         -1.527         0.114         178.031         1 $p < 0.001$ 0.217           Block 1 (adding demographic predictors)         -1.527         0.114         178.031         1 $p < 0.001$ 0.152           Constant         -1.885         0.142         176.419         1 $p < 0.001$ 0.152           Adulthood SES         -0.515         0.130         15.752         1 $p < 0.001$ 0.597         0.463-0.77           Current smoker         1.551         0.297         27.326         1 $p < 0.001$ 0.141           Adulthood SES         -0.422         0.136         9.672         1 $p = 0.002$ 0.655         0.502-0.85           Current smoker         1.552         0.307         25.533         1 $p < 0.001$ 0.141           Adulthood SES         0.278         0.130         4.611 $p = 0.002$ 0.655         0.502-0.85           Current smoker         1.522         0.307         25.533         1 $p < 0.001$ 0.452<	O/I–openness aspect	0.252	0.097	6.702	1	p = 0.010	1.286	1.063-1.556
Block 0 (no predictors added)           Constant $-1.527$ $0.114$ $78.031$ $1$ $p < 0.001$ $0.217$ Block 1 (adding demographic predictors) $-1.885$ $0.142$ $176.419$ $1$ $p < 0.001$ $0.152$ Adulthood SES $-0.515$ $0.130$ $15.752$ $1$ $p < 0.001$ $0.597$ $0.463-0.77$ Current smoker $1.551$ $0.297$ $27.326$ $1$ $p < 0.001$ $0.1431$ Block 2 (adding psychological predictors) $0.149$ $172.400$ $p < 0.001$ $0.141$ Adulthood SES $-0.422$ $0.136$ $9.672$ $p = 0.002$ $0.655$ $0.502-0.85$ Current smoker $1.552$ $0.307$ $25.533$ $p < 0.001$ $4.723$ $2.586-8.62$ Qurrent smoker $0.130$ $4.611$ $p = 0.032$ $1.321$ $1.025-1.70$ Conscientiousness-orderliness aspect $-0.470$ $0.131$ $12.866$ $p < 0.001$ $0.625$ $0.484-0.80$ Predictors of ENDS susceptibility (two groups) ( $n = 239$ )	Predictors of ENDS current use ( $n = 521$ )	В	S.E.	Wald	DF	Sig.	Exp(b)	CI
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Block 1 (adding demographic predictors)         Constant $-1.885$ $0.142$ $176.419$ $1$ $\rho < 0.001$ $0.152$ Adulthood SES $-0.515$ $0.130$ $15.752$ $1$ $\rho < 0.001$ $0.597$ $0.463-0.77$ Current smoker $1.551$ $0.297$ $27.326$ $1$ $\rho < 0.001$ $4.718$ $2.637-8.44$ Block 2 (adding psychological predictors) $-1.956$ $0.149$ $172.400$ $1$ $\rho < 0.001$ $0.141$ Adulthood SES $-0.422$ $0.136$ $9.672$ $p = 0.002$ $0.655$ $0.502-0.85$ Current smoker $1.552$ $0.307$ $25.533$ $p < 0.001$ $4.723$ $2.586-8.62$ Agreeableness-politeness aspect $0.278$ $0.130$ $4.611$ $p = 0.002$ $1.625$ $0.484-0.80$ Or $0.278$ $0.130$ $4.611$ $p < 0.001$ $0.625$ $0.484-0.80$ Or $0.278$ $0.130$ $4.611$ $p < 0.001$ $0.625$ $0.484-0.80$ Or $0.278$ $0.130$ $1.5.86$ $1$ $p < 0.001$ <td>Constant</td> <td>-1.527</td> <td>0.114</td> <td>178.031</td> <td>1</td> <td>p &lt; 0.001</td> <td>0.217</td> <td></td>	Constant	-1.527	0.114	178.031	1	p < 0.001	0.217	
Constant $-1.885$ $0.142$ $176.419$ $1$ $p < 0.001$ $0.152$ Adulthood SES $-0.515$ $0.130$ $15.752$ $1$ $p < 0.001$ $0.597$ $0.463-0.77$ Current smoker $1.551$ $0.297$ $27.326$ $1$ $p < 0.001$ $4.718$ $2.637-8.44$ Block 2 (adding psychological predictors)       U       U $p < 0.001$ $0.141$ $p < 0.001$ $0.141$ Adulthood SES $-0.422$ $0.136$ $9.672$ $1$ $p = 0.002$ $0.655$ $0.502-0.85$ Current smoker $1.552$ $0.307$ $25.533$ $1$ $p < 0.001$ $4.723$ $2.586-8.62$ Qurrent smoker $0.278$ $0.130$ $4.611$ $1$ $p = 0.032$ $1.321$ $1.025-1.70$ Constant $-0.470$ $0.131$ $12.866$ $1$ $p < 0.001$ $0.625$ $0.484-0.80$ Predictors of ENDS susceptibility (two groups) ( $n = 239$ )       B       S.E.       Wald       DF       Sig.       Exp(b)       Cl         Block 1 (adding demographic predictors) $0.151$ $55.006$	Block 1 (adding demographic predictors)							
