

Data Supplement for Bauer et al., Familiarity of Psychiatric Disorders and Risk of Postpartum Psychiatric Episodes: A Population-Based Cohort Study. Am J Psychiatry (doi: 10.1176/appi.ajp.2018.17111184)

Table S1. Familial risk of psychiatric disorders within 3 months postpartum, by type of disorder and relationship of the proband mother's relative

Table S2. Familial risk of psychiatric disorders within 12 months postpartum, by type of disorder and relationship of the proband mother's relative

Figure S1. Definition of relatives according to proband new mothers

TABLE S1. Familial risk of psychiatric disorders within 3 months postpartum, by type of disorder and relationship of the proband mother's relative.

Relationship to proband new mother	Relatives with any psychiatric vs. no psychiatric disorders		Relatives with schizophrenia vs. no schizophrenia		Relatives with bipolar disorder vs. no bipolar disorder		Relatives with unipolar disorder vs. no unipolar disorder		Relatives with other mood disorder vs. no other mood disorder		Relatives with other psychiatric disorders vs. no other psychiatric disorders	
	HR	95% CI	HR	95% CI	HR	95% CI	HR	95% CI	HR	95% CI	HR	95% CI
All proband mothers ^a												
Mother	1.48	1.19–1.84	1.50	1.02–2.19	3.67	1.97–6.83	1.65	1.19–2.30	1.56	0.50–4.83	0.77	0.44–1.33
Father	1.62	1.27–2.08	1.74	1.15–2.62	3.43	1.54–7.64	1.77	1.20–2.61	2.72	1.22–6.06	0.52	0.22–1.26
Any first-degree relative	1.52	1.29–1.80	1.55	1.17–2.04	3.44	2.10–5.63	1.73	1.34–2.22	2.10	1.09–4.04	0.81	0.56–1.16
Any second-degree relative	1.11	0.94–1.31	0.97	0.74–1.28	1.42	0.78–2.58	1.04	0.81–1.32	1.25	0.60–2.64	1.05	0.80–1.36
Any third-degree relative	1.09	0.80–1.48	2.33	1.21–4.50	-	-	1.12	0.42–3.02	-	-	0.98	0.69–1.37
Any first-deg female relative	1.39	1.14–1.70	1.37	0.95–1.97	3.42	1.84–6.37	1.62	1.17–2.24	1.44	0.46–4.46	0.90	0.61–1.32
Any first-deg male realtive	1.45	1.16–1.81	1.58	1.07–2.33	3.08	1.38–6.88	1.77	1.22–2.55	2.53	1.13–5.63	0.82	0.52–1.28
Proband mothers with no prior psychiatric history ^b												
Mother	1.79	1.31–2.45	1.89	1.11–3.20	4.99	2.24–11.13	1.62	0.97–2.69	4.19	1.35–13.01	0.75	0.28–2.02
Father	1.81	1.27–2.58	0.85	0.35–2.05	4.32	1.62–11.53	2.65	1.66–4.22	4.17	1.56–11.15	0.29	0.04–2.10
Any first-degree relative	1.75	1.38–2.21	1.47	0.95–2.26	4.54	2.44–8.47	2.16	1.54–3.03	4.06	1.93–8.53	0.59	0.29–1.20
Any second-degree relative	1.26	1.00–1.58	1.18	0.81–1.70	1.66	0.79–3.50	1.07	0.77–1.51	1.19	0.38–3.70	1.31	0.90–1.90
Any third-degree relative	1.17	0.76–1.82	2.89	1.19–6.98	-	-	0.65	0.09–4.66	-	-	1.04	0.63–1.70
Any first-deg female relative	1.61	1.20–2.16	1.84	1.12–3.02	4.65	2.08–10.38	1.74	1.08–2.81	3.86	1.24–12.00	0.68	0.32–1.44
Any first-deg male realtive	1.66	1.21–2.29	0.97	0.46–2.05	3.96	1.48–10.57	2.87	1.86–4.43	3.91	1.47–10.45	0.47	0.18–1.26
Proband mothers with prior psychiatric history ^b												
Mother	1.32	0.97–1.78	1.20	0.70–2.09	2.60	0.97–6.95	1.67	1.08–2.58	-	-	0.88	0.45–1.72
Father	1.51	1.07–2.14	2.43	1.52–3.89	2.29	0.57–9.20	1.03	0.51–2.06	1.51	0.38–6.05	0.73	0.27–1.95
Any first-degree relative	1.40	1.11–1.76	1.59	1.11–2.29	2.40	1.07–5.37	1.39	0.96–2.03	0.75	0.19–3.01	1.05	0.69–1.60
Any second-degree relative	1.01	0.79–1.29	0.80	0.53–1.22	1.17	0.43–3.12	1.04	0.74–1.47	1.37	0.51–3.68	0.96	0.66–1.40
Any third-degree relative	1.13	0.73–1.73	2.08	0.77–5.59	-	-	1.68	0.54–5.28	-	-	1.01	0.63–1.63
Any first-deg female relative	1.30	0.99–1.71	1.02	0.59–1.77	2.45	0.92–6.55	1.54	1.00–2.39	-	-	1.15	0.74–1.81
Any first-deg male realtive	1.35	0.99–1.84	2.04	1.29–3.23	2.07	0.52–8.31	0.90	0.45–1.80	1.40	0.35–5.62	1.14	0.69–1.90

Figures are hazard ratios (95% confidence intervals); ^a adjusted for calendar year at delivery and age at delivery and stratified by previous psychiatric history of the proband mothers ; ^b adjusted for calendar year at delivery and age at delivery.

