

Supplemental Tables S1–S4

Tables S1 and S2 show results of models controlling for individuals’ pre-stressor depressive symptom scores, yielding estimates of effects on new-onset or incident depressive symptoms. As pre-exposure depressive symptoms strongly overlaps with the risk associated with trait neuroticism, neuroticism is not included as a covariate in this model.

Table S1. Results of zero-inflated Poisson regression for incident depressive symptoms in IHS			
<i>Predictors</i>	<i>Incidence Rate Ratios</i>	<i>CI</i>	<i>p</i>
Count portion of model			
(Intercept)	5.48	5.04 – 5.96	<0.001
MDD-PRS	1.19	1.09 – 1.30	<0.001
Support Change	0.89	0.87 – 0.91	<0.001
Sex	1.06	1.00 – 1.11	0.038
Age	1	0.97 – 1.02	0.75
Pre-exposure depressive symptoms	1.23	1.20 – 1.26	<0.001
Support Change x MDD-PRS	0.97	0.95 – 1.00	0.025
Logistic portion of model			
(Intercept)	0.18	0.08 – 0.38	<0.001
MDD-PRS	1.09	0.51 – 2.36	0.821
Support Change	1.47	1.15 – 1.88	0.002
Sex	0.39	0.24 – 0.63	<0.001
Age	1.25	1.02 – 1.53	0.033
Pre-exposure depressive symptoms	0.14	0.08 – 0.26	<0.001
Support Change x MDD-PRS	1.09	0.85-1.41	0.489

Table S2. Results of zero-inflated Poisson regression for incident depressive symptoms in HRS			
<i>Predictors</i>	<i>Incidence Rate Ratios</i>	<i>CI</i>	<i>p</i>
Count portion of model			
(Intercept)	2.96	2.54 – 3.44	<0.001
MDD-PRS	0.98	0.82 – 1.17	0.817
Support Change	1.07	0.92 – 1.25	0.386
Sex	0.91	0.77 – 1.09	0.315
Age	0.9	0.84 – 0.96	0.002
Pre-exposure Depressive Symptoms	1.22	1.14 – 1.29	<0.001
Support Change x MDD-PRS	0.85	0.72 – 1.00	0.046
Logistic portion of model			
(Intercept)	0.26	0.13 – 0.51	<0.001
MDD-PRS	0.5	0.24 – 1.08	0.078
Support Change	0.85	0.46 – 1.56	0.594
Sex	1.1	0.54 – 2.25	0.784
Age	1.1	0.83 – 1.45	0.501
Pre-exposure Depressive Symptoms	0.69	0.51 – 0.94	0.019
Support Change x MDD-PRS	0.52	0.26 – 1.07	0.075

Tables S3 and S4 show results of main models without adjusting for trait neuroticism score at baseline.

Table S3. Results of zero-inflated Poisson regression for post-exposure depressive symptoms in IHS			
	<i>Incidence Rate Ratios</i>	<i>95% CI</i>	<i>p</i>
Count portion of model			
(Intercept)	5.68	5.23 – 6.18	<0.001
MDD-PRS	1.18	1.08 – 1.28	<0.001
Support Change	0.87	0.85 – 0.89	<0.001
Sex	1.06	1.00 – 1.11	0.034
Age	1.01	0.98 – 1.04	0.469
Support Change x MDD-PRS	0.97	0.95 – 1.00	0.034
Logistic portion of model			
(Intercept)	0.42	0.23 – 0.78	0.006
MDD-PRS	0.97	0.52 – 1.82	0.925
Support Change	1.56	1.23 – 1.97	<0.001
Sex	0.38	0.24 – 0.59	<0.001
Age	1.14	0.94 – 1.38	0.179
Support Change x MDD-PRS	1.07	0.84 – 1.36	0.594

Table S4. Results of zero-inflated Poisson regression for post-exposure depressive symptoms in HRS			
<i>Predictors</i>	<i>Incidence Rate Ratios</i>	<i>95% CI</i>	<i>p</i>
(Intercept)	3.03	2.62 – 3.51	<0.001
Count portion of model			
MDD-PRS	0.96	0.80 – 1.14	0.609
Support Change	1.02	0.87 – 1.18	0.837
Sex	0.94	0.80 – 1.12	0.509
Age	0.89	0.83 – 0.95	0.001
Support Change x MDD-PRS	0.8	0.68 – 0.94	0.007
Logistic portion of model			
(Intercept)	0.29	0.16 – 0.54	<0.001
MDD-PRS	0.52	0.26 – 1.03	0.061
Support Change	0.9	0.51 – 1.59	0.707
Sex	1.02	0.53 – 1.99	0.947
Age	1.12	0.86 – 1.45	0.404
Support Change x MDD-PRS	0.55	0.29 – 1.05	0.07