

**Table S1** Risk of Preterm Birth Stratified by Variables using Cox Regression Model

Stratified	With antidepressants			Without antidepressants (matched)			With vs. Without (matched)			
	Event	PMs	Rate (per 10 <sup>3</sup> PMs)	Event	PMs	Rate (per 10 <sup>3</sup> PMs)	Ratio	Adjusted HR*	95% CI	P
<b>Total</b>	87	16,373.60	5.31	55	16,381.25	3.36	1.582	1.762	1.351-2.294	<0.001
<b>1<sup>st</sup> pregnancy</b>										
Yes	55	8,124.68	6.77	34	8,135.27	4.18	1.620	1.805	1.384-2.350	<0.001
No	32	8,248.92	3.88	21	8,245.98	2.55	1.524	1.698	1.301-2.111	<0.001
<b>Age group (years)</b>										
18–34	29	2,632.48	11.02	29	2,659.20	10.91	1.010	1.124	0.862-1.467	0.481
35–55	58	13,741.12	4.22	26	13,722.05	1.89	2.227	2.481	1.903-3.231	<0.001
<b>Insured premium (New Taiwan Dollar)</b>										
<18,000	79	16,160.90	4.89	50	16,158.23	3.09	1.580	1.760	1.351-2.291	<0.001
18,000–34,999	5	128.70	38.85	3	127.25	23.58	1.648	1.834	1.407-2.392	<0.001
≥35,000	3	84.00	35.71	2	95.77	20.88	1.710	1.903	1.462-2.483	<0.001
<b>Anxiety disorder</b>										
Without	36	8,532.87	4.22	24	8,536.14	2.81	1.501	1.673	1.282-2.177	<0.001
With	51	7,840.73	6.50	31	7,845.11	3.95	1.645	1.834	1.405-2.386	<0.001
<b>Multiple gestation</b>										
Without	83	16,314.63	5.09	54	16,318.66	3.31	1.538	1.713	1.314-2.231	<0.001
With	4	58.97	67.83	1	62.59	15.98	4.245	4.725	3.622-6.148	<0.001
<b>Diabetes mellitus</b>										
Without	70	13,850.93	5.05	53	13,851.11	3.83	1.320	1.470	1.127-1.914	<0.001
With	17	2,522.67	6.74	2	2,530.14	0.79	8.527	9.425	7.288-12.648	<0.001
<b>Hypertension</b>										

Without	68	12,690.77	5.36	48	12,691.04	3.78	1.417	1.572	1.210-2.059	<0.001
With	19	3,682.83	5.16	7	3,690.21	1.90	2.720	3.011	2.318-3.975	<0.001
<b>Dyslipidemia</b>										
Without	74	14,873.47	4.98	53	14,872.31	3.56	1.397	1.579	1.182-2.027	<0.001
With	13	1,500.13	8.67	2	1,508.94	1.33	6.541	7.101	5.483-9.120	<0.001
<b>Uteroplacental ischemia and hemorrhage</b>										
Without	87	16,373.60	5.31	55	16,381.25	3.36	1.582	1.762	1.351-2.294	<0.001
With	0	0	-	0	0	-	-	-	-	-
<b>Reproductive tract infection</b>										
Without	84	16,306.71	5.15	54	16,312.43	3.31	1.556	1.730	1.325-2.258	<0.001
With	3	66.89	44.85	1	68.82	14.53	3.087	3.421	2.638-4.422	<0.001
<b>Preeclampsia</b>										
Without	84	16,346.70	5.14	55	16,360.60	3.36	1.529	1.703	1.306-2.214	<0.001
With	3	26.90	111.54	0	20.65	0	∞	∞	-	0.998
<b>Eclampsia</b>										
Without	87	16,373.60	5.31	55	16,381.25	3.36	1.582	1.762	1.351-2.294	<0.001
With	0	0	-	0	0	-	-	-	-	-
<b>Placenta previa</b>										
Without	86	16,337.60	5.26	55	16,346.14	3.36	1.563	1.741	1.333-2.268	<0.001
With	1	36.00	27.78	0	35.11	0	∞	∞	-	0.996
<b>Abruptio placenta</b>										
Without	87	16,373.60	5.31	55	16,381.25	3.36	1.582	1.762	1.351-2.294	<0.001
With	0	0	-	0	0	-	-	-	-	-
<b>Polycystic ovaries</b>										
Without	87	16,352.62	5.32	55	16,371.41	3.36	1.584	1.763	1.352-2.299	<0.001

