



CORONARY HEART DISEASE

Disease Information Packets – Slide Set
Public Health Services, Community Health Statistics
08/2022



LIVE WELL
SAN DIEGO





- Coronary heart disease (CHD), also called coronary artery disease (CAD), is the most common type of heart disease.
- Occurs as a result of atherosclerosis – when the coronary arteries that supply blood to the heart harden and narrow due to plaque buildup.
 - Can impede blood flow to the heart and cause damage to the heart muscle (heart attack or myocardial infarction).



Demographic Risk Factors



■ Race/ethnicity

- CHD is the leading cause of death for most racial/ethnic groups in the United States.

■ Genetics/family history

- Having a family history of early heart disease increases risk of CHD.

■ Age

- People age 65 and older are more likely to develop coronary heart disease than younger people.

■ Sex

- The risk for CHD among men increases around age 45 while the risk among women increases around age 55.

Behavioral and Social Risk Factors



■ Tobacco use

- Smoking can damage heart and blood vessels and increase blood pressure.

■ Alcohol abuse

- Heavy alcohol consumption can increase the risk of heart disease by raising blood pressure and triglyceride levels.

■ Environment and occupation

- Long exposure to toxins, radiation, secondhand smoke, or other hazards, sitting for long periods, and working long shifts or night shifts increases the risk of coronary heart disease.



Behavioral and Social Risk Factors



- **Lack of physical activity**
 - Physical inactivity contributes to CHD and to other CHD risk factors such as obesity, high blood pressure, high cholesterol, and type 2 diabetes.
- **Poor nutrition**
- **Poor quality sleep**
- **Stress**



Intermediate Outcomes



- **High blood pressure (BP \geq 140mm Hg/90mm Hg)**
 - 1 in 3 American adults aren't aware of their high blood pressure and are not being treated to control their blood pressure.
- **High cholesterol**
 - According to BRFSS 2019 data, 33.1% of American adults were told that they had high cholesterol.
- **Angina pectoris**
 - About 9 million Americans have symptoms of angina pectoris (chest pain or discomfort due to reduced blood supply to the heart).

Source: National Heart, Lung, and Blood Institute. (2022). *What is High Blood Pressure (Hypertension)*. <https://www.nhlbi.nih.gov/health/high-blood-pressure>.

Centers for Disease Control and Prevention and National Center for Chronic Disease Prevention and Health Promotion. Behavioral Risk Factor Surveillance System (BRFSS): BRFSS Prevalence & Trends Data.

<https://www.cdc.gov/brfss/brfssprevalence/>

Hermiz, C., & Sedhai, Y. R. (2022). *Angina*. PubMed; StatPearls Publishing.

<https://www.ncbi.nlm.nih.gov/books/NBK557672/?msclkid=71531257d0ed11ecb64d7f140c4cfb80>.

Intermediate Outcomes



■ Diabetes

- People with diabetes are more likely to have conditions (high blood pressure, high cholesterol) that increases the risk of heart disease.
- People with diabetes are also more likely to suffer from heart failure.



