

SCIENTIFIC RESEARCH MONITORING ON COVID-19

15 FEBRUARY 2021

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SCIENTIFIC RESEARCH MONITORING ON COVID-19

(ISSUE 373)

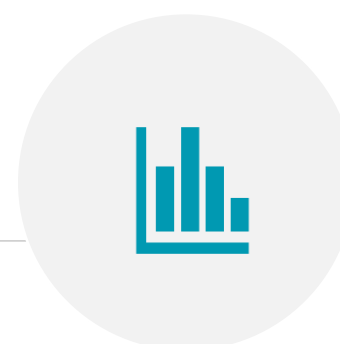
Abu Dhabi Public Health Center (ADPHC) is gathering the latest scientific research updates and trends on coronavirus disease (COVID-19) in a daily report. The report provides summaries on breakthrough or updated research on COVID-19 to allow health care professionals and public health professionals get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

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Research

Updated



Statistics



Articles

Summary

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 PHR@adphc.gov.ae

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).

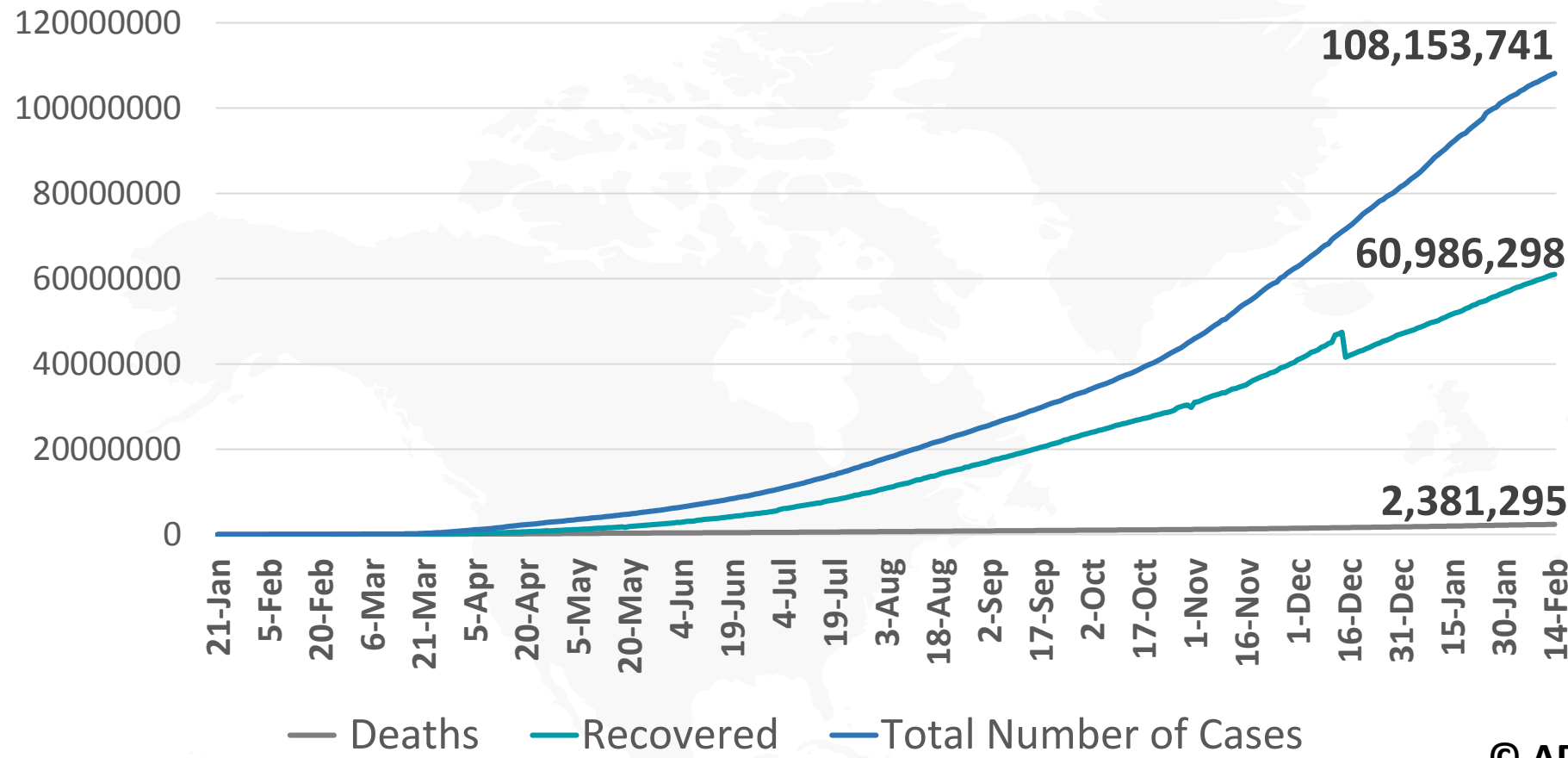
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New Variant

**WHO ad hoc consultation
COVID Vaccines
Methodological approaches to
assess variants effect on
vaccine effects**

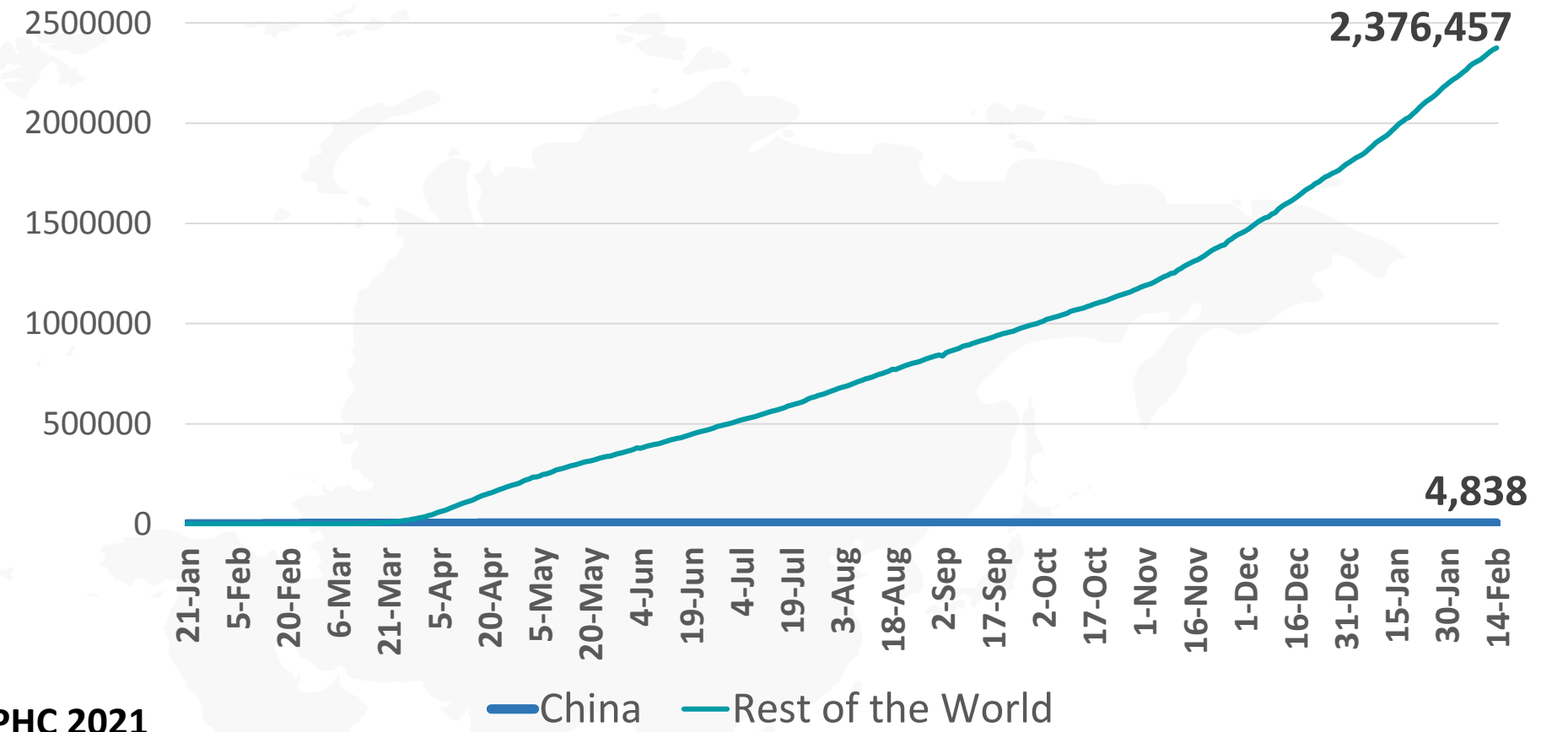


Figure 1: Total Number of Infected, Recovered, and Death Cases



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Figure 3: Total Number of Death Due to COVID-19 (china and result of the world)



Note: the number of recovered cases in 31st October rechecked from 30 million to 29 million, and in 15th December rechecked from 47 million to 41 million in Johns Hopkins website

