

Despair and Disadvantage: Some Questions

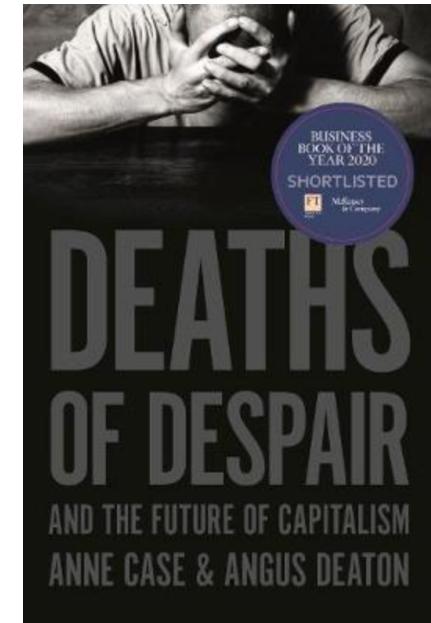
MORTAL Workshop

Sam Harper
McGill University

2024-06-10

Power of simple narratives

Our contribution was to link drug overdoses, suicides, and alcohol-related deaths, to note that **all were rising together**, that together they were **afflicting mostly whites**, and that, among that group, the long fall in total mortality had stopped or reversed. We also chose the collective label “deaths of despair,” which helped publicize the combined epidemic and emphasize that it included more than just drug overdose.



See Case and Deaton (2020) and Case and Deaton (2015)

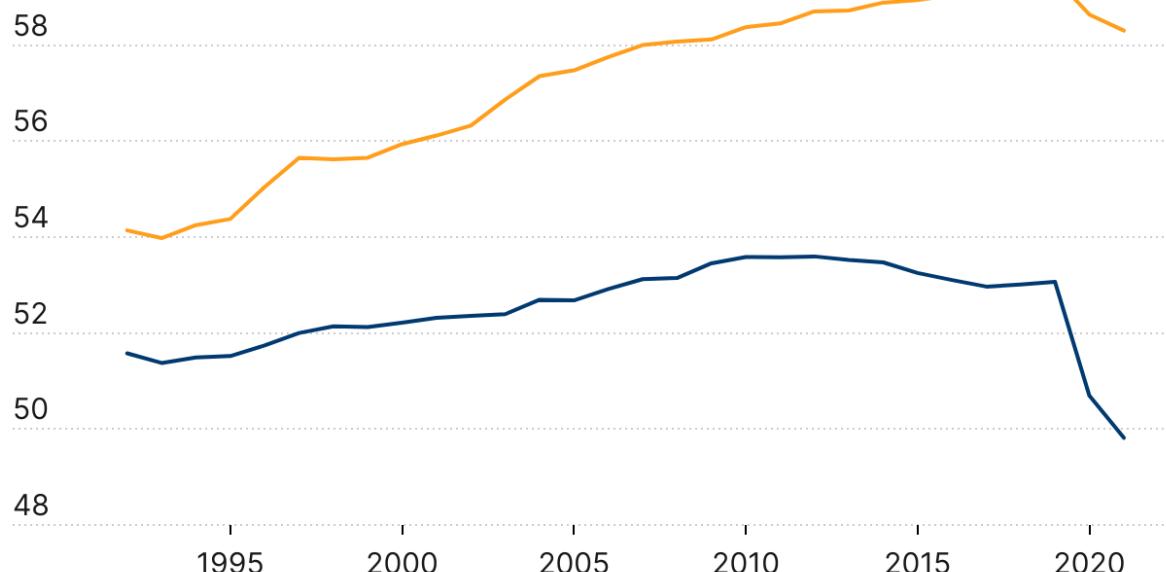
Is this narrative compelling?

Artifact of selection?
Due to ‘deaths of
despair’?
Mechanisms?

Adult life expectancy at age 25 for college graduates vs. non-graduates

— Life expectancy without BA — Life expectancy with BA

60 years beyond age 25



Source: Authors' calculations using information from individual death certificates from the National Vital Statistics System.

BROOKINGS

Case and Deaton (2023)

Mortality increases largely confined to bottom 10th percentile of education.

Selection bias likely explains some of the e_{25} gap increase.

