## **BEYOND THE NUMBERS: UNDERSTANDING THE** DIVERSITY OF COVID-19 RESPONSE IN SOUTH ASIA

Zulfigar A Bhutta and colleagues compare the response in South Asian countries and consider what is needed to contain COVID-19 and manage future pandemics



A girl in Nepal waits to refill an oxygen tank



A patient gets a supply of oxygen.





outh Asia was one of the first regions to be exposed to SARS-GoV-2 through the region are delen in Junuary 2020. However, the subsequent epidemic profile of COVID-19 in the region varied considerably, as it did in Africa.

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After an initial rise, cases plateaued in all countries of South Asia except India, where the pundemic led to a steady rise in cases and deoths until the action of the profile of the profile

billion doess administered by the end of May 2021.
The spread of variants with increased risk of transmission, coupled with with the control of the control

case-based configures, teating press, case-boad, and deaths per million population).

We have proviously described the early organisation of oversight and control of COVID-19 in Pakistan in some detail, and now expand this analysis broadly to compare the COVID-19 response across several countries of South Asia. We also included Iran in the comparison because of its robust negativation yeakens for trial statistics of the properties of the pr



The COVAX facility is stagnating due to supply is



Education has been hit hard by the pandemic.

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Reaction (PCR) tests for SARS-CoV-2 detection in nasal or nasopharyngeal awabs and has already spent over USS 250m (£180m; £210m) on testing, far exceeding some annual provincial beautiful properties. Indicate the season of the provincial beautiful properties. Indicate the season of the provincial beautiful properties. Indicate the provincial beautiful properties. In the provincial properties of the season of the properties of the properties of the properties of the properties. Given relatively low rates of testing, doubts have been expressed about the veracity of COVID-19 mortality data from South Asia and Africa. However, many countries put in place specific systems to capture COVID-19 deaths. In Pakistan, the infrastructure of the polio surveillance programme was adapted for COVID-19 overties, and private sector hospitals covering all regions. Some systematic under-reporting of COVID-19 related deaths is, however, filledy, as in high income countries, and it has been estimated to be as high as 7.1 million. But the mortality capture gap in 2020 is unlikely to have been massive in South Asia. The same data capture systems have difficently reporting systems have difficently reporting systems with corresponding immense pressures on health systems. Although reporting systems may not have captured the full magnitude of COVID-19 associated mortality in plase 1 and 2 of the pandemix, they do permit reasonable trend analyses. Over the past year, COVID-19 related deaths remained much lower in South Asia than in the US, UK, and Europe, and

demic.

also lower than in Brazil, Mexico, and South Africa. Africa has also had relatively low death rates from COVID-19. Although the reason for this remains unclear, it could be partly telated to a relatively sounger population with power levels of comorbidines that the control of the control of the control of the country of the co

commercial electrochemiluminescence automated immunosasy in low and high transmission neighbourhoods of Karachi in June 2020 showed 8.7 percent (3.1 percent 10.31. percent) and 15.1 percent (9.4 percent to 12.17 percent prevalence, respectively. By contrast, targeted studies in siam populations of Munibai in June and July 2020 areas of the studies compared with 16.1 percent (range 12.0-18.9 percent) among non-slum dwellers. Comparable seroprevalence trends were seen in Bangdadesh. The disastrous upsurge of cases in India in spring 2021 is now recognised to be related to the emergence and sproad of the delta variant (B. 1617.2), considered 50 percent more infectious than the more common alpha variant than the more common alpha variant than the more common alpha variant seed and the sproad of the delta variant (B. 1617.2), considered 50 percent more infectious when the supposed of the delta variant (B. 1617.2), considered 50 percent more infectious seed of the supposed of the despite supposition is such as Nepol. Afghanistan, and Bangdadeshi, it is evident that despite seroposition level, many people remain susceptible to these new variants.

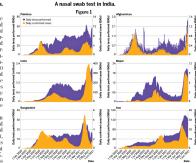
What have we learnt? commercial electrochemiluminescence

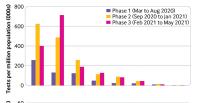
## What have we learnt?

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The first lesson for South Asian countries, as for other low and middle income countries, is that COUID-19 is unsparing and complacency can be supported by the countries of the





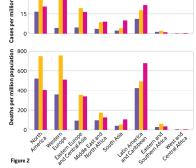


Figure 1 details the trends in testing and positivity rates since March 2020 for several South Asian countries plus Iran. The corresponding data from other UNICEF regions are given in Figure 2.

UNICE regions are given in rigure 2:
sick. Key medit COVID-19 disappeared
from pharmacies to be sold on the
black market at exorbitant rates, and
often to ambulatory patients least in
need.
These recognised pressure points
could have been predicted and avoided.
Fortunately, other South Asian countries seem to have learnt vital lessons
to avoid a virtual collapse of the health
system, as seen in India. All countries
experienced problems with communication and transparency during the
chaos in the early phase of the pandemic.

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Perhaps the single largest risk for a continued COVID-19 crisis in South Asia is the abysmal vaccination strate-egy in the region. India implemented an intense vaccine diplomacy initiative with donations to all strategic neigh-bours (except Pakistan), but given the massive domestic burden of infections, concerd on the reovision stemplies to

bours (except Pakistan), but given the massive domestic burden of infections, reneged on the promised supplies to the global Cowar facility.

The supply and pace of vaccinations have not kept up with the spread of COVID-19 in any low or middle income country. A large increase in global finances will be needed to support and enhance Cowar, which given limited supplies also proses enformed setting the control of the properties of the control of the contr we need global solutarity and concert-ed evidence-informed efforts to contain this existential threat, and countries of South Asia need to find common ground and solutions. (BMJ) (The lead author can be reached at zulliqar.bhutta@aku.edu)



Disinfecting an area in Sri Lanka.