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

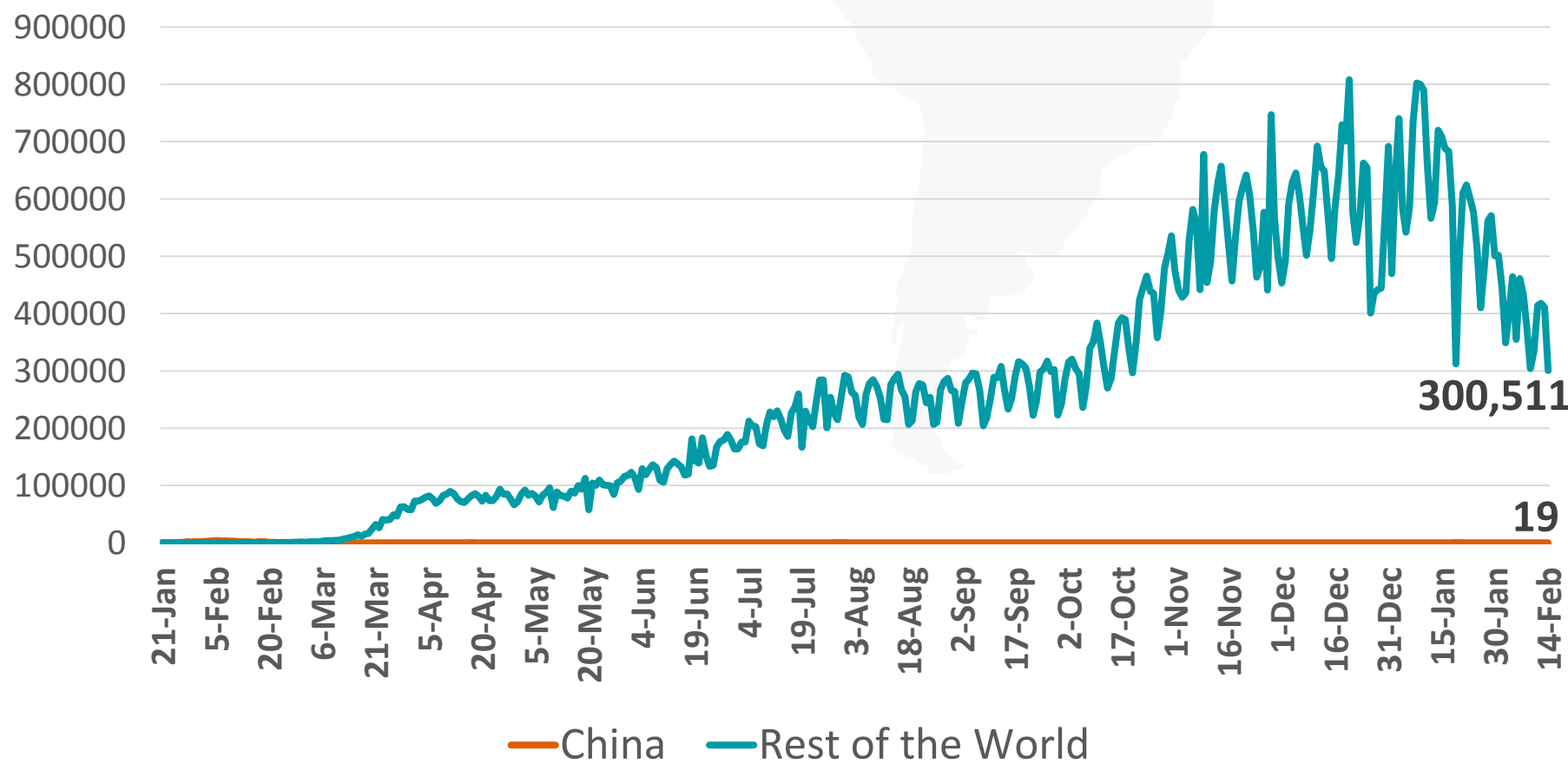


Figure 4: Global Daily New Deaths Due to COVID-19

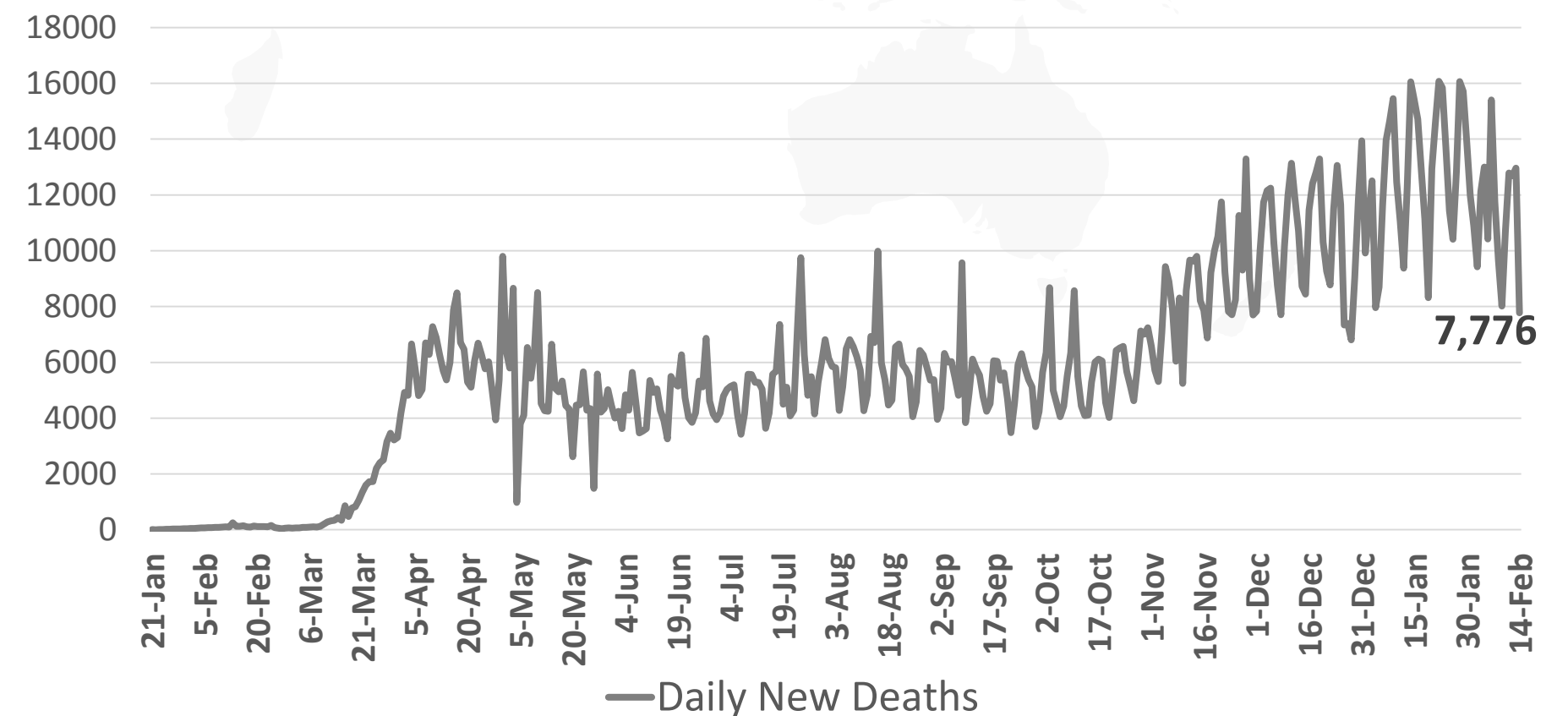
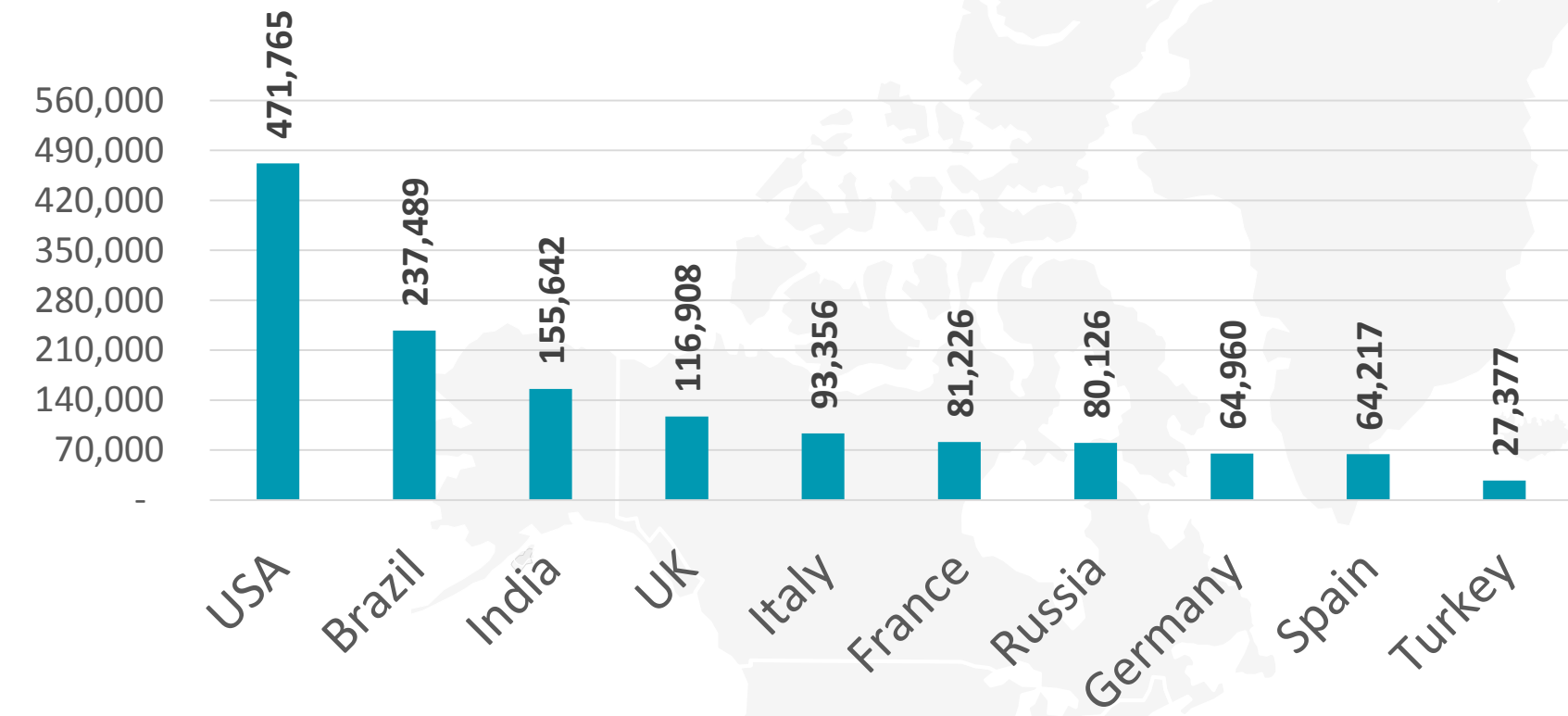
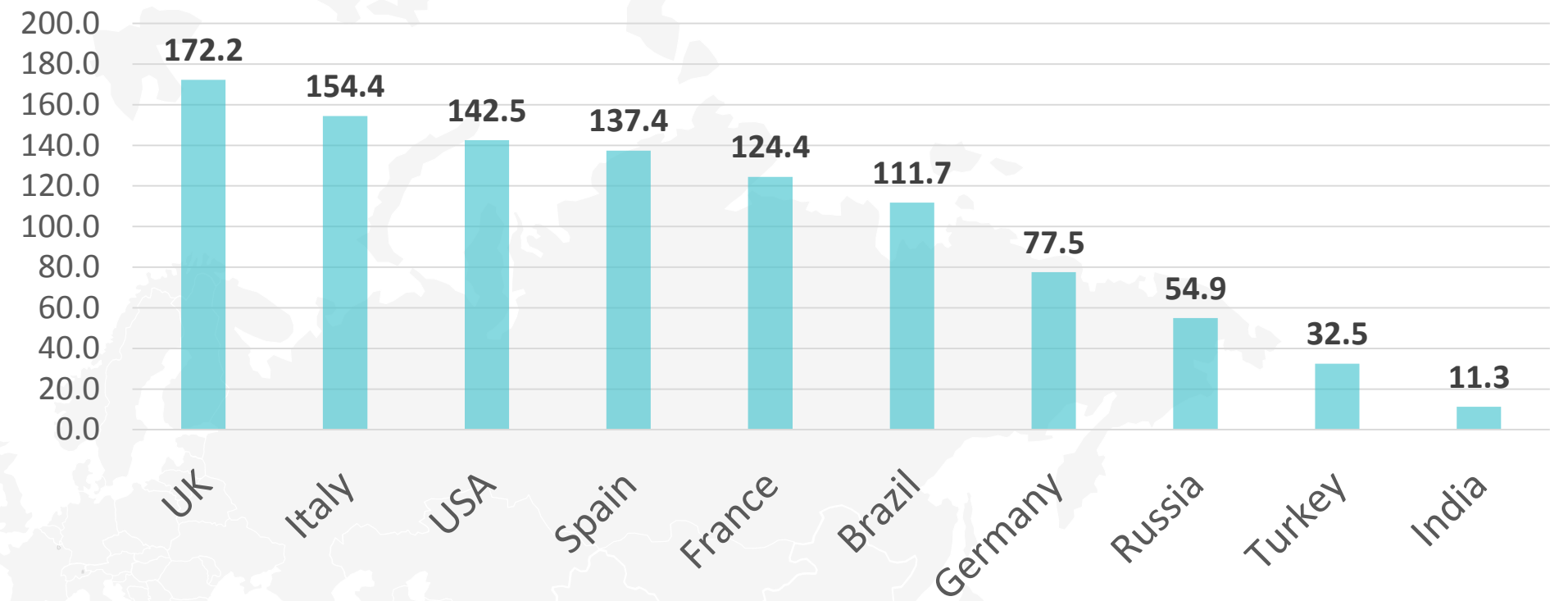


