

# SCIENTIFIC RESEARCH MONITORING ON COVID-19

**29 JULY 2020**

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# SCIENTIFIC RESEARCH MONITORING ON COVID-19

## (ISSUE 178)

Abu Dhabi Public Health Center (ADPHC) is gathering the latest scientific research updates and trends on coronavirus disease (COVID-19) in a daily report. The report provides summaries on breakthrough or updated research on COVID-19 to allow health care professionals and public health professionals get easy and fast access to information.

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Note : All articles presented in this report represent the authors' views and not necessarily represents Abu Dhabi Public Health Center views or directions. Due the nature of daily posting , some minor language errors are expected.

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# RESEARCH UPDATES

The views and opinions expressed in this report are those of the authors and do not reflect the official policy or position of the Abu Dhabi Public Health Center (ADPHC).

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## The ministry of Health contribution

### Public Health Response

Early Policy Actions and Emergency Response to the COVID-19 Pandemic in Mongolia: Experiences and Challenges

### Public Health Response

Strategy and Planning - WHO

### Transmission

Impact of COVID-19 Second Wave on Healthcare Workers Staffing Levels

### Vaccine

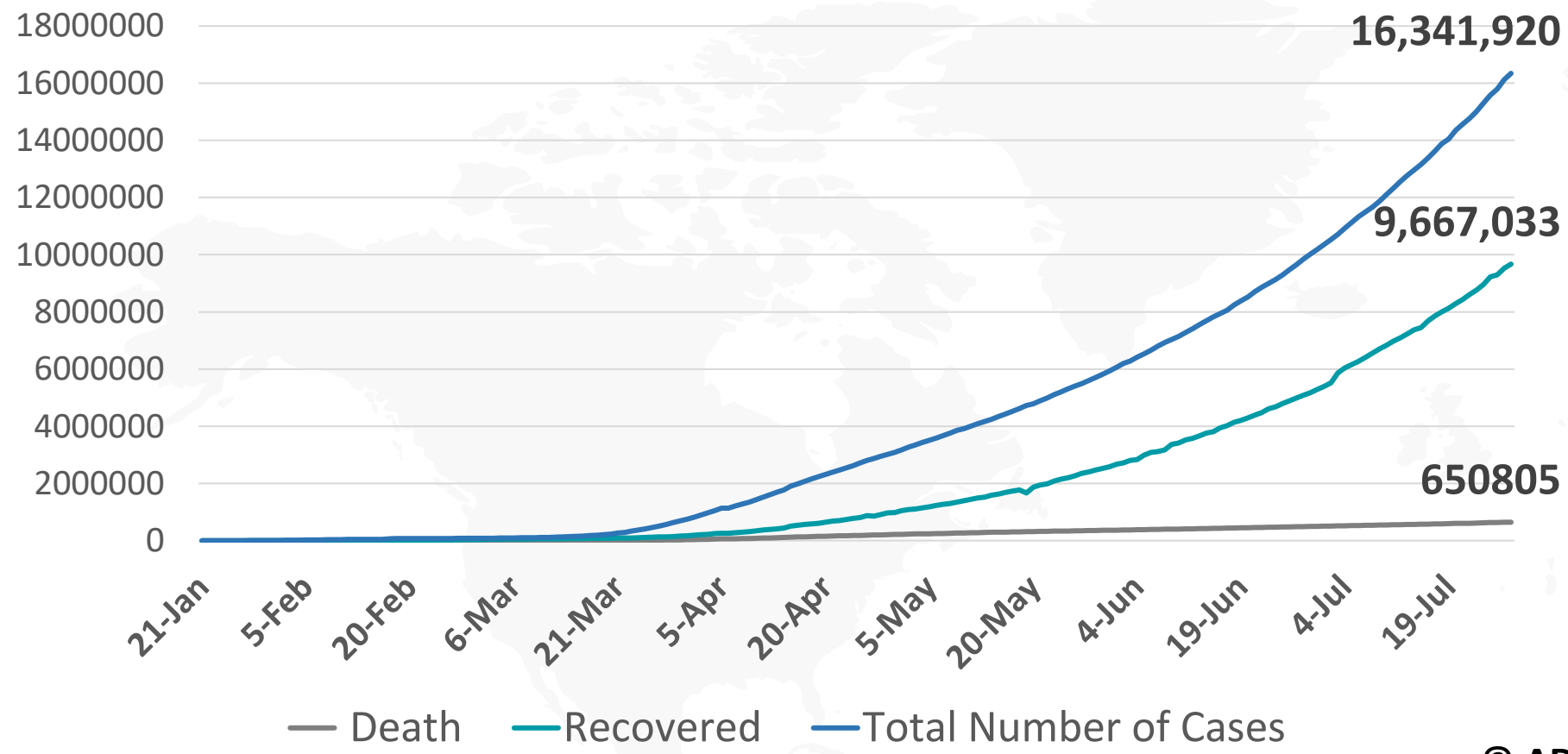
Draft Landscape of COVID-19 Candidate Vaccines



- WHO has published interim guidance on considerations for implementing mass treatment, active case finding and population-based surveys for neglected tropical diseases in the context of the COVID-19 pandemic. The document proposes a two-step approach: a risk-benefit assessment to decide if the planned neglected tropical diseases activity should proceed and a review of a list of precautionary measures to decide how the planned activity should be implemented.
- Ethiopia vaccinates nearly 15 million children against measles despite COVID-19 challenges. The campaign's target was 15 million children, and it attained 96% coverage (14.4 million), showing that even with the ongoing COVID-19 pandemic, countries can continue to carry out life-saving mass vaccinations.
- The WHO Regional Office for the Americas and the Caribbean Development Bank (CDB) launched the “Stronger Together” campaign to assist communities in promoting mental wellbeing and positive coping strategies during times of stress and crisis. The awareness campaign will run until November 2020 and includes a range of promotional materials and media.