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Current smoker       1.551       0.297       27.326       1 $p < 0.001$ 4.718       2.637-8.44         Block 2 (adding psychological predictors)       Constant       -1.956       0.149       172.400       1 $p < 0.001$ 0.141         Adulthood SES       -0.422       0.136       9.672       1 $p = 0.002$ 0.655       0.502-0.85         Current smoker       1.552       0.307       25.533       1 $p < 0.001$ 4.723       2.586-8.62         Agreeableness-politeness aspect       0.278       0.130       4.611       1 $p = 0.032$ 1.321       1.025-1.70         Conscientiousness-orderliness aspect       -0.470       0.131       12.866       1 $p < 0.001$ 0.625       0.484-0.80         Predictors of ENDS susceptibility (two groups) ( $n = 239$ )       B       S.E.       Wald       DF       Sig.       Exp(b)       Cl         Block 0 (no predictors added)       -       -       -       -       -       - $p < 0.001$ 0.326       -         Block 1 (adding demographic predictors)       -       -       -       -       -       -       - $p < 0.001$ 0.339       -         Constant	Adulthood SES	-0.515	0.130	15.752	1	p < 0.001	0.597	0.463-0.770
Block 2 (adding psychological predictors)         Constant $-1.956$ $0.149$ $172.400$ 1 $p < 0.001$ $0.141$ Adulthood SES $-0.422$ $0.136$ $9.672$ 1 $p = 0.002$ $0.655$ $0.502-0.85$ Current smoker $1.552$ $0.307$ $25.533$ 1 $p < 0.001$ $4.723$ $2.586-8.62$ Agreeableness-politeness aspect $0.278$ $0.130$ $4.611$ 1 $p = 0.032$ $1.321$ $1.025-1.70$ Conscientiousness-orderliness aspect $-0.470$ $0.131$ $12.866$ 1 $p < 0.001$ $0.625$ $0.484-0.80$ Marceable for so f ENDS susceptibility (two groups) ( $n = 239$ )       B       S.E.       Wald       DF       Sig.       Exp(b)       Cl         Block 0 (no predictors added) $-1.121$ $0.151$ $55.006$ 1 $p < 0.001$ $0.326$ Constant $-1.121$ $0.151$ $55.006$ 1 $p < 0.001$ $0.326$ Block 1 (adding demographic predictors)       No significant results $1.083$ $0.154$ $49.156$ 1 $p < 0.001$ $0.339$	Current smoker	1.551	0.297	27.326	1	p < 0.001	4.718	2.637-8.442
Constant $-1.956$ $0.149$ $172.400$ $1$ $p < 0.001$ $0.141$ Adulthood SES $-0.422$ $0.136$ $9.672$ $1$ $p = 0.002$ $0.655$ $0.502-0.85$ Current smoker $1.552$ $0.307$ $25.533$ $1$ $p < 0.001$ $4.723$ $2.586-8.62$ Agreeableness-politeness aspect $0.278$ $0.130$ $4.611$ $1$ $p = 0.032$ $1.321$ $1.025-1.70$ Conscientiousness-orderliness aspect $-0.470$ $0.131$ $12.866$ $1$ $p < 0.001$ $0.625$ $0.484-0.80$ Predictors of ENDS susceptibility (two groups) ( $n = 239$ )       B       S.E.       Wald       DF       Sig.       Exp(b)       Cl         Block 0 (no predictors added) $-1.121$ $0.151$ $55.006$ $1$ $p < 0.001$ $0.326$ Block 1 (adding demographic predictors)       No significant results $-1.083$ $0.154$ $49.156$ $1$ $p < 0.001$ $0.339$ Constant $-1.083$ $0.154$ $49.156$ $1$ $p = 0.003$ $0.613$ $0.447-0.84$	Block 2 (adding psychological predictors)							
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Current smoker       1.552 $0.307$ $25.533$ 1 $p < 0.001$ $4.723$ $2.586-8.62$ Agreeableness-politeness aspect $0.278$ $0.130$ $4.611$ 1 $p = 0.032$ $1.321$ $1.025-1.70$ Conscientiousness-orderliness aspect $-0.470$ $0.131$ $12.866$ 1 $p < 0.001$ $0.625$ $0.484-0.80$ Predictors of ENDS susceptibility (two groups) ( $n = 239$ )       B       S.E.       Wald       DF       Sig.       Exp(b)       Cl         Block 0 (no predictors added) $-1.121$ $0.151$ $55.006$ 1 $p < 0.001$ $0.326$ Block 1 (adding demographic predictors) $-1.121$ $0.151$ $55.006$ 1 $p < 0.001$ $0.326$ Block 2 (adding psychological predictors) $-1.121$ $0.151$ $55.006$ 1 $p < 0.001$ $0.326$ Constant $-1.083$ $0.154$ $49.156$ 1 $p < 0.001$ $0.339$ Conscientiousness $-0.489$ $0.162$ $9.140$ 1 $p = 0.003$ $0.613$ $0.447-0.84$	Adulthood SES	-0.422	0.136	9.672	1	p = 0.002	0.655	0.502-0.855