National Statistics and Disparities



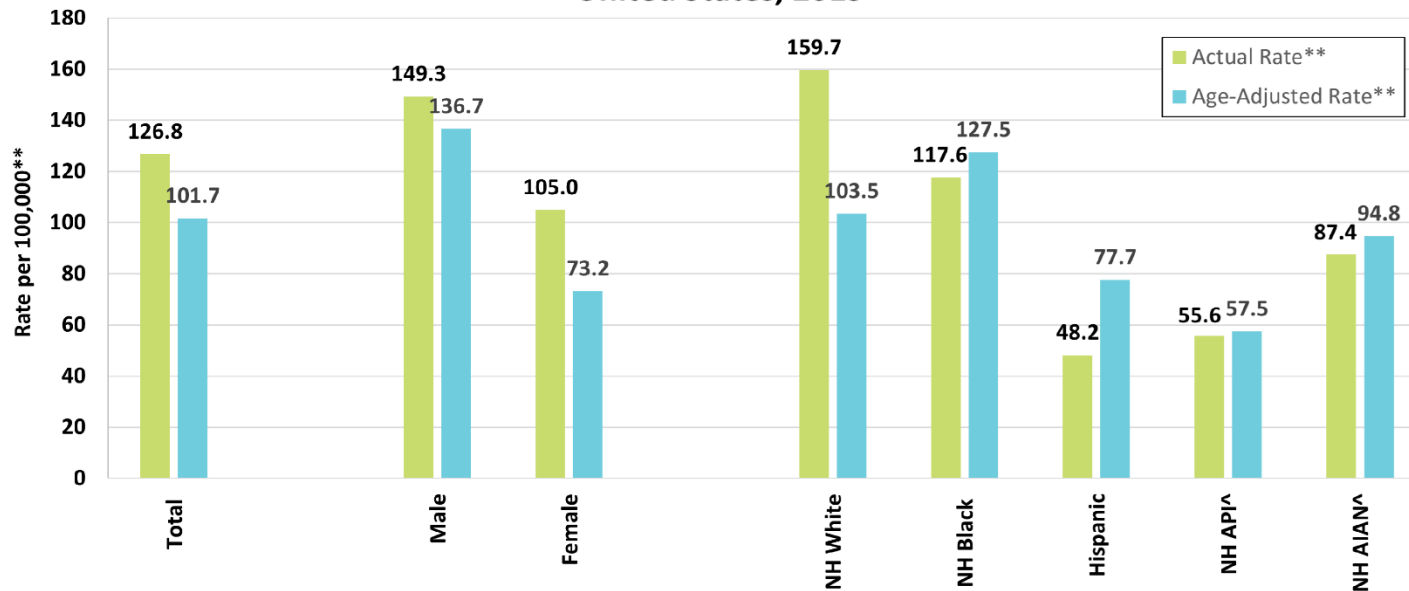
- Each year, more than 805,000 Americans have a heart attack.
 - Of these, about 1 in 5 are silent heart attacks.
- Approximately 20.1 million Americans aged 20 and older had CHD from 2015 to 2018.
- In 2019, about 360,900 Americans died from CHD.



National Statistics and Disparities



Coronary Heart Disease (CHD) Deaths*: Actual and Age-Adjusted Rates**
United States, 2019



*CHD Death refers to underlying cause of death among United States residents (ICD-10 codes I11, I120-I25).

**Rates per 100,000 population. Age-adjusted rates per 100,000, 2000 U.S. Standard population.

^API includes Asian and Pacific Islander. AIAN includes American Indian and Alaska Native. NH refers to non-Hispanic.

Source: National Vital Statistics System, CDC, NCHS. Online database accessed 05/09/2022, <http://www.wonder.cdc.gov>.

Prepared by County of San Diego, Health and Human Services Agency, Public Health Services, Community Health Statistics Unit. Contact 619.692.6667.

https://www.sandiegocounty.gov/nhsa/programs/phs/community_health_statistics/

LiveWellSD.org. August 2022.

- In 2019, the age-adjusted CHD death rate among males was nearly 1.9 times greater than the age-adjusted CHD death rate among females.
- Non-Hispanic Blacks had the highest age-adjusted CHD death rate compared to other race/ethnicities.

National Statistics and Disparities



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- In the United States, the rate of death due to heart disease in 2019 was highest in Oklahoma and lowest in Minnesota.
- In 2019, 1 in every 4 male deaths were due to heart disease.