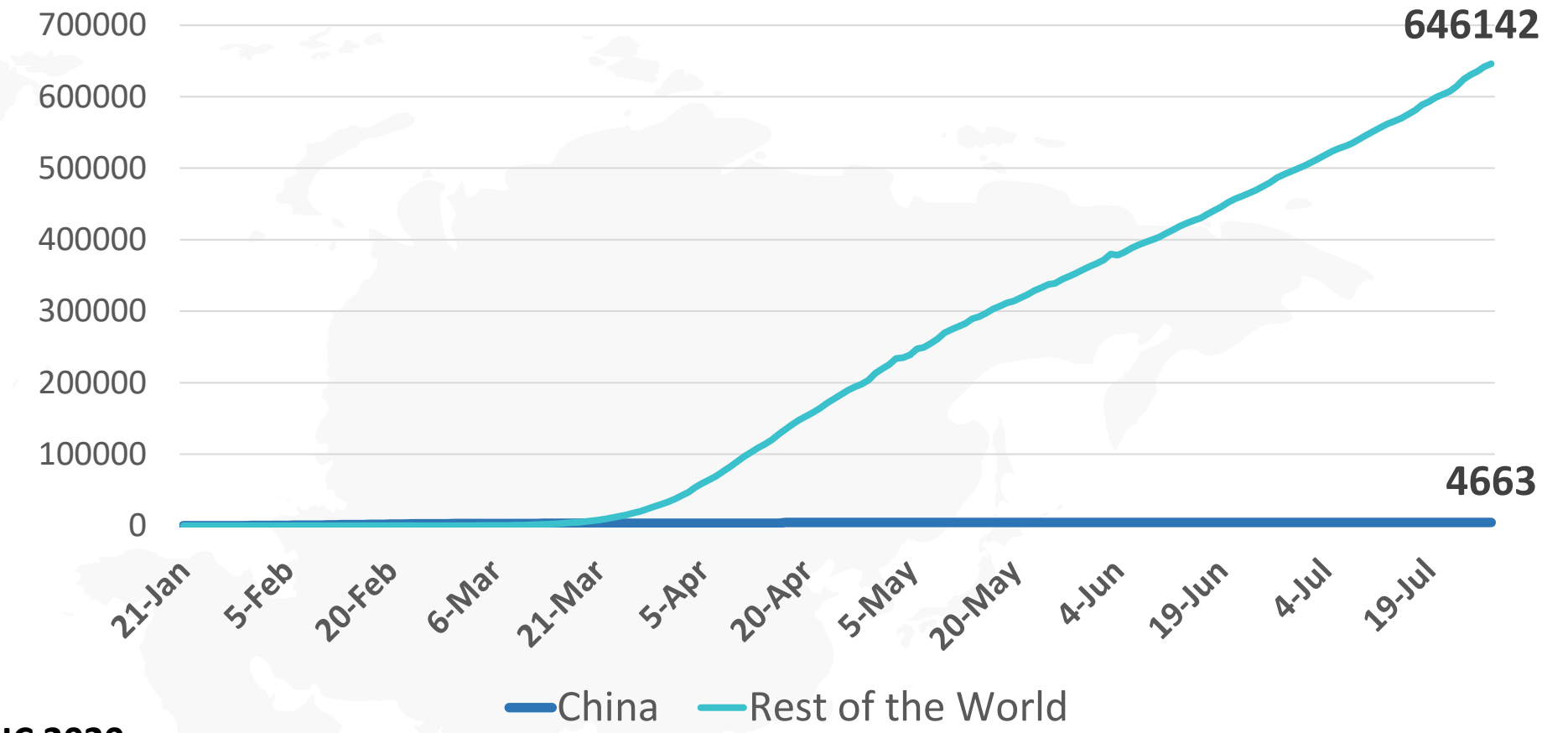


**Figure 1: Total Number of Infected, Recovered, and Death Cases**

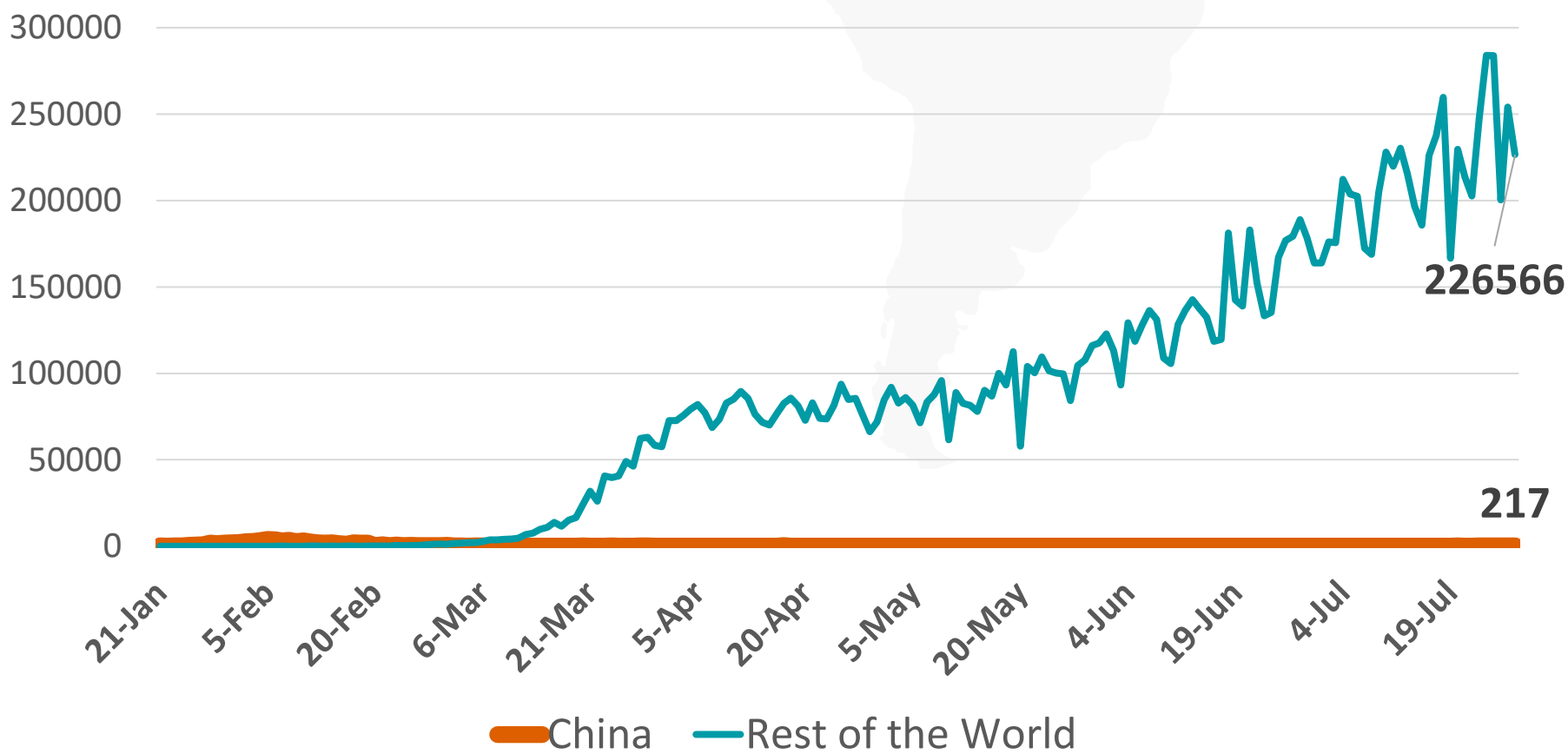


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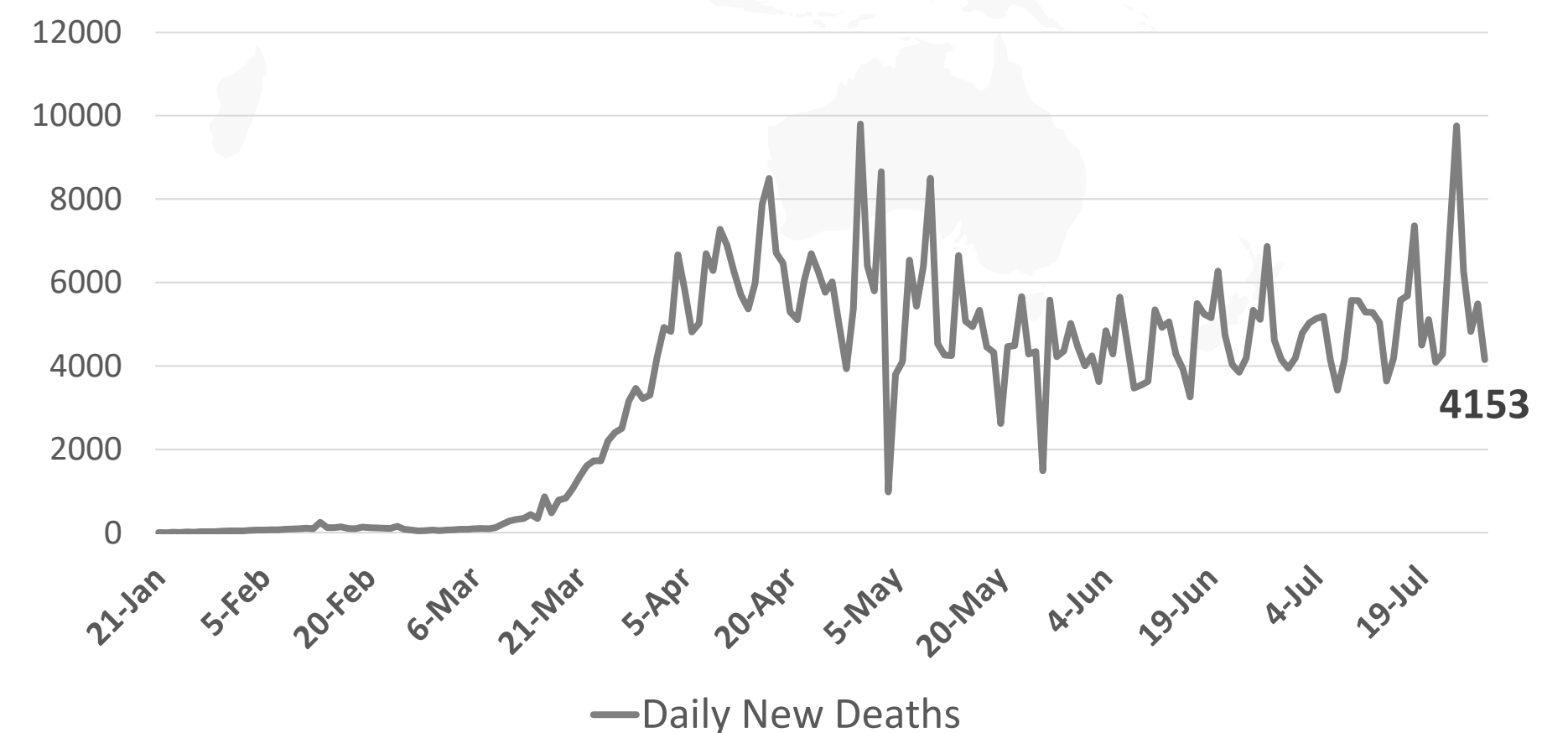
**Figure 3: Total Number of Deaths Due to COVID-19 (China and rest of the world)**



**Figure 2: Daily New Infected COVID-19 Cases (China and rest of the world)**



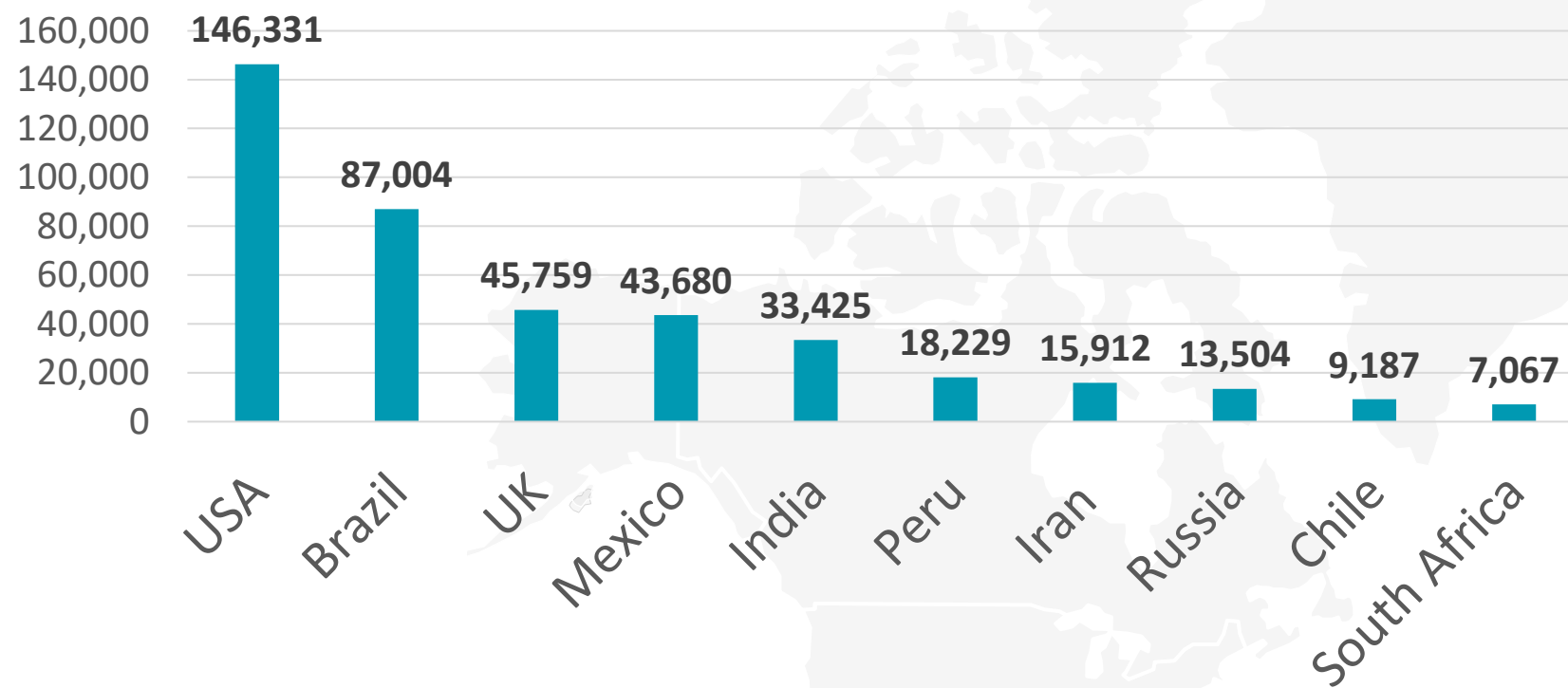
**Figure 4: Global Daily New Deaths Due to COVID-19 (China and rest of the world)**



