

# SCIENTIFIC RESEARCH MONITORING ON COVID-19

**25 JULY 2020**

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# SCIENTIFIC RESEARCH MONITORING ON COVID-19

## (ISSUE 175)

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.

For further inquiries you may communicate with us as [PHP@adphc.gov.ae](mailto:PHP@adphc.gov.ae)

# RESEARCH UPDATES

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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).

## Diagnosis

Comparison of Unsupervised Home Self-Collected Midnasal Swabs With Clinician-Collected Nasopharyngeal Swabs for Detection of SARS-CoV-2 Infection

## Public Health Response

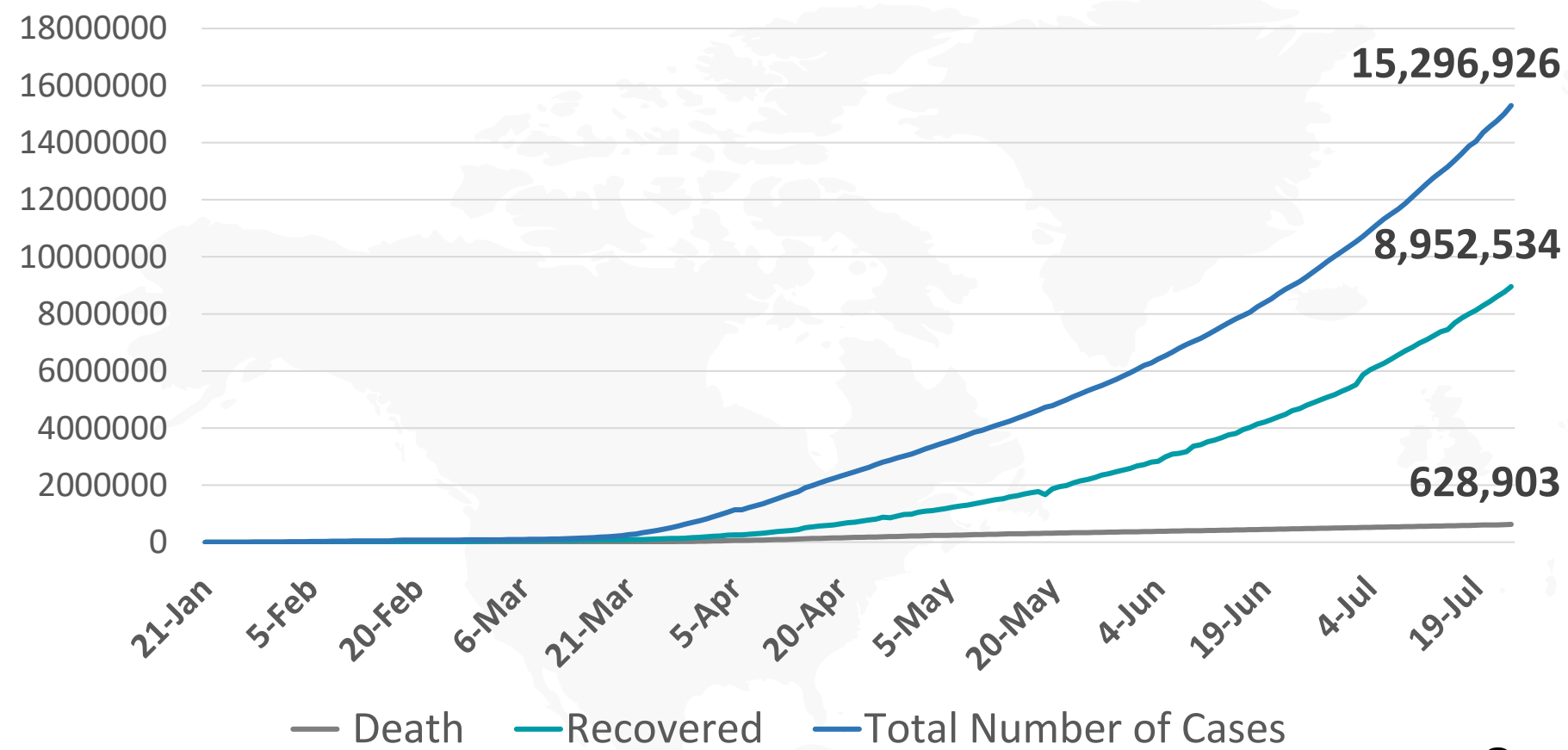
Communicating with Children about COVID-19



- Dr Tedros, in his media briefing, reminded people not to let their guard down ‘**we will not be going back to the “old normal”. The pandemic has already changed the way we live our lives. Part of adjusting to the “new normal” is finding ways to live our lives safely.**’
- As the possibility of a protracted pandemic becomes increasingly likely; countries are encouraged to conduct periodic reviews of their national and subnational COVID-19 response, ensuring that they do not miss critical opportunities for learning and improvement to better respond to the COVID-19 outbreak. [WHO has produced guidance to assist in this exercise.](#)
- At the annual High-level Political Forum on Sustainable Development held between 7–16 July 2020 all countries expressed their support for the SDGs and discussed response measures to help mitigate the negative effects of COVID-19.
- For Somalis, COVID-19 is the most immediate crisis in a seemingly unending cycle of floods, food insecurity, conflict and outbreaks of vaccine-preventable diseases like measles, cholera and polio. Against this backdrop, WHO’s polio programme is working to steer the COVID-19 response and, more broadly, maintain vaccine immunity levels and improve access to health care.

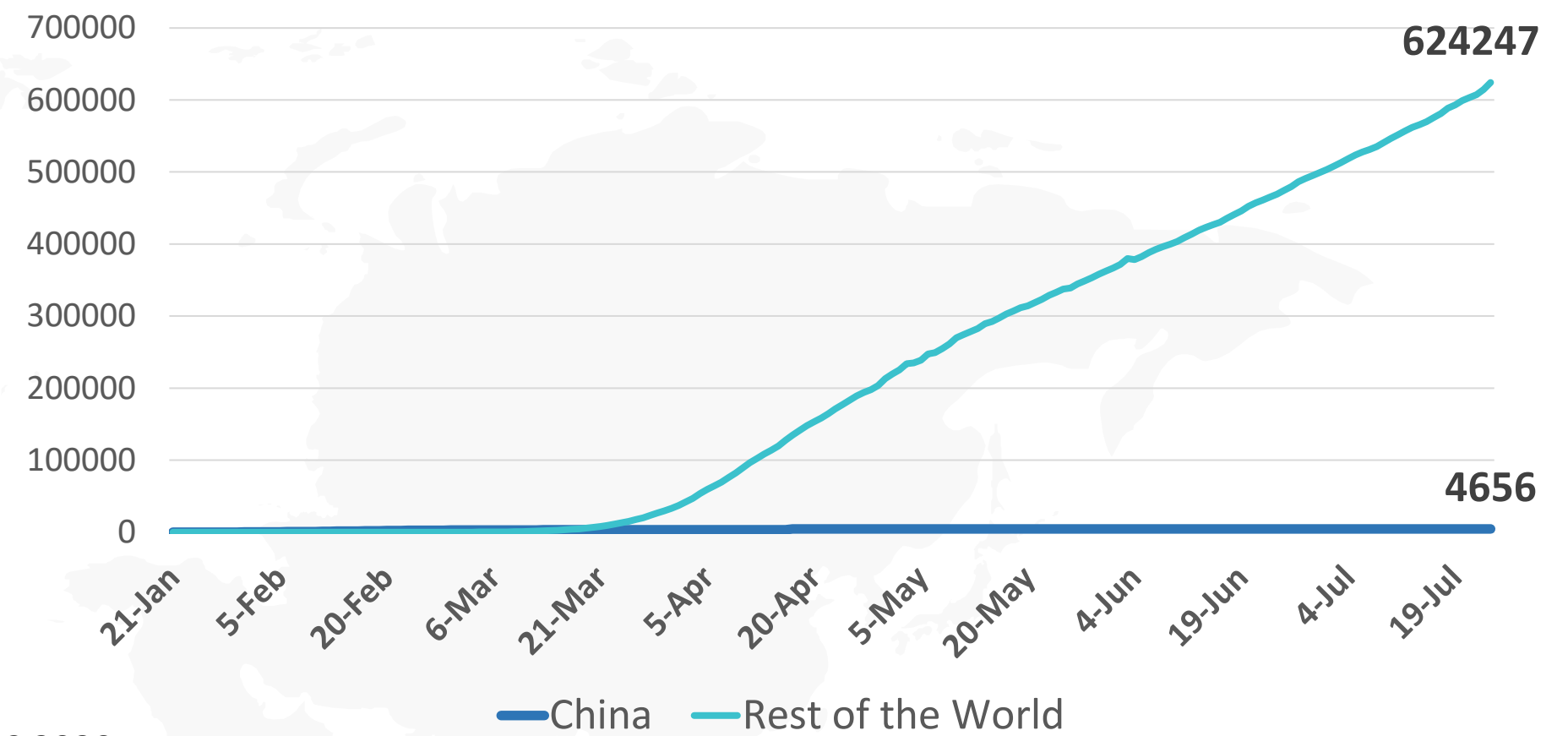


**Figure 1: Total Number of Infected, Recovered, and Death Cases**



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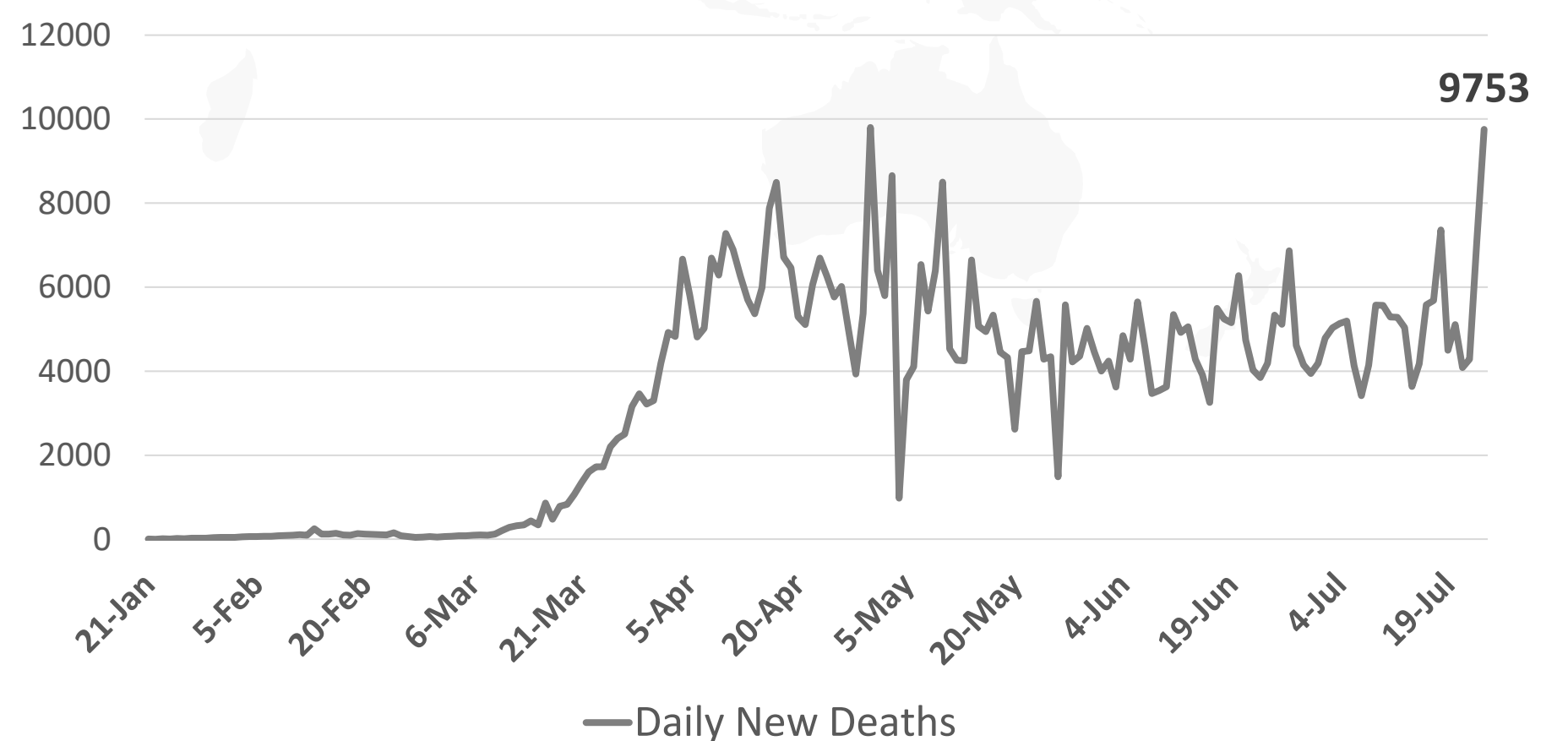
**Figure 3: Total Number of Deaths Due to COVID-19 (China and rest of the world)**



