

# Preparing for COVID-19's aftermath: simple steps to address social determinants of health

### Anant Jani

Value Based Healthcare Programme – Department of Primary Care, University of Oxford, Oxford OX2 6GG, UK **Corresponding author:** Anant Jani. Email: anant.r.jani@gmail.com

While many face a loss of life, a great many more face a loss of livelihood.<sup>1</sup>

For many countries across the world, we are seeing unprecedented economic declines and, in some cases, the largest collapses in business activity ever recorded.<sup>2–6</sup> Unlike the 2008 global financial collapse, which took at least 4–5 years before we reached a reasonable steady state for our citizens,<sup>7</sup> the current crisis affects nearly all sectors of our economy with several companies already going out of business.

## Recovery from COVID-19's aftermath will take years

While we wait to recover economically, we know from the 2008 global financial collapse that we will see a large increase in social and health needs including worsening living standards, well being reductions, decreased educational achievement, increased rates of suicide and increase in poor mental health, many of which will stem from unemployment.<sup>8–12</sup> All of these social and health needs will likely precipitate an increase in inequalities and social fragmentation.<sup>9</sup>

Designing a response to deal with these issues is not straightforward because of the myriad societal elements that will affect and be affected by the responses and the unpredictability of the effects.<sup>13</sup> We are dealing with complex systems that are non-linear and are not reversible<sup>14</sup> – we will not be able to return to our pre-COVID state. Further to this, COVID-19's aftermath presents us with a situation of fundamental uncertainty where we will be unable to know or predict the probability of alternatives or outcomes.<sup>15</sup>

### In the face of these fundamental uncertainties, what should we do?

Studies by Gigerenzer and other behavioural economists have shown that in complex and uncertain situations, simple rules known as heuristics can consistently outperform complex algorithms based on big data models. Heuristics are conscious and unconscious strategies for making decisions in ways that are adapted to the structure of the decision maker's local environment. The study of heuristics has shown that ignoring complexity of the environment can reduce effort and can also lead to more accurate judgements. Some classic examples of heuristics include<sup>15</sup>:

- 1/N rule: allocating resources equally to each of N alternatives can outperform optimal asset allocation portfolios
- Satisficing: exploring alternatives and selecting the first one that exceeds your aspiration levels can lead to better choices than by chance.

The heuristic we see being used by governments across the world is to pump money, about USD five trillion globally to date, into their economies to help businesses and individuals to maintain their live-lihoods.<sup>16</sup> Despite the massive increase in debt across the world, which will likely continue to increase as COVID-19's negative impact continues unravelling, this is likely the right response because as Draghi, former President of the European Central Bank, points out, it is the role of the state to step in during emergencies and protect its citizens and the economy against shocks that the private sector cannot remedy.<sup>1</sup>

These trillions, though helpful, are necessary but not sufficient to keep our citizens, populations and societies healthy if they are not spent on the right things.

As public health experts such as Rose, Wilkinson and Marmot have been telling us for many decades, it is the social determinants of health (e.g. housing, education, transportation, access to jobs, nutritious food, clean air, clean water, support to prevent/recover from substance abuse, etc.) that determine 70–80% of our health outcomes.<sup>17,18</sup>

Adopting a heuristic approach to take simple steps can go a long way to supporting our citizens during the tough times to come. In response to the 2008 global financial collapse and the recession the UK faced afterwards, the UK's Faculty of Public Health recommended several actions to mitigate negative health impacts including: active labour market programmes; family support programmes; control of alcohol prices and availability; primary care for people at high risk of mental health problems; debt relief programmes; training for healthcare professionals to discuss patients' finances and provide information on benefits; and coordinated responses across health, social and financial services to facilitate early interventions for at-risk populations.<sup>19</sup>

Recovering from COVID-19 will not be easy and it will be painful. But understanding where we can and cannot make an impact will help us to take simple steps in areas we can control so that we can optimise the way we spend our limited resources and ensure as peaceful and efficient a recovery from COVID-19 as possible.

#### Declarations

Competing Interests: None declared.

Funding: None declared.

Ethics approval: Not applicable.

Guarantor: AJ.

Contributorship: Sole authorship.

Acknowledgements: None.