Figure 5: Top 10 Countries in the Total Number of Cases Due to COVID-19

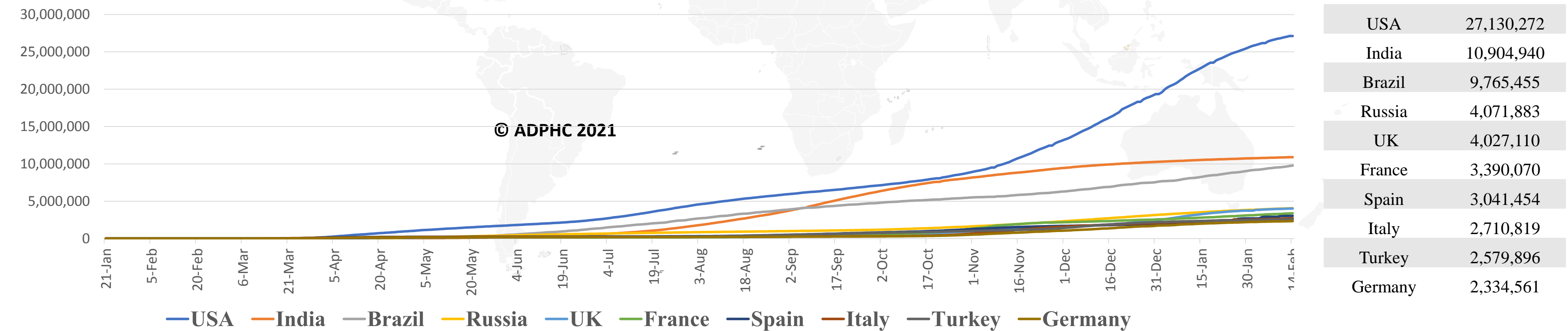
TOTAL DEATHS



DEATHS PER MILLION



TOTAL INFECTED CASES



© ADPHC 2021

Figure 6: COVID-19 Status in the UAE (Federal Competitiveness and Statistics Authority Dashboard)

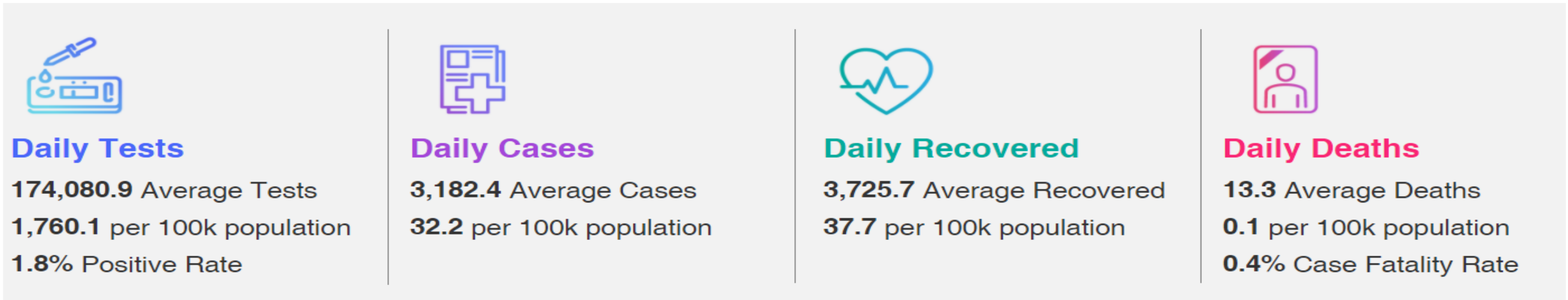


Figure 6A: TOTAL Number Of Infected And Recovered Cases Due To Covid-19 Reported By The UAE