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

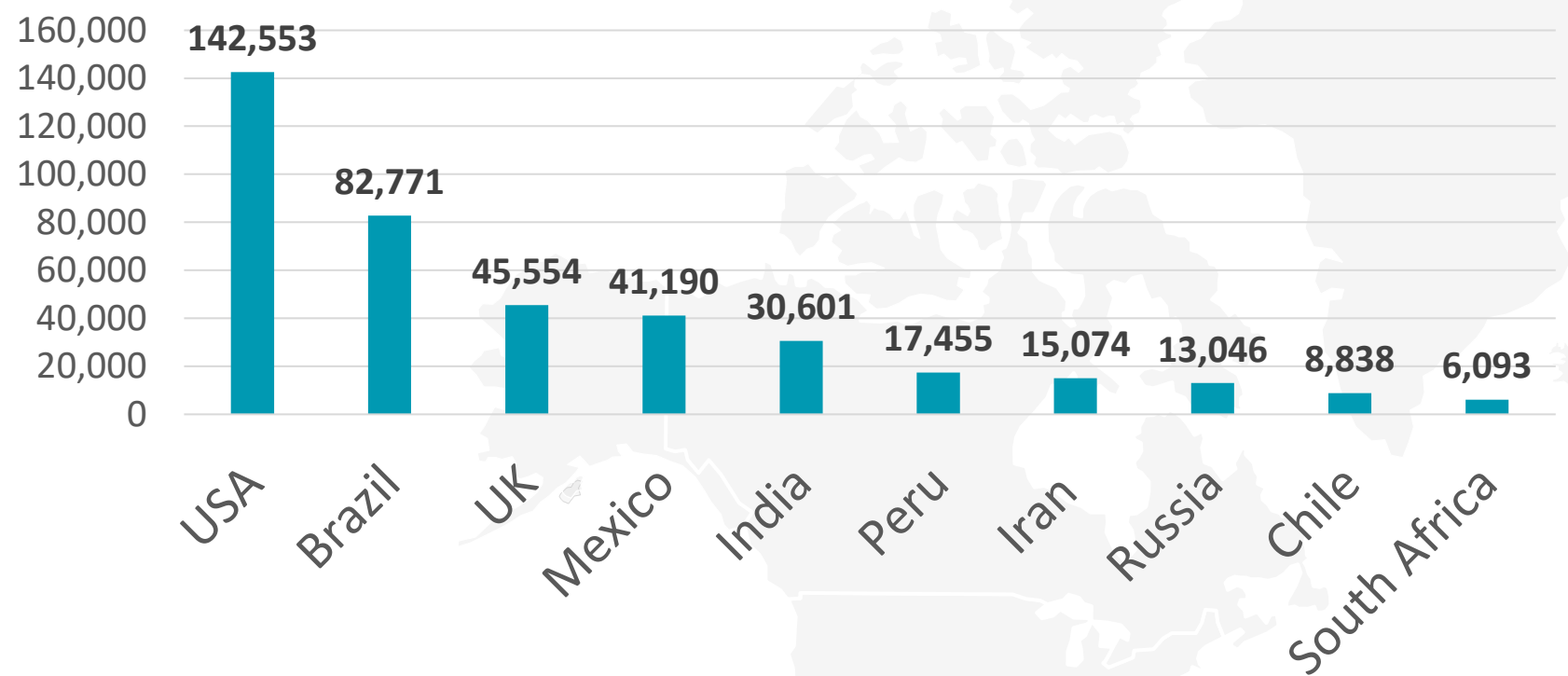


**Figure 4: Global Daily New Deaths Due to COVID-19 (China and rest of the world)**

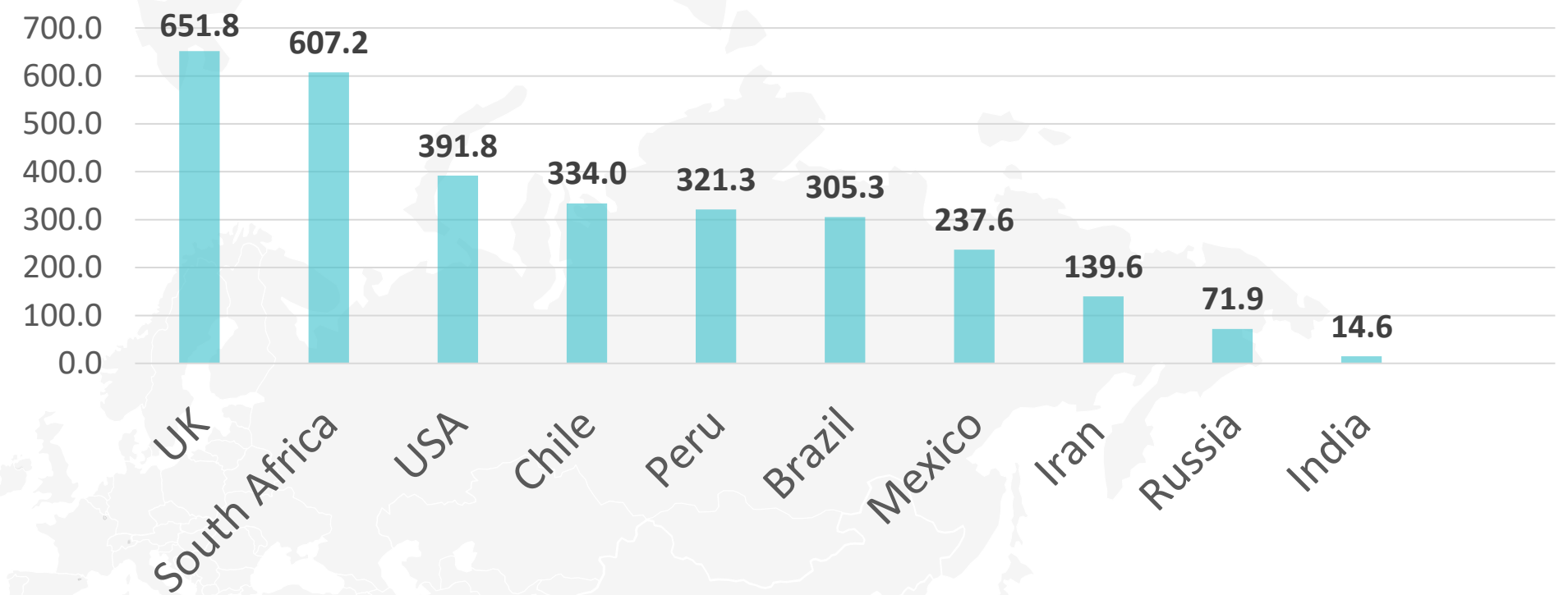


## Figure 3: Top 10 Countries in the Total Number of Cases Due to COVID-19

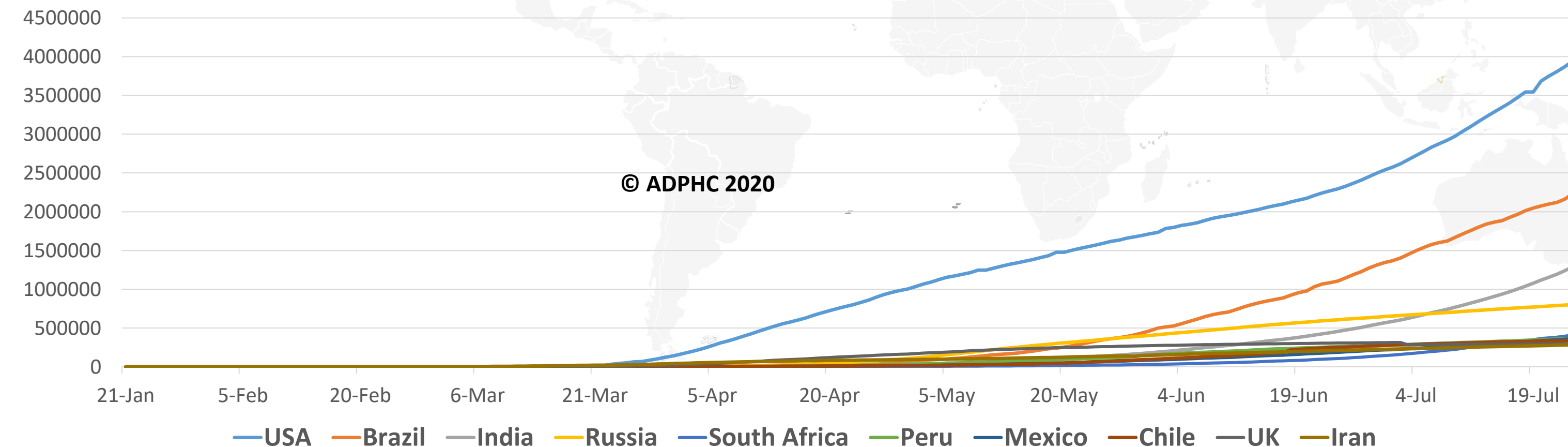
### TOTAL DEATHS



### DEATHS PER MILLION

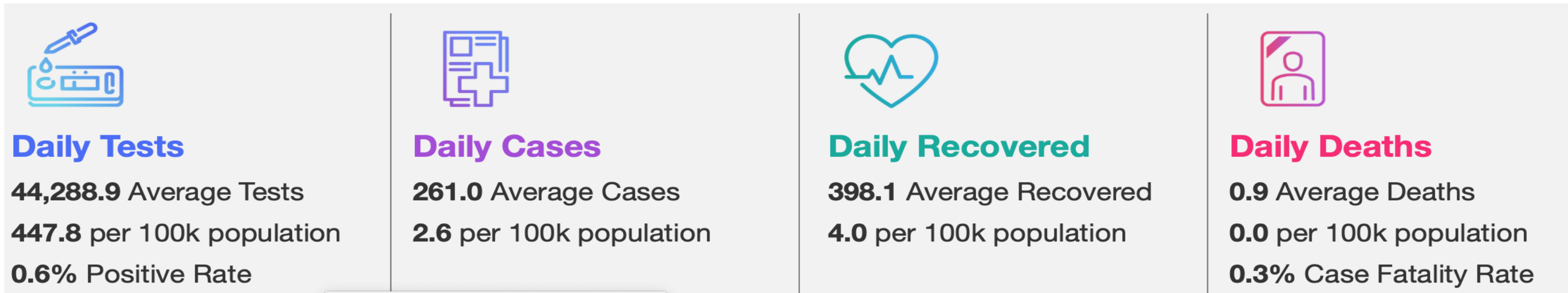


### TOTAL INFECTED CASES

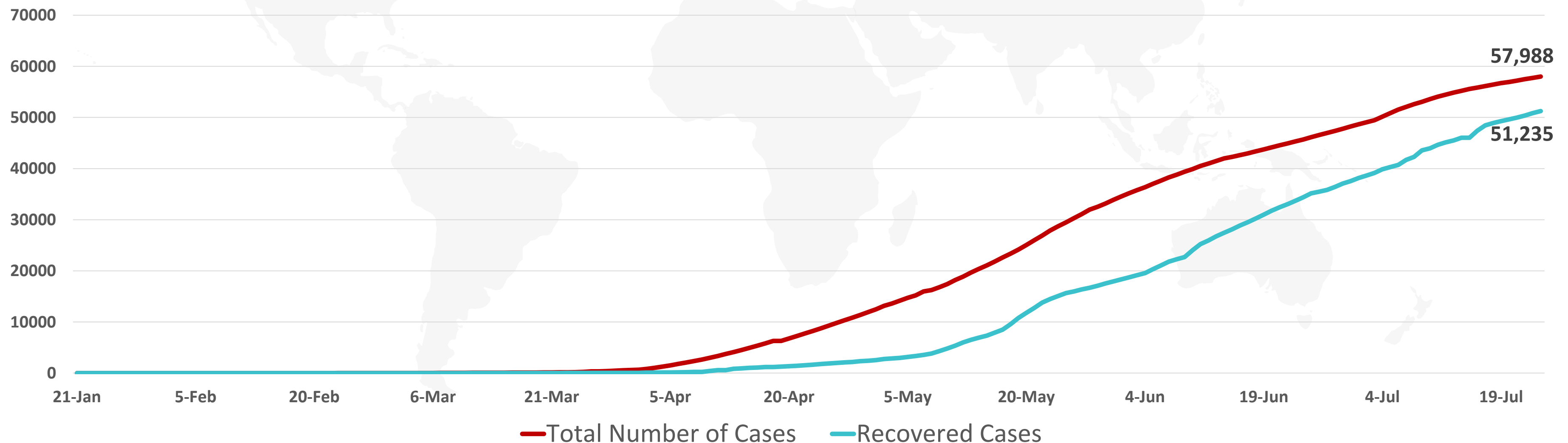


USA	3,868,453
Brazil	2,159,654
India	1,248,635