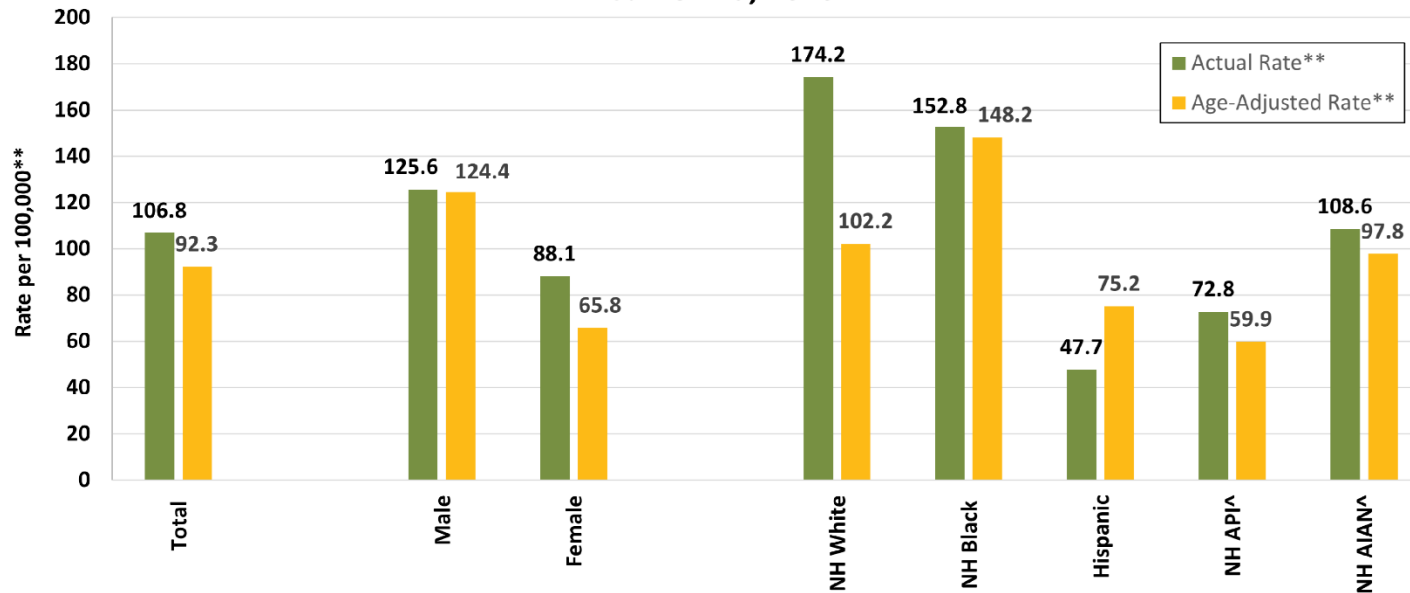
Top 5 States with Highest Heart Disease Death Rates, United States, 2019

1. Oklahoma
2. Mississippi
3. Arkansas
4. Alabama
5. Louisiana

State Statistics and Disparities



Coronary Heart Disease (CHD) Death*: Actual and Age-Adjusted Rates**
California, 2019



*CHD Death refers to underlying cause of death among United States residents (ICD-10 codes I21, I22-I25).

**Rates per 100,000 population. Age-adjusted rates per 100,000, 2000 U.S. Standard population.

^API includes Asian and Pacific Islander. AIAN includes American Indian and Alaska Native. NH refers to non-Hispanic.

Source: National Vital Statistics System, CDC, NCHS. Online database accessed 05/09/2022, <http://www.wonder.cdc.gov>.

