The COVID-19 pandemic is causing a catastrophic increase in US mortality. How does the scale of this pandemic compare to another US catastrophe: racial inequality? Using demographic models, I estimate how many excess White deaths would raise US White mortality to the best-ever (lowest) US Black level under alternative, plausible assumptions about the age patterning of excess mortality in 2020. I find that 400,000 excess White deaths would be needed to equal the best mortality ever recorded among Blacks. For White mortality in 2020 to reach levels that Blacks experience outside of pandemics, current COVID-19 mortality levels would need to increase by a factor of nearly 6. Moreover, White life expectancy in 2020 will remain higher than Black life expectancy has ever been unless nearly 700,000 excess White deaths occur. Even amid COVID-19, US White mortality is likely to be less than what US Blacks have experienced every year. I argue that, if Black disadvantage operates every year on the scale of Whites’ experience of COVID-19, then too should the tools we deploy to fight it. Our imagination should not be limited by how accustomed the United States is to profound racial inequality.

The COVID-19 pandemic is likely to kill people in the United States on a scale not seen in a century, since the 1918 flu. That catastrophic flu killed tens of millions worldwide and over half a million in the United States. Yet mortality levels that, for White Americans, were unprecedented nevertheless were lower than mortality for US Blacks in any given (nonpandemic) year. Past research has shown that the infectious mortality experienced by urban Whites in 1918 was lower than the infectious mortality of urban nonwhites in every documented year through 1920 (1). Fig. 1 shows that a similar pattern pertains to Whites’ and Blacks’ age-adjusted total mortality and life expectancy. Whites’ life expectancy in 1918 was far lower than in other twentieth-century years — yet higher than Black life expectancy in all years but one between 1900 and 1918. Similarly, Whites’ age-adjusted mortality in 1918 was lower than Black mortality in all years but one from 1900 to 1931. By all major mortality measures — infectious mortality, total mortality, and life expectancy — in the early decades of the twentieth century, Blacks in the United States experienced a scale of death comparable to Whites’ experience of the 1918 flu every year.

A century later, stark inequalities in survival persist. Will graphs of the early twenty-first century look like graphs of the early twentieth century, with a deadly pandemic causing a spike in mortality for Whites that nevertheless remains lower than the mortality Blacks experience routinely, outside of any pandemic? This question cannot be answered definitively until the final toll of COVID-19 is known. As a framework for answering it, I estimate how many White deaths from COVID-19 would be required for White mortality in 2020 to reach the levels of Black mortality in its best recorded year.

The results provide context for understanding the scale of racial inequality in mortality in the United States. Despite recent scholarly focus on rising White mortality (2), that racial inequality remains extreme. As Fig. 1 underscores, best-ever Black age-adjusted mortality and life expectancy are equivalent to White rates from, respectively, nearly 20 or 30 y earlier. For COVID-19 to raise mortality as much as racial inequality does, it would need to erase two to three decades of mortality progress for Whites.
pandemic for Whites will be less consequential to overall White mortality than racial inequality is for Black mortality every year. And unless 2020 sees 700,000 to 1 million excess White deaths—a 31 to 46% mortality increase from recent years—life expectancy for Whites, even amid COVID-19, will remain higher than it has ever been for Blacks.

The legal and structural contexts that produce racial inequality have shifted dramatically since the early twentieth century, creating a more economically heterogeneous Black population (8). Yet, a century after the 1918 flu, the basic fact endures that Black disadvantage is on the scale of the worst pandemics in modern US history.

In reality, COVID-19 deaths themselves are highly disproportionately experienced by Black Americans and will almost certainly further widen the racial mortality gap (9). To date, age-adjusted confirmed COVID deaths are more than 2.5 times higher for Blacks than Whites. These deaths alone would increase the disparity between the most recent White and the best-ever Black age-adjusted mortality, shown in Fig. 2, by 27%. The results portrayed in Fig. 2 underscore that this extreme inequality

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**Fig. 1.** US Black and White (A) logged deaths per 100,000 and (B) life expectancy, 1900–2017.

**Fig. 2.** Hypothetical excess White mortality that would raise White mortality, or lower White life expectancy, to best-ever Black levels. (A) Logged deaths per 100,000 and (B) life expectancy for non-Hispanic Blacks and Whites, 2006 to 2017, representing all years with official US life tables for these populations. The bolded numbers represent the number of excess White deaths in 2020 needed to raise the most recent documented White mortality to the lowest-ever Black mortality, or lower the most recent documented White life expectancy to the highest-ever Black life expectancy, respectively.
in COVID deaths is layered on top of stark disparities that have existed every year.

These estimates also pose a deeper challenge. Although specific policies are highly contested, we have radically reorganized how we live to minimize the risks associated with COVID-19, with relatively high social consensus (10) and lifesaving effects (11). Yet calls to radically reorganize social institutions in order to minimize racial disparities (12—17)—such as by providing various forms of reparations, greatly expanding and universalizing social programs, defunding the police, altering school assignment mechanisms and zoning laws to combat educational and residential segregation, and increasing wages and workplace democracy—remain highly contentious (18). These results should reframe these debates away from which transformations are politically tenable to, simply, which transformations will be effective in preventing harms associated with racism. If Black disadvantage operates every year on the scale of Whites’ experience of COVID-19, then so too should the tools we deploy to fight it. Our imagination and social ambition should not be limited by how accustomed the United States is to profound racial inequality.

Materials and Methods

Historical data are from the National Center for Health Statistics (3, 19). Population denominators are from the American Community Survey, via IPUMS-USA (20), and the Census Bureau (21), and employ algorithms to allocate multiracial individuals (22). COVID-19 mortality data are from the Centers for Disease Control (6). Equations for equalizing age-adjusted mortality and life expectancy were developed by the author. Equations and their derivations, software code, and other detailed methods are available at https://osf.io/bzkcw/ (23).

Data Availability. Software code, equations, and data have been deposited in Open Science Framework, https://osf.io/bzkcw/.

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