

Supplementary Material



Characteristics of Non-Emergent Visits in Emergency Departments: Profiles and Longitudinal Pattern Changes in Taiwan, 2000–2010

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Table S1. Average marginal effect (AME) by factors for non-emergent ED visits from three representative study cohorts (LHID2000, LHID2005, LHID2010) in Taiwan. (n = 1,000,000 for each cohort, total ED visits, n = 475,862).

	Average	Average marginal effect (AME) ¹		
	AME	(95 % C.I.)	P-value	e Sig.²
Systematic-level factor				
2000	-2.72	(-3.092.35)	< 0.001	***
2005		-base level-		
2010	3.72	(3.38-4.05)	< 0.001	***
Personal-level factors				
Demographic factor				
Gender				
Female		-base level-		
Male	-5.89	(-6.185.60)	< 0.001	
Age group				
0-19		-base level-		
20-39	-3.55	(-4.073.04)	< 0.001	***
40-59	-4.69	(-5.234.16)	< 0.001	***
60-79	-4.43	(-4.963.91)	< 0.001	***
80-	-7.48	(-8.186.78)	< 0.001	***
Socio-economic factors				
Income (NTD)				
Dependent		-base level-		
1-19999	-1.62	(-2.051.19)	< 0.001	***
20000-39999	-0.48	(-0.97-0.01)	0.057	
40000-	1.13	(0.45-1.80)	0.001	**
Geographical Residence				
Northern area		-base level-		
Eastern area	-2.65	(-3.471.83)	< 0.001	***
Middle area	3.95	(3.53-4.36)	< 0.001	***
Southern area	2.66	(2.31-3.01)	< 0.001	***
Urbanization of living area				

Most urbanization	0.03	(-0.35-0.41)	0.871	
More urbanization		-base level-		
Middle urbanization	-0.61	(-1.040.19)	0.005	**
Less urbanization	-0.75	(-1.210.29)	0.001	**
Least urbanization	-2.41	(-2.941.87)	< 0.001	***
Past health utilization in last year				
Any hospitalization				
None		-base level-		
One time	-1.97	(-2.401.54)	< 0.001	***
>= two times	-4.39	(-4.953.83)	< 0.001	***
No. of ED visits				
None		-base level-		
Low (1-2 times)	-0.96	(-1.280.63)	< 0.001	***
High (>=3 times)	-2.45	(-2.902.01)	< 0.001	***
No. of outpatient visits				
Low (0-11 times)		-base level-		
Middle (12-26 times)	0.39	(0.04-0.74)	0.03	*
High (>= 27 times)	0.91	(0.51-1.32)	< 0.001	***
No. of TCM ³ outpatient visits				
None		-base level-		
Low (1-2 times)	0.89	(0.49-1.30)	< 0.001	***
High (>= 3 times)	1.23	(0.84-1.63)	< 0.001	***
ED visit-level factors				
Hospital accreditation level				
Medical centers	-3.18	(-3.522.84)	< 0.001	***
Metropolitan hospitals		-base level-		
Local community hospitals	0.31	(-0.04-0.67)	0.085	
Season				
Spring (Mar-May)	0.46	(0.07-0.85)	0.02	*
Summer (Jun-Aug)	3.06	(2.67-3.45)	< 0.001	***
Fall (Sep-Nov)	1.11	(0.71-1.51)	< 0.001	***
Winter (Dec-Feb)		-base level-		
Holiday				
No		-base level-		
Yes	0.54	(-0.01-1.10)	0.056	
Day of the Week				
Sunday	2.13	(1.42-2.85)	< 0.001	***
Monday	1.09	(0.54-1.64)	< 0.001	***
Tuesday	0.93	(0.37-1.49)	0.001	**
Wednesday	0.44	(-0.13-1.00)	0.129	
Thursday		-base level-		
Friday	0.49	(-0.08-1.05)	0.091	

Saturday	0.53 (-0.16-1.23) 0.131
Cost-sharing	
Yes	-base level-
Waived	3.15 (2.74-3.56) <0.001 ***

¹ AME were calculated using a logistic model adjusted for listed factors in addition to Charlson's index. The most frequent level of each factor was used as the base value. ² Significance level: *: P<0.05; **: P<0.01; ***: P<0.001. ³ TCM: Traditional Chinese Medicine was considered a mainstream visit in addition to outpatient clinics and covered in Taiwan's insurance scheme.



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