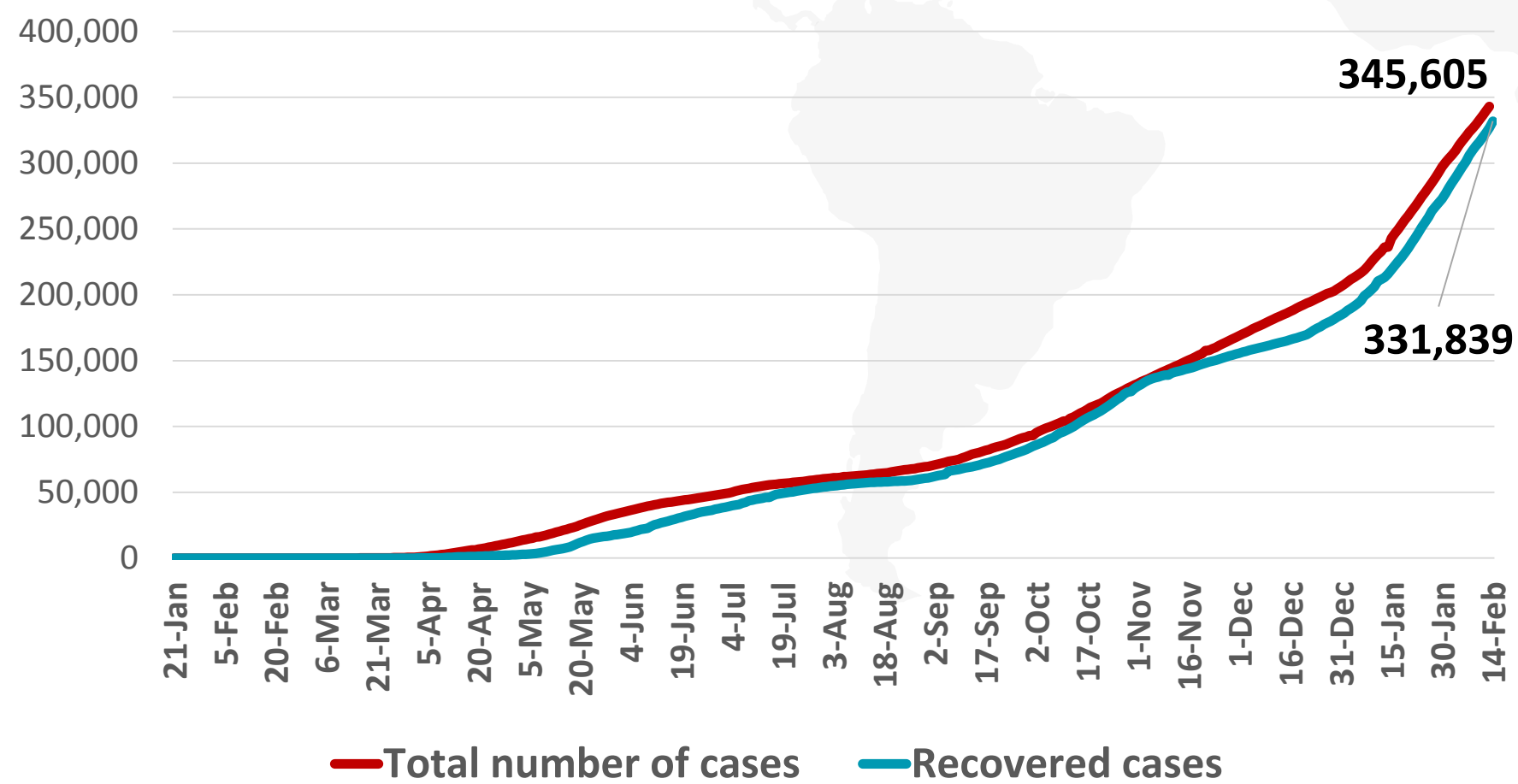


Figure 6 B: TOTAL NUMBER and Percentage of UAE population Vaccinated

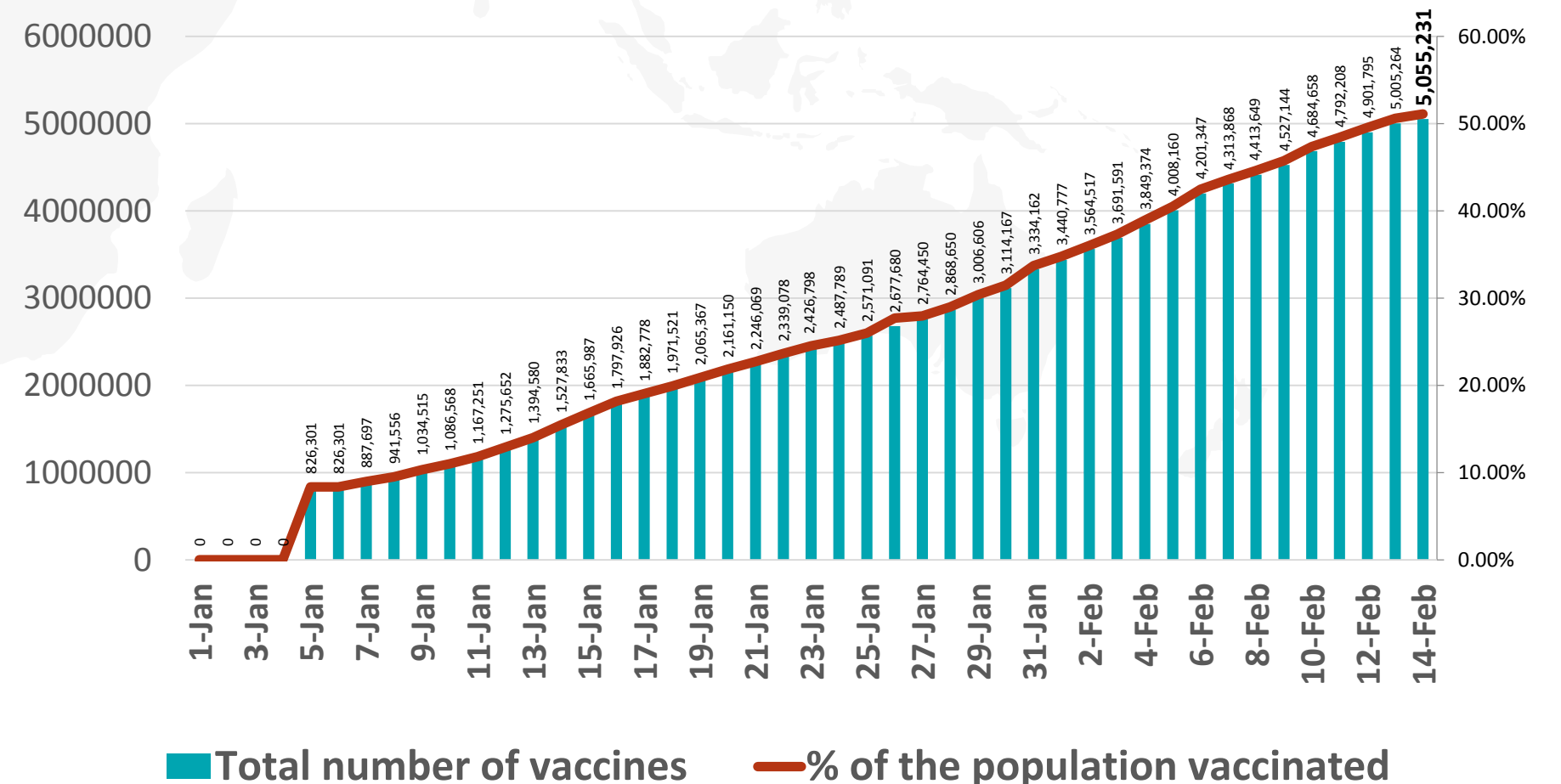
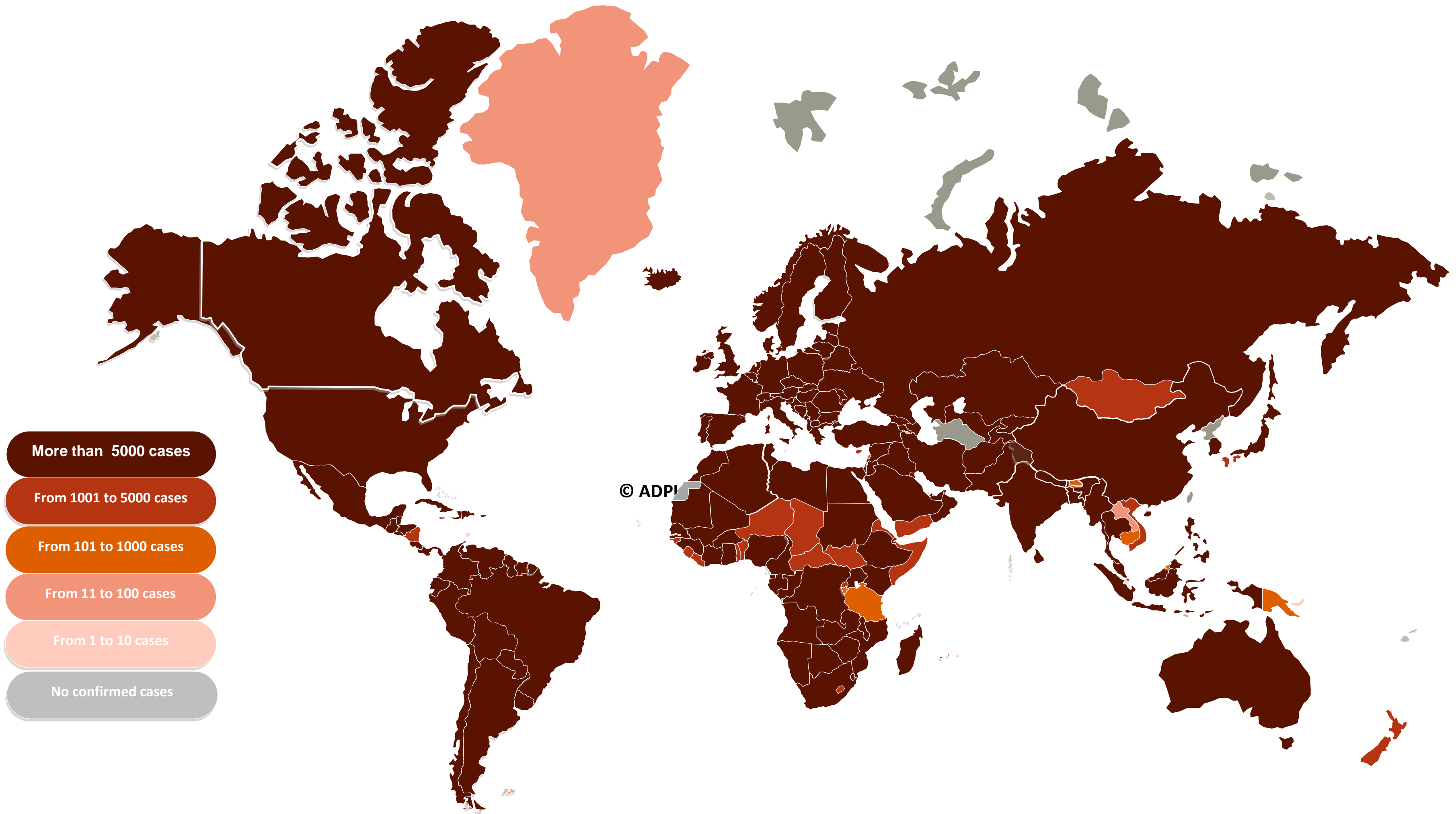