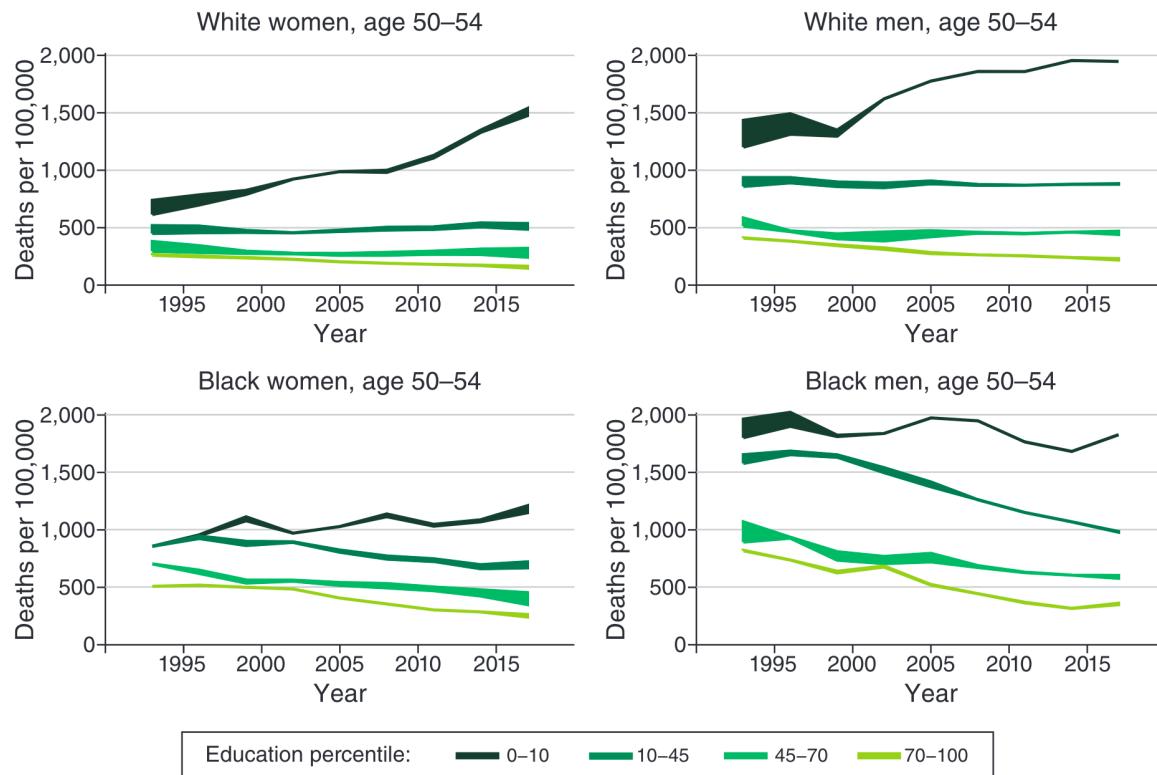


FIGURE 5. ALL-CAUSE MORTALITY CHANGE IN CONSTANT EDUCATION PERCENTILES:
AGE 50–54, 1992–1994 TO 2016–2018

Novosad et al. (2022) See also Dowd and Hamoudi (2014)

Limited evidence for ‘deaths of despair’

- Not aligned with cause-specific deaths by race, age, and place.
- Weak spatial and temporal correlations between drug, alcohol, and suicide deaths.
- Declines in CVD also important for mortality slowdowns.
- Opioid overdose deaths largely responsible for trends.

US life expectancy stalls due to cardiovascular disease, not drug deaths

American J Public Health
AJPH

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Research Letter

DO DEATHS OF DESPAIR MOVE TOGETHER? COUNTY-LEVEL MORTALITY CHANGES BY SEX AND URBANIZATION, 1990–2017

ANNUAL REVIEWS

Annual Review of Public Health
Declining Life Expectancy in the United States: Missing the Trees for the Forest

Sam Harper,^{1,2,3} Corinne A. Riddell,⁴ and Nicholas B. King^{1,2,5}

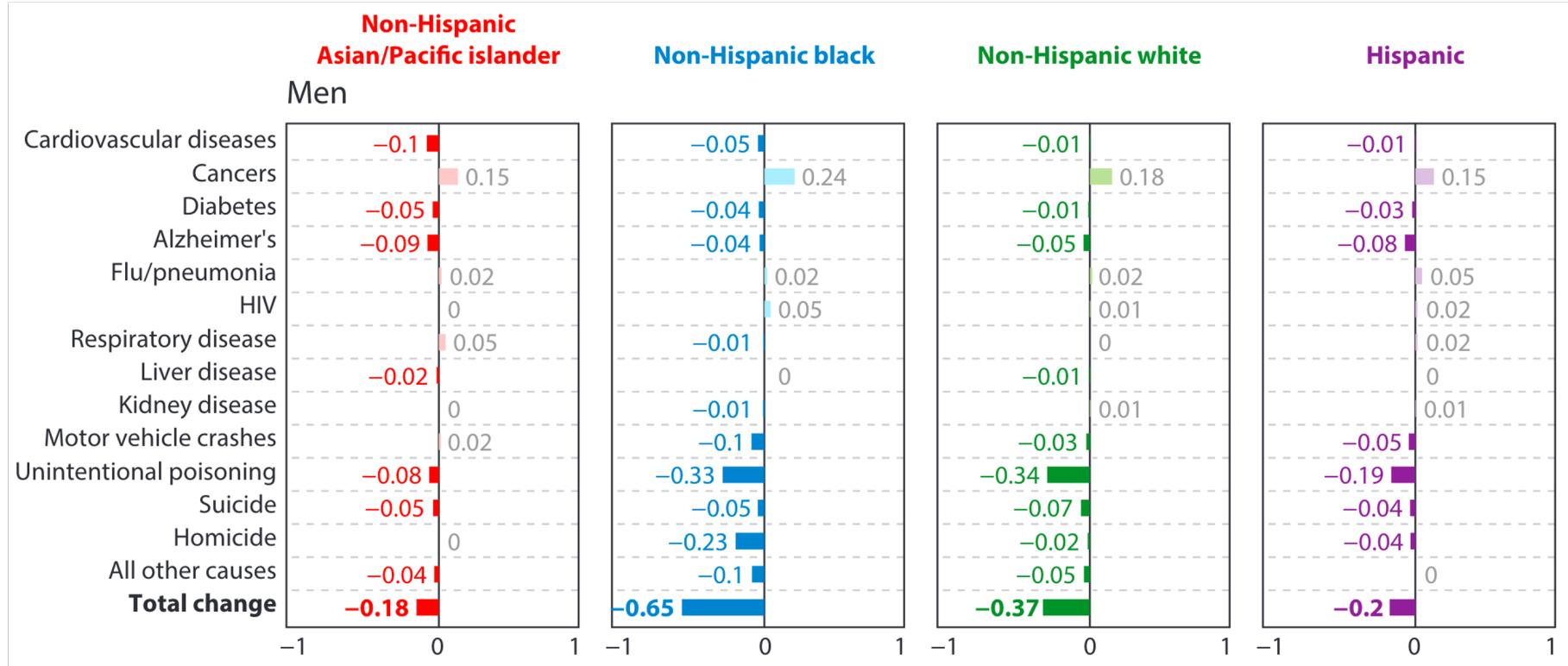
American Journal of Epidemiology
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<https://doi.org/10.1093/aje/kwab058>
Advance Access publication: March 29, 2021

