From: Paul Jenkins and Jeremy M. Kronick
To: Policymakers at All Levels of Government
Date: July 13, 2020
Re: HEALTH AND THE ECONOMY – WITH NUMBERS

When the pandemic nature of the COVID-19 virus was finally recognized, Canada acted boldly to contain and control its spread. We didn't know as much as we know now, and as such we were forced into unmeasurable tradeoffs. In those early days with limited information, the focus was rightly on health and on shutting down the economy to minimize infection and mortality rates.

Now, some four months into the crisis, we are gaining knowledge on a number of fronts, meaning we can measure and minimize those tradeoffs.

With the knowledge and experiences gained, we have reached a point where we can better gauge risks and begin to have informed discussions on the optimal mix of policies—on the health front, on the economic front, and, critically, on the intersection of the two.

By accumulating data during the shutdown, we can ask what mix of polices will give us both the health and economic outcomes we desire—in economic parlance, a Pareto optimal outcome.

We can ask, for example, what combinations of restrictions, work protocols, preventative measures and hospital capacity are necessary to achieve the same (or lower) levels of mortality/hospitalization we achieved with a complete lockdown in the early stages of our COVID-19 battle. And, data availability can now help us respond in an informed, timely and forceful manner if need be to new information.

On the health side, our policymakers have been greatly aided by the use of epidemiological models that generate scenarios of the spread of the virus and ways to contain that spread.

What we have not seen in Canada, however, is the use of these types of models to help us assess the optimal mix of health and economic policies combined. A recent paper by Acemoglu et al., looked at this issue of the optimal mix of policy using US health and economic data. The story they tell is likely the same in Canada and is exactly the conversation we should be having as we navigate the risks and uncertainties on the road to recovery.

In that paper, the authors' big innovation is they treat their three groups—young (20–49), middle-aged (50–64) and older (65+)—differently, in terms of how they are locked down (or not). This gives policymakers much more flexibility than the uniform policies (i.e., no age differentiation) we were forced to use at the beginning of the pandemic.

Their results show that under a uniform policy, keeping the mortality rate at 0.2 percent in the adult population, the resulting fall in GDP over the next year would be 38 percent.

By contrast, under a targeted policy where the ‘old’ are locked down more severely than the rest of the population, keeping the mortality rate at 0.2 percent, the fall in GDP is reduced to 25 percent.

The authors go further. If we add ‘group distancing’, where interactions between ‘old’ and the rest of the population are limited, the results are even better: keeping the mortality rate at 0.2 percent, the fall in GDP is now 16 percent. And, to all these policies, if we add testing and tracing, the results are better yet: keeping the mortality rate at 0.2 percent, the fall in GDP is now 7 percent.

Of course, these scenarios are highly sensitive to the assumptions and parameters chosen for the model, but are nonetheless robust to a variety of different tests.

So, what policy insights can we import from this research? There are four key ones:

1. The need to communicate to the public that opening up the economy isn’t a tradeoff with lives lost due to COVID-19, if done responsibly;
2. When you stop treating each group symmetrically, you realize the benefits arising from more targeted policies (whether by age or other criteria), which will be critical to sustaining the recovery;
3. The impact on economic growth of targeted policies, combined with group distancing and testing and tracing, without sacrificing lives, shows that current policies are sub-optimal;
4. The need to discuss the intersection of health and the economy in a transparent way with the public.

The success we will have in our COVID-19 battle rests ultimately on the behaviour of each of us. Our health and economic endpoints and the path to those endpoints are intertwined. We need a narrative from our leaders that engages Canadians to build the understanding and confidence needed to get us to those endpoints.

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1. This is not to underplay the difficulty in keeping the mortality rate at 0.2 percent, even under targeted policies, with the tragedies in Canadian LTC facilities the most notable example.

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