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Goodyer, IM; Croudace, T; Dudbridge, F; Ban, M; Herbert, J; (2010) Polymorphisms in BDNF (Va166Met) and 5-HTTLPR, morning cortisol and subsequent depression in at-risk adolescents. The British journal of psychiatry, 197 (5). pp. 365-371. ISSN 0007-1250 DOI: <https://doi.org/10.1192/bjp.bp.110.077750>

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Data supplement

Table DS1 Morning waking cortisol \times gender, day of sampling, 5-HTTLPR (the serotonin transporter gene promoter) and BDNF (brain-derived neurotrophic factor gene)^a

	Coefficient	s.e.	z	P	95% CI
Female	0.24	−0.05	4.72	<0.001	0.14 to 0.34
Day of sampling	−0.03	0.01	−2.5	0.013	−0.05 to −0.01
5-HTTLPR	0.11	0.03	3.2	0.001	0.04 to 0.18
BDNF	0.01	0.04	0.17	0.862	−0.76 to 0.1
Constant	0.43	0.11	3.74	0.000	0.21 to 0.65
Variance components					
Between participants	0.43	0.02			0.39 to 0.47
Within participants	0.52	0.01			0.50 to 0.54
Intraclass correlation	0.40	0.03			0.35 to 0.46

a. This multilevel model was obtained from 1545 observations of cortisol assayed from 392 individuals with an average of 3.9 (range 2–4) samples per participant. The log likelihood was −1345.5459 and Akaike's information criterion (AIC) was 2885.092; which gave the best fit. Inclusion of any two-way interactions were non-significant and did not improve the fit (e.g. gender \times 5-HTTLPR and gender \times BDNF, AIC = 2887.669). The intraclass coefficient shows that 60% of the variance for cortisol is within individuals and 40% between individuals.

Tables DS2–4 indicate the adjustment for confounders at entry in predicting depression onset. Effects: adjusted to morning cortisol = 1.04 ng/ml, BDNF = Val66Val, 5-HTTLPR = l/l. The

tables shows no effects of age, gender or minor depression at entry on the overall model or two two-way interactions between BDNF, 5-HTTLPR and morning salivary cortisol.

Table DS2 Sensitivity to age in years and months at entry; logistic regression model ($n = 357$)

Factor	No major depressive disorder ($n = 317$) v. major depressive disorder ($n = 40$)			
	Coefficient	s.e.	Wald χ^2	P
Intercept	−12.9924	3.146	−4.15	<0.0001
Age at entry	0.1578	0.1666	0.95	0.34
Depressive symptoms	2.1427	0.4990	4.29	<0.0001
Morning salivary cortisol	1.4792	0.8652	1.71	0.09
BDNF	2.8254	1.2340	2.29	0.02
5-HTTLPR	−3.1515	1.3096	−2.41	0.02
Life events	1.2629	0.4705	2.68	0.007
BDNF \times morning cortisol	−2.3499	0.9877	−2.40	0.002
5-HTTLPR \times morning cortisol	2.1219	1.0336	2.05	0.04

BDNF, brain-derived neurotrophic factor gene; 5-HTTLPR, the serotonin transporter gene promoter.

Table DS3 Sensitivity to minor depression at entry; logistic regression model ($n = 357$)

Factor	No major depressive disorder ($n = 317$) v. major depressive disorder ($n = 40$)			
	Coefficient	s.e.	Wald χ^2	P
Intercept	−9.227	1.9206	−4.80	<0.00001
Minor depression	0.1578	0.1666	0.95	0.34
Depressive symptoms	1.679	0.5045	3.33	<0.001
Morning salivary cortisol	1.154	0.8700	1.33	0.18
Val66Val BDNF	2.401	1.2346	1.94	0.05
Any 's' 5-HTTLPR	−3.063	1.2995	−2.36	0.02
Life events	1.295	0.4785	2.71	0.007
BDNF \times morning cortisol	−1.946	0.9861	−1.97	0.05
5-HTTLPR \times morning cortisol	2.124	1.0322	2.06	0.04

BDNF, brain-derived neurotrophic factor gene; 5-HTTLPR, the serotonin transporter gene promoter.

Table DS4 Sensitivity to gender; logistic regression model ($n = 357$)				
Factor	No major depressive disorder ($n = 317$) v. major depressive disorder ($n = 40$)			
	Coefficient	s.e.	Wald χ^2	P
Intercept	-10.7837	1.9041	-5.66	<0.0001
Gender	0.1556	0.3924	0.40	0.69
Depressive symptoms	2.0387	0.4845	4.21	<0.0001
Morning salivary cortisol	1.4769	0.8584	1.72	0.08
Val66Val BDNF	2.7865	1.2336	2.26	0.02
Any 's' 5-HTTLPR	-2.9803	1.2876	-2.31	0.02
Life events	1.2658	0.4698	2.69	0.007
BDNF \times morning cortisol	-2.3074	0.9779	-2.36	0.02
5-HTTLPR \times morning cortisol	2.0152	1.0165	1.98	0.05

BDNF, brain-derived neurotrophic factor gene; *5-HTTLPR*, the serotonin transporter gene promoter.