Provenance: Not commissioned; editorial review

#### References

- 1. Financial Times. *Draghi: We Face a War Against Coronavirus and Must Mobilise Accordingly*. See www. ft.com/content/c6d2de3a-6ec5-11ea-89df-41bea055720b (last checked 2 April 2020).
- IHS Markit. Few, If Any, Countries or Industries will be Immune to Economic Impact. See https://ihsmarkit.com/ research-analysis/covid19-update-countries-industrieseconomic-impact.html (last checked 2 April 2020).
- 3. IHS Markit. COVID-19 Outbreak Leads to Largest Collapse in Eurozone Business Activity Ever Recorded. See https://ihsmarkit.com/research-analysis/covid19outbreak-leads-to-largest-collapse-in-eurozone-businessactivity-ever-recorded-March2020.html?utm\_source= feedburner&utm\_medium=feed&utm\_campaign=Feed %3A+MarkitPMIsAndEconomicData+%28IHS+ Markit+PMIs+and+Economic+Data%29 (last checked 2 April 2020).
- 4. IHS Markit. Flash PMI Signals Record Slump in Business Activity Amid Emergency Public Health Measures to Halt Spread of Coronavirus. See www.

markiteconomics.com/Public/Home/PressRelease/ 0f164ac0128b429ea1c329104afd62c3 (last checked 2 April 2020).

- IHS Markit. COVID-19 Outbreak Dampens Output Across all Sectors in Asia Except Healthcare. See https://ihsmarkit.com/research-analysis/covid19outbreak-dampens-output-across-all-sectors-in-asiaexcept-healthcare-Mar20.html (last checked 2 April 2020).
- 6. IHS Markit. *Flash US PMI Signals Steepest Output Slump for a Decade Amid Coronavirus Outbreak*. See https://ihsmarkit.com/research-analysis/flash-us-pmi-signals-steepest-output-slump-for-a-decade-amid-coronavirus-outbreak-March2020.html (last checked 2 April 2020).
- Office for National Statistics UK. Measuring National Well-being. The Economy, 2012. See https://webarchive.nationalarchives.gov.uk/20160107122743/http:// www.ons.gov.uk/ons/rel/wellbeing/measuring-nationalwell-being/the-economy/art-economic-well-being.html (last checked 2 April 2020).
- Boyce CJ, Delaney L and Wood AM. The Great Recession and subjective well-being: How did the life satisfaction of people living in the United Kingdom change following the financial crisis? *PLoS One* 2018; 13: e0201215.
- 9. Christodoulou NG and Christodoulou GN. Financial crises: impact on mental health and suggested responses. *Psychother Psychosom* 2013; 82: 279–284.
- Lindström M and Giordano GN. The 2008 financial crisis: changes in social capital and its association with psychological wellbeing in the United Kingdom – a panel study. Soc Sci Med 2016; 153: 71–80.
- Chang SS, Stuckler D, Yip P and Gunnell D. Impact of 2008 global economic crisis on suicide: time trend study in 54 countries. *BMJ* 2013; 347: f5239.
- Overseas Development Institute. The Impacts of the Economic Crisis on YouthReview of Evidence. See https://assets.publishing.service.gov.uk/media/ 57a08b1740f0b64974000970/60828\_Youth-Evidence-Review-Final.pdf (last checked 2 April 2020).
- Marro J. Physics, Nature and Society: A Guide to Order and Complexity in our World. Switzerland: Springer, 2014.
- 14. Fieguth P. An Introduction to Complex Systems: Society, Ecology and Nonlinear Dynamics. Cham, Switzerland: Springer, 2017.
- 15. Mousavi S and Gigerenzer G. Risk, uncertainty, and heuristics. *J Bus Res* 2014; 67: 1671–1678.
- 16. Economic Times. G20 Leaders Pledge USD 5 Trillion, 'United' Response to Coronavirus Crisis. See https:// economictimes.indiatimes.com/news/international/ business/g20-leaders-pledge-usd-5-trillion-unitedresponse-to-coronavirus-crisis/articleshow/74835666. cms?utm\_source=contentofinterest&utm\_medium= text&utm\_campaign=cppst (last checked 2 April 2020).

- 17. Rose G. Sick individuals and sick populations. *Int J Epidemiol* 1985; 14: 32–38.
- 18. WHO. Social Determinants of Health: the Solid Facts, 2nd edn. Geneva: WHO, 2003.
- 19. Faculty of Public Health. The Impact of the UK Recession and Welfare Reform on Mental Health.

See www.fph.org.uk/policy-campaigns/special-interestgroups/special-interest-groups-list/public-mentalhealth-special-interest-group/better-mental-health-forall/the-economic-case/the-impact-of-the-uk-recessionand-welfare-reform-on-mental-health/ (last checked 2 April 2020).