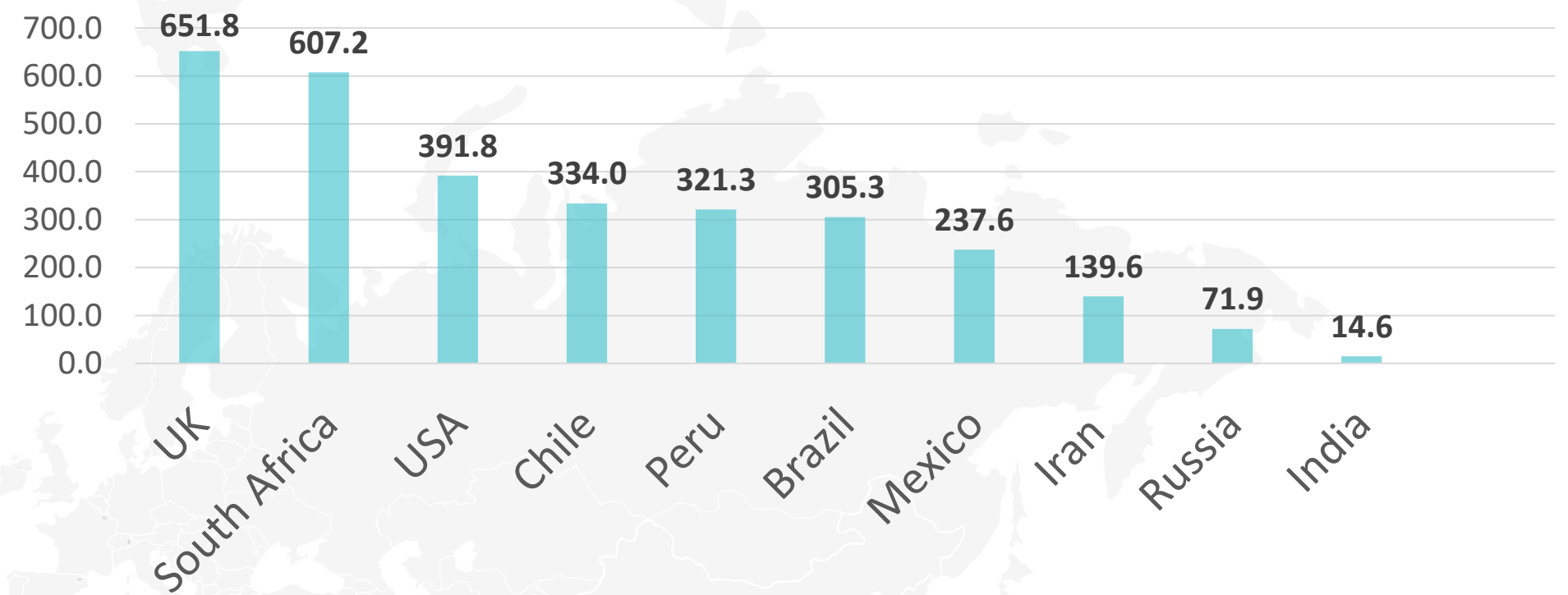


## Figure 3: Top 10 Countries in the Total Number of Cases Due to COVID-19

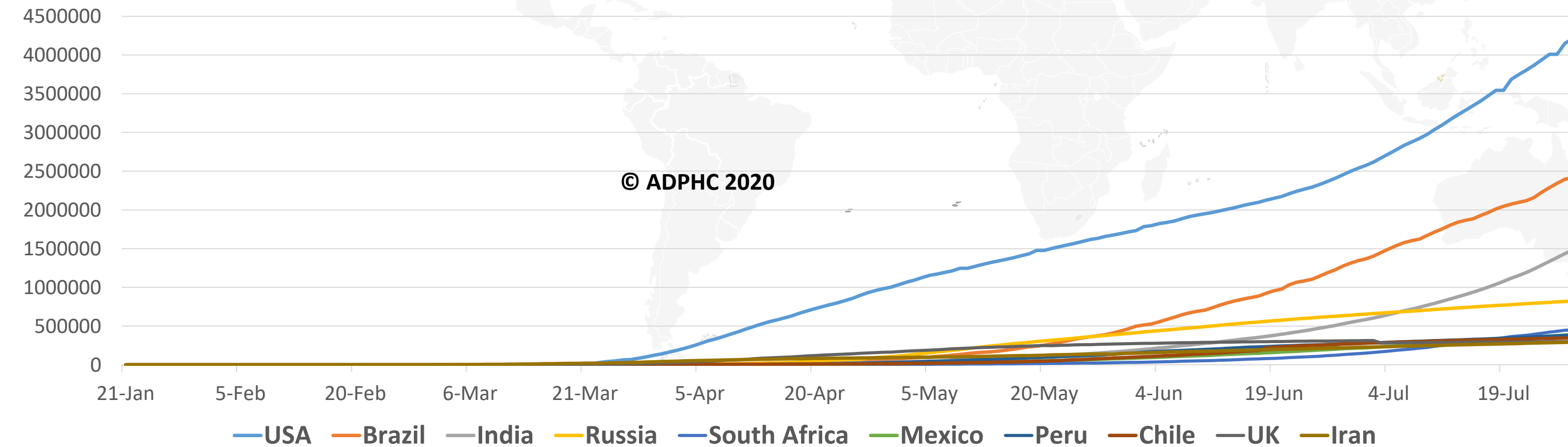
### TOTAL DEATHS



### DEATHS PER MILLION

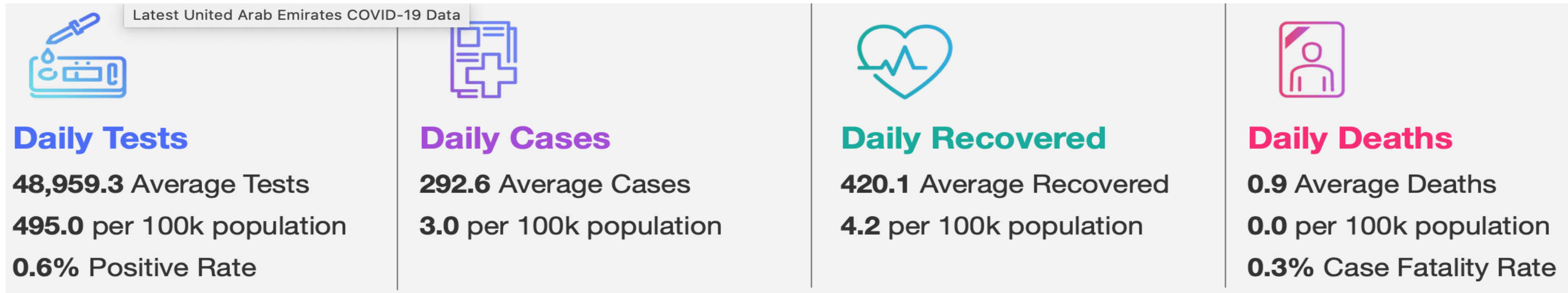


### TOTAL INFECTED CASES

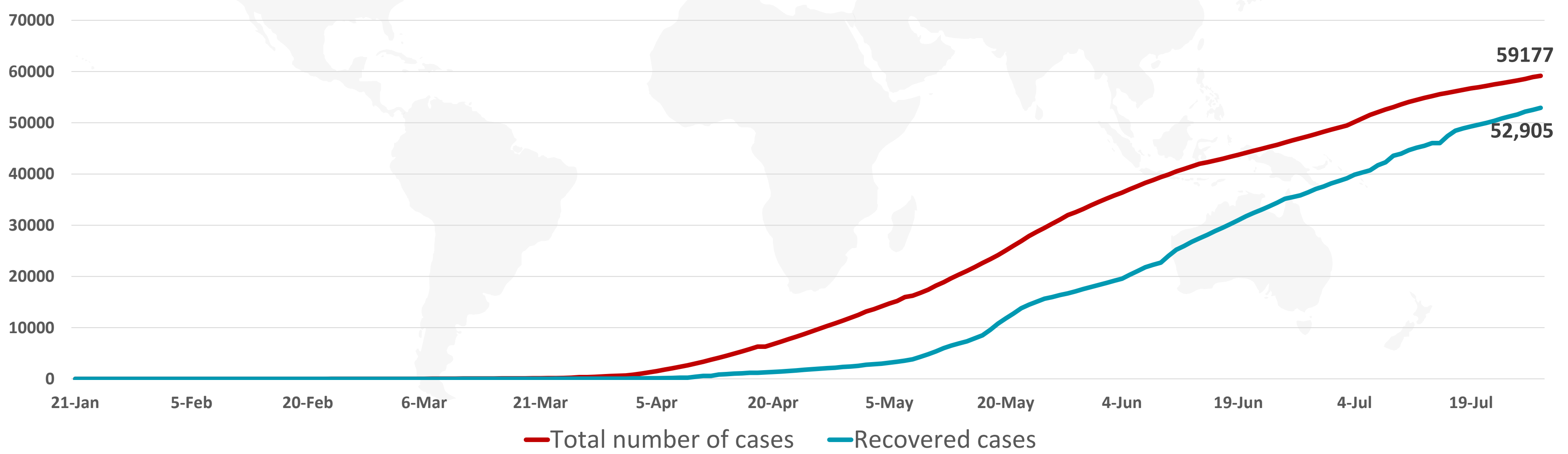


USA	4,209,509
Brazil	2,419,091
India	1,483,156
Russia	823,515
South Africa	452,530
Peru	390,516
Mexico	384,797
Chile	347,923
UK	300,115
Iran	293,606

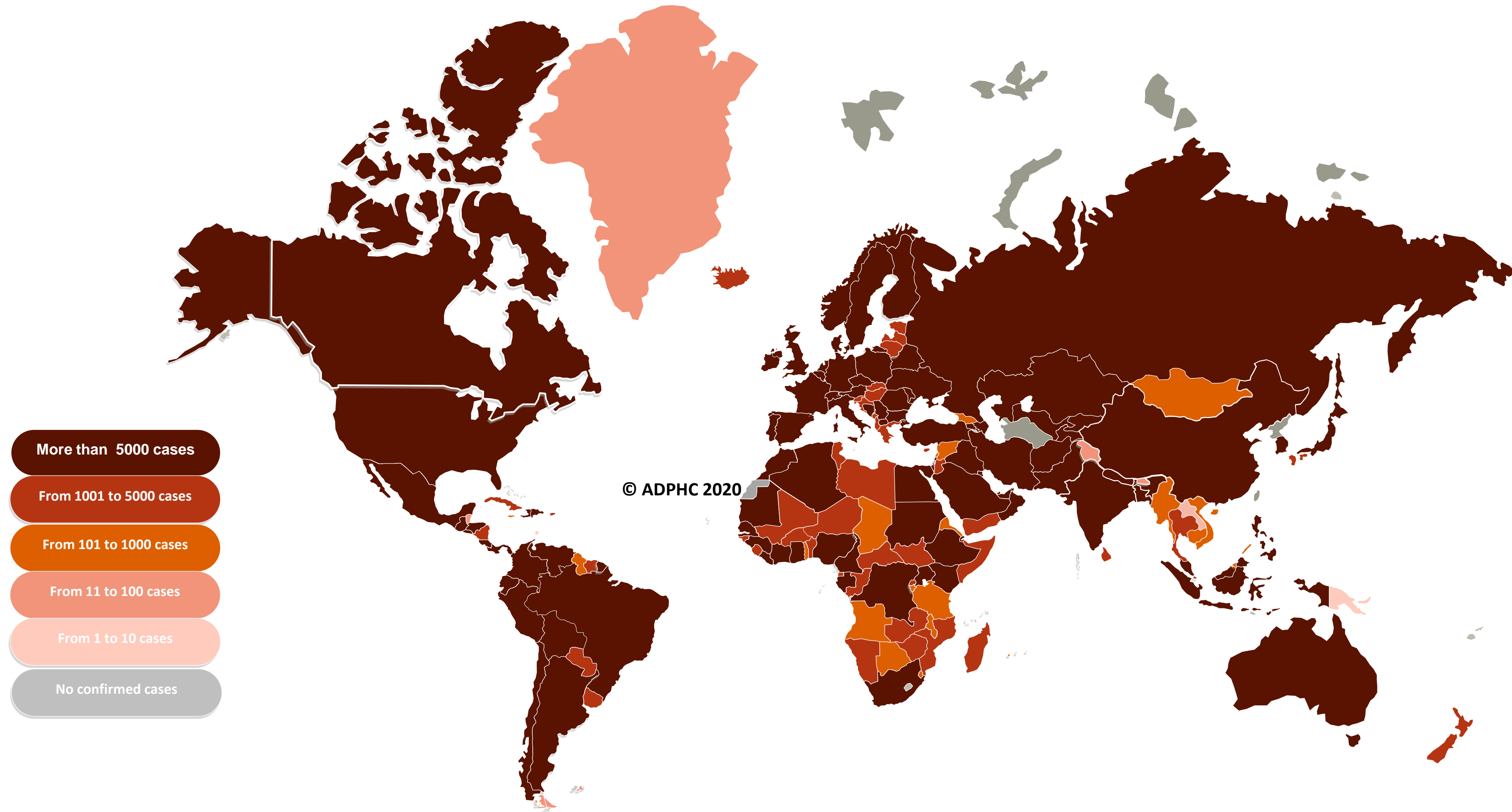
**Figure 5: COVID-19 Status in the UAE** (Federal Competitiveness and Statistics Authority Dashboard)