With	0	20.98	0	0	9.84	0	∞	∞	-	0.995
<b>Hypogonadism</b>										
Without	87	16,373.60	5.31	55	16,381.25	3.36	1.582	1.762	1.351-2.294	<0.001
With	0	0	-	0	0	-	-	-	-	-
<b>Hypergonadism</b>										
Without	87	16,373.60	5.31	55	16,381.25	3.36	1.582	1.762	1.351-2.294	<0.001
With	0	0	-	0	0	-	-	-	-	-
<b>Pregnancy with history of infertility</b>										
Without	87	16,340.46	5.32	55	16,357.30	3.36	1.582	1.763	1.353-2.294	<0.001
With	0	33.14	0	0	23.95	0	∞	∞	-	0.998
<b>Morbid obesity or overweight</b>										
Without	87	16,363.74	5.32	55	16,370.37	3.36	1.583	1.764	1.355-2.297	<0.001
With	0	9.86	0	0	10.88	0	∞	∞	-	0.999
<b>Urbanization level</b>										
1 (highest)	34	5,605.25	6.07	25	5,608.13	4.46	1.362	1.346	1.128-1.973	<0.001
2	37	7,578.41	4.88	23	7,579.11	3.03	1.608	1.793	1.377-2.345	<0.001
3	8	1,027.20	7.79	4	1,028.34	3.89	2.003	2.234	1.712-2.906	<0.001
4 (lowest)	8	2,162.74	3.70	3	2,165.67	1.39	2.671	2.971	2.280-3.875	<0.001
<b>Level of care</b>										
Hospital center	28	5,456.31	5.13	23	5,462.30	4.21	1.218	1.357	1.040-1.769	0.011
Regional hospital	36	7,253.70	4.96	21	7,248.26	2.90	1.712	1.908	1.464-2.488	<0.001
Local hospital	23	3,663.59	6.28	11	3,670.69	3.00	2.096	2.311	1.782-3.048	<0.001

Abbreviations: CI, confidence interval; HR, hazard ratio; PMs, person-months

\* Adjusted for variables including age, income-related insurance premium, hospital types, urbanization levels, nulliparity or multiparity, multiple gestation, diabetes mellitus, hypertension, dyslipidemia, uteroplacental ischemia or hemorrhage, reproductive tract infection, preeclampsia, eclampsia, placenta previa, abruptio placenta, polycystic ovaries, hypogonadism, hypergonadism, pregnancy with history of infertility, morbid obesity or being overweight, and anxiety disorders excluding stratified variables.

**Table S2** Risk of Preterm Birth, by Different Definitions of Preterm Birth

Preterm birth	Antidepressants	Population	Event	PMs	Rate (per 10 <sup>3</sup> PMs)	Adjusted HR*	95% CI	P
<37 gestational weeks	Without antidepressants	1,789	55	16,381.25	3.36	Reference		
	With antidepressants	1,789	87	16,373.60	5.31	1.762	1.351–2.294	<0.001
≤35 gestational weeks	Without antidepressants	1,789	52	16,379.45	3.17	Reference		
	With antidepressants	1,789	85	16,371.88	5.19	1.820	1.395–3.093	<0.001

Note. CI, confidence interval; HR, hazard ratio; PMs, person-months.

\*Adjusted for variables including age, income-related insurance premium, hospital types, urbanization levels, nulliparity or multiparity, multiple gestation, diabetes mellitus, hypertension, dyslipidemia, uteroplacental ischemia or hemorrhage, reproductive tract infection, preeclampsia, eclampsia, placenta previa, abruptio placenta, polycystic ovaries, hypogonadism, hypergonadism, pregnancy with history of infertility, morbid obesity or being overweight, and anxiety disorders.

**Table S3** Risk of Preterm Birth in the Original Cohort Without Matching but Adjusted for All Potential Confounders

	With antidepressants				Without antidepressants				With vs. Without			
	Population	Event	PMs	Rate (per 10 <sup>3</sup> PMs)	Population	Event	PMs	Rate (per 10 <sup>3</sup> PMs)	Ratio	Adjusted HR	95% CI	P
Original cohort	1,789	87	16,373.60	5.31	8,825	297	80,812.67	3.67	1.446	1.510	1.137-1.982	<0.001
1:1 matching	1,789	87	16,373.60	5.31	1,789	55	16,381.25	3.36	1.582	1.762	1.351-2.294	<0.001

Note. CI, confidence interval; HR, hazard ratio; PMs, person-months.

\*Adjusted for variables including age, income-related insurance premium, hospital types, urbanization levels, nulliparity or multiparity, multiple gestation, diabetes mellitus, hypertension, dyslipidemia, uteroplacental ischemia or hemorrhage, reproductive tract infection, preeclampsia, eclampsia, placenta previa, abruptio placenta, polycystic ovaries, hypogonadism, hypergonadism, pregnancy with history of infertility, morbid obesity or being overweight, and anxiety disorders.