

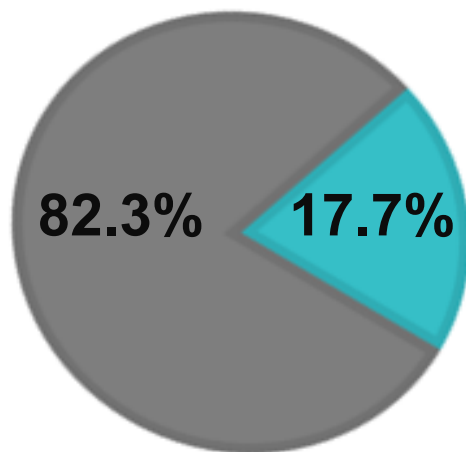
# 2017-2021 Deaths and Estimates of Smoking-Attributable Mortality (SAM) for San Diego County Adults 35 Years of Age and Older

## 2017-2021 Smoking-Attributable Mortality (SAM) for San Diego County Adults 35 Years of Age and Older, Total and by Sex

	Total Population 35+	Males 35+	Females 35+
Total Population 35 and Over	1,763,508	857,977	905,531
Total Number of Deaths	22,273	11,522	10,572
Total Deaths Attributed to Smoking	3,935	2,375	1,561
<b>Percent Deaths Attributed to Smoking</b>	<b>17.7%</b>	<b>20.6%</b>	<b>14.5%</b>

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

- Total Deaths Attributed to Smoking
- Deaths Due to All Other Causes



**Males:**  
20.6% of all deaths were attributable to smoking.



**Females:**  
14.5% 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.t477/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	449	0.84	376	416	0.81	336	865	712
Other cancers <sup>a</sup>	C00-C14, C15, C16, C18-21, C22, C25, C32, C53, C64-65, C67, C92.0	1,101	0.25	278	749	0.13	99	1,850	377
<b>Total—Cancers</b>		<b>1,550</b>	<b>0.52</b>	<b>811</b>	<b>1,165</b>	<b>0.44</b>	<b>508</b>	<b>2,715</b>	<b>1,319</b>
Coronary heart disease	I11, I20-I25	1,832	0.28	517	1,166	0.19	226	2,998	743
Other heart disease <sup>b</sup>	I00-I09, I26-I28, I30-I51	799	0.18	142	895	0.13	113	1,694	254
Cerebrovascular disease <sup>c</sup>	I60-I69	652	0.15	100	915	0.09	80	1,567	180
Other vascular disease <sup>d</sup>	I70-I74, I76-I78	112	0.41	46	103	0.35	37	215	83
Diabetes mellitus	E10-E14	448	0.18	79	361	0.08	28	809	107
<b>Total—Cardiovascular and metabolic diseases</b>		<b>3,843</b>	<b>0.24</b>	<b>923</b>	<b>3,440</b>	<b>0.15</b>	<b>529</b>	<b>7,283</b>	<b>1,453</b>
Pneumonia, influenza, tuberculosis	J09-J18, A16-A19	167	0.31	51	155	0.16	24	322	76
COPD	J40-J44	436	0.82	358	497	0.76	376	933	734
<b>Total—Pulmonary diseases<sup>e</sup></b>		<b>603</b>	<b>0.67</b>	<b>405</b>	<b>652</b>	<b>0.57</b>	<b>371</b>	<b>1,255</b>	<b>775</b>
<b>Total—Cancers, cardiovascular and metabolic diseases, pulmonary diseases</b>		<b>5,996</b>	<b>0.38</b>	<b>2,253</b>	<b>5,257</b>	<b>0.28</b>	<b>1,450</b>	<b>11,253</b>	<b>3,704</b>
Prenatal conditions <sup>f</sup>	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 <sup>g</sup>	R95	§	0.17	§	§	0.17	§	§	§
<b>Total Perinatal Conditions</b>		<b>§</b>	<b>0.08</b>	<b>§</b>	<b>§</b>	<b>0.08</b>	<b>§</b>	<b>70</b>	<b>5</b>
<b>Residential fires</b>	X00-X09	<b>§</b>	<b>1.00</b>	<b>§</b>	<b>§</b>	<b>1.00</b>	<b>§</b>	<b>§</b>	<b>§</b>
<b>Secondhand smoke</b>									
Lung Cancer	C33-C34	449	0.05	22	416	0.04	18	865	40
Coronary heart disease	I11, I20-I25	1,101	0.09	96	1,166	0.08	89	2,267	185
<b>Total—Secondhand smoke</b>		<b>1,550</b>	<b>0.08</b>	<b>119</b>	<b>1,582</b>	<b>0.07</b>	<b>107</b>	<b>3,132</b>	<b>225</b>
<b>TOTAL Attributable Deaths</b>				<b>2,375</b>			<b>1,561</b>		<b>3,935</b>

†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>

Note: Deaths with unknown age or sex were not included in the analysis. Deaths were pulled using 2017-2021 ICD 10 Mortality codes.

For deaths, sex may, or may not, match sex assigned to the decedent at birth.

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. Prepared by County of San Diego, Health and Human Services Agency, Public Health Services, Community Health Statistics Unit, 05/04/2023.

§ 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