Figure 7A : Global Distribution of COVID-19 Cases



More than 5000 cases

From 1001 to 5000 cases

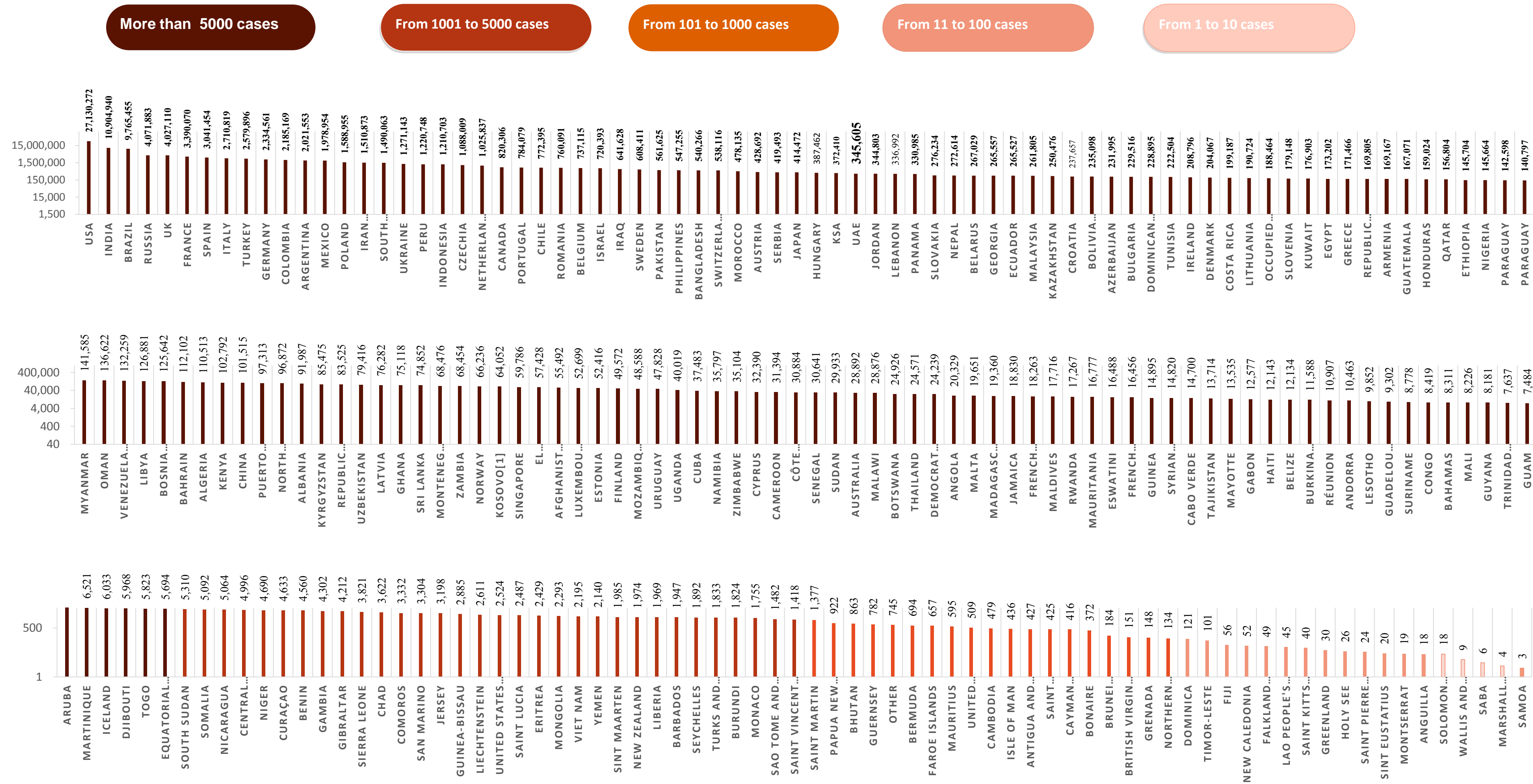
From 101 to 1000 cases

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)

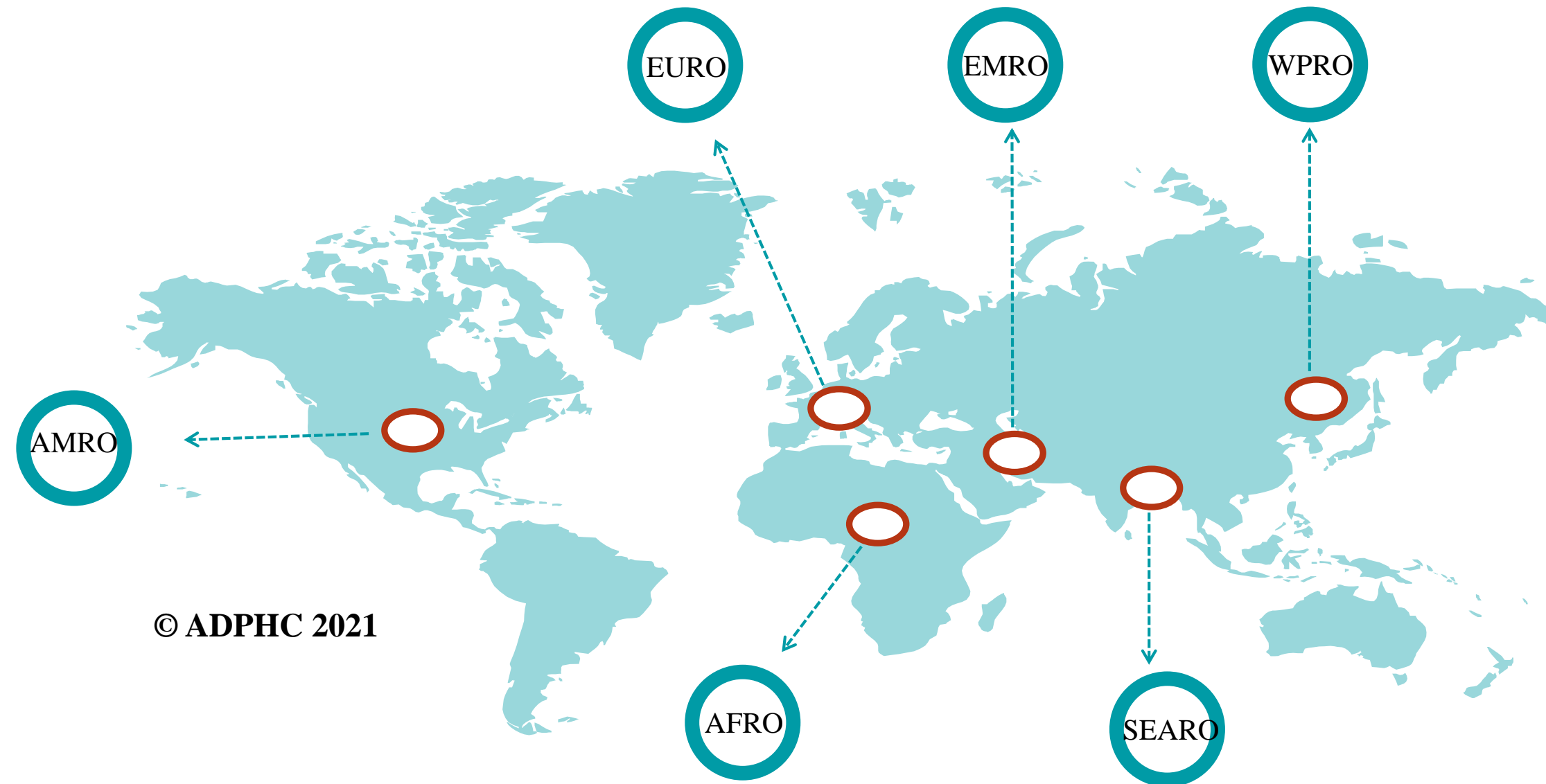
Graphs published by Abu Dhabi Public Health Center 2021 | Data resources: [WHO](#)

