DISEASES OF DESPAIR



Alcoholism

Alcohol-related deaths per 100,000 is higher than any time since the start ofWWI



Drug Abuse Among Americans

ages 25 to 64

1999

6.7 overdose deaths

per 100,000 2017

32.5 overdose deaths



per 100,000

Princeton study 2015 by economists Anne Case and Angus Deaton

focused on disturbing mortality data for white non-Hispanic Americans



Suicide Suicides among

middle-aged men are on the rise

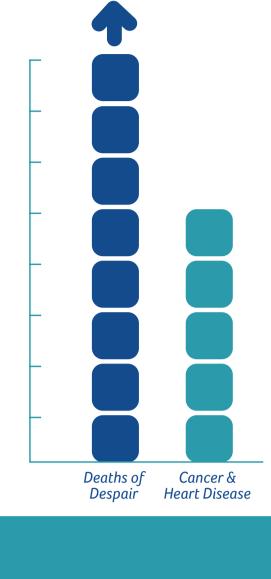
The biggest middle-age killers, cancer and heart disease, have been surpassed by drug

MIDDLE-AGE KILLER

overdoses, alcohol-related deaths and suicide. Ultimately, we see our story as about the collapse

after its heyday in the 1970s, and the pathologies that accompany that decline." - Anne Case and Angus Deaton "Deaths of Despair and the Future of Capitalism"

of the white, high school educated, working class

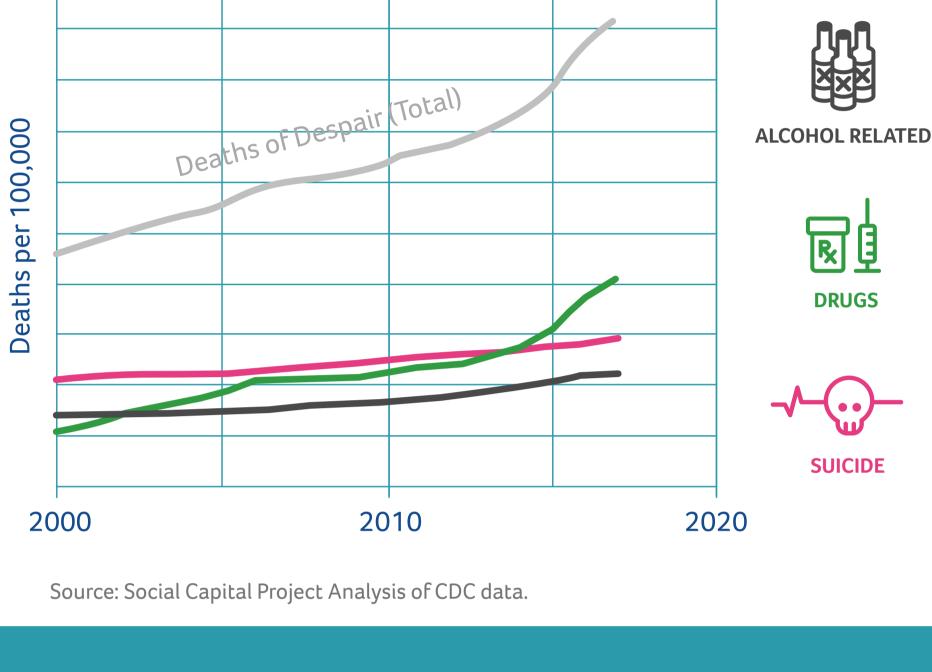




In 2017, deaths from lung cancer, stroke and car

crashes were overtaken by Diseases of Despair.

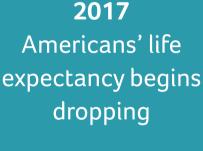
AND ITS COMPONENTS



AMERICAN LIFE EXPECTANCY







WHAT'S GOING ON

IN MY COMMUNITY?

Data gathered from February 2016 through January 2019

HDMS industry-leading business intelligence platform DART (Data Analysis and Reporting Tool) provides high-level insight into trends in disease prevalence, cost and utilization. **ACCELERATE DISCOVERY**



Disease of Despair is trending up across all age/gender bands.

Cocaine or amphetamine dependence

Opioid and barbiturate dependence

Alcohol dependence

The 40-54 Female group Diseases of Despair are affecting females more than has the highest Diseases of

more information is needed about the distribution of each of the four diseases.

** This needs further study to better understand this group and the contribution of co-morbid conditions.

Other drug dependence

Depressive disorder

Utilization* Is Trending Up Across All Age/Gender Bands Leading To Higher Costs

males across all age bands

FEMALES 40-54 Highest utilization, greatest number of

individuals affected, and costs nearly \$13 at a **UTILIZATION** PMPM level. *Episodes per 1000



Despair prevalence*

* Depression affects women more than men, but that's not necessarily the case with alcohol and drug dependence. To better understand this trend,

The right target groups for intervention programs:

HIGHER



MALES 10-24

70+ year olds have the

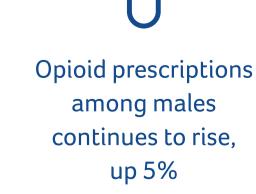
highest rate of increase

at almost 20%**

Costs are almost 20% higher than other groups, although utilization is comparable to other groups.

PRESCRIPTION DRUG ABUSE Over the three-year study period:





WHAT'S NEXT?



Opioid

prescriptions

among females

are down 9%



These baseline analytics serve as a springboard for data-driven strategies around

Controlled OTC

prescriptions down

36% for males. Down

prioritization of resources, intervention models and other clinical transformations.

Who benefits from What alternative treatment care management services? methods are available?

Can sedative use be reduced through sleep hygiene education? Are lower-cost service alternatives available?

Are there federal, state or local What employee assistance programs (EAPs) can be expanded? support partnerships available?