

Supplementary Table S1. The ICD-9-CM codes used in the study

	ICD-9-CM codes
Study cohort	
Obstructive sleep apnea	780.51, 780.53, 780.57;
Events: Injury	800-999, E800-E999
<i>Injury diagnosis</i>	
Fracture	800-829
Dislocation	830-839
Sprains and strains	840-849
Intracranial / internal injury	850-869
Open wound	870-899
Injury to blood vessels	900-904
Superficial injury / contusion	910-924
Crushing	925-929
Foreign body entering through orifice	930-939
Burn	940-949
Injury to nerves and spinal cord	950-957
Poisoning	960-989
Others injury	800-999 excluding listed above
<i>Cause of injury</i>	
Unintentional	E800-E949
Traffic	E800-E848
Poisoning (drugs / medicaments / biologicals)	E850-E858
Poisoning (solid and liquid substances / gases / vapors)	E860-E869
Surgical / medical care	E870-E876
Abnormal reaction of medical procedures	E878-E879
Falls	E880-E888
Burns and fires	E890-E899
Environment	E900-E909
Drowning	E910
Suffocation	E911-E915
Other unintentional injuries	E916-E928
Late effects	E929
Adverse drug reaction	E930-E949
Intentional	E950-E969
Suicide	E950-E959
Homicide / Abuse	E960-E969
Comorbidities	
Diabetes mellitus	250
Hypertension	401-405
Hyperlipidemia	278

Cerebrovascular disease	410-414
Stroke	430-438
Obesity	278
Anxiety	300.0, 300.2-300.3, 300.9
Depression	296.2-296.3, 300.4, 311

Supplementary Table S2. Baseline characteristics of cohort and comparison cohort in the baseline

OSA Variables	Total		With		Without		P
	n	%	n	%	n	%	
Total	34,575		6,915	20.00	27,660	80.00	
Gender							0.999
Male	23,200	67.10	4,640	67.10	18,560	67.10	
Female	11,375	32.90	2,275	32.90	9,100	32.90	
Age (y)	56.13 ± 17.94		56.11 ± 17.53		56.14 ± 18.04		0.901
Age group (y)							0.999
20-44	8,630	24.96	1,726	24.96	6,904	24.96	
45-64	12,180	35.23	2,436	35.23	9,744	35.23	
≥ 65	13,765	39.81	2,753	39.81	11,012	39.81	
DM							0.983
Without	28,728	83.09	5,745	83.08	22,983	83.09	
With	5,847	16.91	1,170	16.92	4,677	16.91	
HTN							0.947
Without	31,492	91.08	6,297	91.06	25,195	91.09	
With	3,083	8.92	618	8.94	2,465	8.91	
Hyperlipidemia							0.946
Without	34,233	99.01	6,846	99.00	27,387	99.01	
With	342	0.99	69	1.00	273	0.99	
CVD							0.980
Without	30,643	88.63	6,128	88.62	24,515	88.63	
With	3,932	11.37	787	11.38	3,145	11.37	
Stroke							0.987
Without	30,423	87.99	6,085	88.00	24,338	87.99	
With	4,152	12.01	830	12.00	3,322	12.01	
Obesity							0.799
Without	34,479	99.72	6,895	99.71	27,584	99.73	
With	96	0.28	20	0.29	76	0.27	
Anxiety							0.899
Without	34,186	98.87	6,836	98.86	27,350	98.88	
With	389	1.13	79	1.14	310	1.12	
Depression							0.959
Without	33,972	98.26	6,794	98.25	27,178	98.26	

With	603	1.74	121	1.75	482	1.74
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P: Chi-square / Fisher exact test on category variables and t-test on continue variables.

Abbreviations: OSA = obstructive sleep apnea; y = years; DM = diabetes mellitus; HTN = hypertension; CVD = cardiovascular disease.

Table S3. Years of follow-up

OSAs	Min	Median	Max	Mean \pm SD
With	0.01	5.64	15.88	10.29 \pm 10.76
Without	0.01	6.97	15.98	10.94 \pm 11.29
Total	0.01	6.82	15.98	10.81 \pm 10.83

Table S4. Years to injury

OSAs	Min	Median	Max	Mean \pm SD
With	0.01	4.46	15.54	5.54 \pm 4.22
Without	0.01	4.80	15.79	5.63 \pm 4.33
Total	0.01	4.53	15.79	5.61 \pm 4.31