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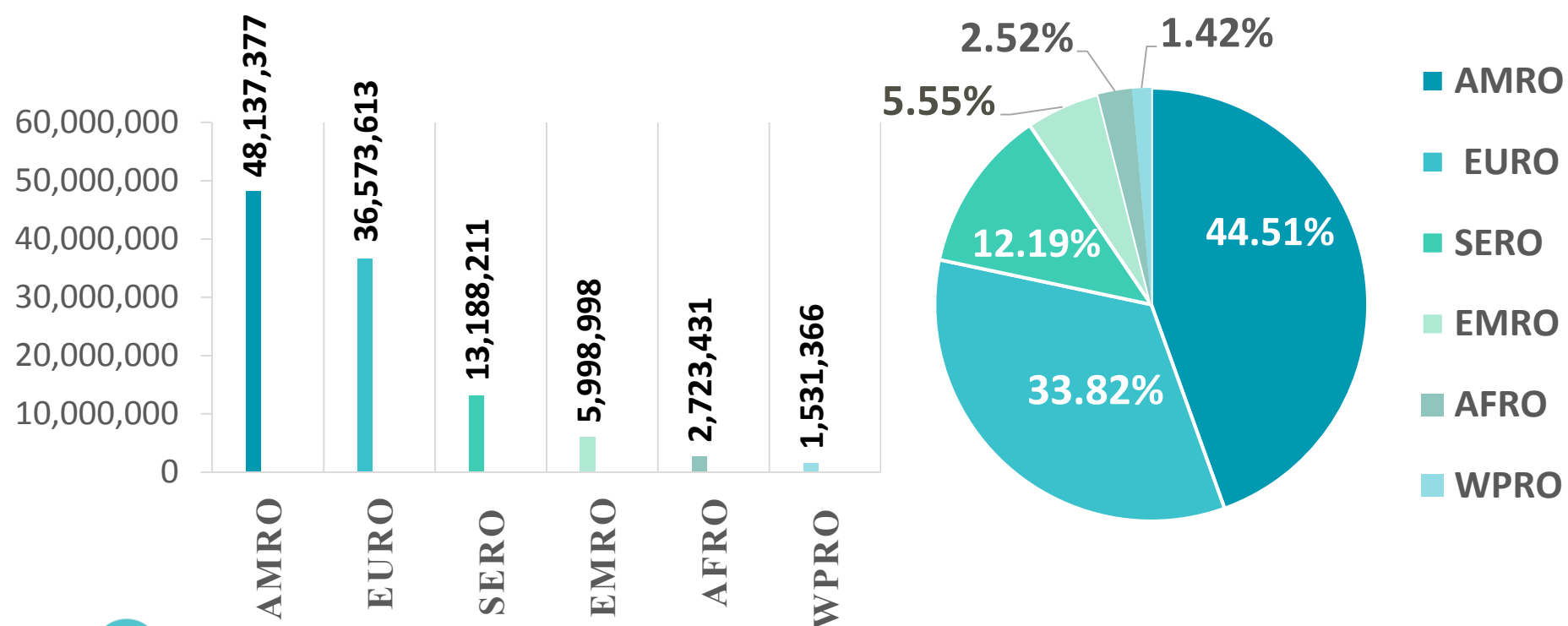
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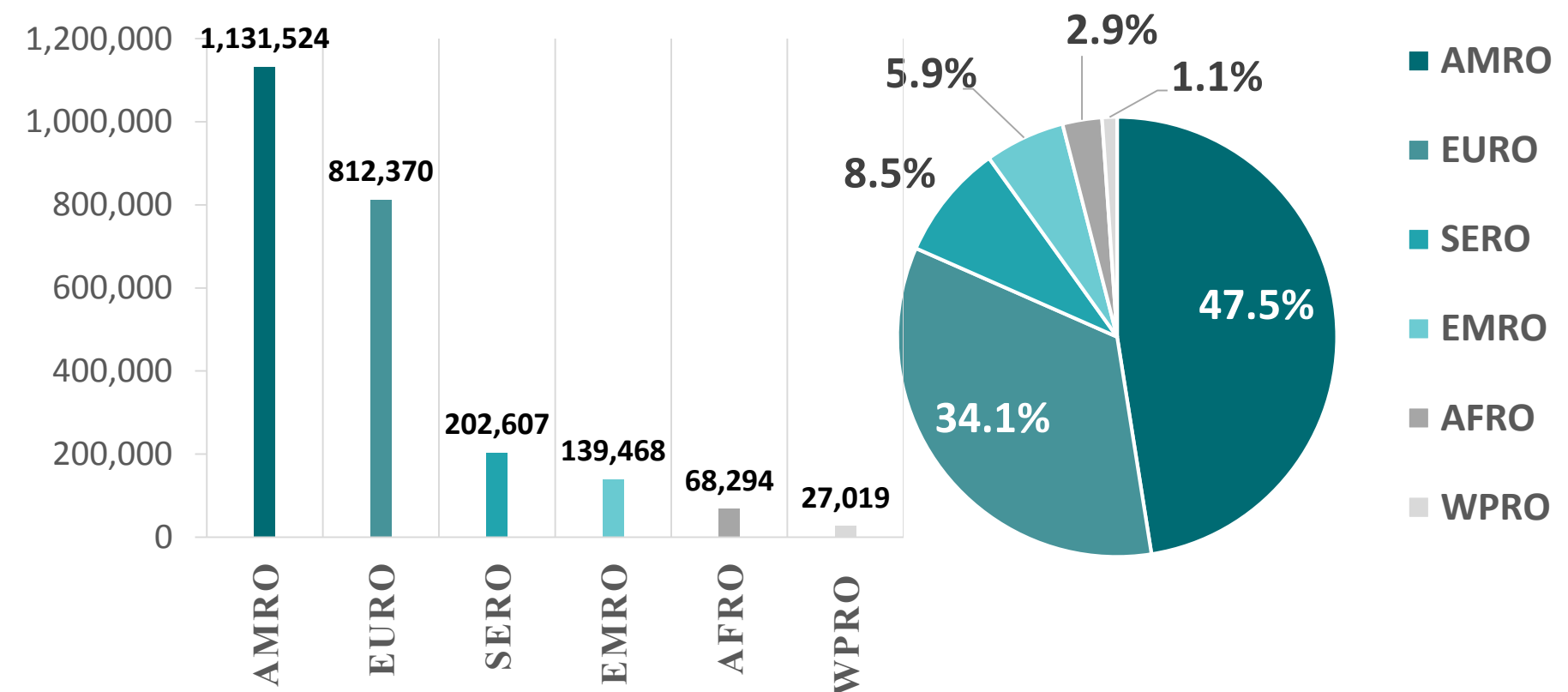
Figure 8: Global Distribution of COVID-19 Cases per Region



INFECTED



DEATHS



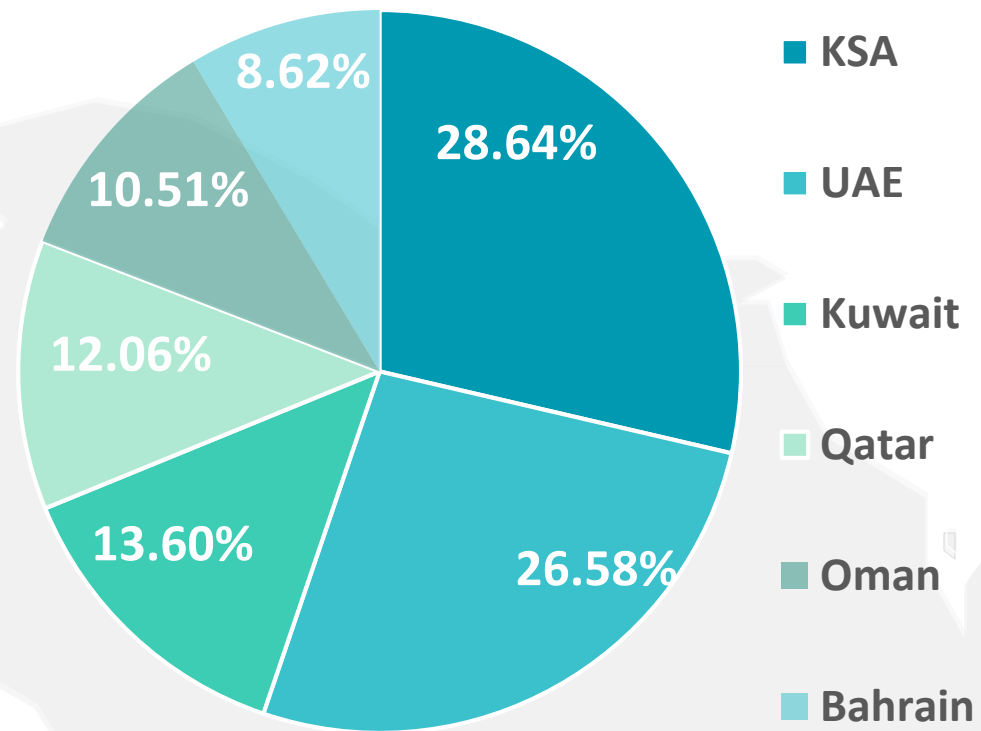
Graphs published by Abu Dhabi Public Health Center 2021 | Data resources: [WHO](#)

