## Economic opportunity: a determinant of health?



The economic circumstances into which an individual is born have been repeatedly shown to fundamentally shape health throughout their life. By contrast, surprisingly little research has been done into the inequality in an individual's opportunity to move out of those circumstances—particularly since these factors might be potentially modifiable. In The Lancet Public Health, Atheendar Venkataramani and colleagues<sup>1</sup> provide a major contribution to the field. The traditional focus taken within much of the social mobility and health literature has been the comparison of health outcomes between those who move upwards, downwards, or remain unchanged along some dimension of social stratification—often social class or education in the UK, or income within the USA. Instead, Venkataramani and colleagues ask whether living in an area with equitable levels of economic opportunity benefits health.

Drawing on a newly available measure of inequality of opportunity, they find that counties in the USA with a higher intergenerational social mobility tend to experience better self-reported health outcomes (namely improved self-reported health, reduced smoking and HIV risk behaviours, but not body-mass index) than those with lower intergenerational social mobility. The authors conduct substantial additional analyses to check the robustness of their findings to alternative classifications of the exposure and adjustment for a range of confounders. However, as the authors acknowledge, their study represents the first step to establishing whether inequality of opportunity is a genuine determinant of population health.

Moving beyond this observed association to establish causation will be a major challenge for social epidemiologists in the future. One potential avenue of further exploration is comparative research, either over time or across geographical locations. The magnitude of inequalities of opportunity in Europe has at times been controversial, but different European countries do seem to afford differing economic opportunities to their young people.<sup>2</sup> However, the most appropriate spatial scale at which an effect of inequality of opportunity operates remains unclear. Although this study considers US counties (which contain an average of approximately 100 000 people), whether the country level or an

even more local level is most analytically appropriate is not known. Even more problematically, the most appropriate spatial scale might vary over time and place depending on the extent of the residential mobility of a population. Ultimately, comparison at a range of spatial scales is likely to be necessary.

An alternative and increasingly appealing approach to address the causality question is to try to identify natural experiments, where a rapid change in inequality of opportunity could provide an opportunity to more directly study its causal effects. Economic recessions might provide one example, since people entering the labour market during a recession will often experience barriers to meeting their economic potential. Recessions themselves have been linked to a range of adverse effects on health, but not consistently so-context, and particularly the availability of active labour market policies to foster employment opportunities, seem to have a role.<sup>3-5</sup> Venkataramani and colleagues' study suggests a potential mechanism through which recessionary effects might be realised and this in turn provides an opportunity to test their hypothesis. Establishing that inequality of opportunity exerts a causal effect on health will not necessarily quide policy makers as to the best actions for improving population health, but learning from natural policy experiments might help achieve that too.

Another important and unanswered question is what the implications of this research are for health inequalities. There is broad agreement that the social determinants of health underlie health inequalities. However, more studies of upstream determinants on differential health outcomes across social groups are needed, with a particular focus on the intergenerational transmission on health inequalities.6 Although intuitively increased social mobility might be expected to narrow health inequalities, this might not be the case.78 If an individual's innate ability to attain income is also associated with health, more meritocratic societies might allow those with better health to preferentially move to more advantaged socioeconomic circumstances, thereby widening health inequalities. Understanding whether equality of opportunity results in improved population health but widens health inequalities remains a major gap for future research.

Published Online October 3, 2016 http://dx.doi.org/10.1016/ S2468-2667(16)30004-4 See Articles page e18 Understanding inequality of opportunity has never been more urgent. Thomas Piketty, a French economist, has argued that wealth is becoming increasingly concentrated in the hands of the few and this is impeding the potential for social mobility amongst the many. If Piketty is correct in his calculations that inequality of opportunity will worsen, this latest study suggests the potential implications for public health could be serious. Ensuring economic policy is cognisant of effects on health is likely to become increasingly necessary for public health in the future.

## Srinivasa Vittal Katikireddi

MRC/CSO Social & Public Health Sciences Unit, Glasgow G2 3QB, Scotland, UK

vittal.katikireddi@glasgow.ac.uk

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