PHARMA & HEALTHCARE

Expert call: Flattening the COVID-19 curve

India Equity Research | Pharma & Healthcare

We organized a call with Dr. Ali Okhowat, a leading COVID-19 responder and CEO of mHealth Global, to discuss measures being taken to tackle COVID-19 and his learnings from around the world. While previously working with the WHO, Dr. Ali Okhowat co-founded and Co-Led the WHO Innovation Hub in Geneva and served as a WHO Health Emergency Officer. Dr. Okhowat is now heavily involved in COVID-19 response efforts. Here are the key conference call takeaways:

a) Flattening the all-important curve requires a 6-step formula

According to the WHO, each country's goal should be to control the transmission of and reduce the mortality from COVID-19. Hence, countries should: i) break transmission chains and monitor hotspots; ii) trace and quarantine contacts; iii) implement public health & social measures and strengthen the healthcare systems; iv) loosen restrictions in a phased manner; v) control risk of import/export of cases as global trade resumes; and vi) keep communities engaged.

b) Lockdown vs. herd-immunity depends on strength of healthcare system

SARS-CoV-2 has been mutating and reports indicate that only 2-3% people have developed antibodies. We don't know if the next wave, if it comes, is going to be the same strain. Dr. Ali believes that shelter-in-place orders are needed to control community transmission, especially when we do not have widely available means of measuring immunity. Until we have a vaccine or reliable treatments, there may be a need to maintain different combinations of public health and social measures, ideally adapted to local jurisdictions' transmission scenarios.

c) Differing testing rates across countries, but methods continue to evolve

Testing rates differ across countries mainly because of different criteria. Dr. Ali says that one of the best proxies to track is the number of hospitalized cases to understand the spread of moderate to severe presentations, with data on admissions to the ICU allowing for an understanding of the latter. On testing methods, currently RT-PCR testing is being done, though this test could have high false-negative rates depending on the duration of symptoms or lack thereof. Immunological point of care testing with antibodies could be more reliable yet more research is needed to improve reliability.

d) Global partnerships will determine the world's success in finding a cure

In the year to come, the world will likely see the approval of several drugs and a handful of technologies that can create vaccines. While it is likely that a vaccine may take over a year, Dr. Ali believes that success will depend on partnerships outside of home geographies to test solutions in different jurisdictions and to equitably distribute these vaccines on a massive scale.

e) The short-term and long-term solutions to the crisis

While short-term solutions like breaking the transmission chain and implementing public health and social measures are being undertaken, the medium-term solution requires governments and international institutions to co-ordinate and bear costs for open-source innovation that are shared with the most fragile health systems in low and middle resource contexts. In the longerterm, vaccination is unlikely to be widely disseminated before Q2CY21.

Our view

These are unusual and challenging times. We have been writing on these issues and sharing our perspectives in recent weeks. Please refer to our notes – <u>A remedy for a malady</u>, <u>Assessing</u> *impact on hospitals*, and **Prefer diagnostics over hospitals**.

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