Original Contribution

Trends in “Deaths of Despair” Among Working-Aged White and Black Americans, 1990–2017

Mehta et al. (2020) Harper et al. (2021) Simon and Masters (2021) Tilstra et al. (2021)

Contributors to change in e_0 2014-2017, by race and cause for men

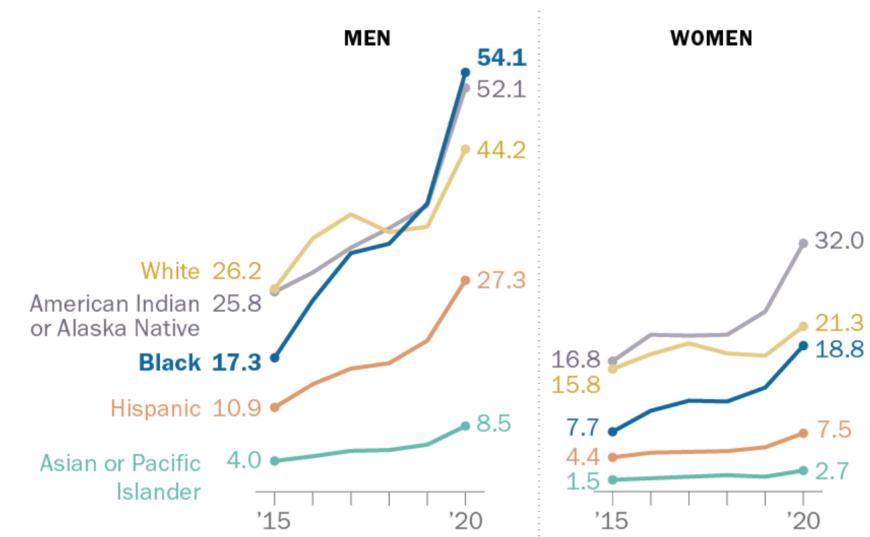


Harper et al. (2021)

- Much faster increases in opioid overdoses among Blacks *and* American Indian and Alaska Natives in recent years.
- Cannot be chiefly explained by the loss of economic opportunities among NH whites.

Drug overdose death rate among Black men in the U.S. more than tripled between 2015 and 2020

U.S. drug overdose death rate per 100,000 people, by race and ethnicity (age-adjusted)



Note: All racial categories include people of one race, as well as those who are multiracial. For those who are multiracial, the CDC selects a single race to allow for consistent comparisons. All racial groups refer to non-Hispanic members of those groups, while Hispanics are of any race.

Source: Centers for Disease Control and Prevention.