## TOTAL NUMBER OF INFECTED AND RECOVERED CASES DUE TO COVID-19 REPORTED BY THE UAE



## Figure 7A : Global Distribution of COVID-19 Cases



More than 5000 cases

From 1001 to 5000 cases

From 101 to 1000 cases

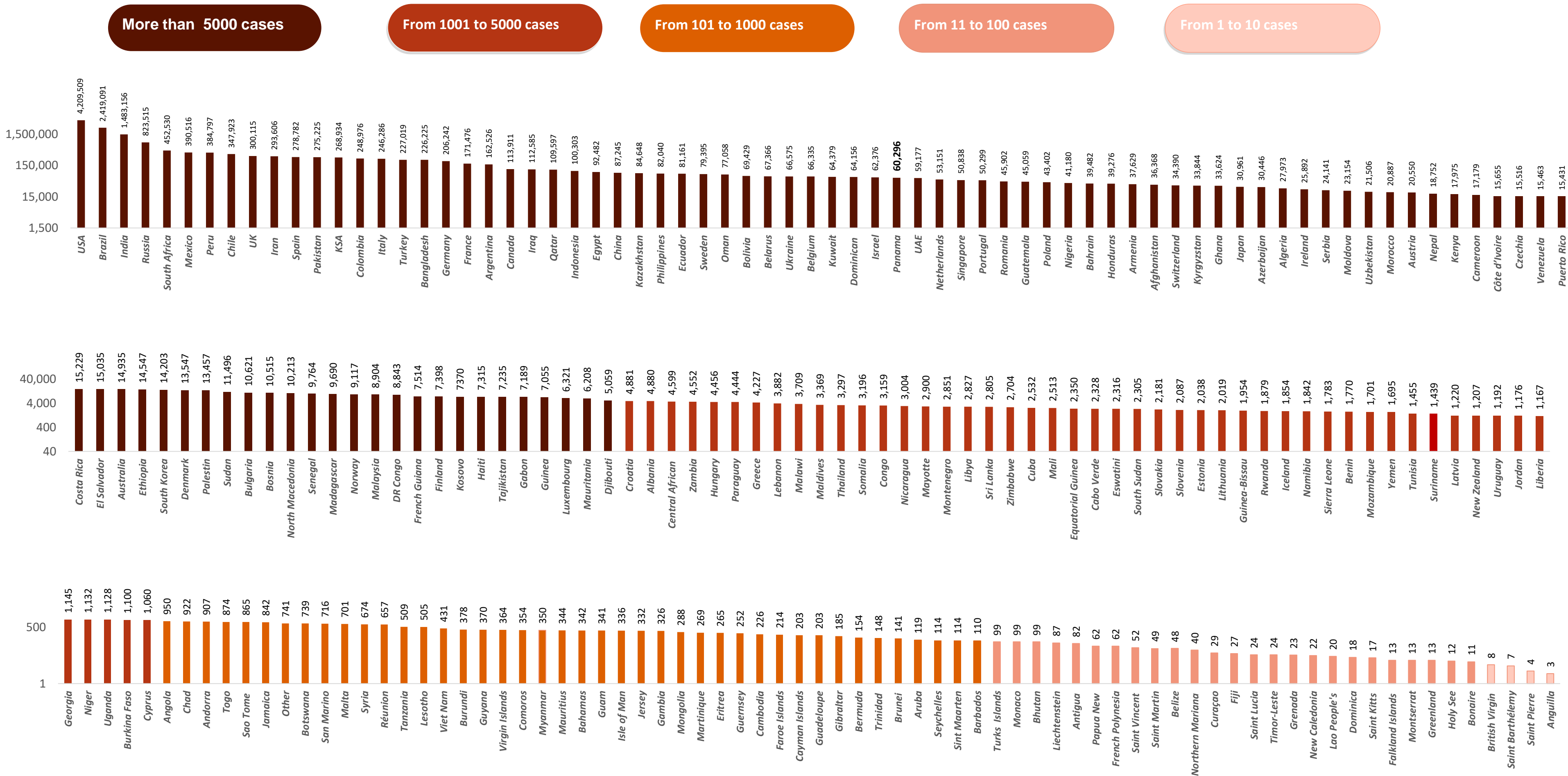
From 11 to 100 cases

From 1 to 10 cases

No confirmed cases

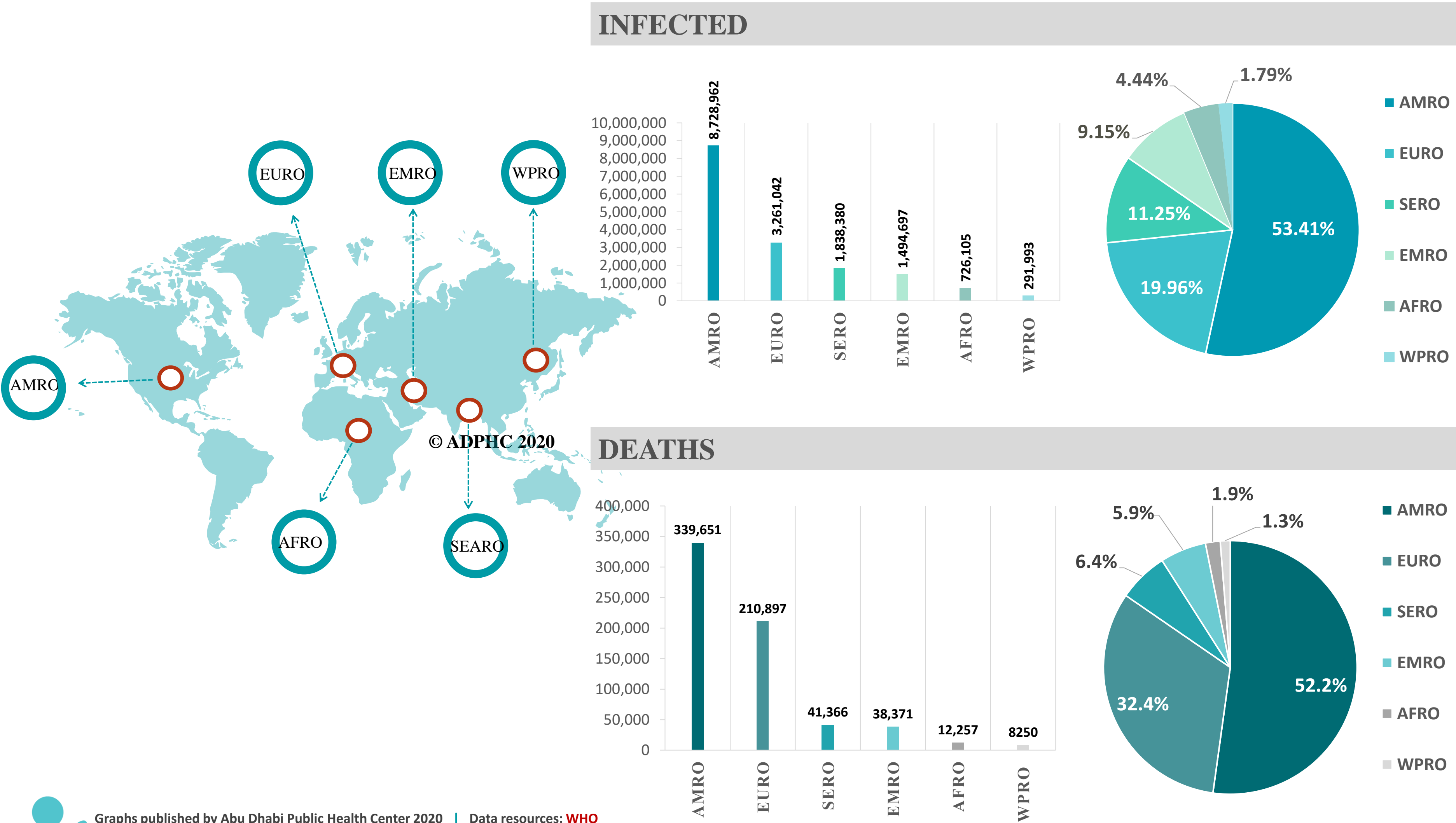


## Figure 7B: Bar Chart Illustrates the Global Distribution of COVID19 Cases



Other\*: includes cases and deaths reported under the international conveyance(Diamond Princess)

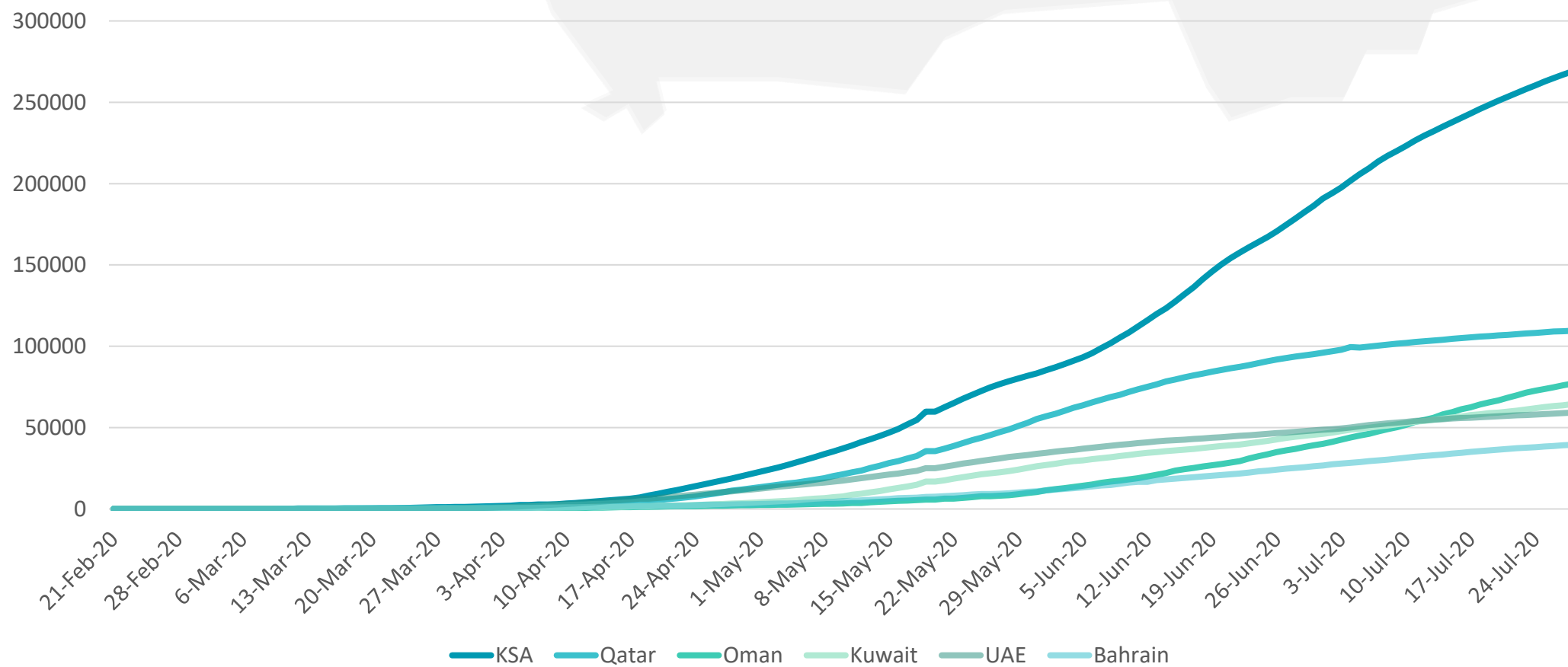
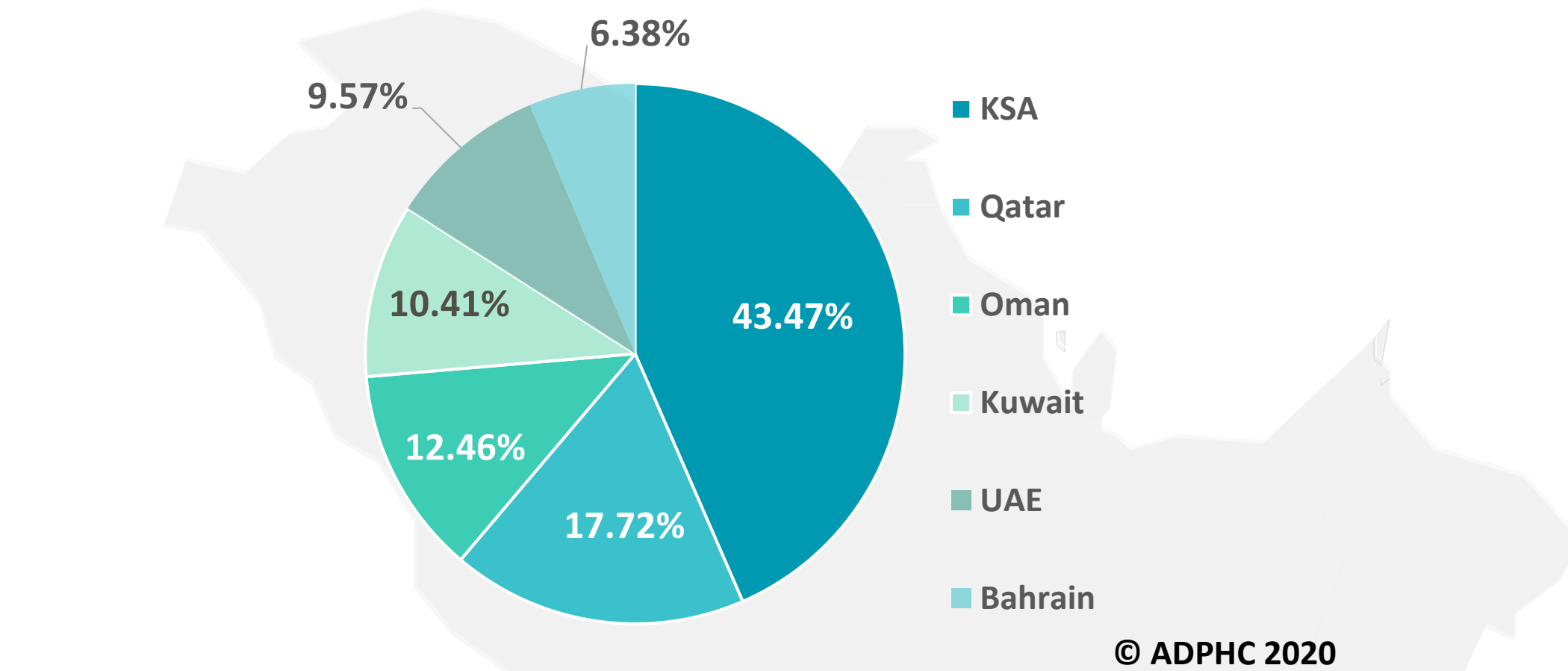
Figure 8: Global Distribution of COVID-19 Cases per Region