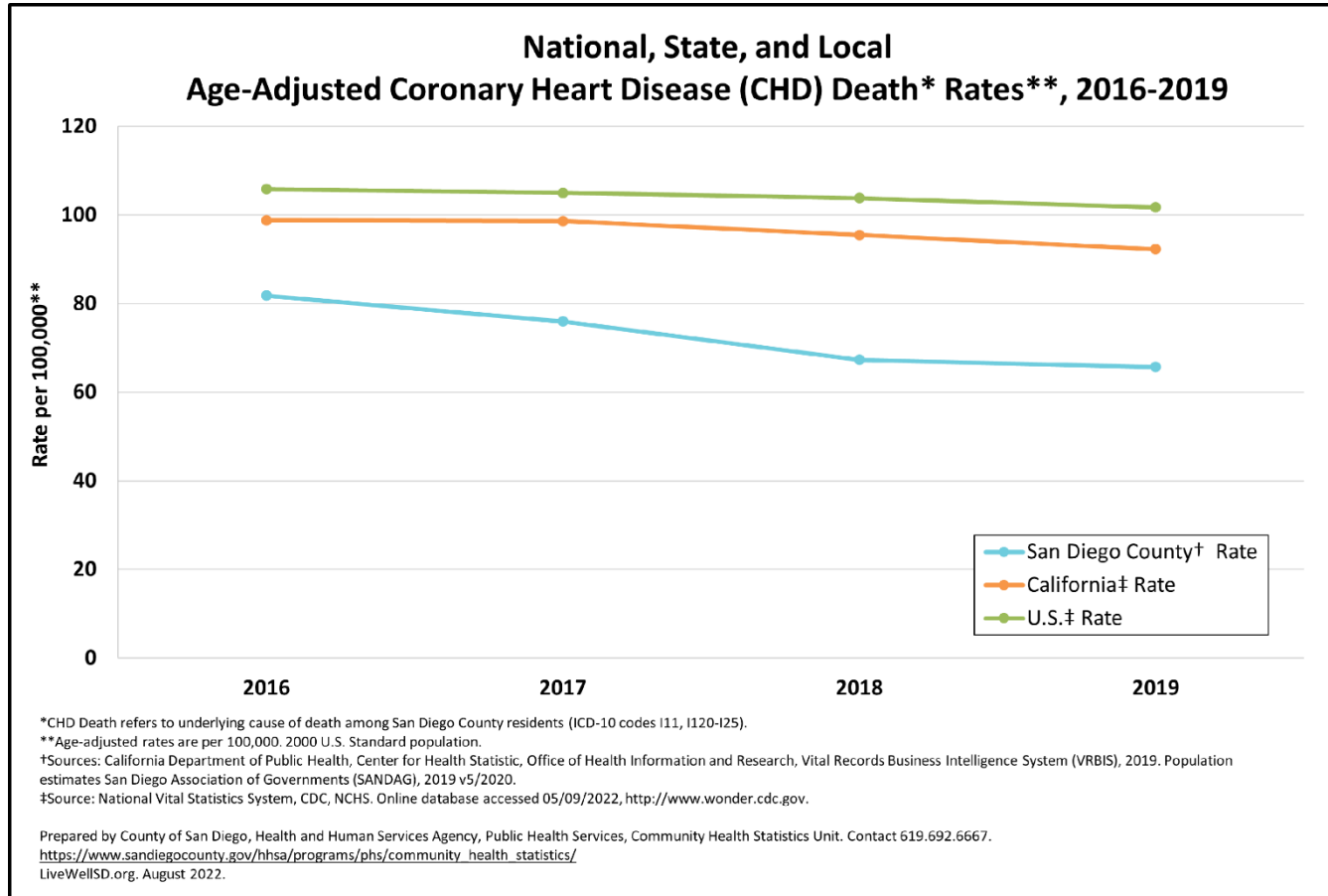
Prepared by County of San Diego, Health and Human Services Agency, Public Health Services, Community Health Statistics Unit. Contact 619.692.6667.

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LiveWellSD.org. August 2022.

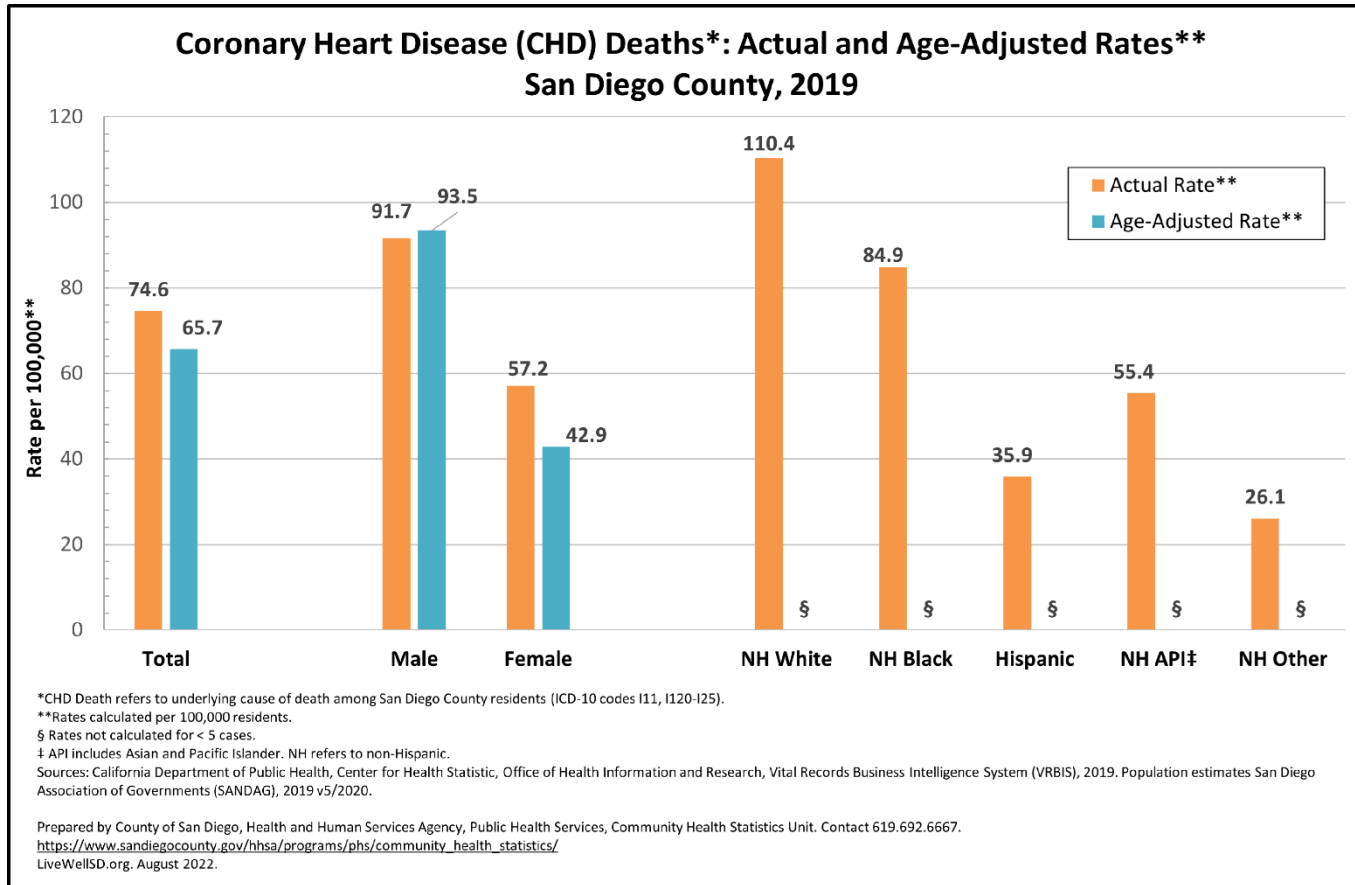
- Male residents in California had higher actual and age-adjusted death rates due to CHD than female residents.
- Non-Hispanic Black residents in California had the highest age-adjusted CHD death rate followed by non-Hispanic White residents.

