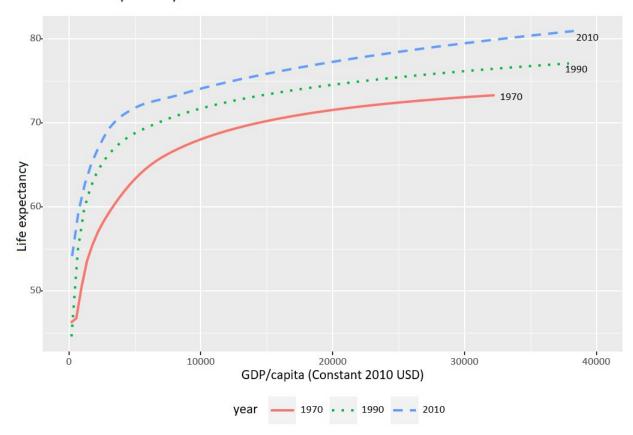


Education, not income, the best predictor of a long life

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Income vs life expectancy at birth



Curve showing the relationship between income and life expectancy in 1970, 1990 and 2010. Credit: Lutz/Kebede

Rising income and the subsequent improved standards of living have



long been thought to be the most important factors contributing to a long and healthy life. However, new research from Wolfgang Lutz and Endale Kebede, from IIASA and the Vienna University of Economics and Business (WU) has shown that instead, the level of education a person has is a much better predictor of life expectancy.

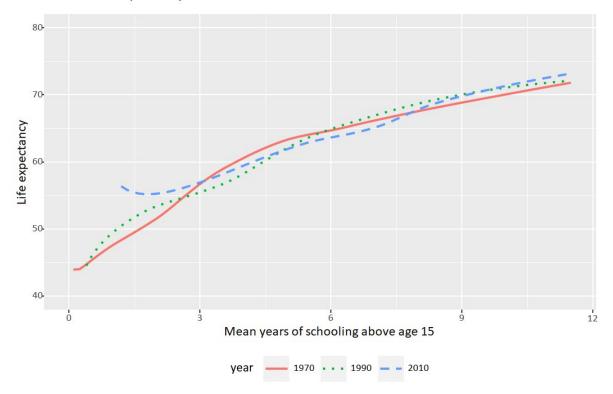
In 1975, Samuel Preston developed the Preston Curve, which plotted the GDP per person on the horizontal axis against <u>life expectancy</u> on the vertical axis. The <u>curve</u> shows a clear but flattening upward trend in <u>life</u> expectancy with increasing GDP. The curves also shift upwards over time which has been explained by better healthcare.

In 1985, John Caldwell and Pat Caldwell suggested instead that lowered mortality resulted from better female <u>education</u>. In their new paper, Lutz and Kebede used global data from 174 countries from 1970-2015 to test the two hypotheses. Whether income or education is more important for improving health and life expectancy is an important question for policymakers deciding where to direct funding.

Lutz and Kebede also plotted life expectancy against the mean years of schooling of the adult population. The curve created is much more linear, suggesting that education is a much better predictor. There is no upward shift of the curve requiring explanation by other factors. Data was subject to multivariate analyses to validate the findings. The same link was found when the curves were adjusted for child mortality.



Education vs life expectancy at birth



Curve showing the relationship between education and life expectancy in 1970, 1990 and 2010 Credit: Lutz/Kebede

The researchers point out that better education leads to improved cognition and in turn to better choices for health-related behaviours. Recent decades have seen a shift in the disease burden from infectious to chronic diseases, the latter of which are largely lifestyle-related. As time goes on, the link between education and better health choices, and therefore life expectancy, will become even more apparent.

"This paper is more radical than previous analyses in terms of challenging the ubiquitous view that income and medical interventions are the main drivers of health. It even shows that the empirical



association between income and health is largely spurious," says Lutz.

Previous lines of research at the Wittgenstein Centre, a collaboration between IIASA, WU and the Vienna Institute of Demography, have emphasised the importance of improving education for poverty eradication and economic growth, as well as the ability to adapt to climate change. These findings further back up the call for improved access to education.

The apparent link between health and <u>income</u> found by Preston can be explained by the fact that better education results in both better health and higher incomes.

"The findings matter for the entire global <u>health</u> research community, and they matter for everybody in global development and deciding on funding allocations for the different aspects of development," says Lutz, adding that funding quality education for all around the world should be a much higher priority.

More information: Wolfgang Lutz et al, Education and Health: Redrawing the Preston Curve, *Population and Development Review* (2018). DOI: 10.1111/padr.12141

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