Russia	795,038
South Africa	394,948
Peru	362,087
Mexico	356,255
Chile	336,402
UK	296,381
Iran	281,413

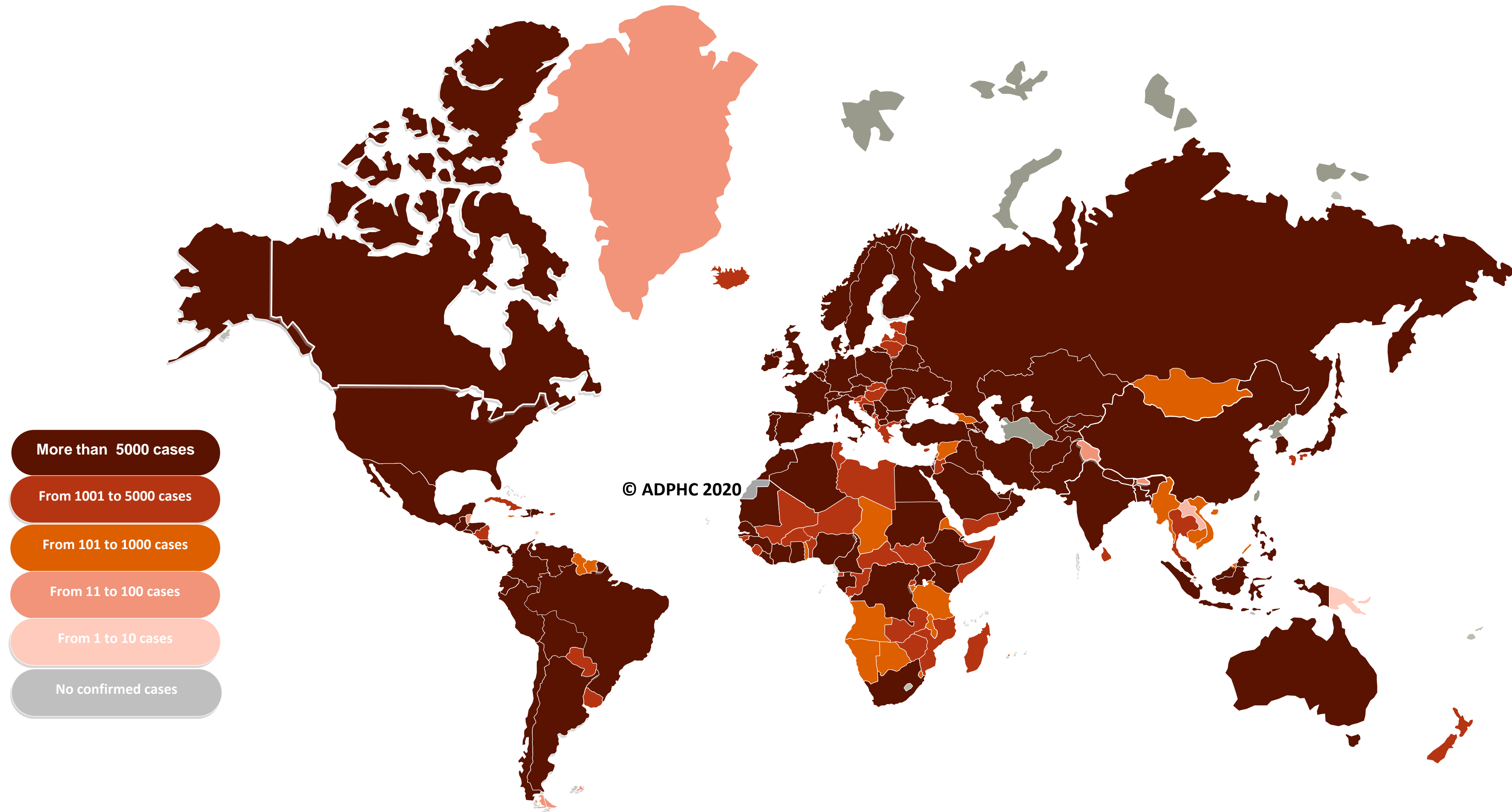
**Figure 5: COVID-19 Status in the UAE** (Federal Competitiveness and Statistics Authority dashboard)



## 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

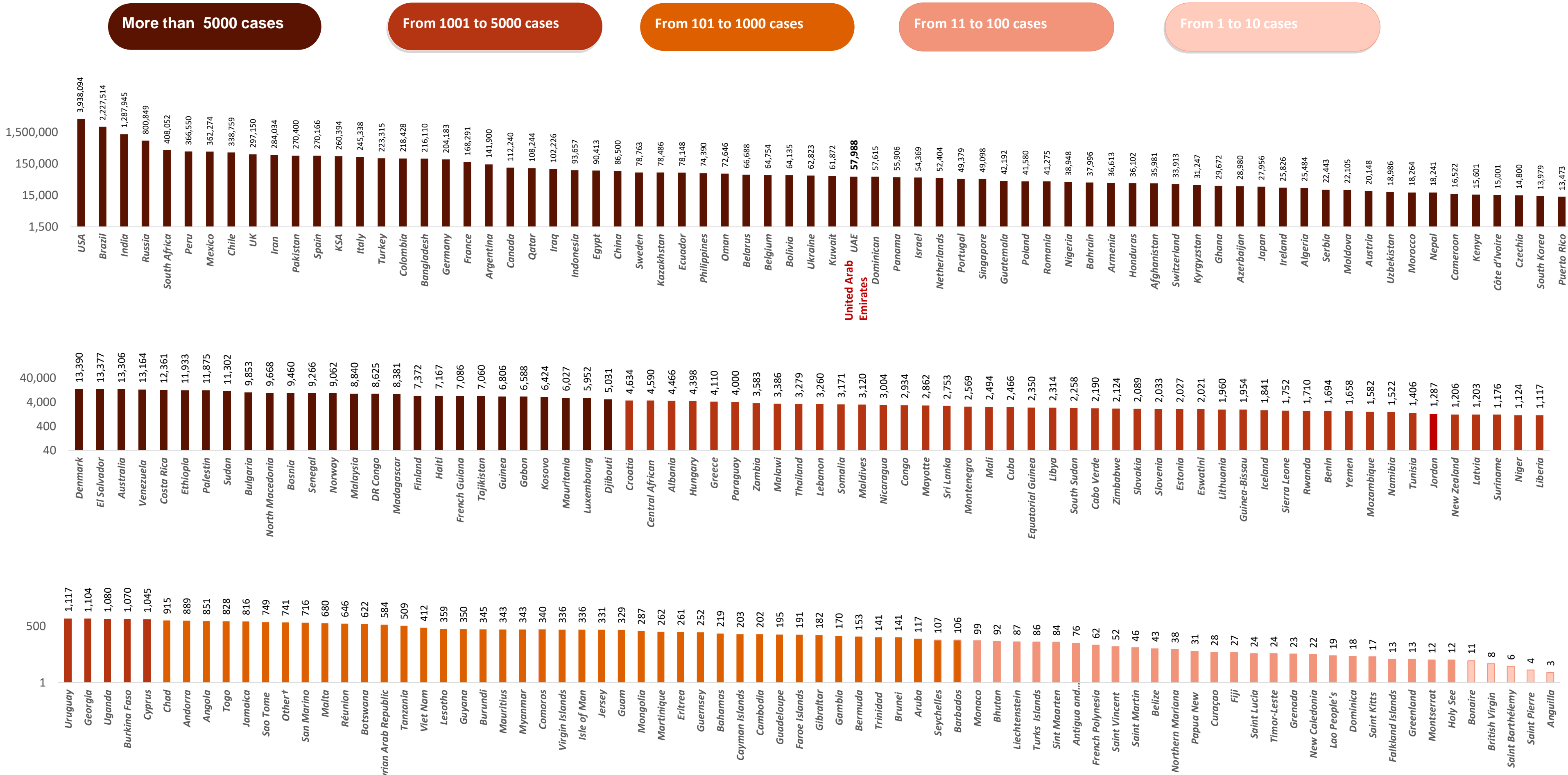
From 11 to 100 cases

From 1 to 10 cases

No confirmed cases



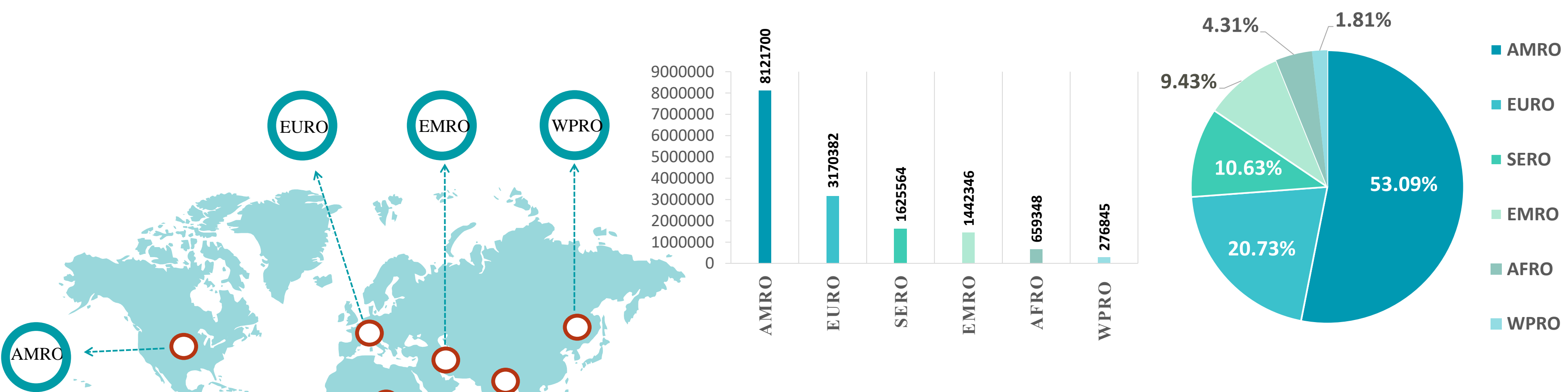
## Figure 7B: Bar Chart Illustrates the Global Distribution of COVID-19 Cases