Local Statistics and Disparities



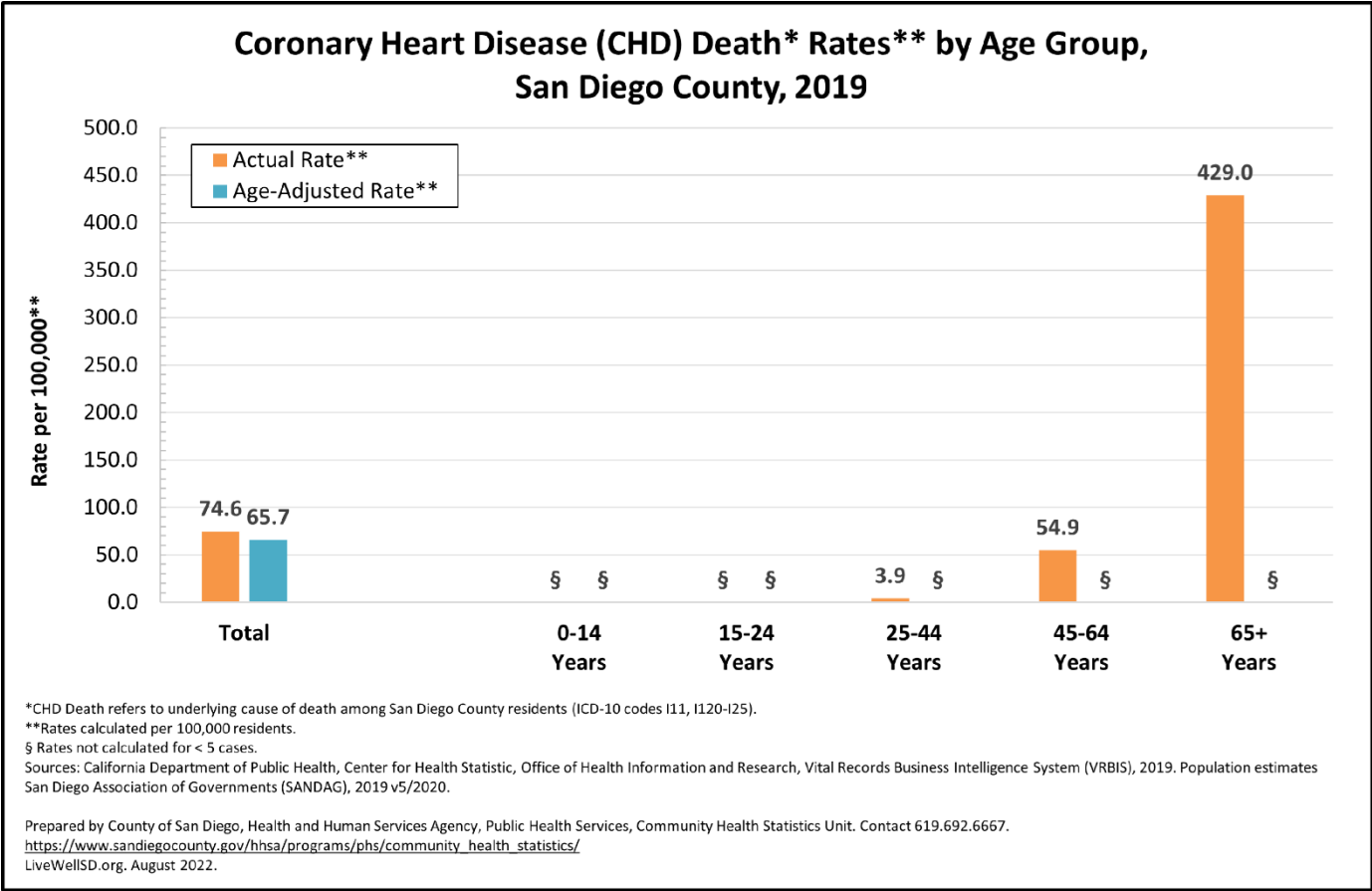
- CHD death rates gradually declined from 2016 to 2019 at the national, state, and local levels.
- From 2016 to 2019, age-adjusted CHD death rates in San Diego County remained lower than state and national rates.