Agreeableness-politeness aspect $0.278$ $0.130$ $4.611$ $1$ $p = 0.032$ $1.321$ $1.025-1.70$ Conscientiousness-orderliness aspect $-0.470$ $0.131$ $12.866$ $1$ $p = 0.001$ $0.625$ $0.484-0.80$ Predictors of ENDS susceptibility (two groups) ( $n = 239$ )       B       S.E.       Wald       DF       Sig.       Exp(b)       CI         Block 0 (no predictors added)       Constant $-1.121$ $0.151$ $55.006$ $1$ $p < 0.001$ $0.326$ Block 1 (adding demographic predictors)       No significant results       Block 2 (adding psychological predictors) $-1.083$ $0.154$ $49.156$ $1$ $p < 0.001$ $0.339$ Constant $-1.083$ $0.162$ $9.140$ $1$ $p = 0.003$ $0.613$ $0.447-0.84$	Current smoker	1.552	0.307	25.533	1	p < 0.001	4.723	2.586-8.625
Conscientiousness-orderliness aspect $-0.470$ $0.131$ $12.866$ $1$ $p < 0.001$ $0.625$ $0.484-0.80$ Predictors of ENDS susceptibility (two groups) ( $n = 239$ )       B       S.E.       Wald       DF       Sig.       Exp(b)       Cl         Block 0 (no predictors added)       Constant $-1.121$ $0.151$ $55.006$ $1$ $p < 0.001$ $0.326$ Block 1 (adding demographic predictors)       No significant results       Block 2 (adding psychological predictors) $-1.083$ $0.154$ $49.156$ $1$ $p < 0.001$ $0.339$ Constant $-1.083$ $0.162$ $9.140$ $1$ $p = 0.003$ $0.613$ $0.447-0.84$	Agreeableness-politeness aspect	0.278	0.130	4.611	1	p = 0.032	1.321	1.025-1.703
Predictors of ENDS susceptibility (two groups) ( $n = 239$ )       B       S.E.       Wald       DF       Sig.       Exp(b)       Cl         Block 0 (no predictors added)	Conscientiousness-orderliness aspect	-0.470	0.131	12.866	1	p < 0.001	0.625	0.484-0.808
Block 0 (no predictors added)         Constant $-1.121$ $0.151$ $55.006$ 1 $p < 0.001$ $0.326$ Block 1 (adding demographic predictors)       No significant results         Block 2 (adding psychological predictors) $-1.083$ $0.154$ $49.156$ 1 $p < 0.001$ $0.339$ Constant $-0.489$ $0.162$ $9.140$ 1 $p = 0.003$ $0.613$ $0.447-0.84$	Predictors of ENDS susceptibility (two groups) ( $n = 239$ )	в	S.E.	Wald	DF	Sig.	Exp(b)	CI
Constant $-1.121$ $0.151$ $55.006$ $1$ $p < 0.001$ $0.326$ Block 1 (adding demographic predictors) $V$	Block 0 (no predictors added)							
Block 1 (adding demographic predictors)           No significant results           Block 2 (adding psychological predictors)           Constant         -1.083         0.154         49.156         1 $p < 0.001$ 0.339           Conscientiousness         -0.489         0.162         9.140         1 $p = 0.003$ 0.613         0.447-0.84	Constant	-1.121	0.151	55.006	1	p < 0.001	0.326	
No significant results           Block 2 (adding psychological predictors)           Constant         −1.083         0.154         49.156         1 <i>p</i> < 0.001	Block 1 (adding demographic predictors)							
Block 2 (adding psychological predictors)           Constant         -1.083         0.154         49.156         1         ρ < 0.001	No significant results							
Constant         -1.083         0.154         49.156         1 <i>p</i> < 0.001         0.339           Conscientiousness         -0.489         0.162         9.140         1 <i>p</i> = 0.003         0.613         0.447-0.84	Block 2 (adding psychological predictors)							
Conscientiousness -0.489 0.162 9.140 1 <b>p</b> = 0.003 0.613 0.447-0.84	Constant	-1.083	0.154	49.156	1	p < 0.001	0.339	
	Conscientiousness	-0.489	0.162	9.140	1	p = 0.003	0.613	0.447-0.842

