

Supplementary Table 2 Characteristics of acute coma cohort

	Total acute coma		Reversible coma		Hospitalization		30-day mortality		p-value
	n	(%)	n	(%)	n	(%)	n	(%)	
Total	205,747	(100.00)	93,598	(45.49)	85,712	(41.66)	26,437	(12.85)	<0.001
Sex									
Male	111,897	(54.39)	49,738	(53.14)	46,910	(54.73)	15,249	(57.68)	<0.001
Female	93,850	(45.61)	43,860	(46.86)	38,802	(45.27)	11,188	(42.32)	
Age	58.27	±23.04	39.81	±19.99	52.93	±22.93	70.99	±16.90	<0.001
Age group									
<18	61,756	(30.02)	38,509	(13.56)	19,661	(22.94)	3,586	(13.56)	<0.001
18-64	49,039	(23.83)	22,955	(23.88)	19,771	(23.07)	6,313	(23.88)	
≥ 65	94,952	(46.15)	32,134	(62.56)	46,280	(53.99)	16,538	(62.56)	
CCI index									
CCI≤1	133,867	(65.06)	73,552	(78.58)	46,694	(54.48)	13,621	(51.52)	<0.001
CCI>1	71,880	(34.94)	20,046	(21.42)	39,018	(45.52)	12,816	(48.48)	
Income									
Low	58,488	(28.43)	26,255	(28.05)	25,054	(29.23)	7,179	(27.15)	<0.001
Middle	73,869	(35.90)	35,899	(38.35)	29,228	(34.10)	8,742	(33.07)	
High	73,390	(35.67)	31,444	(33.60)	31,430	(36.67)	10,516	(39.78)	
Occupation									
Dependents of the insured individuals	62,271	(30.27)	27,616	(29.50)	26,700	(31.15)	7,955	(30.09)	<0.001
Civil servants, teachers, military, veterans	2,915	(1.42)	1,429	(1.53)	1,151	(1.34)	335	(1.27)	
Nonmanual workers and professionals	20,121	(9.78)	11,891	(12.70)	6,401	(7.47)	1,829	(6.92)	
Manual workers	72,036	(35.01)	29,707	(31.74)	31,824	(37.13)	10,505	(39.73)	
Other	48,404	(23.53)	22,955	(24.53)	19,636	(22.91)	5,813	(21.99)	
Urbanization									
Urban	83,476	(40.57)	41,892	(44.76)	31,882	(37.20)	9,702	(36.70)	<0.001
Suburban	76,632	(37.25)	33,150	(35.42)	33,456	(39.03)	10,026	(37.97)	
Rural	45,639	(22.18)	18,556	(19.82)	20,374	(23.77)	6,709	(25.38)	
Causes of acute coma									<0.001
Neurological cause group	56,790	(27.60)	22,153	(23.67)	24,430	(28.50)	10,207	(38.61)	<0.001
CNS	30,065	(14.61)	8,183	(8.74)	14,639	(17.08)	7,243	(27.40)	
Encephalopathy	6,700	(3.26)	2,616	(2.79)	3,573	(4.17)	511	(1.93)	
Seizure	2,225	(1.08)	1,157	(1.24)	1,020	(1.19)	48	(0.18)	
Trauma	17,800	(8.65)	10,197	(10.89)	5,198	(6.06)	2,405	(9.10)	
Medical cause group	137,330	(66.75)	65,158	(69.61)	57,007	(66.51)	15,165	(57.36)	
Alcohol	2,533	(1.23)	2,255	(2.41)	257	(0.30)	21	(0.08)	
Cardiovascular	19,367	(9.41)	7,938	(8.48)	8,148	(9.51)	3,281	(12.41)	
Diabetes and insulin	11,155	(5.42)	4,178	(4.46)	5,529	(6.45)	1,448	(5.48)	
Digestive	19,904	(9.67)	9,364	(10.00)	7,968	(9.30)	2,572	(9.73)	
Drugs	5,036	(2.45)	2,002	(2.14)	1,941	(2.26)	1,093	(4.13)	
Electrolyte	456	(0.22)	249	(0.27)	152	(0.18)	55	(0.21)	
Endocrine	2,427	(1.18)	1,086	(1.16)	904	(1.05)	437	(1.65)	
Genitourinary	3,463	(1.68)	1,836	(1.96)	1,327	(1.55)	300	(1.13)	
Hematology	587	(0.29)	292	(0.31)	228	(0.27)	67	(0.25)	
Infection	31,063	(15.10)	14,714	(15.72)	14,005	(16.34)	2,344	(8.87)	
Musculoskeletal and integumentary	6,144	(2.99)	3,659	(3.91)	2,208	(2.58)	277	(1.05)	
Neoplasm	10,062	(4.89)	3,938	(4.21)	4,459	(5.20)	1,665	(6.30)	
Renal	3,564	(1.73)	1,149	(1.23)	1,884	(2.20)	531	(2.01)	
Respiratory	9,419	(4.58)	3,550	(3.79)	5,007	(5.84)	862	(3.26)	
Women's health and perinatal care	12,150	(5.91)	8,948	(9.56)	2,990	(3.49)	212	(0.80)	
Functional cause group	11,627	(5.65)	6,287	(6.72)	4,275	(4.99)	1,065	(4.03)	
Psychiatry	4,765	(2.32)	2,923	(3.12)	1,827	(2.13)	15	(0.06)	
Symptoms	1,379	(0.67)	881	(0.94)	342	(0.40)	156	(0.59)	
Syncope	521	(0.25)	352	(0.38)	169	(0.20)	0	(0.00)	
Others	4,962	(2.41)	2,131	(2.28)	1,937	(2.26)	894	(3.38)	
Outcome									
ICU	54,614	(26.54)	0	(0.00)	39,144	(45.67)	15,470	(58.52)	<0.001
LSTs	84,538	(41.09)	10,578	(11.30)	50,056	(58.40)	23,904	(90.42)	<0.001
Rehab	29,273	(14.23)	4,816	(5.15)	23,728	(27.68)	729	(2.76)	<0.001
Nursing home	3,861	(1.88)	492	(0.53)	3,261	(3.80)	108	(0.41)	<0.001
Disable	13,514	(6.57)	2,856	(3.05)	10,629	(12.40)	29	(0.11)	<0.001

CCI: Charlson Comorbidity Index; CI: confidence interval; CNS: central nervous system; ED: emergency department;

ICU: intensive care units; LST: life-sustaining treatment;

Chi-Square Test analyzed category variables distribution among groups; continue variable by One-way ANOVA.