PEW RESEARCH CENTER

Source: Pew Research Center

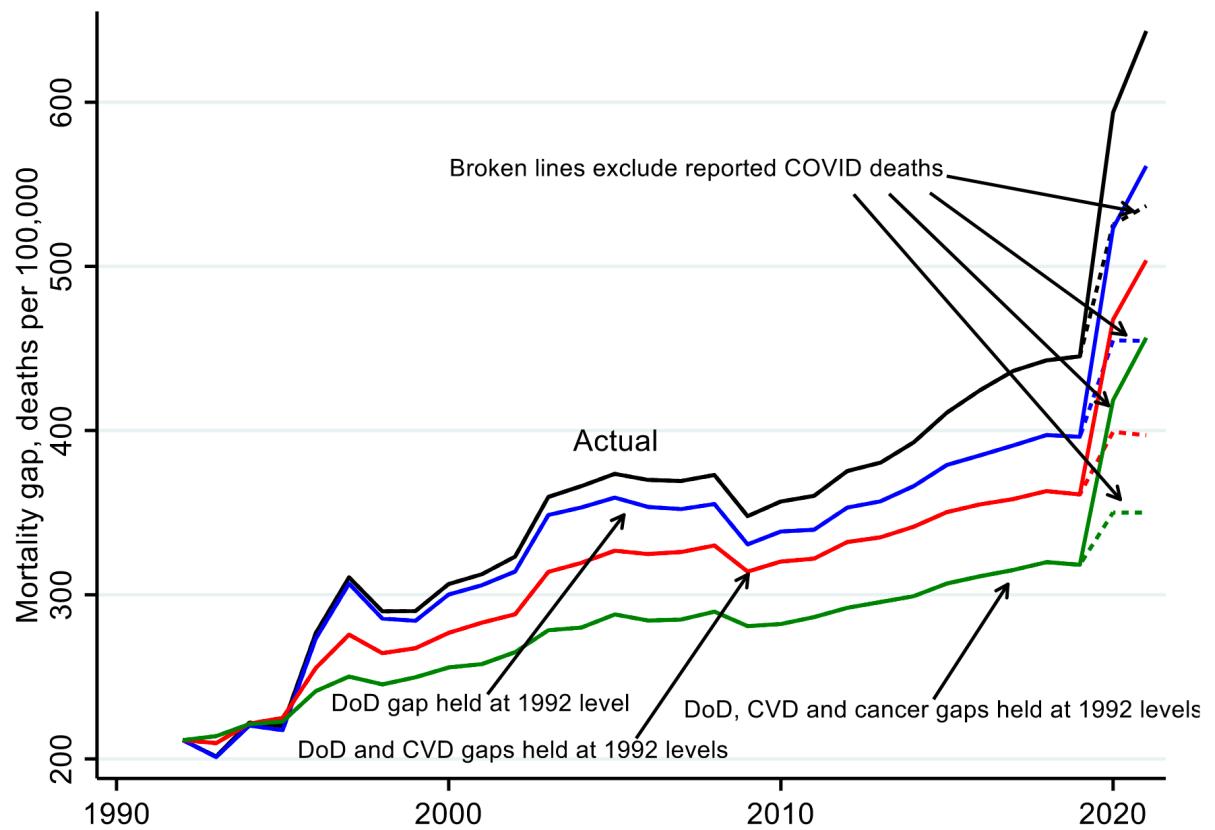
Table 2. Change in Years of Life Lost between Ages 25 and 84, by Race, Sex, Education, and Cause of Death, 1990–2015, Using CDC Multiple Cause of Death Files, Decennial Census, and American Community Survey.

	Non-Hispanic White Men						Non-Hispanic Black Men									
	Low Ed			High Ed			Change in Gap	% Share of Total	Low Ed			High Ed			Change in Gap	% Share of Total
	1990	2015	Chg	1990	2015	Chg			1990	2015	Chg	1990	2015	Chg		
Opioids and other drugs	.29	1.57	1.28	.13	.63	.49	.79	24	.56	.81	.25	.37	.49	.12	.13	5
Non-drug suicide	.61	.82	.21	.37	.47	.10	.11	3	.27	.26	-.01	.24	.19	-.05	.04	1
Alcoholic liver	.22	.30	.07	.13	.16	.03	.04	1	.44	.14	-.30	.29	.09	-.19	-.11	-4
Total deaths of despair	1.12	2.68	1.56	.63	1.25	.62	.94	29	1.27	1.21	-.06	.90	.77	-.12	.06	2
Cardiovascular disease	5.03	3.63	-1.39	4.14	2.13	-2.00	.61	19	5.38	4.71	-.67	5.77	3.77	-2.00	1.33	45
Lung cancer	1.59	1.09	-.50	1.16	.54	-.61	.11	3	1.54	.93	-.61	1.60	.70	-.90	.29	10
Other cancer	2.00	2.20	.20	2.09	1.61	-.48	.68	21	2.35	2.27	-.07	2.82	1.97	-.86	.78	26
HIV	.31	.05	-.26	.39	.03	-.36	.09	3	1.09	.38	-.71	1.09	.22	-.87	.15	5
Other infectious disease	.16	.35	.19	.13	.17	.05	.14	4	.42	.46	.03	.35	.35	.00	.03	1
Diabetes	.27	.45	.18	.21	.26	.04	.14	4	.38	.67	.29	.43	.56	.13	.16	5
Lower respiratory	.67	.81	.13	.43	.36	-.07	.20	6	.34	.46	.12	.41	.34	-.07	.19	6
Kidney disease	.09	.18	.09	.06	.10	.04	.05	2	.20	.39	.19	.20	.31	.11	.08	3
Other liver	.16	.19	.02	.11	.09	-.02	.04	1	.21	.13	-.08	.17	.09	-.08	.00	0
Mental/behavioral	.08	.12	.04	.04	.08	.04	.00	0	.15	.15	.00	.10	.12	.03	-.02	-1
Other internal	1.35	1.88	.52	.98	1.09	.12	.41	12	2.20	2.01	-.18	1.84	1.48	-.37	.18	6
Accidents/undetermined	1.26	1.09	-.17	.60	.54	-.07	-.10	-3	1.49	1.06	-.43	.97	.67	-.30	-.13	-4
Homicide	.26	.16	-.10	.08	.05	-.03	-.07	-2	2.00	1.56	-.45	1.01	.71	-.30	-.15	-5
All other causes	.02	.03	.01	.02	.02	.00	.01	0	.05	.05	.00	.04	.03	-.01	.01	0
Total	14.38	14.91	.53	11.07	8.34	-2.72	3.26		19.07	16.43	-2.63	17.69	12.09	-5.61	2.98	

Geronimus et al. (2019)

CVD and cancers now part of the story?