Local Statistics and Disparities



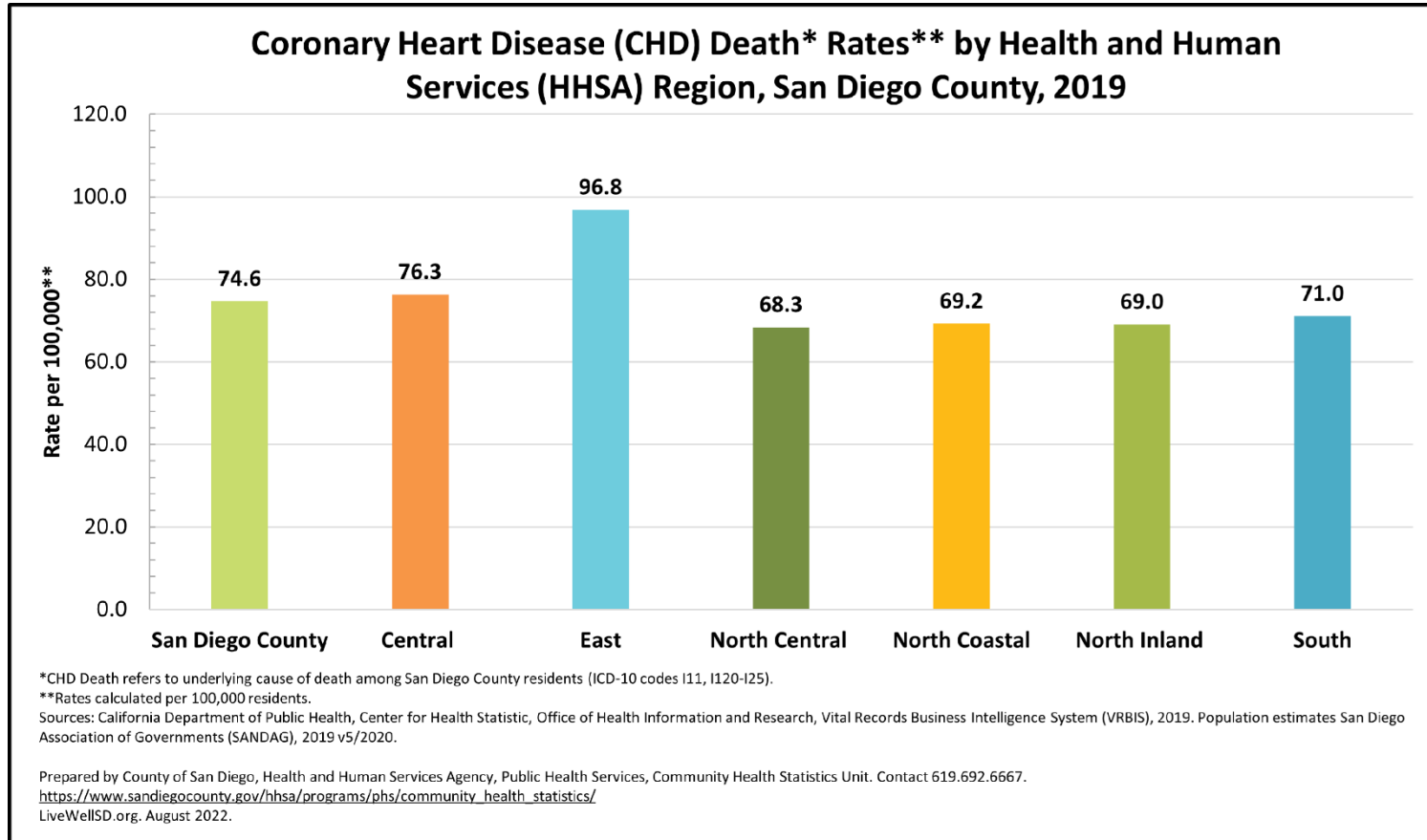
- In San Diego County, men had higher actual and age-adjusted CHD death rates compared to women.
- Non-Hispanic White residents had the highest actual CHD death rate in San Diego County followed by non-Hispanic Black residents.