TABLE S2. Familial risk of psychiatric disorders within 12 months postpartum, by type of disorder and relationship of the proband mother's relative.

Relationship to proband new mother	Relatives with any psychiatric vs. no psychiatric disorders		Relatives with schizophrenia vs. no schizophrenia		Relatives with bipolar disorder vs. no bipolar disorder		Relatives with unipolar disorder vs. no unipolar disorder		Relatives with other mood disorder vs. no other mood disorder		Relatives with other psychiatric disorders vs. no other psychiatric disorders	
	HR	95% CI	HR	95% CI	HR	95% CI	HR	95% CI	HR	95% CI	HR	95% CI
All proband mothers ^a												
Mother	1.48	1.30–1.69	1.44	1.14–1.82	2.38	1.48–3.83	1.59	1.30–1.95	2.40	1.39–4.13	1.08	0.83–1.40
Father	1.49	1.27–1.73	1.38	1.05–1.83	3.16	1.87–5.34	1.62	1.27–2.07	1.94	1.10–3.43	1.01	0.70–1.44
Any first-degree relative	1.42	1.29–1.58	1.36	1.14–1.62	2.66	1.88–3.77	1.60	1.37–1.87	2.17	1.47–3.19	0.98	0.81–1.17
Any second-degree relative	1.17	1.06–1.29	1.05	0.90–1.23	1.01	0.67–1.52	1.20	1.05–1.37	1.48	1.00–2.19	1.22	1.06–1.41
Any third-degree relative	1.31	1.11–1.53	1.81	1.81–2.75	2.28	0.32–16.17	1.47	0.91–2.38	1.05	0.15–7.49	1.23	1.03–1.47
Any first-deg female relative	1.36	1.20–1.53	1.32	1.06–1.66	2.36	1.48–3.75	1.57	1.29–1.92	2.39	1.41–4.04	0.97	0.79–1.19
Any first-deg male realtive	1.29	1.12–1.48	1.24	0.95–1.62	3.05	1.84–5.06	1.57	1.25–1.99	1.97	1.14–3.39	0.90	0.71–1.14
Proband mothers with no prior psychiatric history ^b												
Mother	1.74	1.43–2.11	1.72	1.22–2.42	3.25	1.74–6.04	1.62	1.18–2.23	3.13	1.40–6.97	1.34	0.87–2.07
Father	1.79	1.44–2.23	1.44	0.95–2.19	3.50	1.75–7.00	2.23	1.63–3.05	2.32	1.04–5.17	0.89	0.46–1.71
Any first-degree relative	1.68	1.45–1.95	1.62	1.25–2.09	3.25	2.04–5.17	1.90	1.52–2.38	2.58	1.46–4.55	1.05	0.76–1.43
Any second-degree relative	1.35	1.18–1.54	1.31	1.06–1.62	1.15	0.67–1.99	1.30	1.08–1.57	1.97	1.16–3.33	1.49	1.21–1.84
Any third-degree relative	1.39	1.10–1.77	2.22	1.22–4.02	3.70	0.52–26.32	1.07	0.44–2.58	-	-	1.29	1.00–1.68
Any first-deg female relative	1.58	1.32–1.90	1.73	1.26–2.37	3.04	1.63–5.66	1.65	1.21–2.23	2.88	1.29–6.42	1.12	0.80–1.59
Any first-deg male realtive	1.62	1.33–1.97	1.44	0.98–2.10	3.21	1.61–6.44	2.27	1.68–3.06	2.17	0.97–4.84	0.88	0.57–1.34
Proband mothers with prior psychiatric history ^b												
Mother	1.37	1.16–1.63	1.25	0.91–1.73	1.71	0.81–3.58	1.58	1.21–2.07	2.02	0.96–4.24	1.06	0.76–1.48
Father	1.30	1.05–1.61	1.33	0.92–1.94	2.67	1.20–5.96	1.15	0.78–1.70	1.63	0.73–3.63	1.15	0.75–1.76
Any first-degree relative	1.29	1.12–1.48	1.17	0.92–1.50	2.12	1.25–3.59	1.40	1.12–1.74	1.89	1.12–3.20	1.03	0.81–1.29
Any second-degree relative	1.06	0.93–1.22	0.87	0.69–1.09	0.89	0.48–1.67	1.15	0.95–1.38	1.16	0.64–2.11	1.13	0.93–1.37
Any third-degree relative	1.33	1.07–1.65	1.62	0.89–2.95	-	-	1.88	1.06–3.33	1.52	0.21–10.84	1.26	1.00–1.59
Any first-deg female relative	1.27	1.08–1.49	1.06	0.77–1.47	1.83	0.91–3.67	1.55	1.20–2.01	2.14	1.07–4.29	0.98	0.75–1.27
Any first-deg male realtive	1.12	0.92–1.35	1.09	0.76–1.58	2.79	1.33–5.87	1.10	0.76–1.59	1.77	0.84–3.72	0.98	0.73–1.31

Figures are hazard ratios (95% confidence intervals); ^a adjusted for calendar year at delivery and age at delivery and stratified by previous psychiatric history of the proband mothers ; ^b adjusted for calendar year at delivery and age at delivery.

FIGURE S1. Definition of relatives according to proband new mothers.

Definition of relatives according to proband mothers		1 st degree relatives (a=0.5)	2 nd degree relatives (a=0.25)	3 rd degree relatives (a=0.125)
Generation			Grandparents	
Generation		Parents	Uncles/aunts	
Generation	Proband mother	Full siblings	Half siblings	First Cousins

a=additive genetic coefficient of relationship