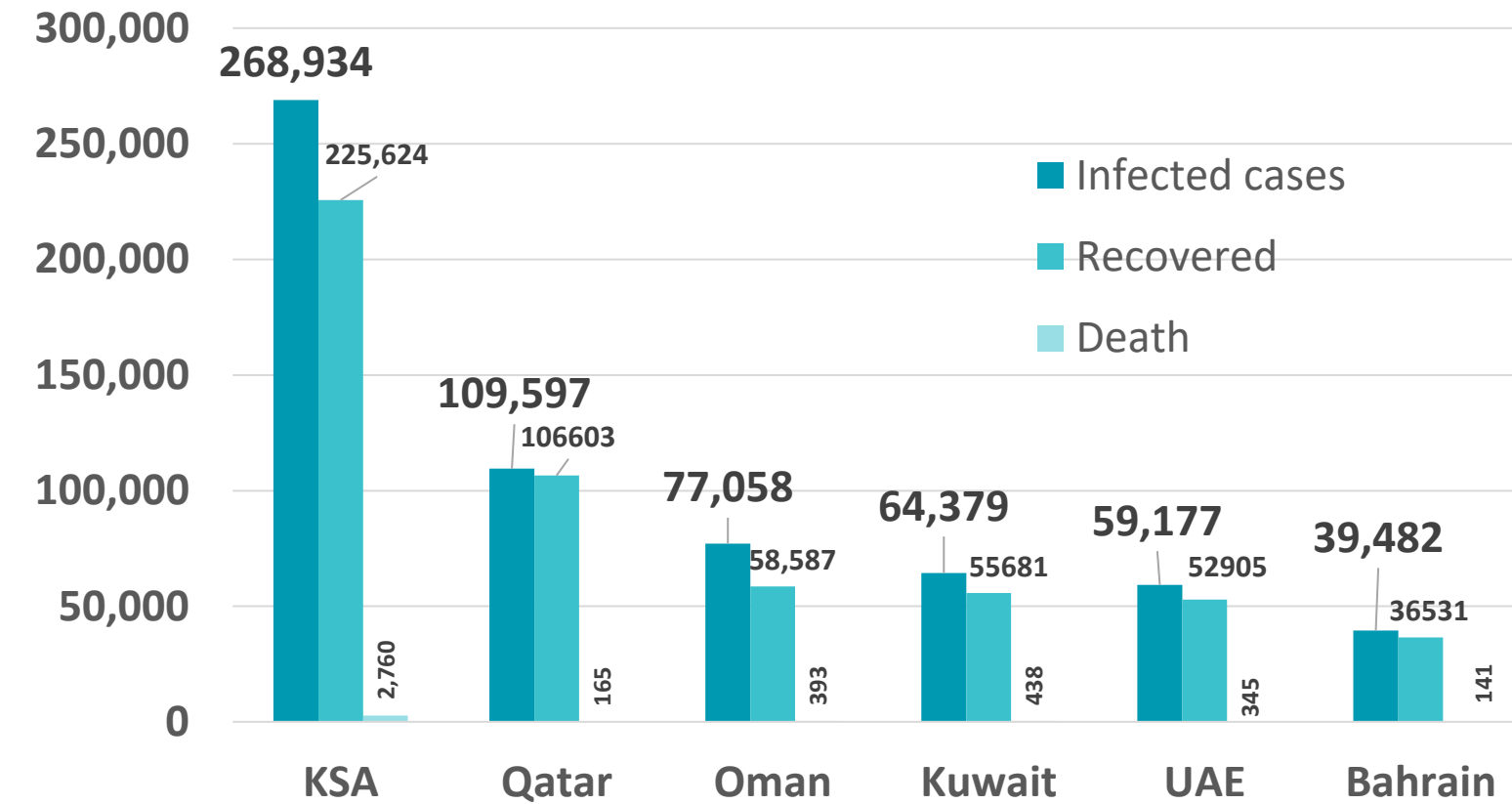
Graphs published by Abu Dhabi Public Health Center 2020 | Data resources: [WHO](#)

## Figure 9: Comparative Analysis of the Distribution of COVID-19 Cases in GCC Countries

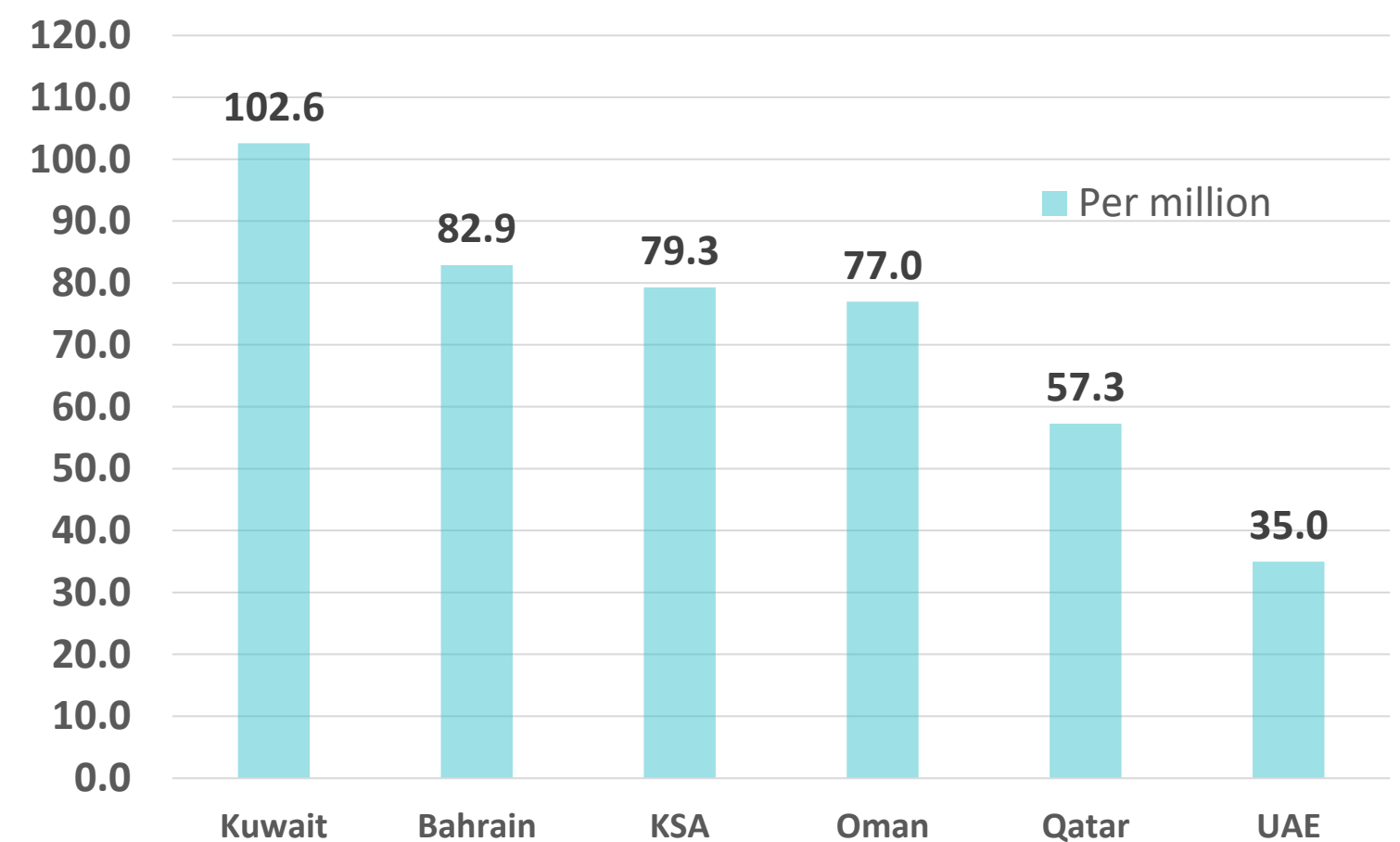
### TOTAL NUMBER OF INFECTED CASES



### TOTAL NUMBER OF INFECTED, RECOVERED AND DEATHS



### DEATHS PER MILLION



Graphs published by Abu Dhabi Public Health Center 2020 | Data resources: [WHO](#)

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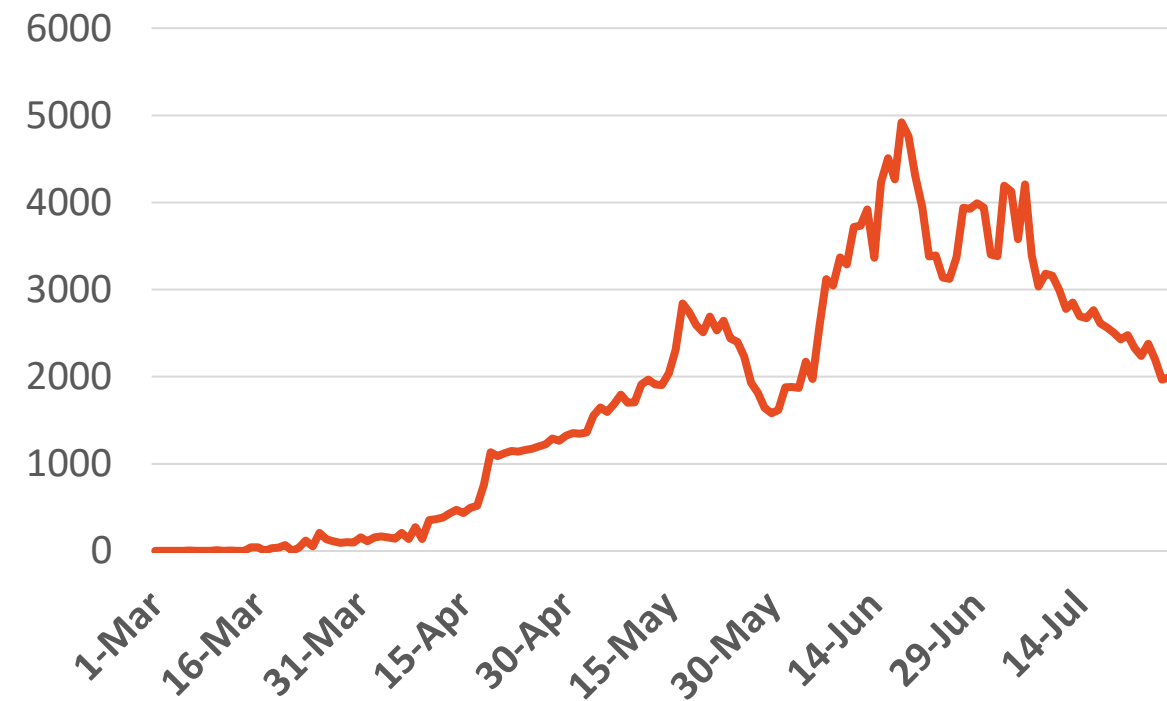
## Figure 10: Comparative Analysis of the Distribution of COVID-19 New Cases in GCC Countries