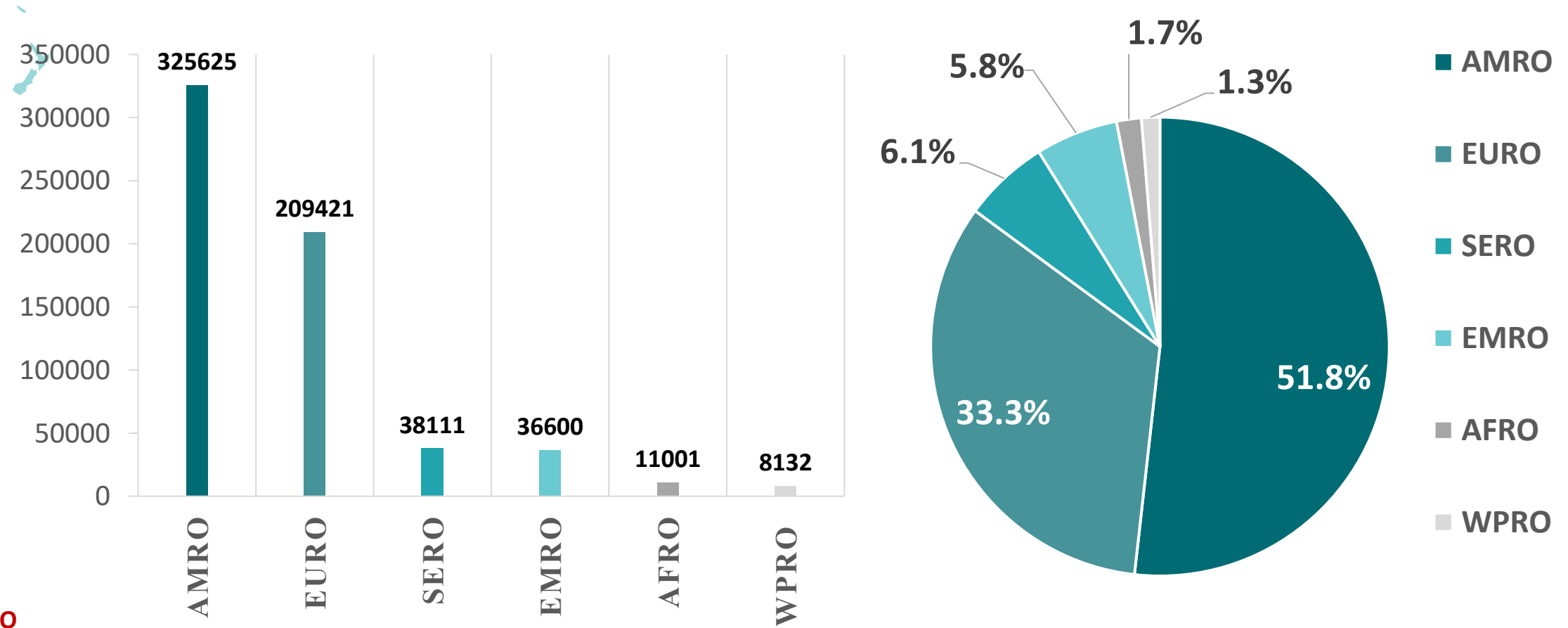
Other\*: includes cases and deaths reported under the international conveyance (Diamond Princess)