Local Statistics and Disparities



- In 2019, the CHD death rate among San Diego County residents aged 65+ was approximately 6 times higher than the total San Diego County CHD death rate.

Local Statistics and Disparities

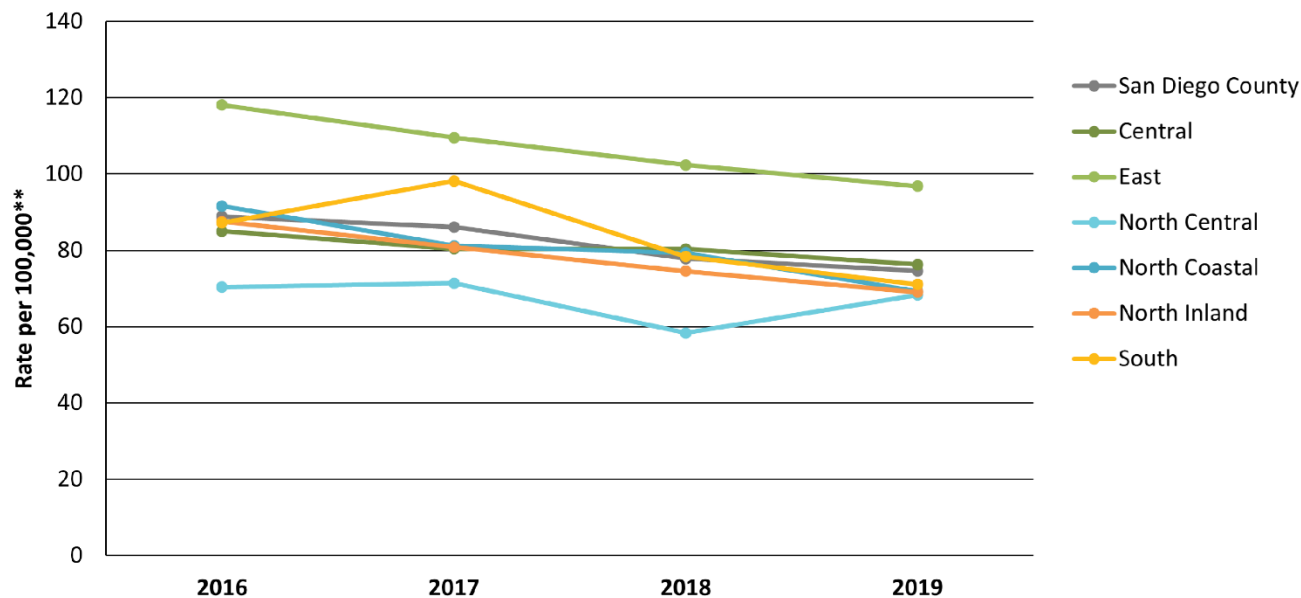


- In 2019, East Region of San Diego County had the highest CHD death rate, while North Central Region had the lowest.
- East Region and Central Region had CHD death rates that were higher than the county CHD death rate.