### UAE



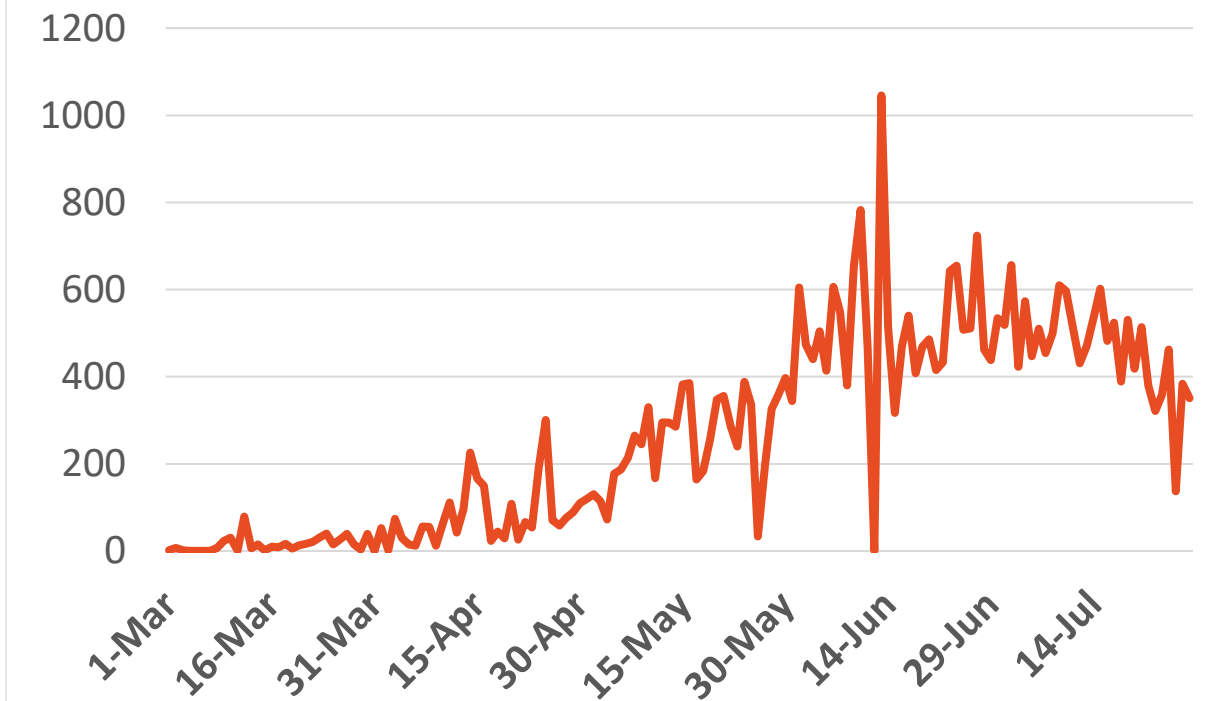
Source : National Emergency Crisis and Disaster Management Authority

### KSA



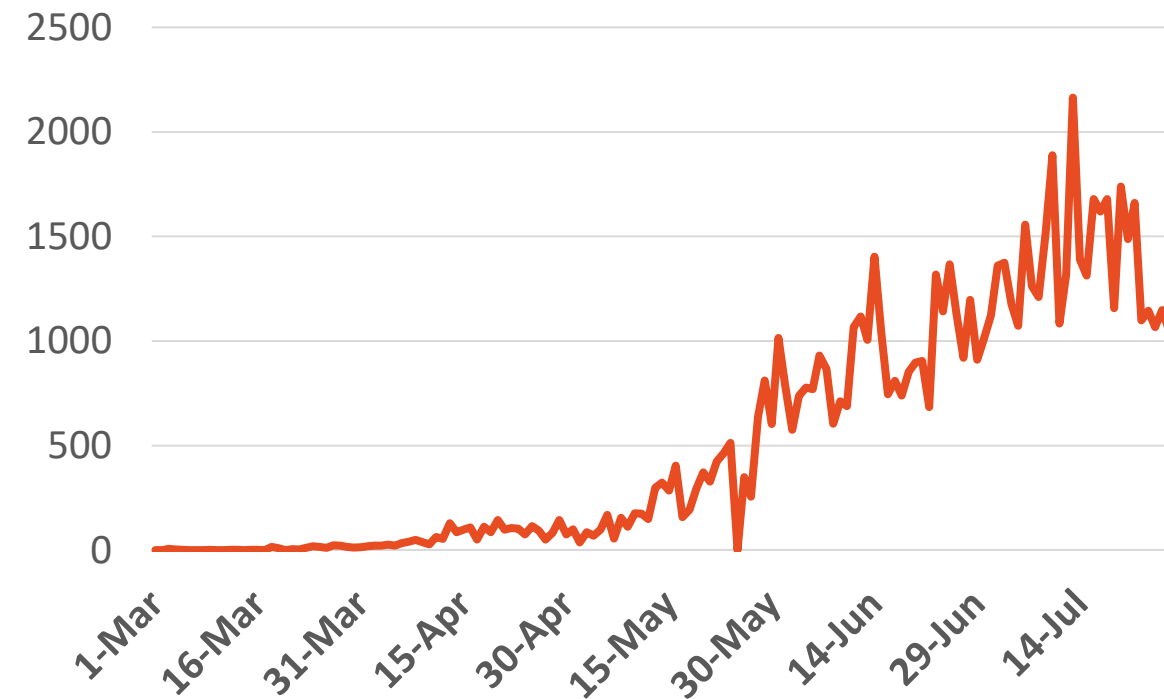
Source : KSA ministry of health

### Bahrain



Source :WHO

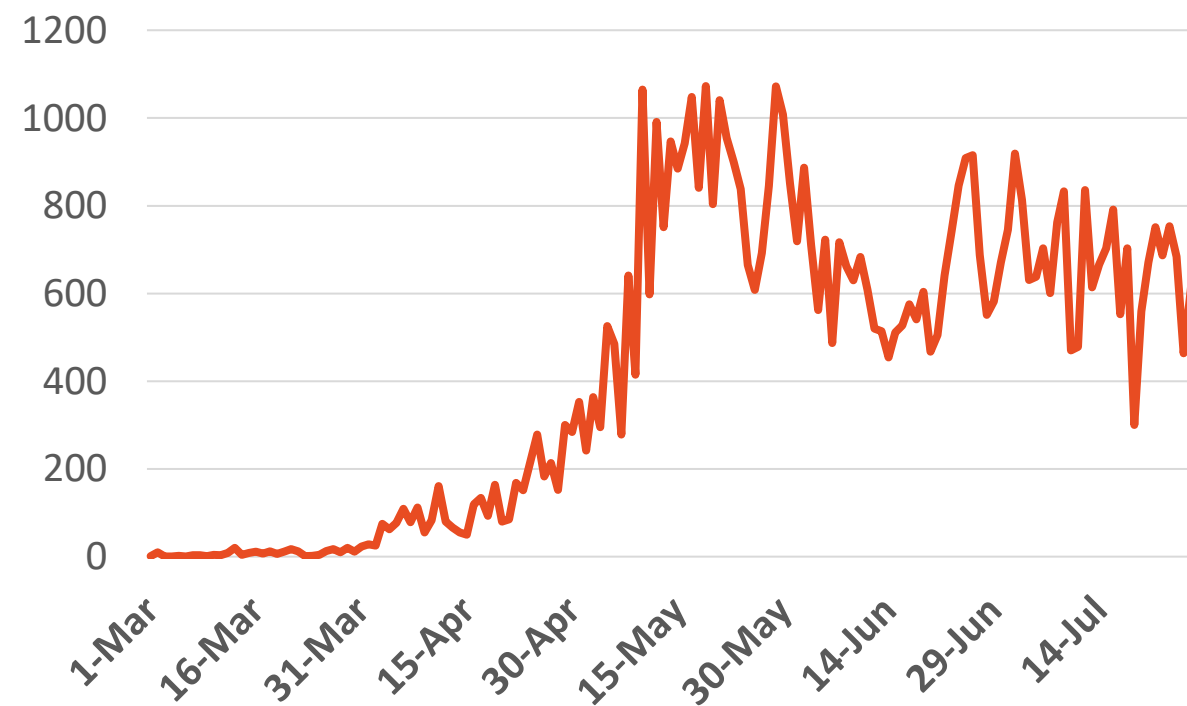
### Oman



Source :Oman ministry of health

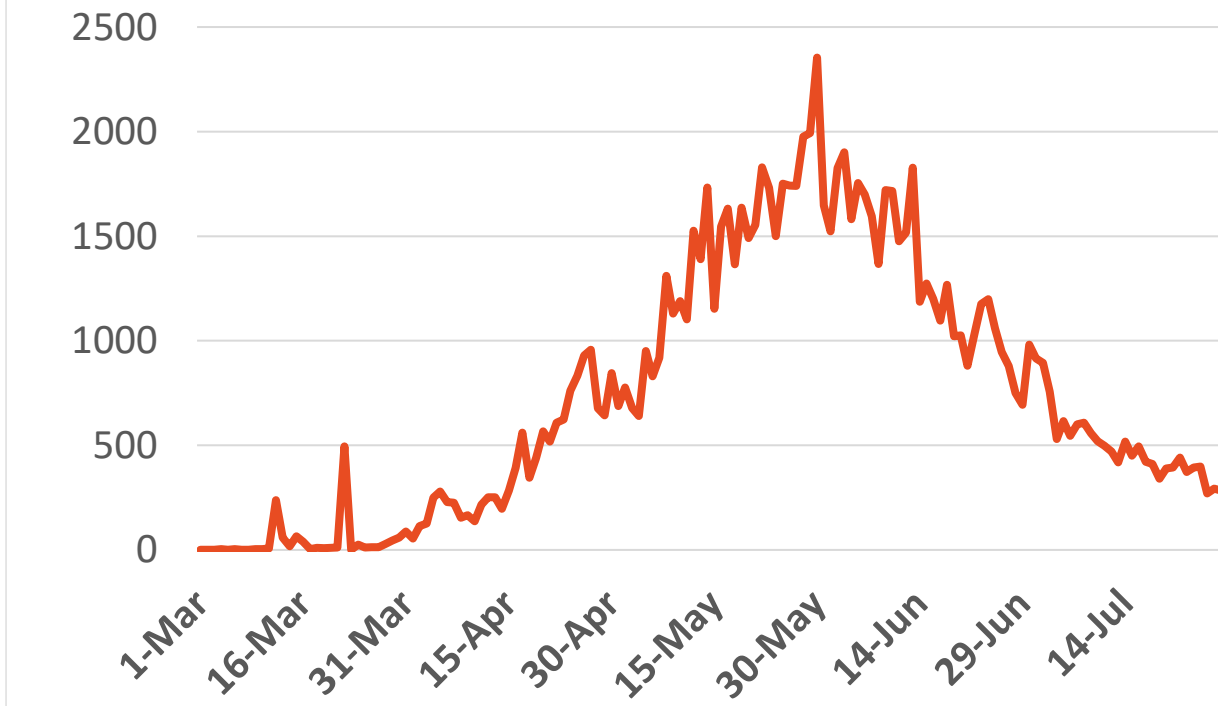
### Kuwait

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Source : Kuwait ministry of health