## Figure 8: The Global Distribution of COVID-19 Cases Per Region

### INFECTED

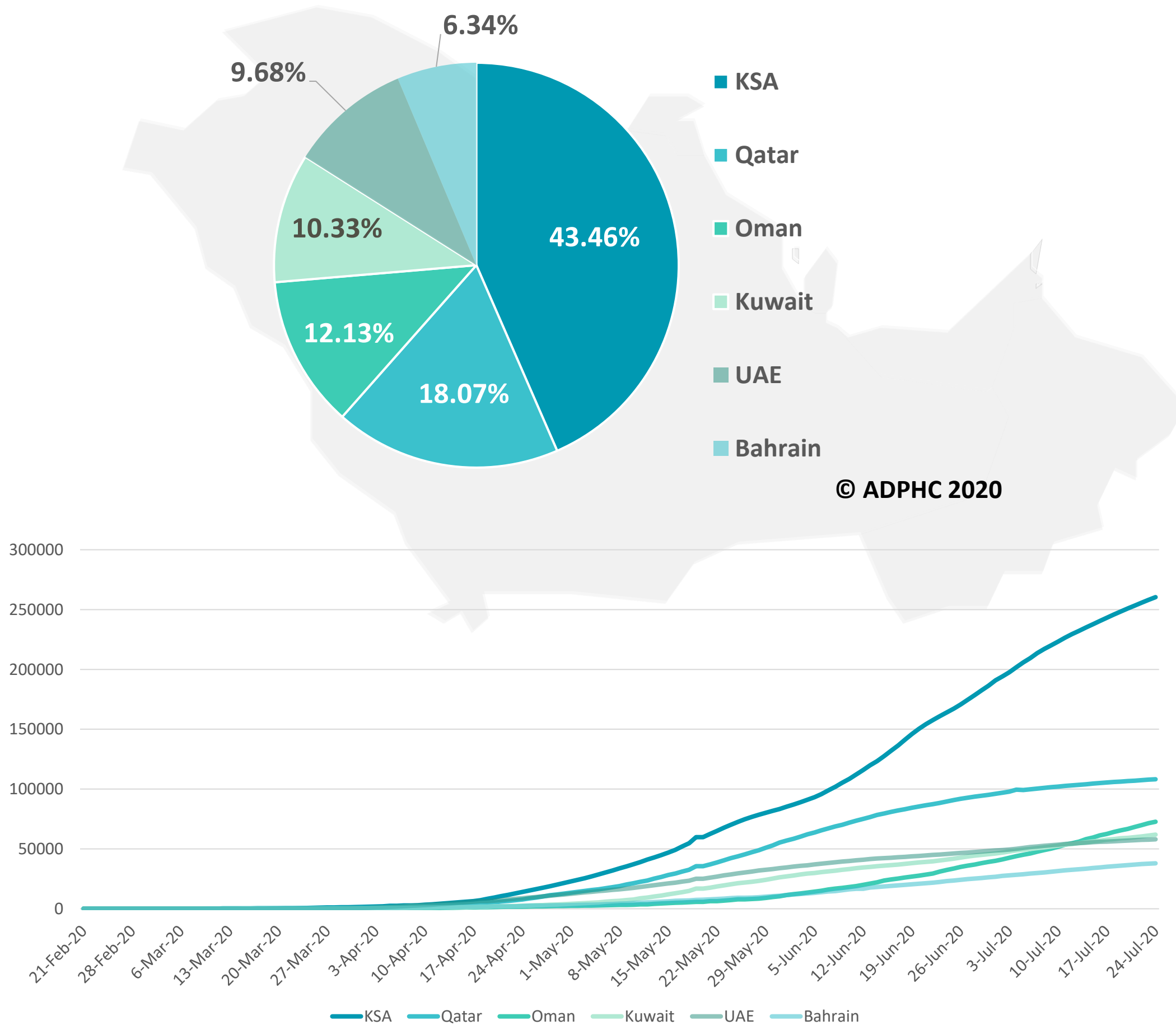


### DEATHS

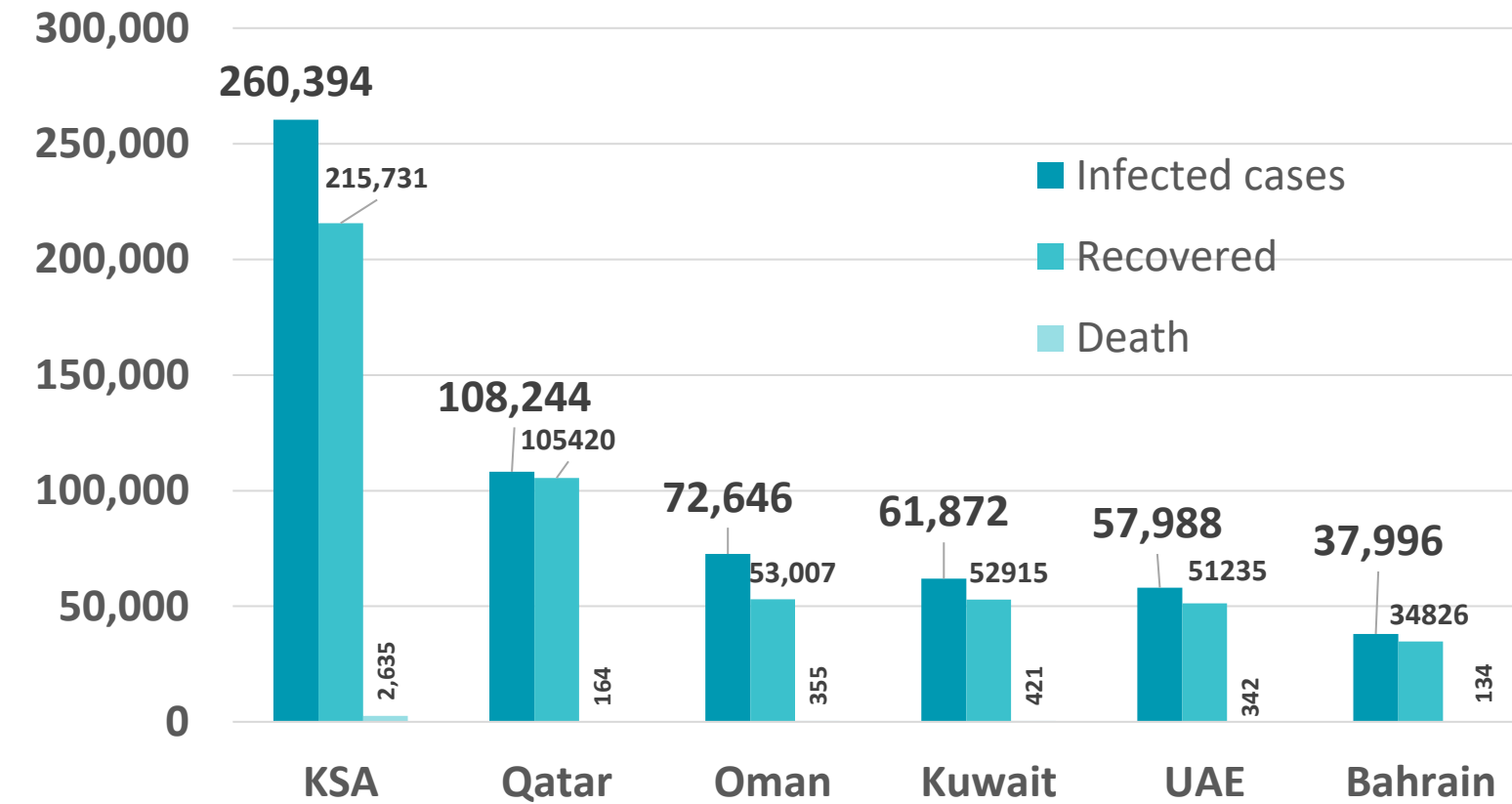


## Figure 9: Comparative Analysis of the Distribution of COVID-19 Cases in GCC Countries

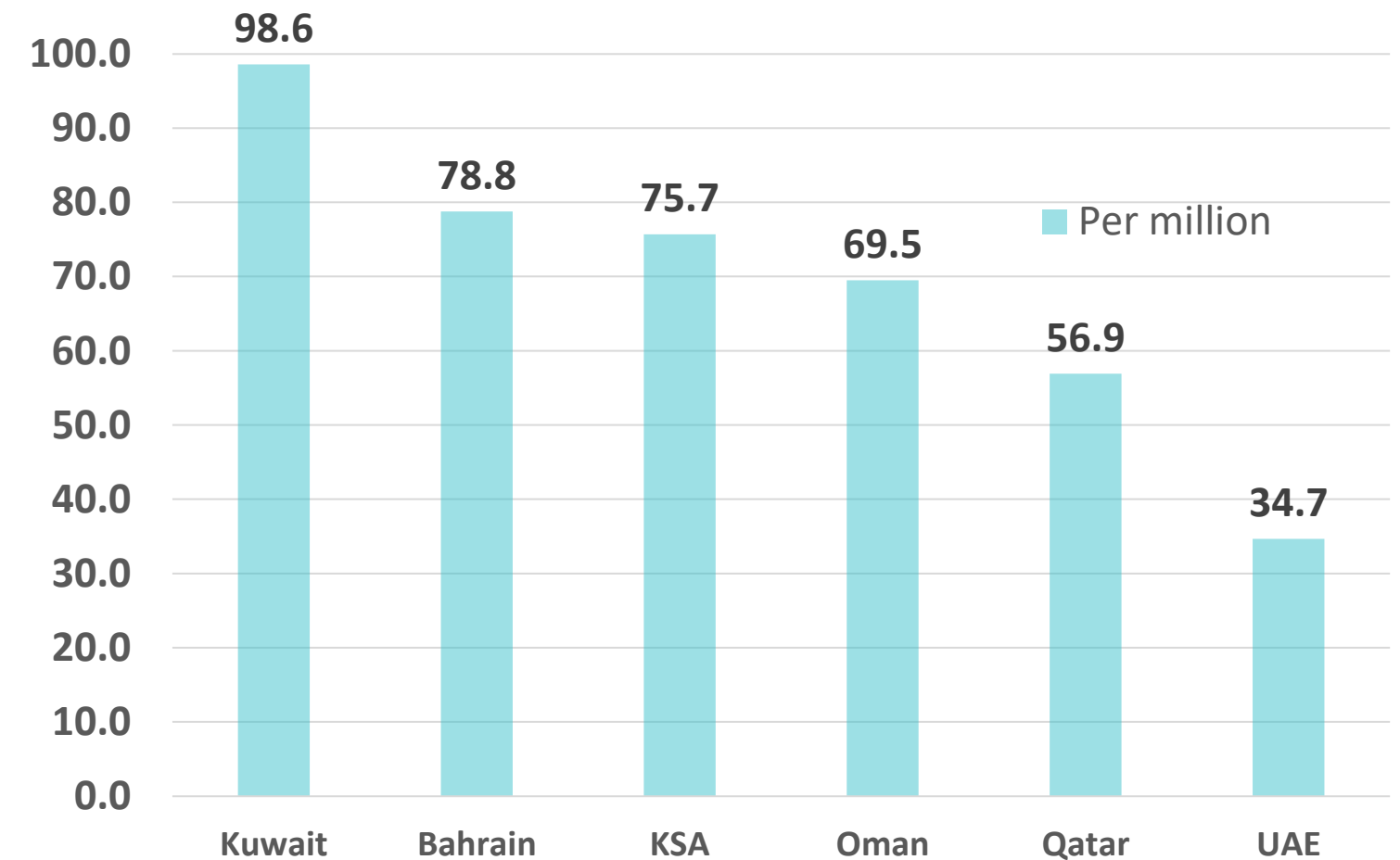
### TOTAL NUMBER OF INFECTED CASES



### TOTAL NUMBER OF INFECTED, RECOVERED CASES AND DEATHS



### DEATHS PER MILLION



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

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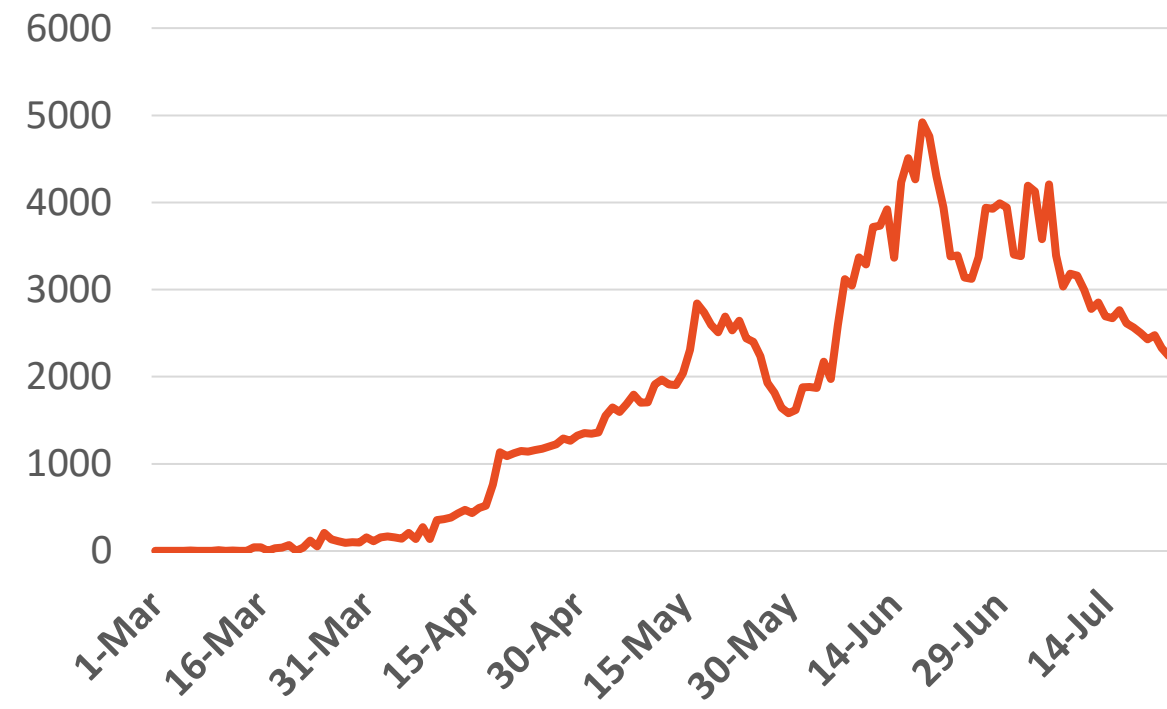
## Figure 10: Comparative Analysis of the Distribution of COVID-19 New Cases in GCC Countries

### UAE



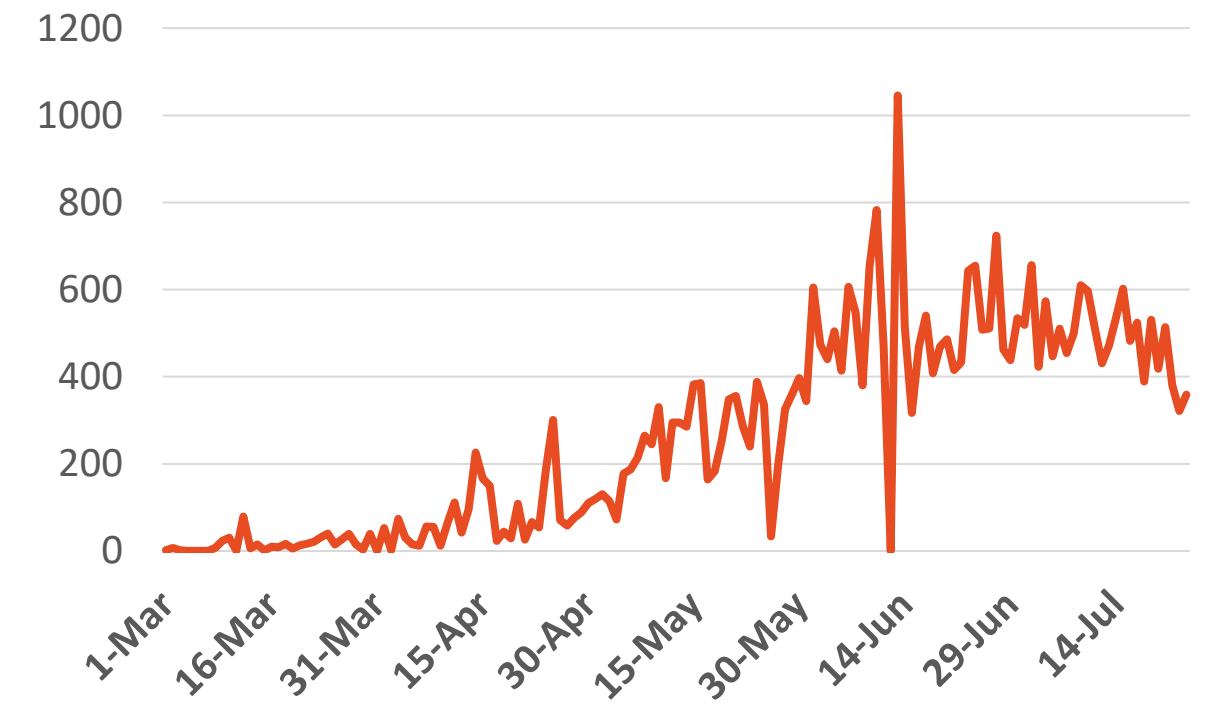
Source : National Emergency Crisis and Disaster Management Authority