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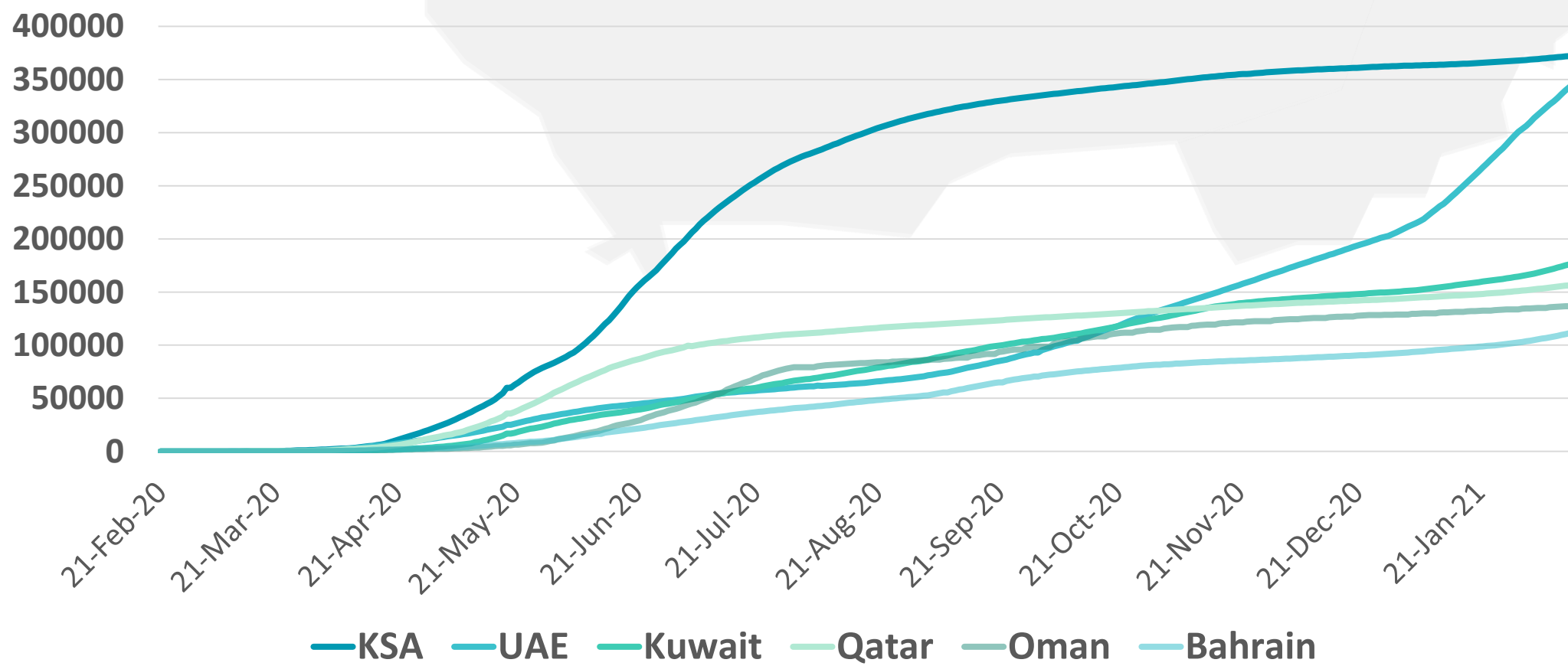
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Figure 9: Comparative Analysis of the Distribution of COVID-19 Cases in GCC Countries