Age-adjusted 25-84 mortality gaps between those without and with a BA



Case and Deaton (2023)

What about despair?

Consequences of vague narratives

Rising despair as fertile ground for abusive self-soothing...

...broad consensus that [pain and despair] have been increasing for decades...

...an ocean of pain and distress among less-educated Americans



Annual Review of Economics

The Great Divide: Education, Despair, and Death

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Ann. Rev. Econ. 2022. 14:1–21

First published as a Review in Advance on April 1, 2022

The *Annual Review of Economics* is online at <https://doi.org/10.1146/annurev-economics-051220-091507>

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JEL codes: H1, I12, I4, I42, J10, J31, D72, P16

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Keywords

deaths of despair, opioid epidemic, COVID-19 pandemic, politics of despair, educational status, pain

Abstract

Deaths of despair, morbidity, and emotional distress continue to rise in the United States, largely borne by those without a college degree—the majority of American adults—for many of whom the economy and society are no longer adequate. Conversely, the mortality rate in the United States is diverging from education in a way not seen in other rich countries. We review the rising prevalence of pain, despair, and suicide among those without a bachelor's degree. Pain and despair created a baseline demand for opioids, but the escalation of addiction came from pharma and its political enablers. We examine the politics of despair, or how less-educated people have abandoned and been abandoned by the Democratic Party. Whereas healthier states once voted Republican in presidential elections, now the less-healthy states do. We review deaths during COVID-19, finding that mortality in 2020 maintained or exacerbated existing relative mortality differences between those with and without college degrees.

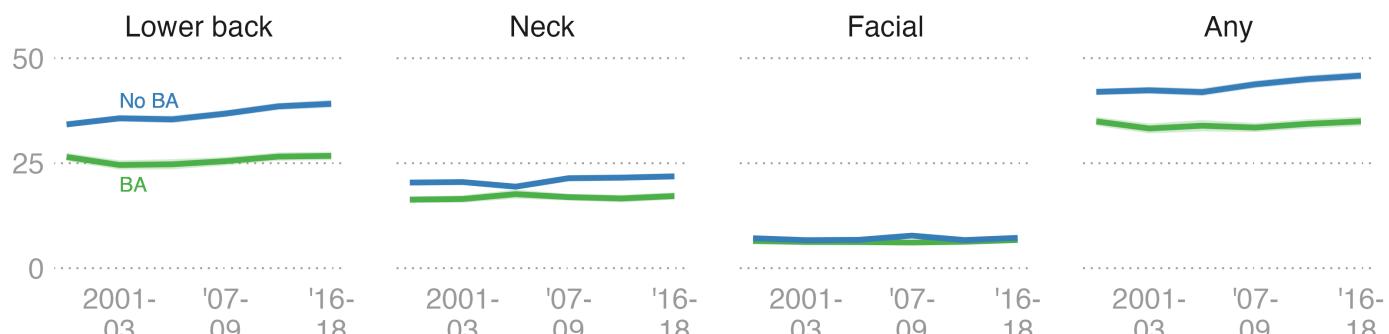
See Case and Deaton (2022)

Is this an 'ocean' of pain?

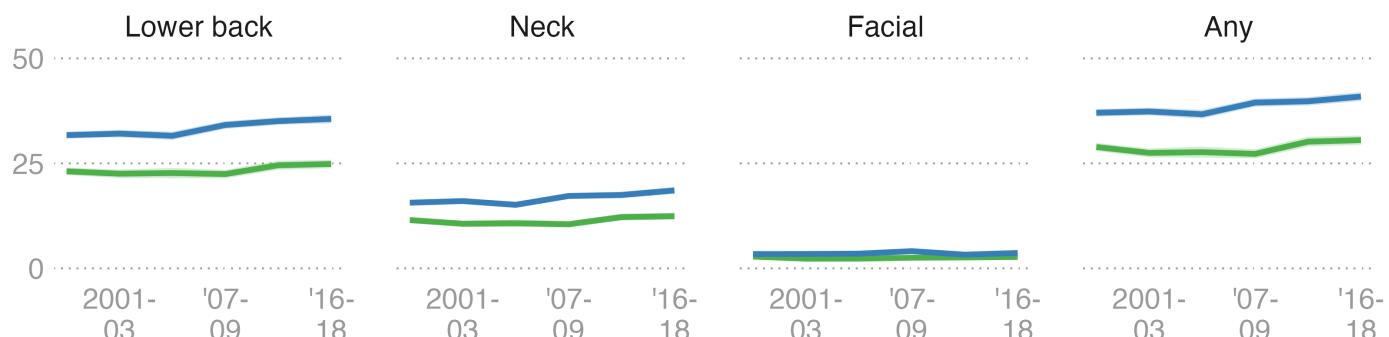
Can it drive
up mortality?