### KSA



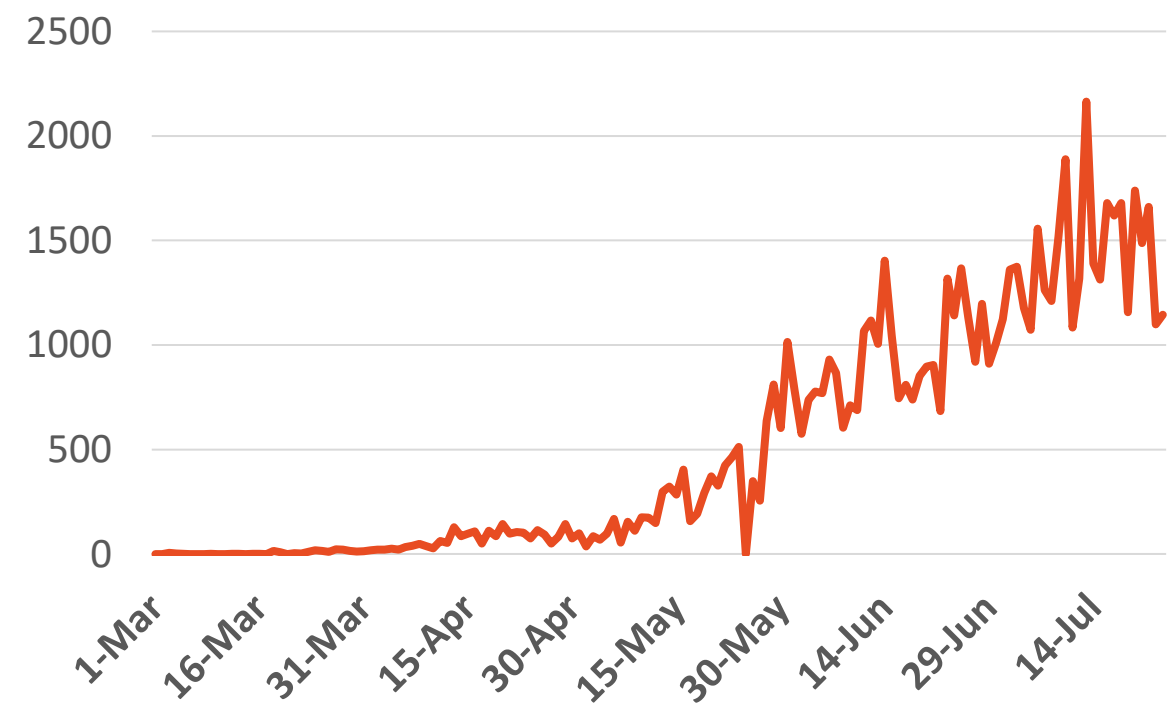
Source : KSA ministry of health

### Bahrain



Source :WHO

### Oman



Source :Oman ministry of health

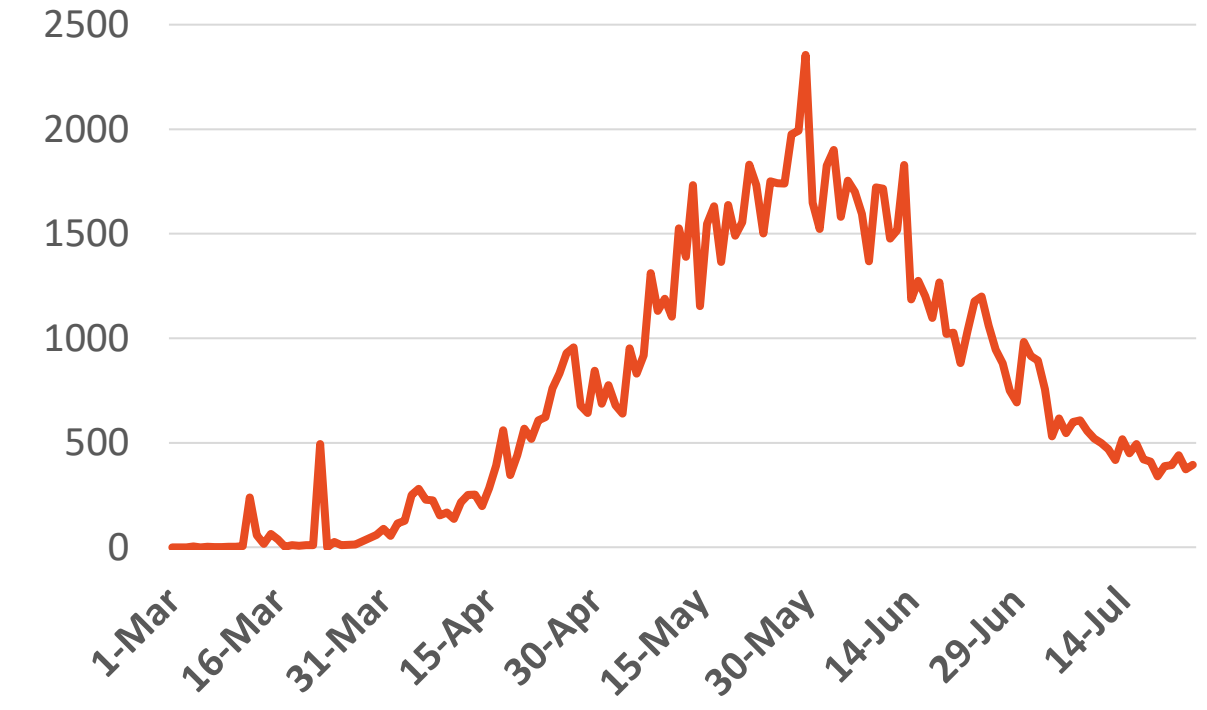
### Kuwait

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Source : Kuwait ministry of health

### Qatar



Source : Qatar ministry of health

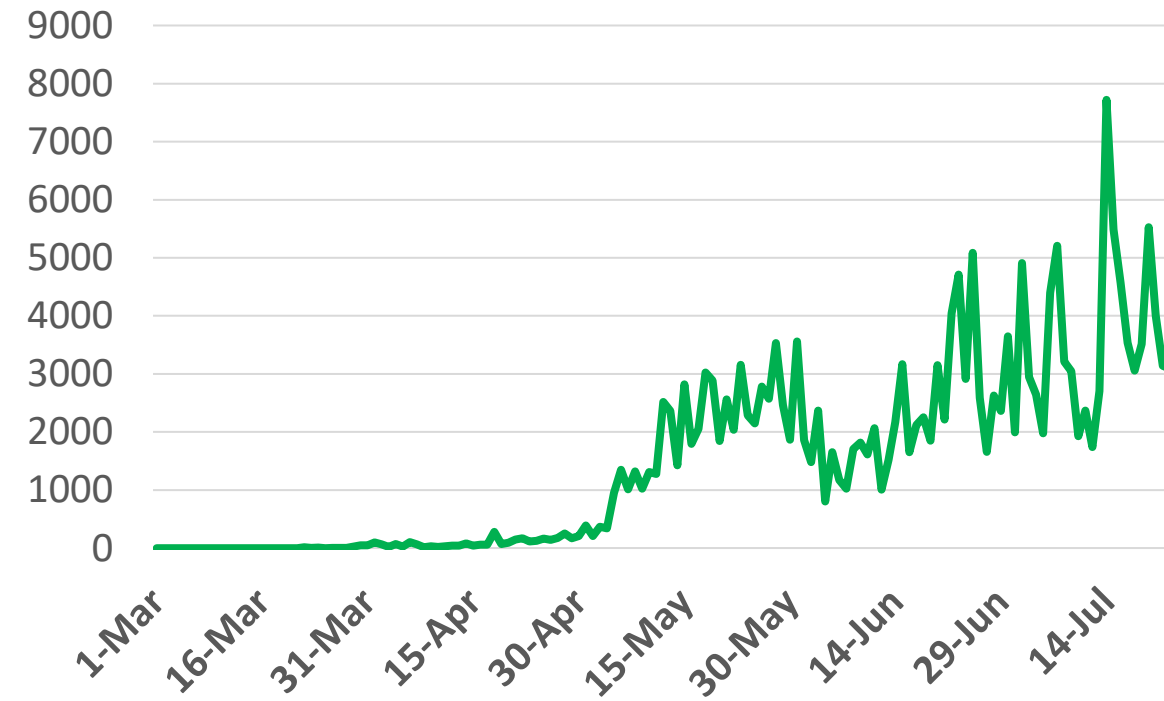
**Figure 11: Comparative Analysis of the Distribution of COVID-19 Newly Recovered Cases in GCC Countries**

## UAE



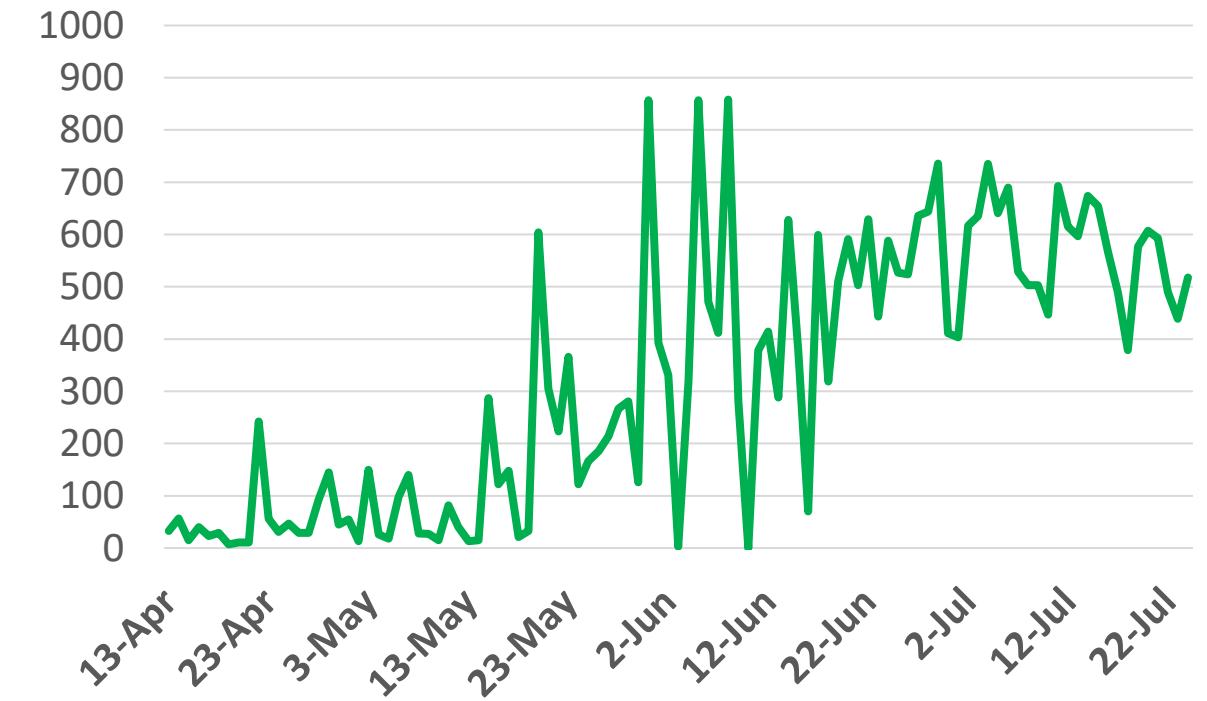
Source : National Emergency Crisis and Disaster Management Authority

## KSA



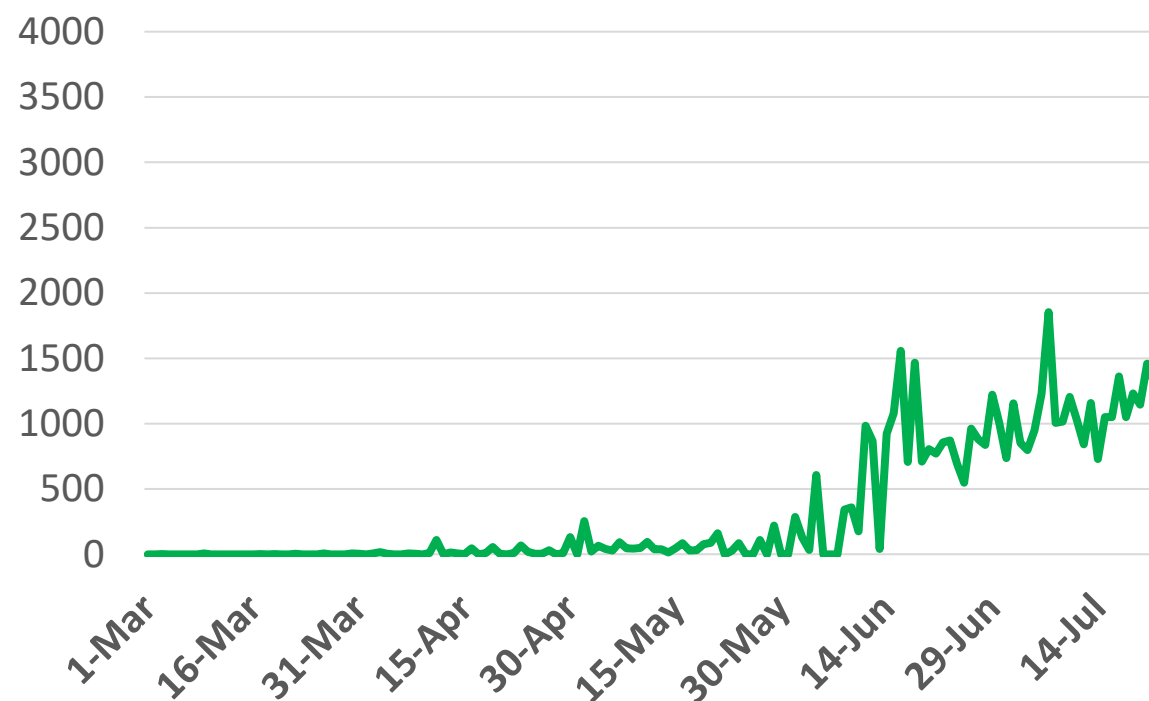
Source : KSA ministry of health

## Bahrain



Source : GCCStat

## Oman



Source : Oman ministry of health

## Kuwait

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Source : Kuwait ministry of health

