

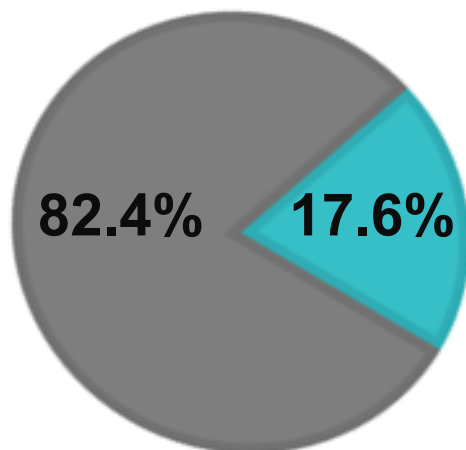
# 2017-2021 Deaths and Estimates of Smoking-Attributable Mortality (SAM) for North Inland Region Adults 35 Years of Age and Older

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

	Total Population 35+	Males 35+	Females 35+
Total Population 35 and Over	322,346	154,613	167,733
Total Number of Deaths	4,350	2,180	2,169
Total Deaths Attributed to Smoking	766	457	309
<b>Percent Deaths Attributed to Smoking</b>	<b>17.6%</b>	<b>20.9%</b>	<b>14.3%</b>

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

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



**Males:**  
20.9% 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	88	0.84	74	83	0.81	67	171	141
Other cancers <sup>a</sup>	C00-C14, C15, C16, C18-21, C22, C25, C32, C53, C64-65, C67, C92.0	220	0.25	56	137	0.13	18	357	74
<b>Total—Cancers</b>		<b>308</b>	<b>0.52</b>	<b>161</b>	<b>220</b>	<b>0.44</b>	<b>96</b>	<b>528</b>	<b>257</b>
Coronary heart disease	I11, I20-I25	314	0.28	89	213	0.19	41	527	130
Other heart disease <sup>b</sup>	I00-I09, I26-I28, I30-I51	158	0.18	28	191	0.13	24	349	52
Cerebrovascular disease <sup>c</sup>	I60-I69	136	0.15	21	203	0.09	18	339	39
Other vascular disease <sup>d</sup>	I70-I74, I76-I78	24	0.41	10	23	0.35	8	47	18
Diabetes mellitus	E10-E14	74	0.18	13	65	0.08	5	139	18
<b>Total—Cardiovascular and metabolic diseases</b>		<b>706</b>	<b>0.24</b>	<b>170</b>	<b>695</b>	<b>0.15</b>	<b>107</b>	<b>1,401</b>	<b>277</b>
Pneumonia, influenza, tuberculosis	J09-J18, A16-A19	33	0.31	10	31	0.16	5	64	15
COPD	J40-J44	85	0.82	70	101	0.76	76	186	146
<b>Total—Pulmonary diseases<sup>e</sup></b>		<b>118</b>	<b>0.67</b>	<b>79</b>	<b>132</b>	<b>0.57</b>	<b>75</b>	<b>250</b>	<b>154</b>
<b>Total—Cancers, cardiovascular and metabolic diseases, pulmonary diseases</b>		<b>1,132</b>	<b>0.38</b>	<b>425</b>	<b>1,047</b>	<b>0.28</b>	<b>289</b>	<b>2,179</b>	<b>714</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>9</b>	<b>1</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	88	0.05	4	83	0.04	4	171	8
Coronary heart disease	I11, I20-I25	314	0.09	27	213	0.08	16	527	44
<b>Total—Secondhand smoke</b>		<b>402</b>	<b>0.08</b>	<b>31</b>	<b>296</b>	<b>0.07</b>	<b>20</b>	<b>698</b>	<b>51</b>
<b>TOTAL Attributable Deaths</b>				<b>457</b>			<b>309</b>		<b>766</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/ch12.14/?report=objectonly>  
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 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