

**Supplementary Table 1** Covariate-adjusted hazard ratios for Parkinson's disease among the sampled patients ( $n=15812$ )

Variables	Parkinson's disease		
	Hazard ratio	95% Confidence Interval	<i>p</i> value
Pioglitazone exposure			
Yes	0.90	0.68-1.18	0.431
No (reference group)			
Geographic region			
Northern (reference group)			
Central	1.03	0.73-1.46	0.864
Southern	1.13	0.82-1.54	0.458
Eastern	0.35	0.11-1.12	0.076
Urbanization level			
1 (reference group)			
2	0.99	0.70-1.40	0.970
3	0.86	0.56-1.33	0.496
4	1.41	0.94-2.14	0.101
5	0.92	0.57-1.48	0.731
Monthly income			
NT\$0~15,840 (reference group)			
NT\$15,841~25,000	0.82	0.60-1.10	0.188
≥NT\$25,001	0.39	0.19-0.78	0.008
Comorbidities			
Hypertension	1.20	0.90-1.59	0.219
Hyperlipidemia	0.72	0.54-0.96	0.026
Depressive disorder	2.10	1.50-2.94	<.0001
Insomnia	1.39	1.07-1.80	0.013
Stroke	2.31	1.78-3.00	<.0001
Head injury	1.54	1.01-2.36	0.046
Medication use			
Aspirin	1.03	0.79-1.35	0.833
Statins	1.14	0.84-1.53	0.409
Angiotensin receptor blockers	0.94	0.70-1.25	0.650