

2017-2021 Deaths and Estimates of Smoking-Attributable Mortality (SAM) for North Central Region Adults 35 Years of Age and Older

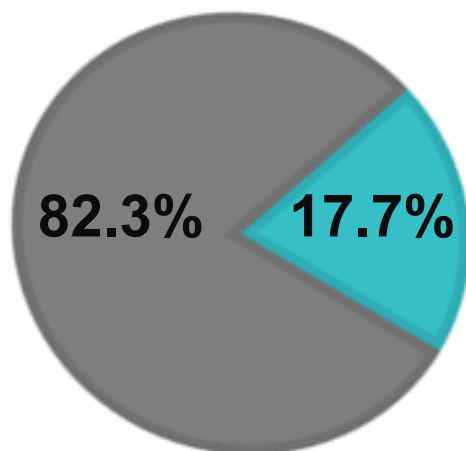
2017-2021 Smoking-Attributable Mortality (SAM) for North Central Region Adults 35 Years of Age and Older, Total and by Sex

	Total Population 35+	Males 35+	Females 35+
Total Population 35 and Over	375,235	183,829	191,406
Total Number of Deaths	3,729	1,902	1,827
Total Deaths Attributed to Smoking	662	400	262
Percent Deaths Attributed to Smoking	17.7%	21.0%	14.3%

2017-2021 DEATHS DUE TO SMOKING, TOTAL POPULATION 35+

■ Total Deaths Attributed to Smoking

■ Deaths Due to All Other Causes



Males:
21.0% of all deaths were attributable to smoking.



Females:
14.3% of all deaths were attributable to smoking.

Total deaths attributed to smoking were calculated using fractions by the Centers for Disease Control and Prevention (CDC), Smoking-Attributable Mortality, Morbidity, and Economic Costs (SAMMEC) System. <http://www.ncbi.nlm.nih.gov/books/NBK294316/table/ch12.14/?report=objectonly>.

Note: Deaths with unknown age or sex were not included in the analysis. For deaths, sex may, or may not, match sex assigned to the decedent at birth. Deaths were pulled using 2017-2021 ICD 10 Mortality codes. The COVID-19 pandemic was associated with increases in all-cause mortality. COVID-19 deaths have affected the patterns of mortality including those of Smoking Attributable Mortality.

Source: California Department of Public Health (CDPH), Center for Health Statistics and Informatics, Vital Records Business Intelligence System (VRBIS), 2017-2021. County of San Diego, Department of the Medical Examiner, 2017-2021. SANDAG Population estimates, 2021 (vintage: 09/2022). Population estimates were derived using 2010 Census and data should be considered preliminary. Prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Community Health Statistics Unit, 05/04/2023.



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Conditions/ Diseases	ICD 10 Codes	Males 35+			Females 35+			Total 35+ Population	
		Deaths	†Attributable fraction (%)	SAM	Deaths	†Attributable fraction (%)	SAM	Deaths	SAM
Lung cancer	C33-C34	73	0.84	61	73	0.81	59	146	120
Other cancers ^a	C00-C14, C15, C16, C18-21, C22, C25, C32, C53,	186	0.25	47	130	0.13	17	316	64
Total—Cancers		259	0.52	136	203	0.44	89	462	224
Coronary heart disease	I11, I20-I25	303	0.28	86	186	0.19	36	489	122
Other heart disease ^b	I00-I09, I26-I28, I30-I51	140	0.18	25	161	0.13	20	301	45
Cerebrovascular disease ^c	I60-I69	108	0.15	17	160	0.09	14	268	30
Other vascular disease ^d	I70-I74, I76-I78	21	0.41	9	20	0.35	7	41	16
Diabetes mellitus	E10-E14	62	0.18	11	45	0.08	4	107	14
Total—Cardiovascular and metabolic diseases		634	0.24	152	572	0.15	88	1,206	240
Pneumonia, influenza, tuberculosis	J09-J18, A16-A19	28	0.31	9	27	0.16	4	55	13
COPD	J40-J44	65	0.82	53	82	0.76	62	147	115
Total—Pulmonary diseases^e		93	0.67	62	109	0.57	62	202	124
Total—Cancers, cardiovascular and metabolic diseases,		986	0.38	371	884	0.28	244	1,870	614
Prenatal conditions ^f	K55.0, P00.0, P01.0, P01.1, P01.5, P02.0, P02.1, P02.7, P07.0–P07.3, P10.2, P22.0–P22.9, P25.0–P27.9, P28.0, P28.1, P36.0–P36.9, P52.0–P52.3, and P77	§	0.06	§	§	0.06	§	§	§
Sudden infant death syndrome ^g	R95	§	0.17	§	§	0.17	§	§	§
Total Perinatal Conditions		§	0.08	§	§	0.08	§	13	1
Residential fires	X00-X09	§	1.00	§	§	1.00	§	§	§
Secondhand smoke								0	
Lung Cancer	C33-C34	73	0.05	4	73	0.04	3	146	7
Coronary heart disease	I11, I20-I25	303	0.09	27	186	0.08	14	489	41
Total—Secondhand smoke		376	0.08	29	259	0.07	17	635	46
TOTAL Attributable Deaths				400			262		662

†Fractions by the Centers for Disease Control and Prevention (CDC), Smoking-Attributable Mortality, Morbidity, and Economic Costs (SAMMEC) System. <http://www.ncbi.nlm.nih.gov/books/NBK294316/table/ch12.t4/?report=objectonly>

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The COVID-19 pandemic was associated with increases in all-cause mortality. COVID-19 deaths have affected the patterns of mortality including those of Smoking Attributable Mortality.

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§ Data de-identified due to small counts or complementary cells.

Note: COPD = chronic obstructive pulmonary disease.

a - Other cancers consist of cancers of the lip, pharynx and oral cavity, esophagus, stomach, pancreas, larynx, cervix uteri (women), kidney and renal pelvis, bladder, liver, colon and rectum, and acute myeloid leukemia.

b - Other heart disease comprised of rheumatic heart disease, pulmonary heart disease, and other forms of heart disease.

c - Cerebrovascular diseases ICD-10 Codes: I60-I69

d - Other vascular diseases are comprised of atherosclerosis, aortic aneurysm, and other arterial diseases.

e - Pulmonary diseases consists of pneumonia, influenza, emphysema, bronchitis, and chronic airways obstruction.

f - Prenatal conditions comprised of ICD-10 codes: K55.0, P00.0, P01.0, P01.1, P01.5, P02.0, P02.1, P02.7, P07.0–P07.3, P10.2, P22.0–P22.9, P25.0–P27.9, P28.0, P28.1, P36.0–P36.9, P52.0–P52.3, and P77 (Dietz et al. 2010).

g - ICD-10 code R95