Local Statistics and Disparities



Coronary Heart Disease (CHD) Death* Rates by Health and Human Services (HHS) Region, San Diego County, 2016-2019**



*CHD Death refers to underlying cause of death among San Diego County residents (ICD-10 codes I11, I120-I25).

**Rates calculated per 100,000 residents.

Sources: California Department of Public Health, Center for Health Statistics, Office of Health Information and Research, Vital Records Business Intelligence System (VRBIS), 2019. Population estimates San Diego Association of Governments (SANDAG), 2019 v5/2020.

Prepared by County of San Diego, Health and Human Services Agency, Public Health Services, Community Health Statistics Unit. Contact 619.692.6667.

https://www.sandiegocounty.gov/hhsa/programs/phs/community_health_statistics/

LiveWellSD.org. August 2022.

- From 2016 to 2019, East Region of San Diego County had the highest CHD death rates while North Central Region had the lowest CHD death rates.

Disease Prevention



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- Quit smoking or avoid smoking.
- Be physically active.
- Eat healthy foods.
- Maintain a healthy weight.
- Avoid excessive alcohol consumption.
- Have regular doctor checkups.
- Monitor blood pressure and cholesterol levels.
- Control diabetes.



Know the 5 Major Symptoms of a Heart Attack



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- Pain or discomfort in the jaw, neck, or back
- Feeling weak, light-headed, or faint
- Chest pain or discomfort
- Pain or discomfort in arms or shoulder
- Shortness of breath
- Women may also experience: pain or discomfort in one or both arms, back, neck, jaw or stomach, shortness of breath with or without chest discomfort, breaking out in cold sweat, nausea or vomiting and/or lightheadedness.
- If you think that you or someone you know is having a heart attack, **call 9-1-1 immediately.**

Critical Pathway for Coronary Heart Disease



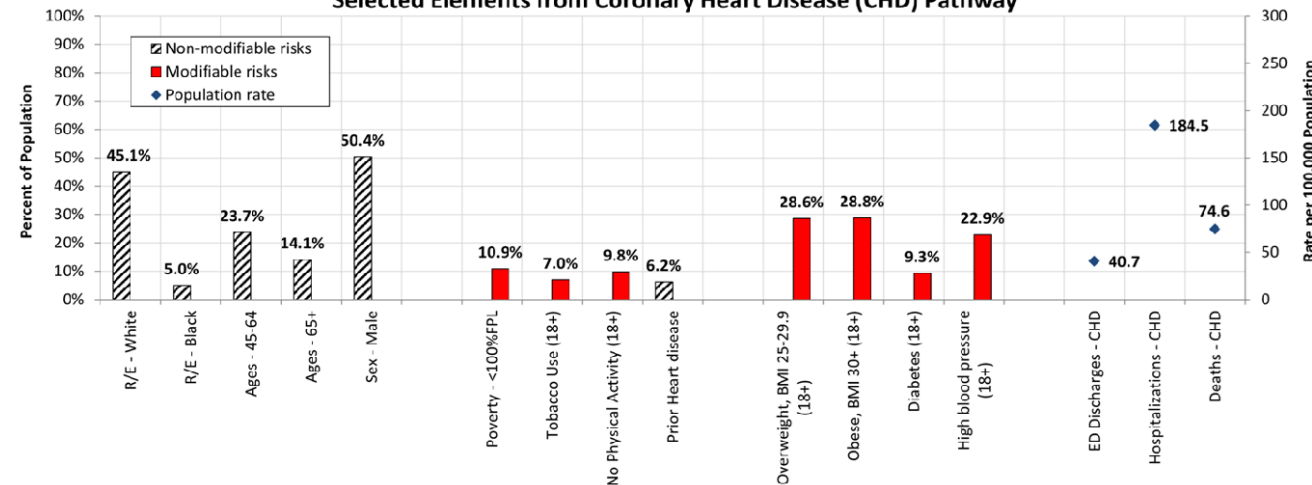
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Critical Pathway

Coronary Heart Disease (CHD)



Characteristics of Residents, San Diego County Selected Elements from Coronary Heart Disease (CHD) Pathway



Contact Us



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For more information, including data, resources and reports from the
County of San Diego's Community Health Statistics Unit:

www.SDHealthStatistics.com

(619) 692-6667