% adults ages 25+ reporting pain lasting a day or more, 2001-03 to 2016-18

Women



Men



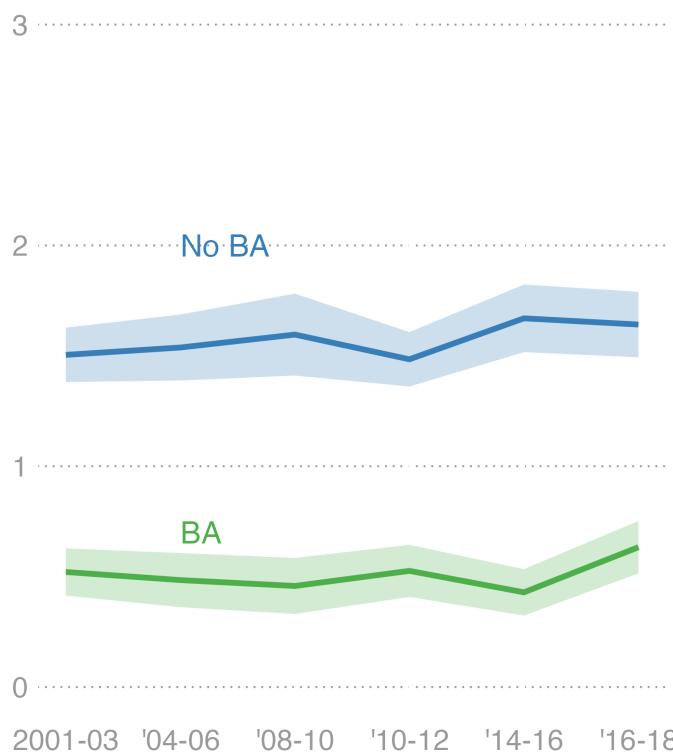
Source: Author's calculations of NHIS. See also Zaiacova et al. (2021) and Cutler and Glaeser (2021)

**Similarly flat
for ‘A little
or some’
hopelessness.**

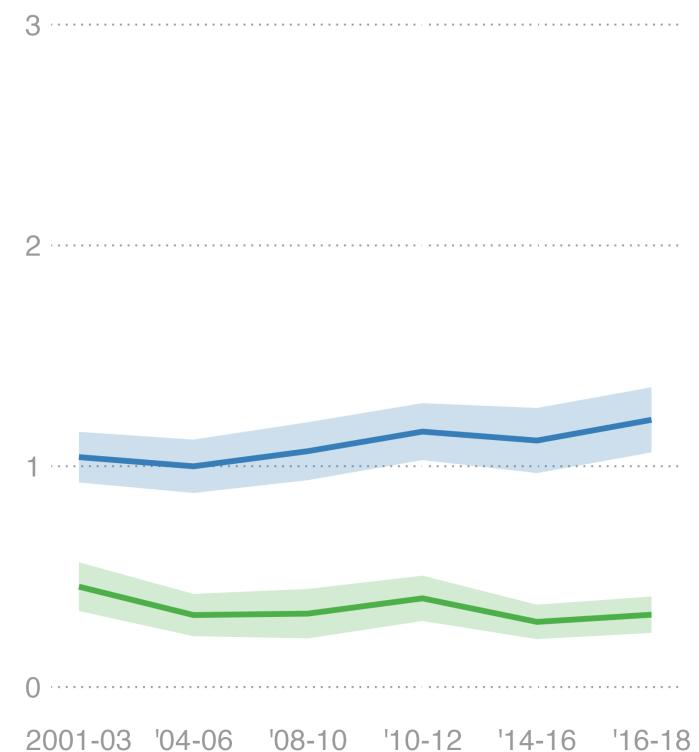
**Few
differences
by race.**

% adults ages 25+ reporting feeling hopeless most or all of the time, past month

Women



Men



Source: Author’s calculations of NHIS.

What about disadvantage?