### Qatar



Source : Qatar ministry of health



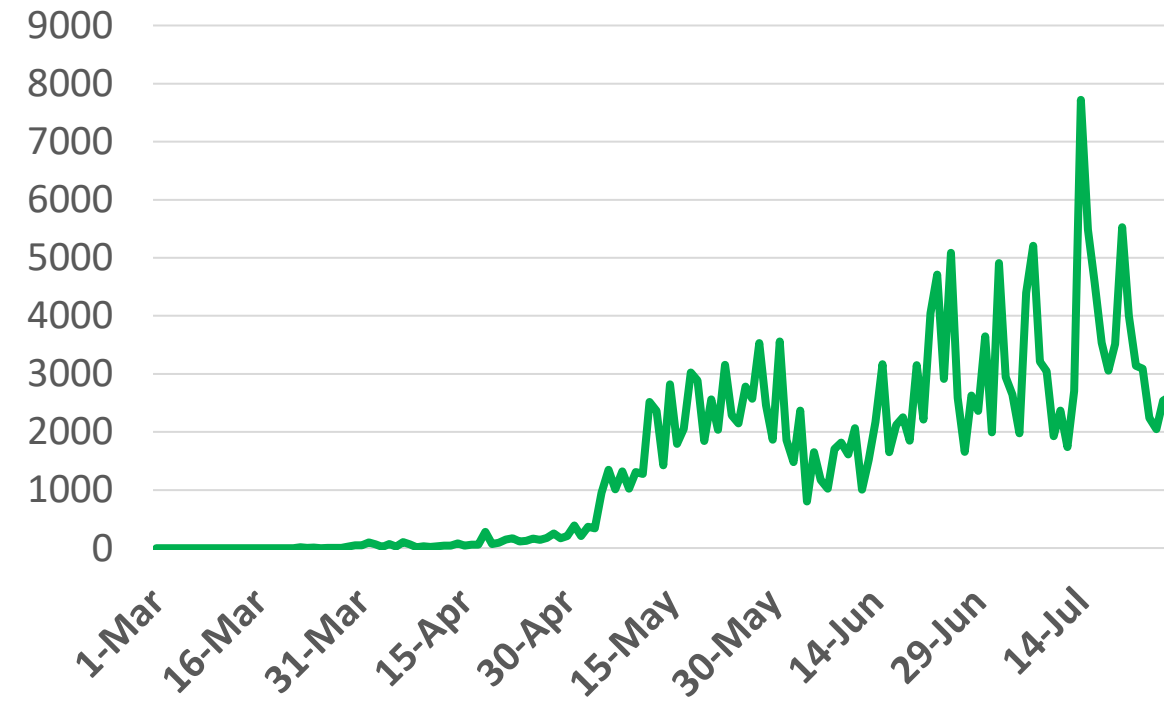
## Figure 11: Comparative Analysis of the Distribution of COVID-19 Newly Recovered Cases in GCC Countries

### UAE



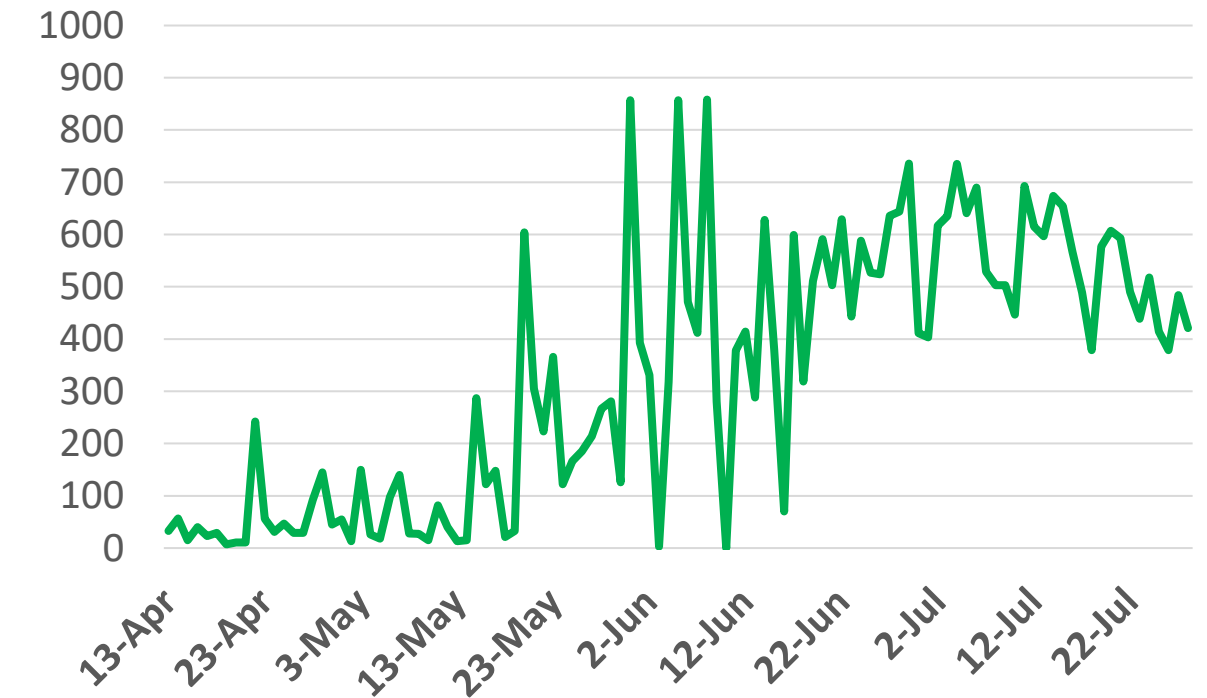
Source : National Emergency Crisis and Disaster Management Authority

### KSA



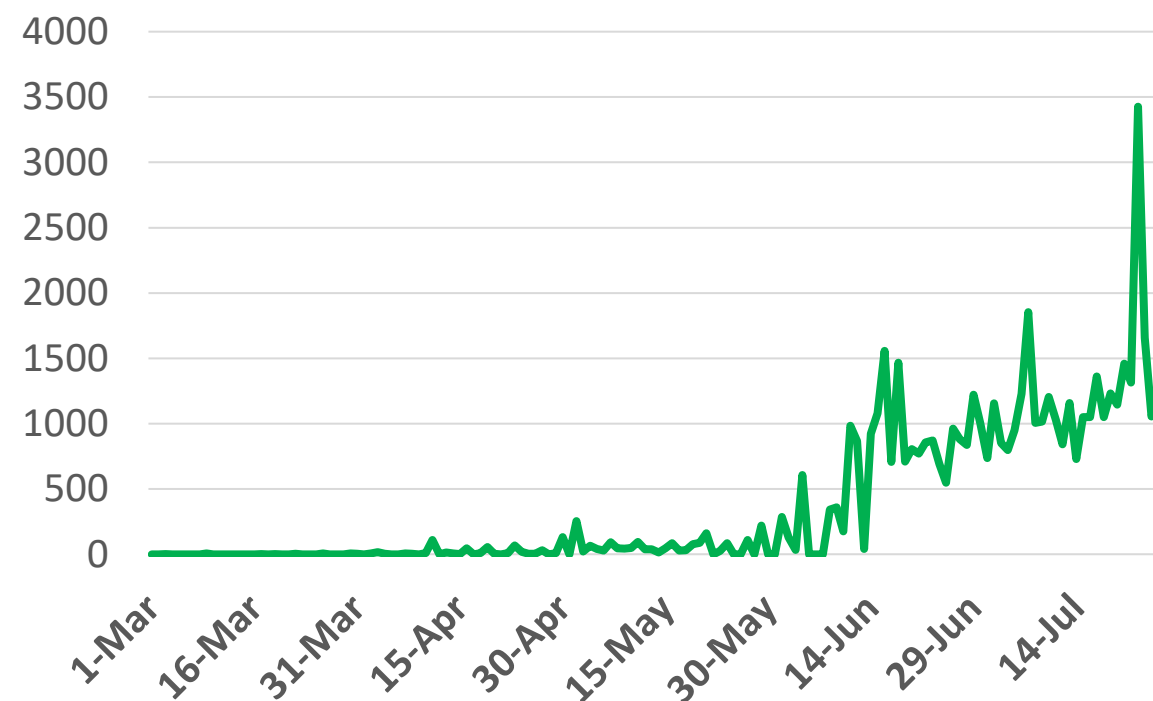
Source : KSA ministry of health

### Bahrain



Source : GCCStat

### Oman



Source : Oman ministry of health

### Kuwait

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Source : Kuwait ministry of health

### Qatar

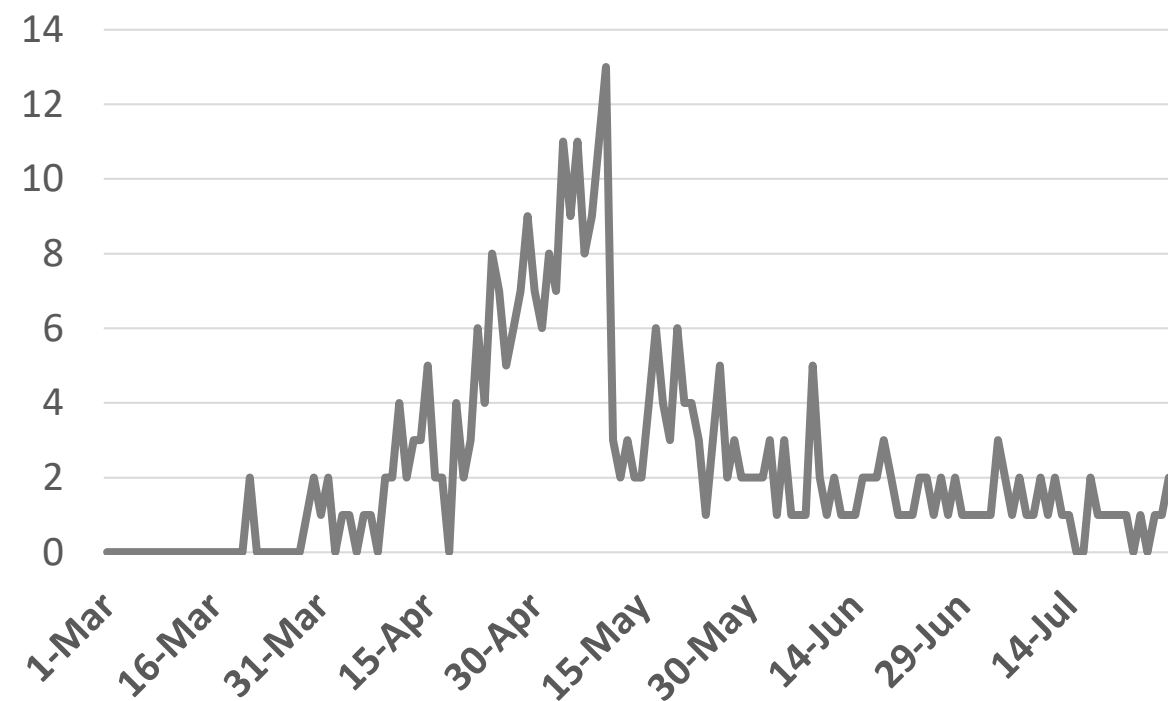


Source : Qatar ministry of health



## Figure 12: Comparative Analysis of the Distribution of COVID-19 New Death Cases in GCC Countries

### UAE



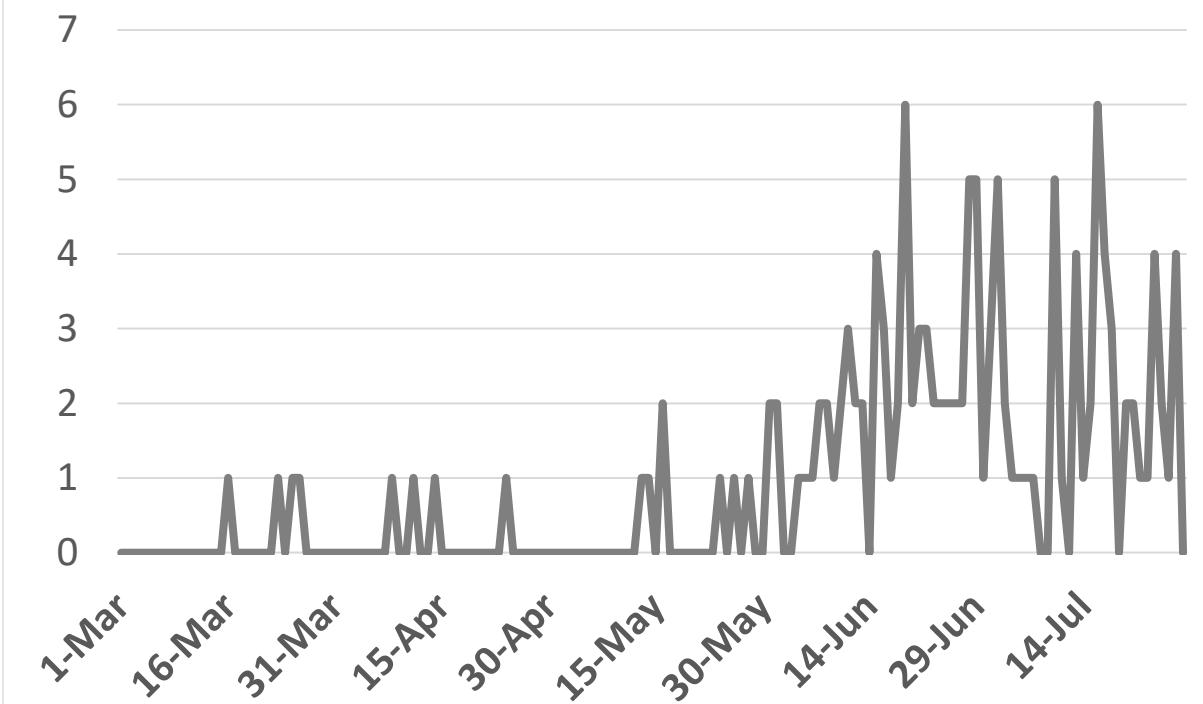
Source : National Emergency Crisis and Disaster Management Authority