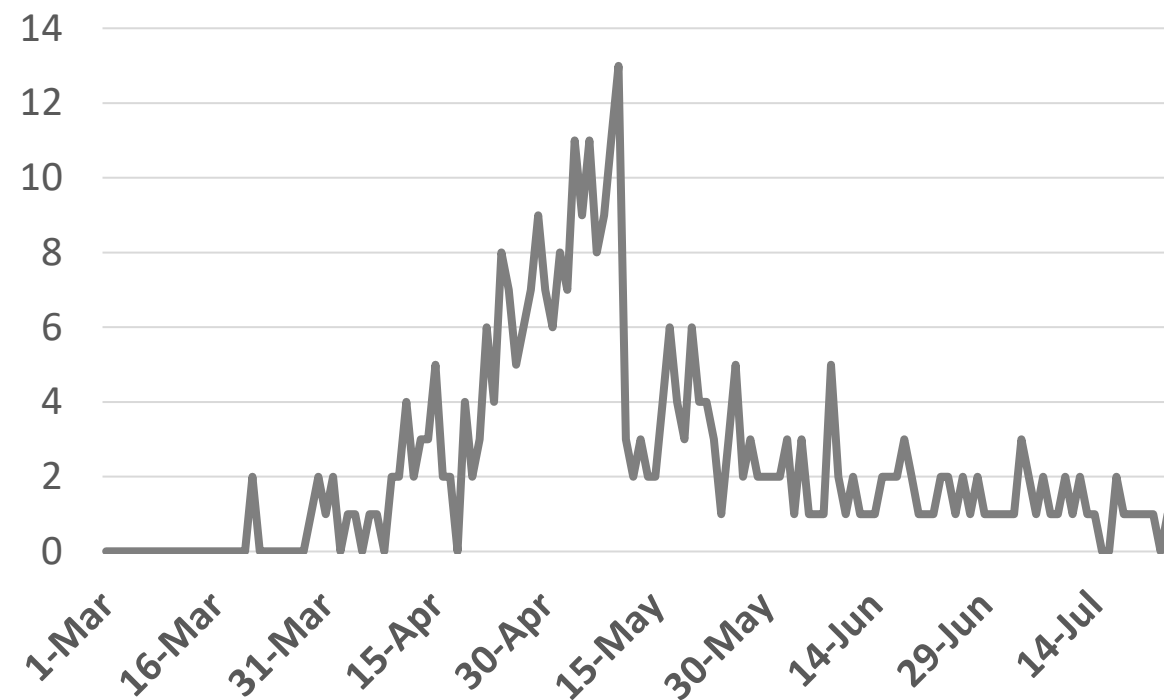
## Qatar



Source : Qatar ministry of health

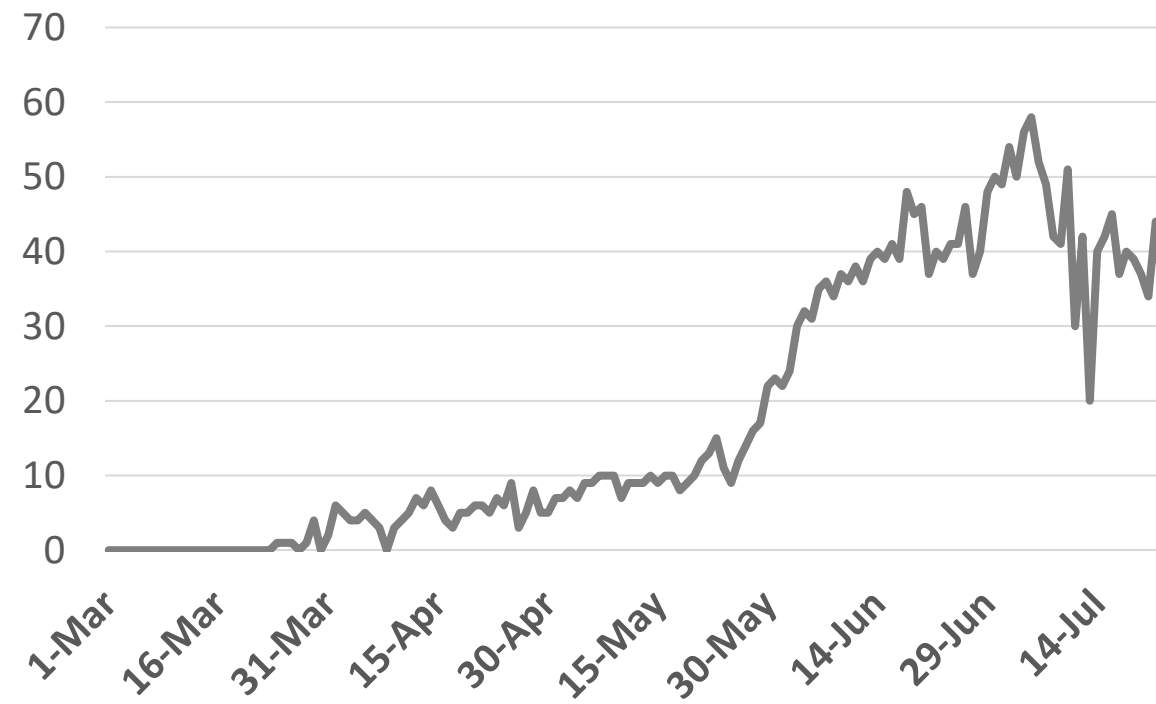
**Figure 12: Comparative Analysis of the Distribution of COVID-19 Newly Death Cases in GCC Countries**

### UAE



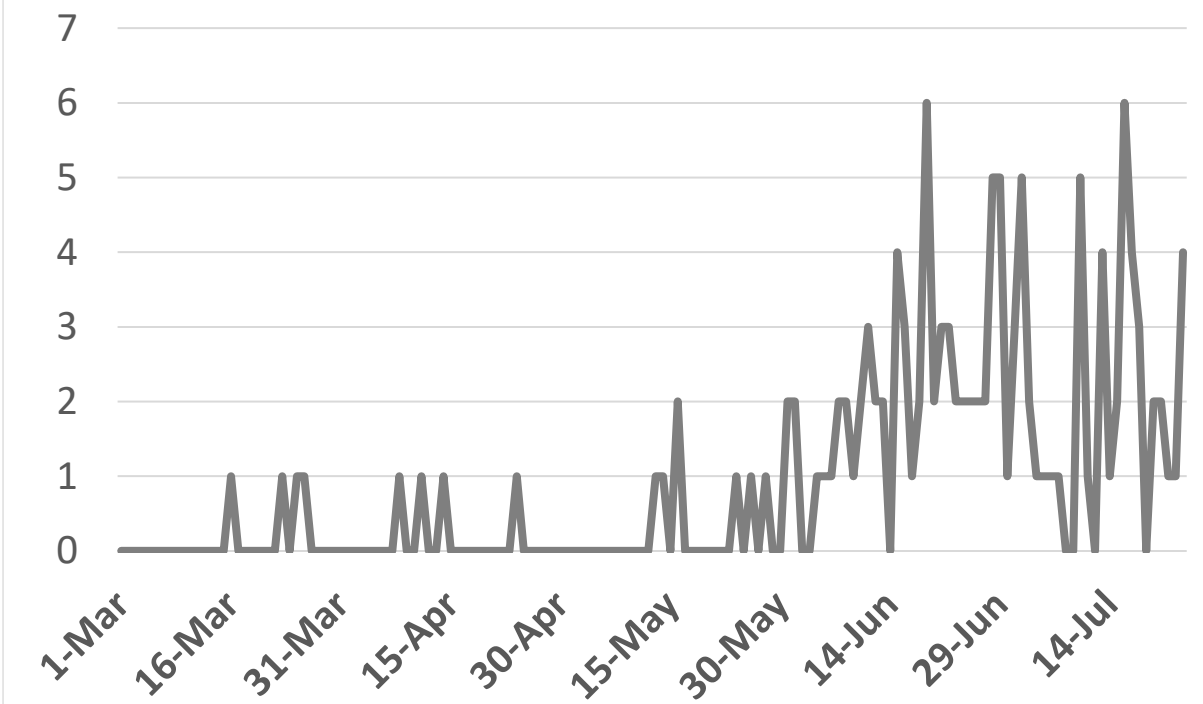
Source : National Emergency Crisis and Disaster Management Authority

