

Widespread declines in life expectancy across high income countries coincide with rising young adult, midlife mortality

August 15 2018



Credit: CC0 Public Domain

The ongoing opioid epidemic in the United States is a key contributor to the most recent declines in life expectancy, suggests a study published by

The BMJ today.

A second study shows an increase in US [death](#) rates in midlife (people aged between 25-64 years) involving all major racial groups, and cites a broad range of conditions as potential causes.

Together, these findings point to an urgent need to examine systemic causes of declining health in the US.

Life expectancy is a measure of the health and wellbeing of a population. Widespread or sustained declines in [life expectancy](#) may signal problems in a nation's social and economic conditions or in the provision or quality of its healthcare services.

The first study, authored by Jessica Ho at the University of Southern California and Arun Hendi at Princeton University, looked at trends in [life](#) expectancy across 18 high income countries and found that most countries experienced declines in life expectancy in 2015.

This is the first time in recent decades that these many high income countries simultaneously experienced declines in life expectancy for both men and women, and the size of these declines were larger than in the past.

In the non-US countries, these declines were largely concentrated at ages 65 and older and likely related to a particularly severe influenza season. The main causes of death driving these declines included influenza and pneumonia, respiratory disease, cardiovascular disease, and Alzheimer's disease and other mental and nervous system disorders.

But in the US, the [decline](#) was concentrated at younger ages, particularly those in their 20s and 30s, and largely driven by increases in [drug overdose deaths](#) related to its ongoing opioid epidemic. The authors

point out that the US decline is particularly troubling in light of its already low life expectancy ranking relative to its peer countries.

And unlike other countries in the study, life expectancy in both the US and the UK continued to decline in 2016, which the researchers say raises questions about future trends in these countries.

A second study, also published today, suggests that the problem is larger than the opioid epidemic. It shows increased death rates from dozens of causes among people in all racial and ethnic groups.

Using national data to compare midlife death patterns from 1999 to 2016, Steven Woolf at Virginia Commonwealth University and colleagues found that although drug overdoses, suicides, and alcoholism were the leading cause of excess deaths, mortality rates also increased dramatically for organ diseases involving the heart, lung, and other body systems. "The [opioid epidemic](#) is the tip of an iceberg," said Woolf.*

Previous studies had documented a rise in "deaths of despair" among middle-aged white people in the US, but this is the first study to show that the trend now encompasses multiple body systems and is striking multiple racial and ethnic groups. These increases are offsetting years of progress in lowering death rates among black and Hispanic adults.

Furthermore, although overall [death rates](#) were higher among men than among women, the relative increase in fatal drug overdoses and suicides was greater in women, consistent with other reports of the worsening health disadvantage among women in the US.

The authors say "no single factor, such as opioids, explains this phenomenon" and suggest that their study "signals a systemic cause and warrants prompt action by policy makers to tackle the factors responsible for declining health in the US."

Both studies are observational, so no firm conclusions can be drawn about cause and effect, and the authors highlight several limitations that may have affected their results.

Nevertheless, taken together, these two studies highlight warning signs that must not be ignored and should prompt urgent review of systemic causes of declining health in the US.

In a linked editorial, Domantas Jasilionis at the Max Planck Institute for Demographic Research in Germany says life expectancy is a key characteristic of human development and declines should be taken seriously. Historical evidence suggests that discontinuities in secular trends can lead to prolonged health crises—they are warning signs of fundamental and longstanding societal and health problems.

He points to the [negative health consequences](#) of growing social deprivation and austerity policies, but notes that high life expectancies in the UK and many other high income countries (including the Nordic countries with strong pro-equitable social policies) coexist with large or even increasing health disparities. In future, persisting notable health disadvantages of some population groups may become an important obstacle for sustainable [health](#) progress at the national level.

He calls for more reliable data to underpin effective policies, and says "more effort must be made to convince international and national agencies to invest in robust register based systems that allow timely and accurate monitoring of changes in longevity," he concludes.

More information: Recent trends in life expectancy across high income countries: retrospective observational study

www.bmj.com/content/362/bmj.k2562

Changes in midlife death rates across racial and ethnic groups in the

United States: systematic analysis of vital statistics

www.bmj.com/content/362/bmj.k3096

Editorial: Reversals in life expectancy in high income countries?

Warning signs must not be ignored

www.bmj.com/content/362/bmj.k3399

Provided by British Medical Journal

Citation: Widespread declines in life expectancy across high income countries coincide with rising young adult, midlife mortality (2018, August 15) retrieved 20 April 2024 from

<https://medicalxpress.com/news/2018-08-widespread-declines-life-high-income.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.