### KSA



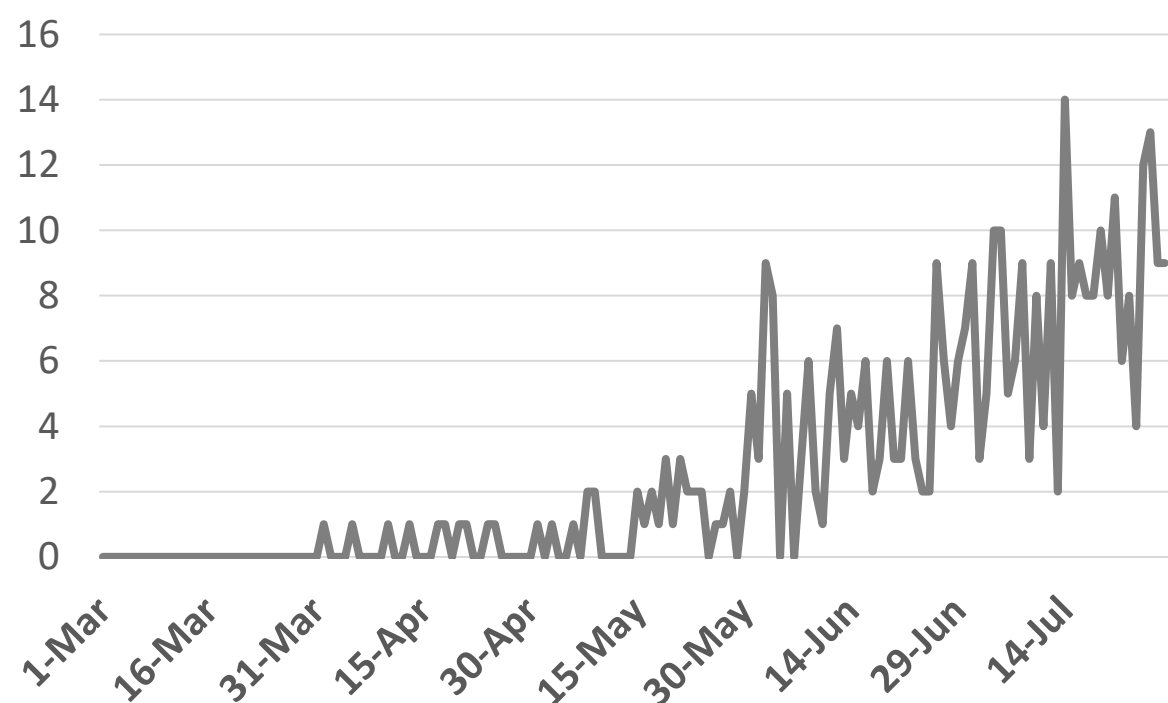
Source : KSA ministry of health

### Bahrain



Source :WHO

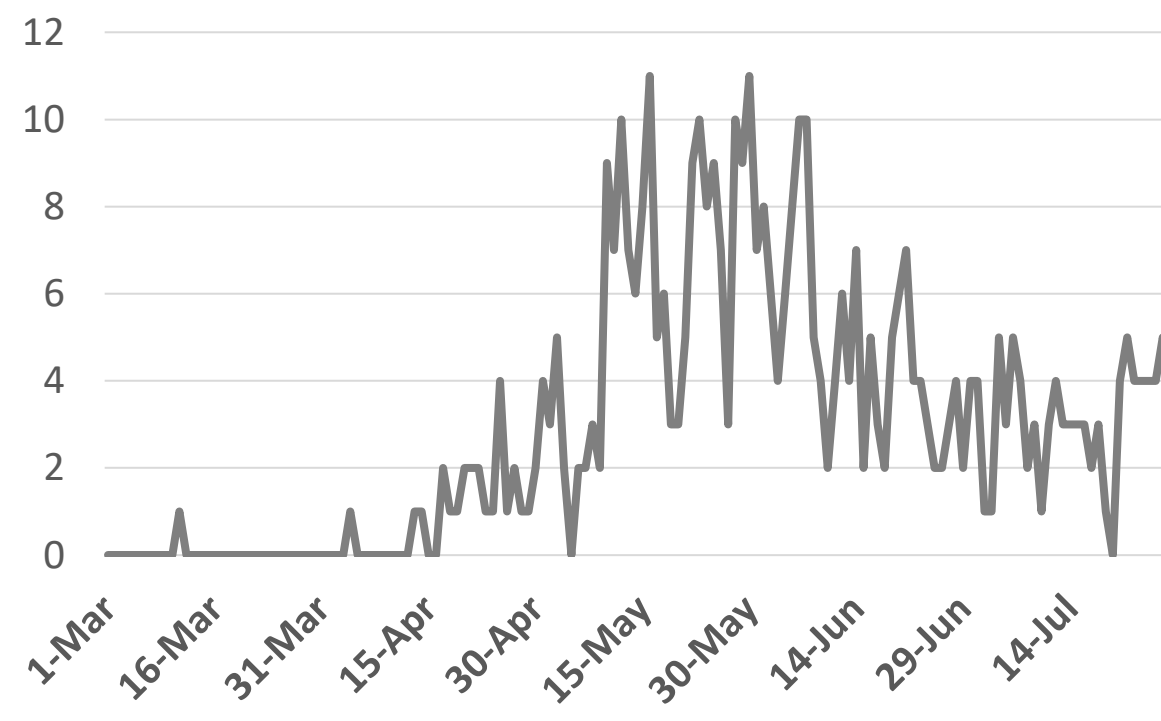
### Oman



Source :Oman ministry of health

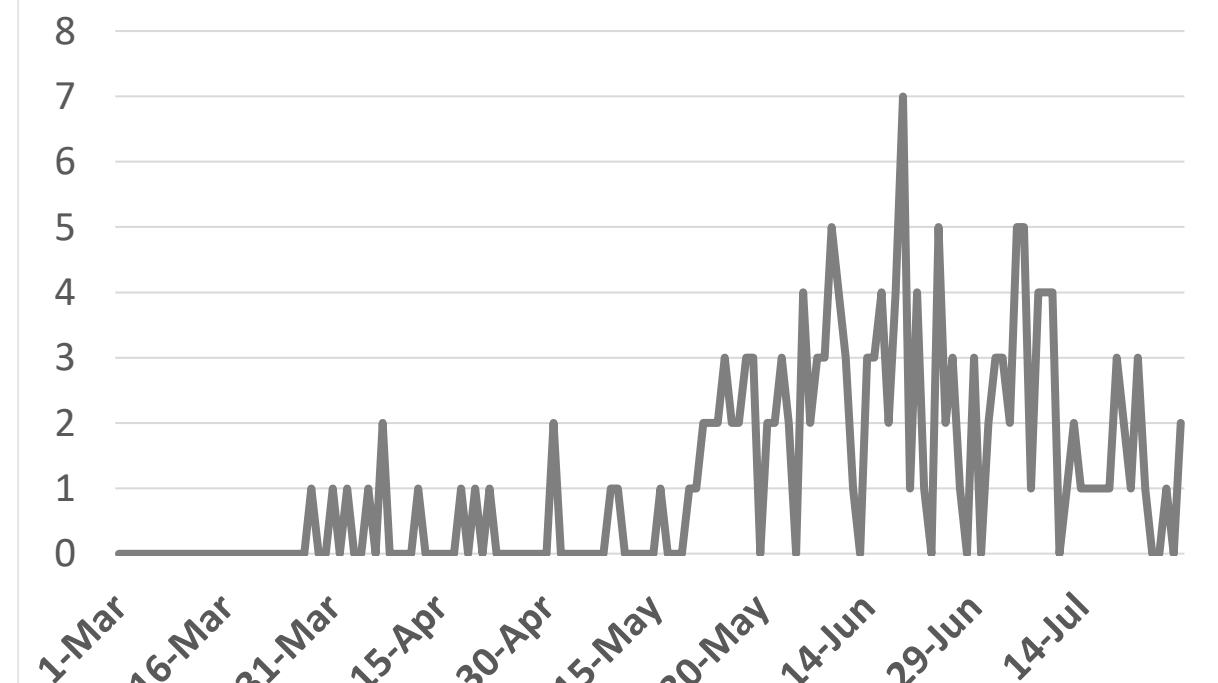
### Kuwait

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Source : Kuwait ministry of health

### Qatar



Source : Qatar ministry of health



## Article 1

# Early Policy Actions and Emergency Response to the COVID-19 Pandemic in Mongolia: Experiences and Challenges

Published

23 July 2020 [THE LANCET](#)

This study examined in detail the Mongolian experience on early prevention strategies, the effectiveness of the pre-emptive control measures in light of the global experience, and the challenges faced. Various public health measures were taken by the Government of Mongolia that led to delaying the first confirmed case of COVID-19 until March 10, 2020.

These measures included:

- Promoting universal personal protection and preventions, such as the use of face masks and handwashing
- Restricting international travel
- Suspending all training and educational activities from kindergartens to universities
- Banning major public gatherings such as the celebration of the national New Year holiday
- Active infection surveillance and self-isolation recommendations

The Mongolian case shows that with robust preventive systems, an effective response to a pandemic can be mounted in a low-income or middle-income country.





## Article 2

## Strategy and Planning-WHO

Published

23 July 2020 [WHO](#)

- This strategic preparedness and response plan outlines the public health measures that the international community stands ready to offer to support all countries to prepare for and respond to COVID-19.
- The document includes what we have learned so far about the virus and translates that knowledge into strategic action that can guide the efforts of all national and international partners when developing context-specific national and regional operational plans.
- The plan aims to accelerate research and development, improve country preparedness and response and coordinate across regions to assess, respond and mitigate risks.





## Article 3

# Impact of COVID-19 Second Wave on Healthcare Workers Staffing Levels

Published

22 July 2020 [Cambridge Corona Virus Collection](#)

- A survey of 167 Healthcare workers at St Mary's Hospital (UK) was conducted. 44% reported that they had symptoms in keeping with COVID-19 and self-isolated at some point over the last 4 months.
- Of those who received a RT-PCR testing while symptomatic, 54% were positive. 18% of responders reported self-isolating while asymptomatic due to a symptomatic member of their household. 48% of staff reported living with at least one other HCW. Therefore, a positive swab in a singular household on average affected 2 health care workers in the group surveyed.
- As of June 2020, Imperial College Healthcare Trust reported that 25% of staff tested had positive IgG to COVID-19, with other trusts reporting similar rates. NHS England advises that staff should continue following PHE isolation guidance even if they have a positive antibody test. This means, for the foreseeable future, individuals who have already been infected and have a positive antibody test, will need to isolate if a member of their household becomes symptomatic. Thus, the study warrants a clear strategy which is needed to maintain safe staffing levels in a second wave that has the potential to be more complex than the first.







## Article 4

## Draft Landscape of COVID-19 Candidate Vaccines

Published

27 July 2020 [WHO](#)

- landscape documents have been developed by the World Health Organization (WHO) for information purposes only concerning the 2019-2020 global novel coronavirus. The document includes 25 candidate vaccines that are currently in clinical evaluation.
- Inclusion of any specific product or entity in any of these landscape documents does not constitute and will not be deemed or construed as approval or endorsement by WHO of such product or entity (or any of its businesses or activities).





# THANK YOU

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