





COVID-19: Building on the HIV response to introduce innovation in a pandemic



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Innovation in a pandemic: 40 years of HIV to the rescue?

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Objectives

- Understand the role of innovation in science in the COVID19 response
- Where did this innovation come from and how was it mobilized so quickly?
- What role did our experience with HIV play?
- Can the COVID19 response enhance the HIV response in the future?



Vale Professor Gita Ramjee



April 8th, 1956 - March 31st., 2020



The impact of COVID19 on R&D: including HIV



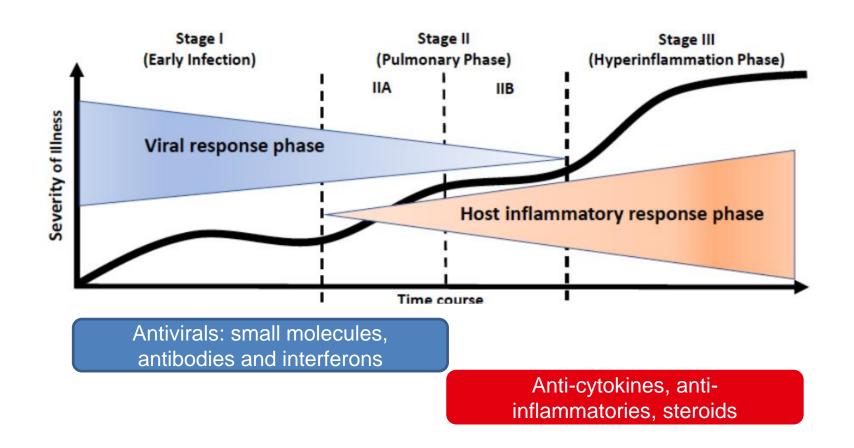
Estimated loss in Australia alone in the University sector is \$2.5 billion in 2020, loss of 14,000 EFT with long term impact on research workforce



The impact of HIV on COVID19



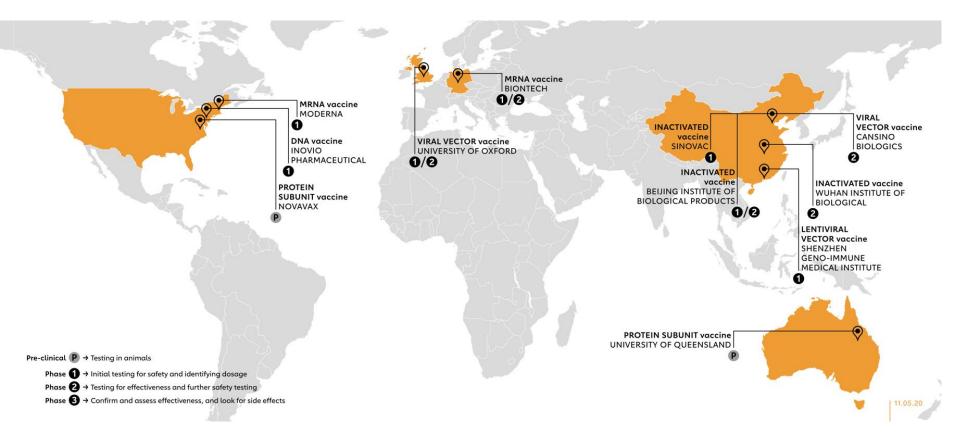
COVID19 treatments: not all about the virus



Saddiqui et al., J Heart Lung Transpl 2020



COVID19 vaccine approaches



HIV vaccines: DNA, RNA, non replicating viral vectors (Ad26, Ad5, ChAd, MVA)

https://www.gavi.org/vaccineswork/covid-19-vaccine-race



Access to new medicines: FDA Emergency Use Authorisation



FDA EUA granted for hydroxychloroquine (March 29th., 2020) and remdesivir (May 1st, 2020)

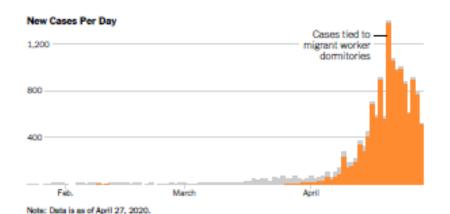


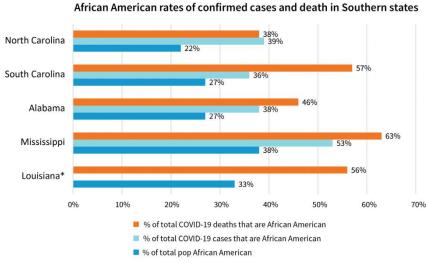
Human rights at the centre of a pandemic response

Packed With Migrant Workers, Dormitories Fuel Coronavirus in Singapore

By Welvi Cai and K.K. Rebecca Lai April 28, 2020

Singapore has seen a surge of coronavirus cases among migrant workers, after months of successfully controlling the outbreak. As of Tuesday, coronavirus cases linked to migrant worker dormitories accounted for 88 percent of Singapore's 14,446 cases, including more than 1,400 new cases in a single day.







What are the opportunities for HIV in a post COVID world?

- High global awareness of viruses and pandemic preparedness
- Health system strengthening needed globally to protect everyone
- New global initiatives for testing, drugs and vaccines
- Scientific innovation for COVID19 will be high and we are likely to see a reciprocal flow to the HIV sector