### KSA



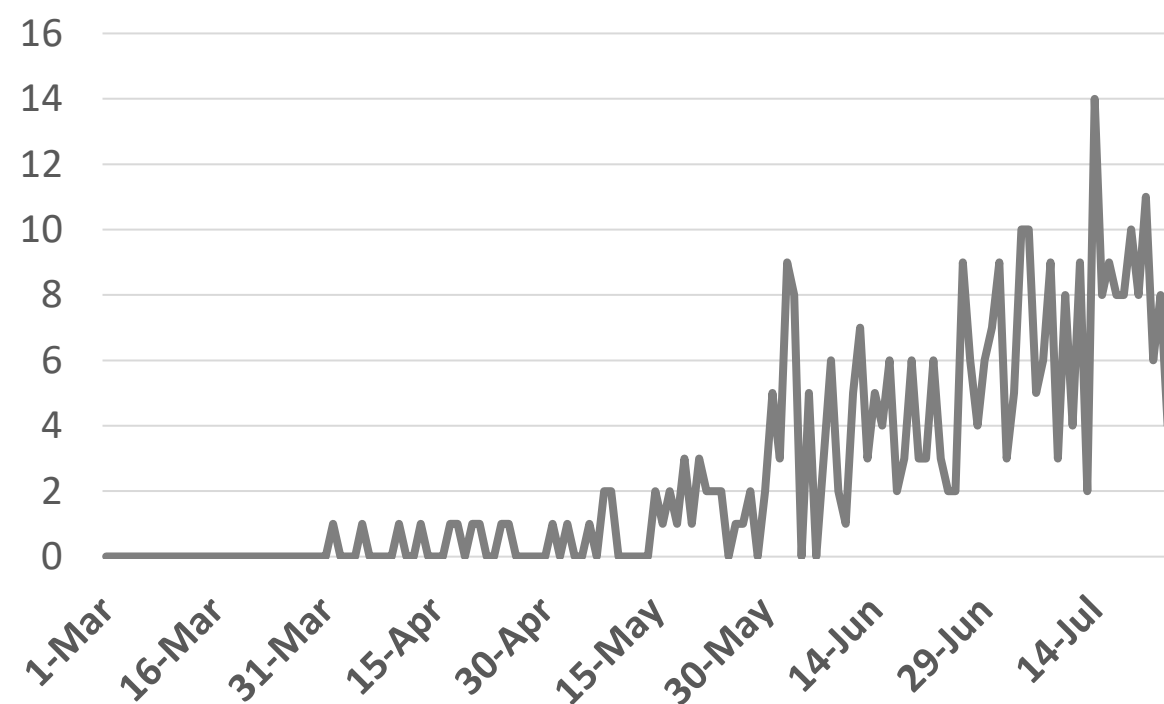
Source : KSA ministry of health

### Bahrain



Source :WHO

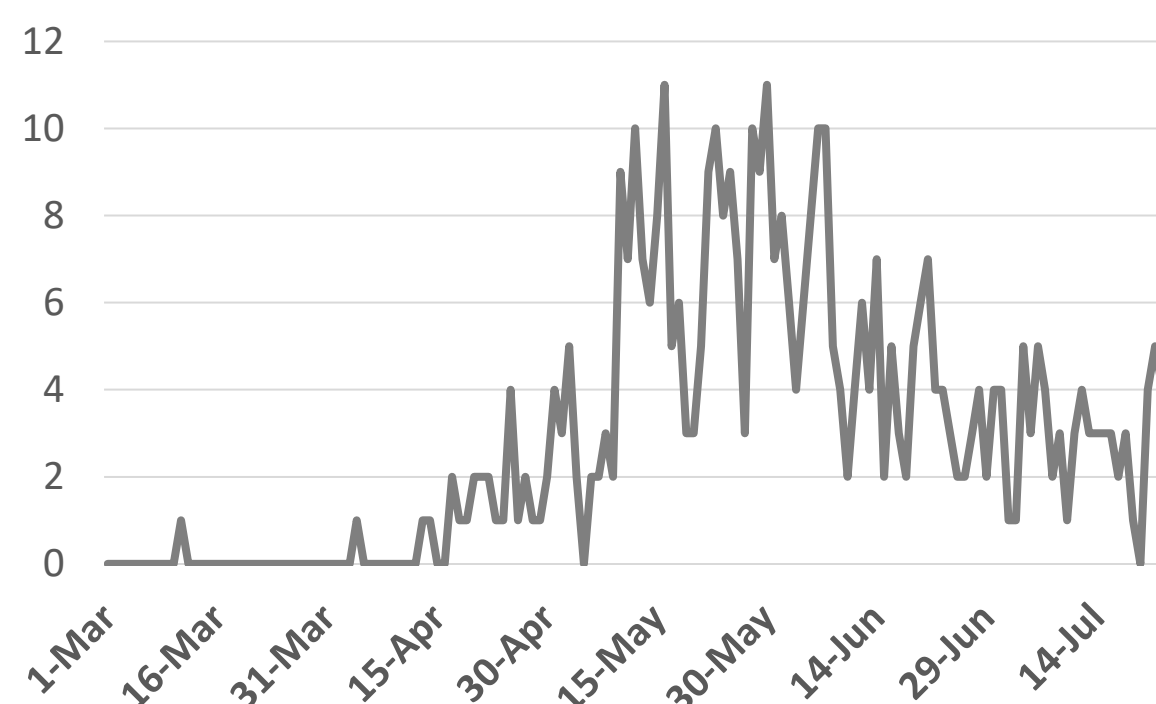
### Oman



Source :Oman ministry of health

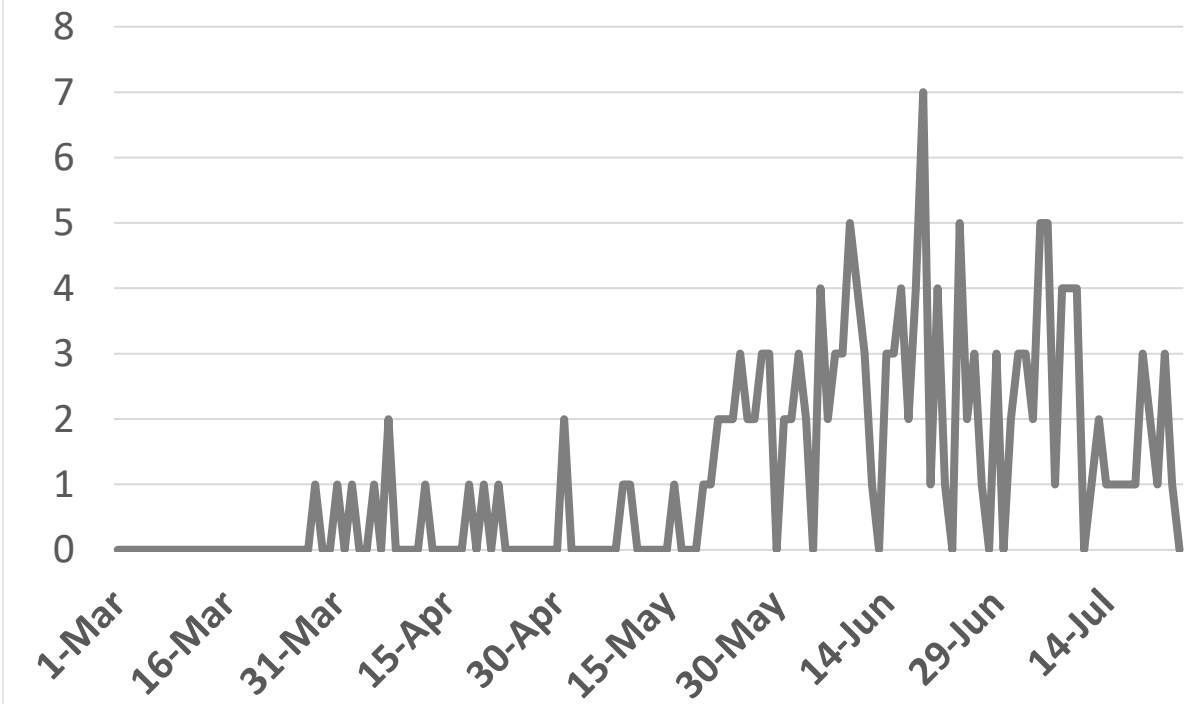
### Kuwait

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Source : Kuwait ministry of health

### Qatar



Source : Qatar ministry of health

## Article 1:

Published

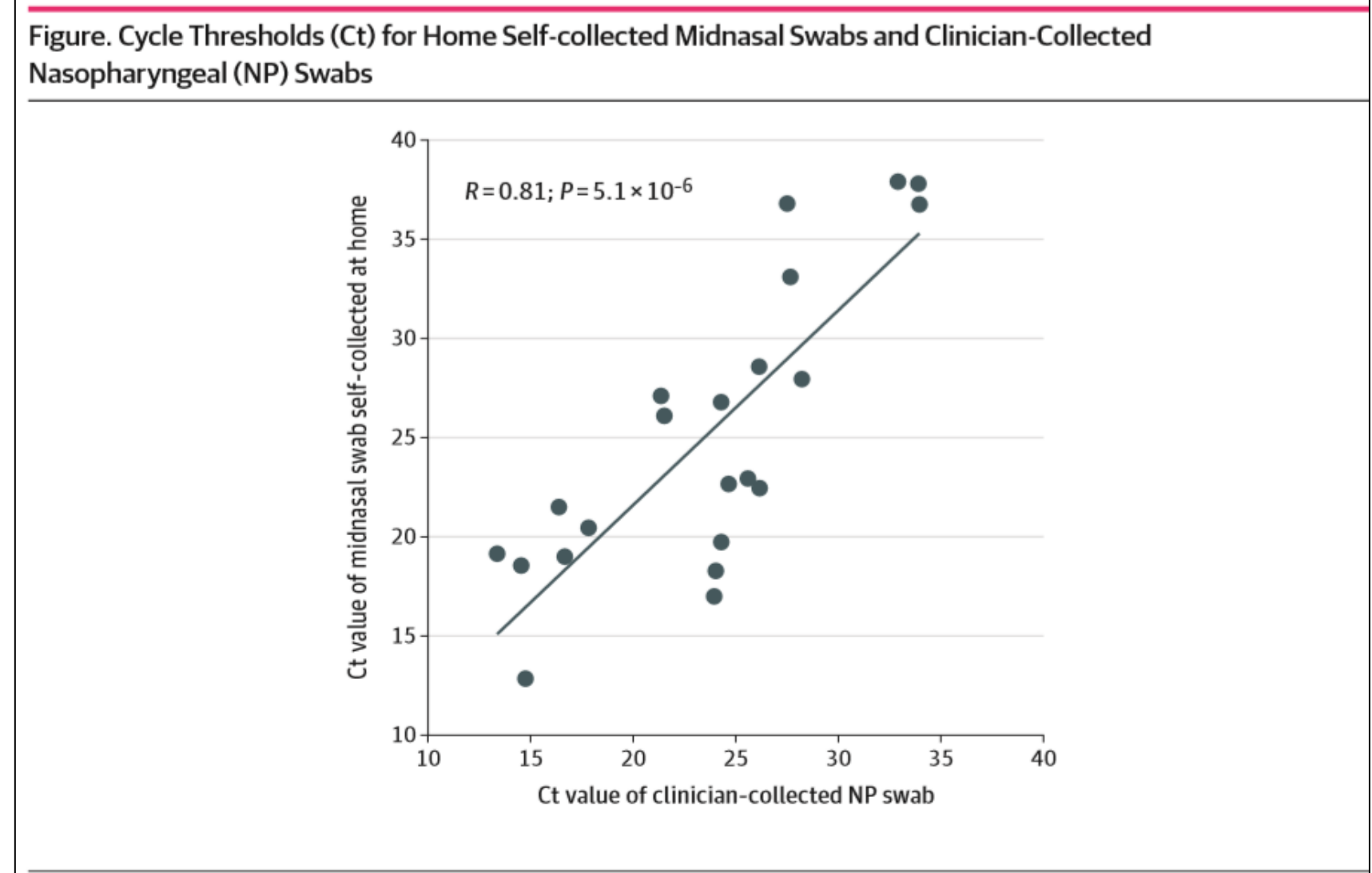
22 July 2020 [JAMA](#)

## Comparison of Unsupervised Home Self-collected Midnasal Swabs With Clinician-Collected Nasopharyngeal Swabs for Detection of SARS-CoV-2 Infection

- This is a cross sectional study on of 185 patient that visited drive-through clinics.
- Participants were tested twice (one by medical staff and second home test kits with unsupervised home self-collection of a midnasal swab).

### Results

- Among the 185 participants, 41 (22.2%) yielded SARS-CoV-2 positive test results via clinician-collected nasopharyngeal swab, home self-collected midnasal swab, or both.
- Among the 28 true positives, home swab collection occurred a median of 4 (2-7) days after symptom onset.
- Among 7 false negatives, home swab collection occurred a median of 6 (3-18) days after symptom onset.



### Conclusion

- Unsupervised home midnasal swab collection was comparable to clinician-collected nasopharyngeal swab collection for detection of SARS-CoV-2 in symptomatic patients, particularly those with higher viral loads.
- Study limitation: temperature stability, and majority of participant were health care workers.



## Article 2: Communicating with Children About COVID-19

Published

21 July 2020 [THE LANCET](#)

- This article highlights a need for child-friendly resources that carefully explain and communicate about COVID-19. Numerous books have been produced using different approaches to tackle this difficult topic.
- **Book 1: Message from Corona:** (Author, Charity Tedder). This book engages children with the fantasy of viral particles, social distancing and hygiene measures. It also contains a game that requires children to spot people not adhering to regulations. Critics of this book claim that it gives the virus personality, and this might confuse children.
- **Book 2: Coronavirus:** (Author, Elizabeth Jenner *et al*). This book has been written with input from headteachers, an expert in infectious disease modelling, and a clinical psychologist. The style is clear for very young children. This collaboration has produced a thorough and clear text which is informative without being overwhelming.
- **Book 3: My Hero Is You How - Kids can Fight COVID-19:** (Author, Helen Patuck). This book is potentially helpful for children **who suffer anxiety**. It has essential information woven into a story that is clear and concise. It was developed with collaborative global input and has been released in different languages.
- Not all books currently on the market will suit all children, so having a variety of resources available to explain this difficult time to children is important.





# THANK YOU

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