A, agreeable; C, conscientiousness; O/I, openness/intellect.

For each model, we entered all demographic predictors in Block 1 and all psychological predictors in Block 2. Significant predictors within each block were selected using a forward likelihood ration method.

Bolded, significant at the adjusted p < 0.005 (excluding constants).

#### **SUPPLEMENTARY TABLE 1** | Descriptive statistics for the psychological variables (n = 521).

Psychological variables	N items	Response options	Possible range	Observed range	Mean (SD)	Cronbach's α
Perceived stress	10	0 (Never) to 4 (Very often)	0.00-40.00	0.00-40.00	19.72 (8.73)	0.916
Anxiety	7	0 (Not at all) to 3 (Most of the time)	0.00-21.00	0.00-21.00	7.71 (5.04)	0.887
Depressive symptoms	20	0 (Rarely or none of the time (< 1 day )) to 3 (Most of or all of the time (5–7 days))	0.00-60.00	0.00–57.00	20.35 (13.62)	0.943
Curiosity and Exploration	10	1 (Very slightly or Not at all) to 5 (Extremely)	1.00-5.00	1.00-5.00	3.07 (0.86)	0.902
Neuroticism (N)	20	1 (Strongly disagree) to 5 (Strongly agree)	1.00-5.00	1.00-5.00	3.04 (0.85)	0.940
N - Withdrawal	10	1 (Strongly disagree) to 5 (Strongly agree)	1.00-5.00	1.00-5.00	3.18 (0.93)	0.902
N - Volatility	10	1 (Strongly disagree) to 5 (Strongly agree)	1.00-5.00	1.00-5.00	2.90 (0.93)	0.920
Agreeableness (A)	20	1 (Strongly disagree) to 5 (Strongly agree)	1.00-5.00	2.00-5.00	3.82 (0.61)	0.889
A - Compassion	10	1 (Strongly disagree) to 5 (Strongly agree)	1.00-5.00	1.00-5.00	3.82 (0.79)	0.908
A - Politeness	10	1 (Strongly disagree) to 5 (Strongly agree)	1.00-5.00	1.80-5.00	3.82 (0.61)	0.766
Conscientiousness (C)	20	1 (Strongly disagree) to 5 (Strongly agree)	1.00-5.00	1.55-4.85	3.31 (0.62)	0.873
C - Industriousness	10	1 (Strongly disagree) to 5 (Strongly agree)	1.00-5.00	1.20-5.00	3.13 (0.82)	0.885
C - Orderliness	10	1 (Strongly disagree) to 5 (Strongly agree)	1.00-5.00	1.80-5.00	3.48 (0.64)	0.722
Extraversion (E)	20	1 (Strongly disagree) to 5 (Strongly agree)	1.00-5.00	1.20-5.00	3.13 (0.68)	0.903
E - Enthusiasm	10	1 (Strongly disagree) to 5 (Strongly agree)	1.00-5.00	1.20-5.00	3.17 (0.79)	0.865
E - Assertiveness	10	1 (Strongly disagree) to 5 (Strongly agree)	1.00-5.00	1.00-5.00	3.08 (0.78)	0.875
Openness/Intellect (O/I)	20	1 (Strongly disagree) to 5 (Strongly agree)	1.00-5.00	1.75-5.00	3.76 (0.57)	0.866
O/I - Openness	10	1 (Strongly disagree) to 5 (Strongly agree)	1.00-5.00	1.60-5.00	3.77 (0.66)	0.855
O/I - Intellect	10	1 (Strongly disagree) to 5 (Strongly agree)	1.00-5.00	1.10-5.00	3.75 (0.70)	0.800

