

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 ³ PMs)	Event	PMs	Rate (per 10 ³ PMs)	Ratio	Adjusted HR*	95% CI	P
Total	87	16,373.60	5.31	55	16,381.25	3.36	1.582	1.762	1.351-2.294	<0.001
1st pregnancy										
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
Age group (years)										
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
Insured premium (New Taiwan Dollar)										
<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
Anxiety disorder										
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
Multiple gestation										
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
Diabetes mellitus										
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
Hypertension										

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
Dyslipidemia										
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
Uteroplacental ischemia and hemorrhage										
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	-	-	-	-	-
Reproductive tract infection										
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
Preeclampsia										
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
Eclampsia										
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	-	-	-	-	-
Placenta previa										
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
Abruptio placenta										
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	-	-	-	-	-
Polycystic ovaries										
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
Hypogonadism										
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	-	-	-	-	-
Hypergonadism										
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	-	-	-	-	-
Pregnancy with history of infertility										
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
Morbid obesity or overweight										
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
Urbanization level										
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
Level of care										
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 ³ 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 ³ PMs)	Population	Event	PMs	Rate (per 10 ³ 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.