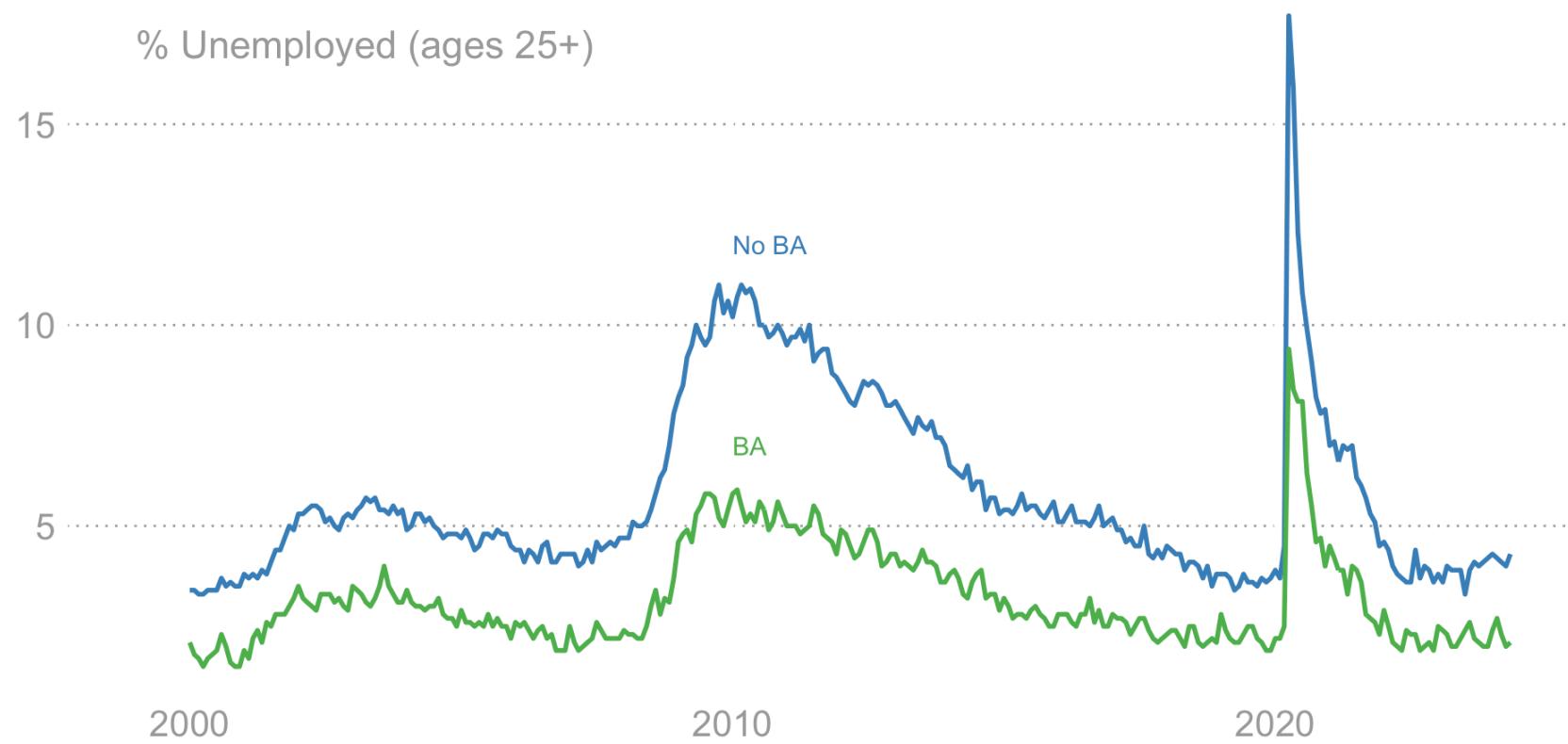
We propose a preliminary but plausible story in which cumulative disadvantage from one birth cohort to the next—in the labor market, in marriage and child outcomes, and in health—is triggered by progressively worsening labor market opportunities at the time of entry for **whites with low levels of education.**

ANNE CASE
Princeton University
ANGUS DEATON
Princeton University

*Mortality and Morbidity
in the 21st Century*

ABSTRACT Building on our earlier research (Case and Deaton 2015), we find that mortality and morbidity among white non-Hispanic Americans in midlife since the turn of the century continued to climb through 2015. Additional increases in drug overdoses, suicides, and alcohol-related liver mortality—particularly among those with a high school degree or less—are responsible for an overall increase in all-cause mortality among whites. We find marked differences in mortality by race and education, with mortality among white non-Hispanics (males and females) *rising* for those without a college degree, and *falling* for those with a college degree. In contrast, mortality rates among blacks and Hispanics have continued to fall, irrespective of educational attainment. Mortality rates in comparably rich countries have continued their premillennial fall at the rates that used to characterize the United States. Contemporaneous levels of resources—particularly slowly growing, stagnant, and even declining incomes—cannot provide a comprehensive explanation for poor mortality outcomes. We propose a preliminary but plausible story in which *cumulative disadvantage* from one birth cohort to the next—in the labor market, in marriage and child outcomes, and in health—is triggered by progressively worsening labor market opportunities at the time of entry for whites with low levels of education. This account, which fits much of the data, has the profoundly negative implication that policies—even ones that successfully improve earnings

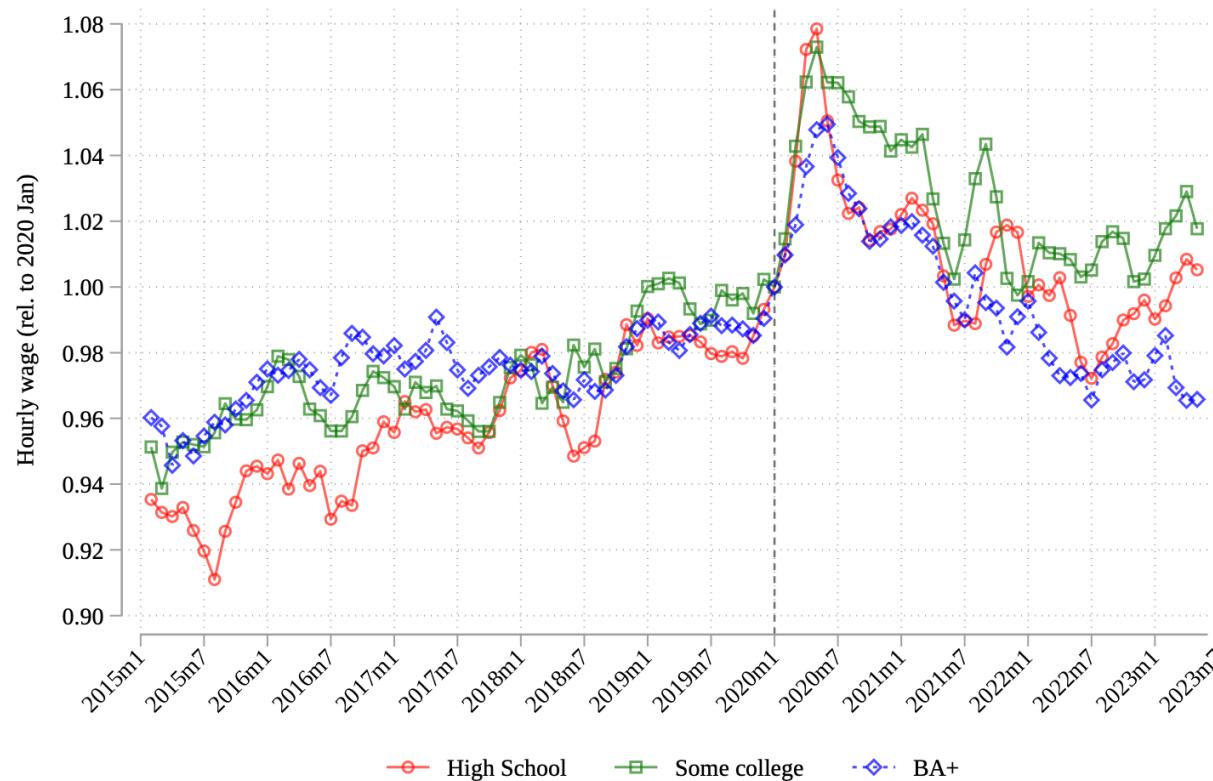
Unemployment gaps have remained largely consistent