Measures used: Perceived stress, Perceived stress scale; Anxiety, Hospital anxiety and depression scale (Anxiety sub-scale); Depressive symptoms, Center for epidemiological studies depression scale; Curiosity and exploration, Curiosity and exploration scale-2; Neuroticism to openness/intellect, Big five aspects scale.

**SUPPLEMENTARY TABLE 4** | Results of independent logistic regressions showing estimates in odds ratios (Confidence intervals) for psychological predictors of ends susceptibility based on the three groups categorization.

Psychological predictors	Highly susceptible	Moderately susceptible			
	[Ref: Not susceptible] ( $n = 200$ )	[Ref: Not susceptible] ( $n = 217$ )			
Perceived stress	1.246 (0.814–1.909), p = .311	1.238 (0.886–1.731), p = .211			
Anxiety	1.294 (0.830–2.015), p = .255	1.480 (1.060–2.067), p = .021			
Depressive symptoms	1.242 (0.786–1.962), p = .353	1.216 (0.852–1.735), p = .282			
Curiosity and Exploration	0.616 (0.387–0.981), p = .041	0.869 (0.607–1.244), p = .442			
Neuroticism (N)	1.400 (0.888–2.207), p = .147	1.248 (0.879–1.773), p = .216			
N - Withdrawal	1.256 (0.800–1.971), p = .321	1.427 (0.993–2.051), p = .055			
N - Volatility	1.468 (0.935–2.305), p = .096	1.066 (0.757–1.503), p = .713			
Agreeableness (A)	0.610 (0.402–0.924), p = .020	1.269 (0.891–1.808), p = .186			
A - Compassion	0.640 (0.434–0.942), p = .024	1.234 (0.869–1.753), p = .241			
A - Politeness	0.678 (0.439–1.046), p = .079	1.225 (0.856–1.754), p = .268			
Conscientiousness (C)	0.572 (0.356–0.919), p = .021	0.592 (0.412–0.851), p = .005			
C - Industriousness	0.656 (0.416–1.034), p = .069	0.647 (0.454–0.922), p = .016			
C - Orderliness	0.595 (0.371–0.957), p = .032	0.637 (0.442–0.918), p = .016			
Extraversion (E)	0.773 (0.507–1.179), p = .232	0.794 (0.566–1.113), p = .181			
E - Enthusiasm	0.814 (0.526–1.259), p = .354	0.909 (0.650–1.271), p = .576			
E - Assertiveness	0.767 (0.500–1.175), p = .222	0.724 (0.512–1.025), p = .068			
Openness/Intellect (O/I)	0.714 (0.471–1.083), p = .113	1.202 (0.850–1.701), p = .298			
O/I - Openness	0.844 (0.542–1.313), p = .452	1.361 (0.952–1.947), p = .091			
O/I - Intellect	0.672 (0.447–1.011), p = .056	1.025 (0.735–1.429), p = .855			

Bolded, significant at the adjusted p < .005.