Source: Federal Reserve Bank

The college wage premium has declined

- Had risen since early 1980s.
- Rapid growth at bottom of wage distribution since 2012.
- Stronger for those under age 40.



Source: Autor et al. (2023). Also see Aeppli and Wilmers (2022)

Parting thoughts

- Economic life is demonstrably worse for those without a BA.
- Evidence linking the ‘tangle of pathologies’ still limited.
- More recent work by CD reflects some listening to critics.
- Excessive focus on narrative of ‘despair’ and disadvantage draws attention away from other important causes, interventions, and population groups.

United States | Live free and die

Horrifying numbers of Americans will not make it to old age

America tolerates rates of early death well beyond those of other rich countries



Questions?

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References

- Aeppli C, Wilmers N. [Rapid wage growth at the bottom has offset rising US inequality](#). Proceedings of the National Academy of Sciences. 2022 Oct;119(42):e2204305119.
- Autor D, Dube A, McGrew A. [The Unexpected Compression: Competition at Work in the Low Wage Labor Market](#). Cambridge, MA: National Bureau of Economic Research; 2023 Mar p. w31010. Report No.: w31010.
- Case A, Deaton A. [Rising morbidity and mortality in midlife among white non-Hispanic Americans in the 21st century](#). Proceedings of the National Academy of Sciences of the United States of America. 2015 Dec;112(49):15078–83.
- Case A, Deaton A. [Mortality and morbidity in the 21st century](#). Brookings Papers on Economic Activity. 2017;2017:397–476.
- Case A, Deaton A. Deaths of despair and the future of capitalism. Princeton: Princeton university press; 2020.
- Case A, Deaton A. [The Great Divide: Education, Despair, and Death](#). Annual Review of Economics. 2022 Aug;14(Volume 14, 2022):1–21.
- Case A, Deaton A. Accounting for the widening mortality gap between American adults with and without a BA. Washington, DC: Brookings Institution; 2023.
- Cutler DM, Glaeser EL. [When Innovation Goes Wrong: Technological Regress and the Opioid Epidemic](#). Journal of Economic Perspectives. 2021 Nov;35(4):171–96.
- Dowd JB, Hamoudi A. [Is life expectancy really falling for groups of low socio-economic status? Lagged selection bias and artefactual trends in mortality](#). International Journal of Epidemiology.

2014 Aug;43(4):983-8.

- Geronimus AT, Bound J, Waidmann TA, Rodriguez JM, Timpe B. Weathering, Drugs, and Whack-a-Mole: Fundamental and Proximate Causes of Widening Educational Inequity in U.S. Life Expectancy by Sex and Race, 1990–2015. *Journal of Health and Social Behavior*. 2019 Jun;60(2):222–39.
- Harper S, Riddell CA, King NB. Declining Life Expectancy in the United States: Missing the Trees for the Forest. *Annual Review of Public Health*. 2021;42(1):381–403.
- Mehta NK, Abrams LR, Myrskylä M. US life expectancy stalls due to cardiovascular disease, not drug deaths. *Proceedings of the National Academy of Sciences*. 2020 Mar;117(13):6998–7000.
- Novosad P, Rafkin C, Asher S. Mortality Change among Less Educated Americans. *American Economic Journal: Applied Economics*. 2022 Oct;14(4):1–34.
- Simon DH, Masters RK. DO DEATHS OF DESPAIR MOVE TOGETHER? COUNTY-LEVEL MORTALITY CHANGES BY SEX AND URBANIZATION, 1990–2017. *American Journal of Epidemiology*. 2021 Jun;190(6):1169–71.
- Tilstra AM, Simon DH, Masters RK. Trends in "Deaths of Despair" Among Working-Aged White and Black Americans, 1990–2017. *American Journal of Epidemiology*. 2021 Sep;190(9):1751–9.
- Zajacova A, Grol-Prokopczyk H, Zimmer Z. Pain Trends Among American Adults, 2002–2018: Patterns, Disparities, and Correlates. *Demography*. 2021 Apr;58(2):711–38.