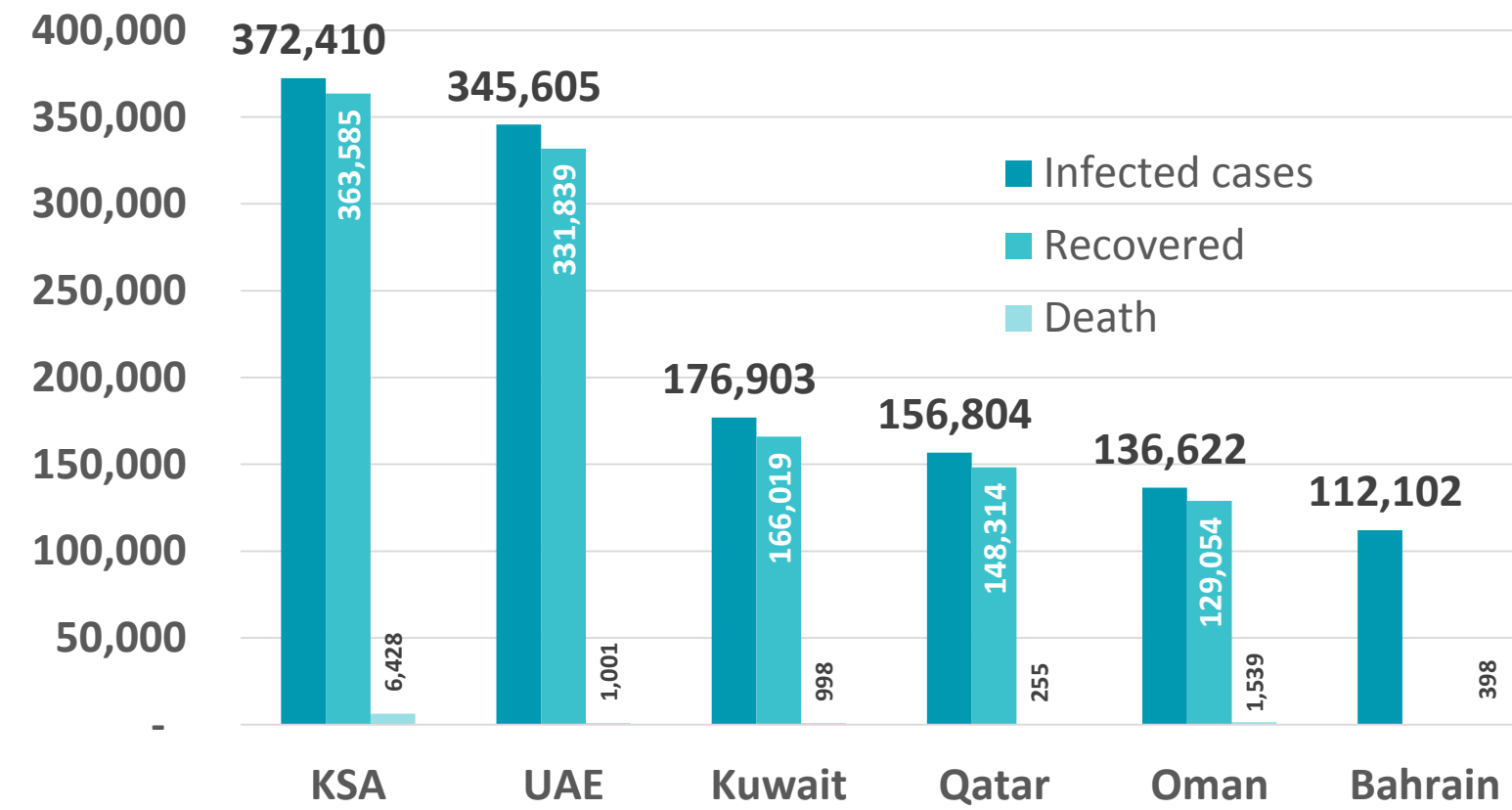
TOTAL NUMBER OF INFECTED CASES



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TOTAL NUMBER OF INFECTED, RECOVERED AND DEATHS



DEATHS PER MILLION

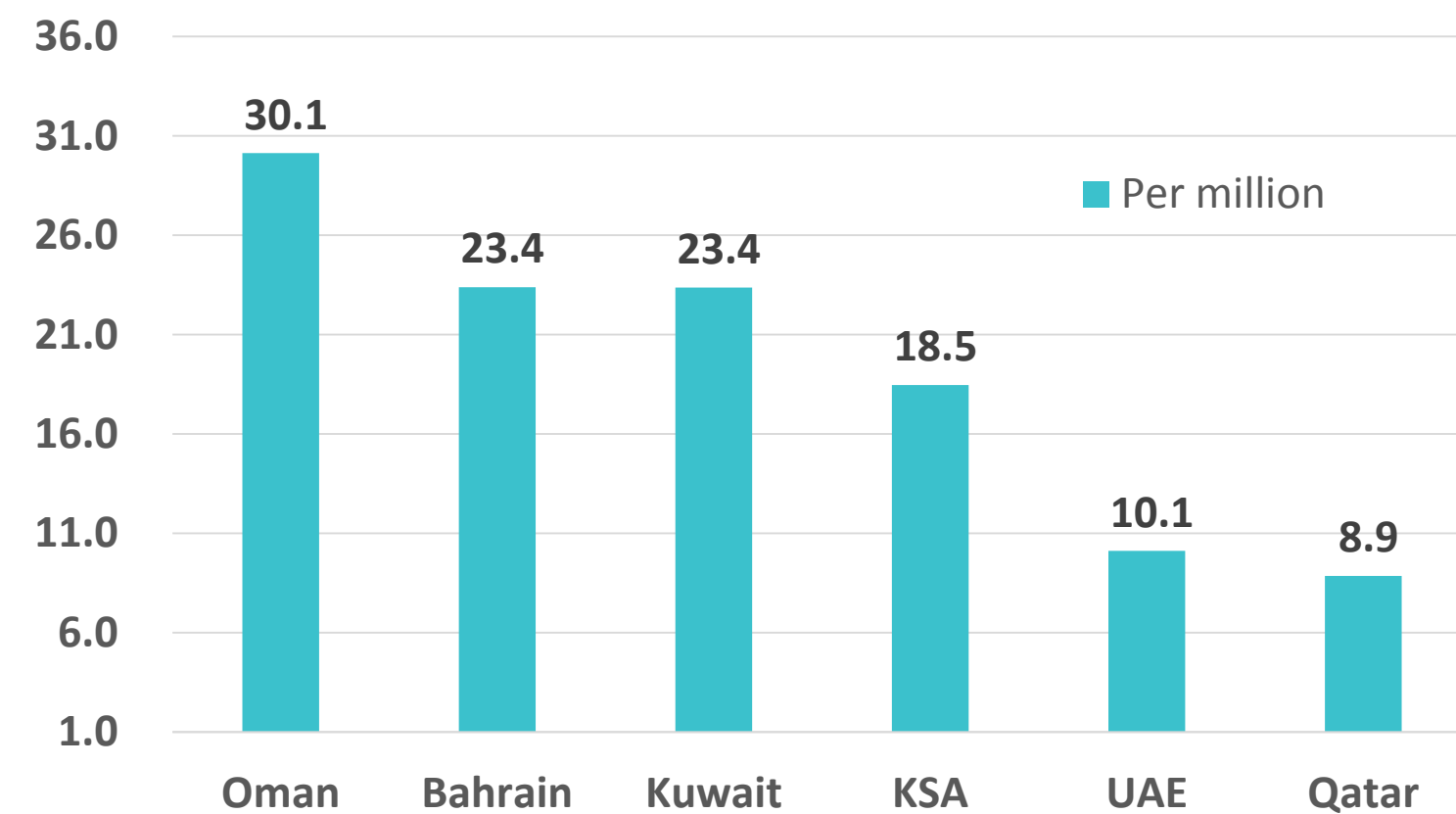
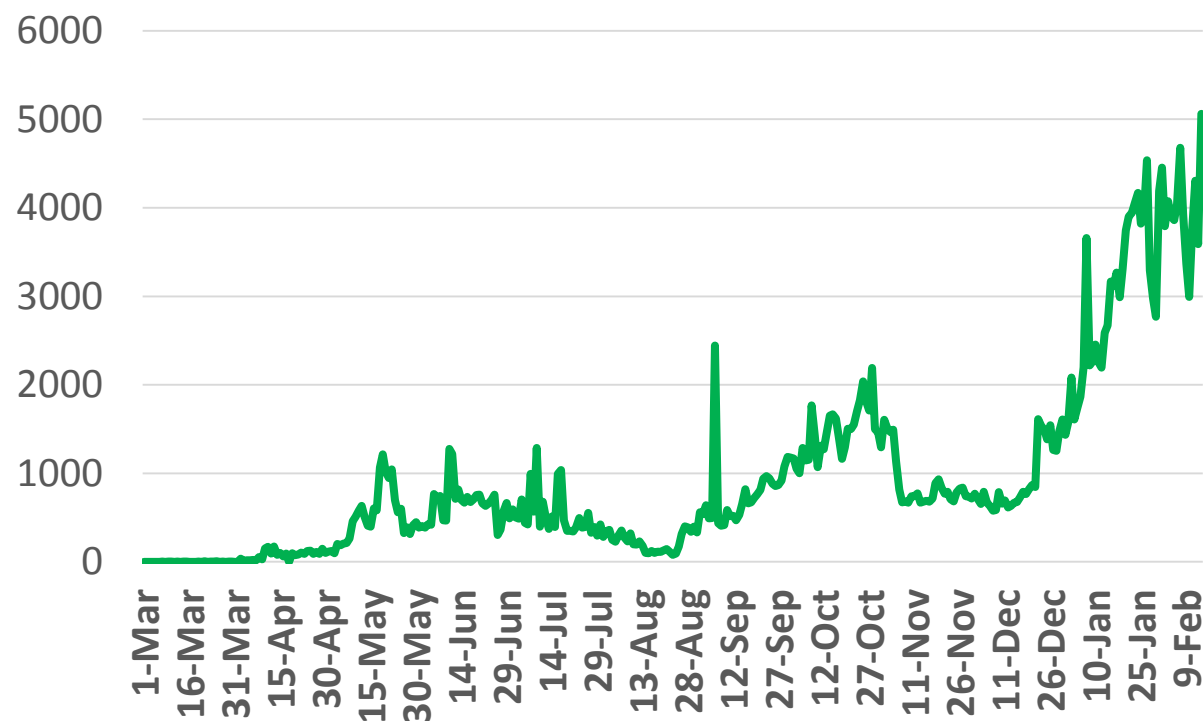


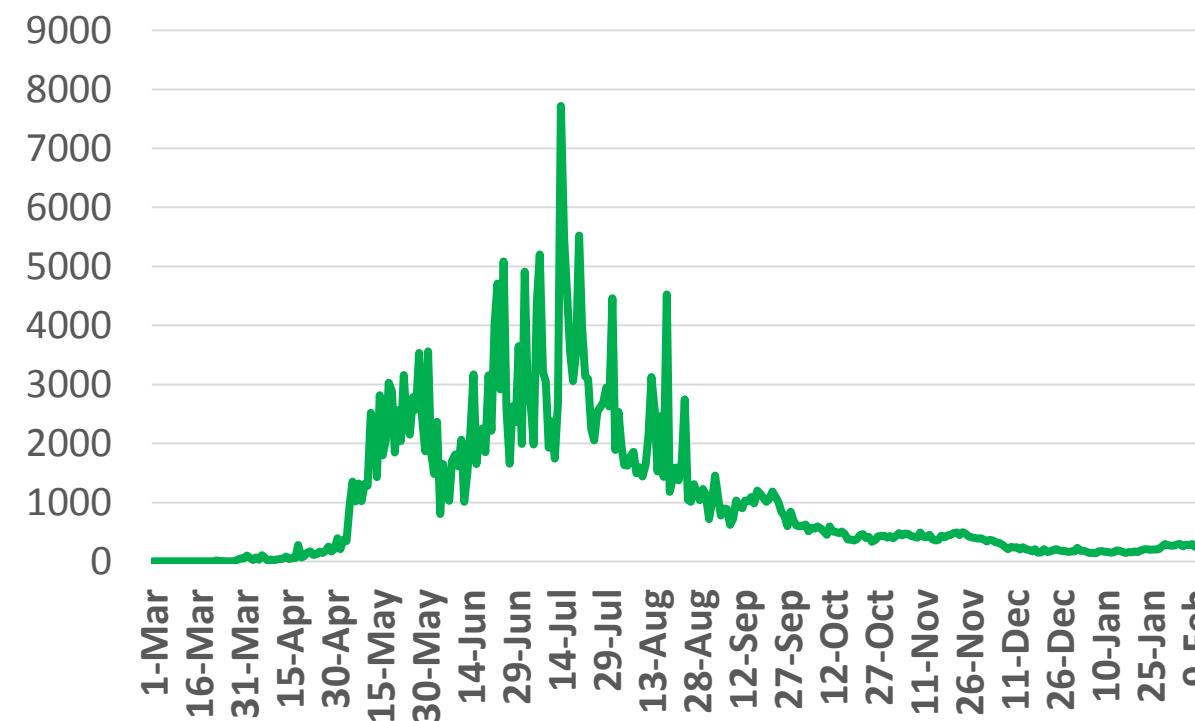
Figure 11: Comparative Analysis of the Distribution of COVID-19 Newly Recovered Cases in GCC Countries

UAE



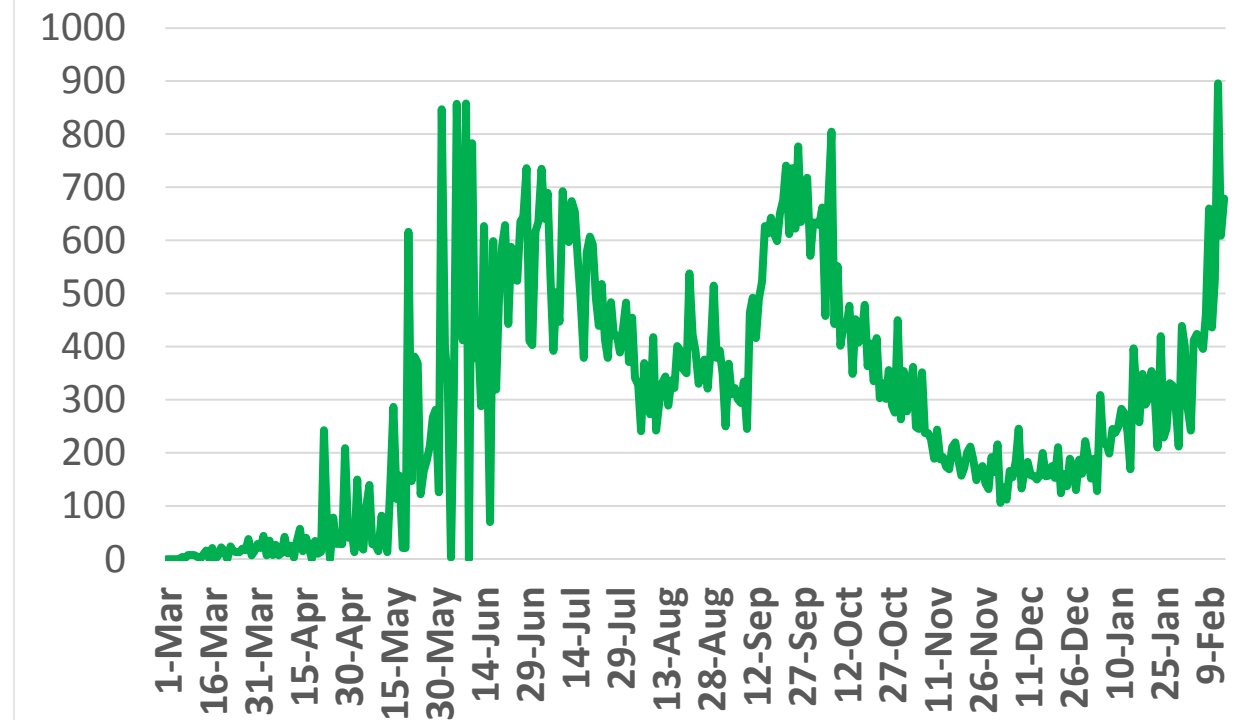
Source : National Emergency Crisis and Disaster Management Authority

KSA



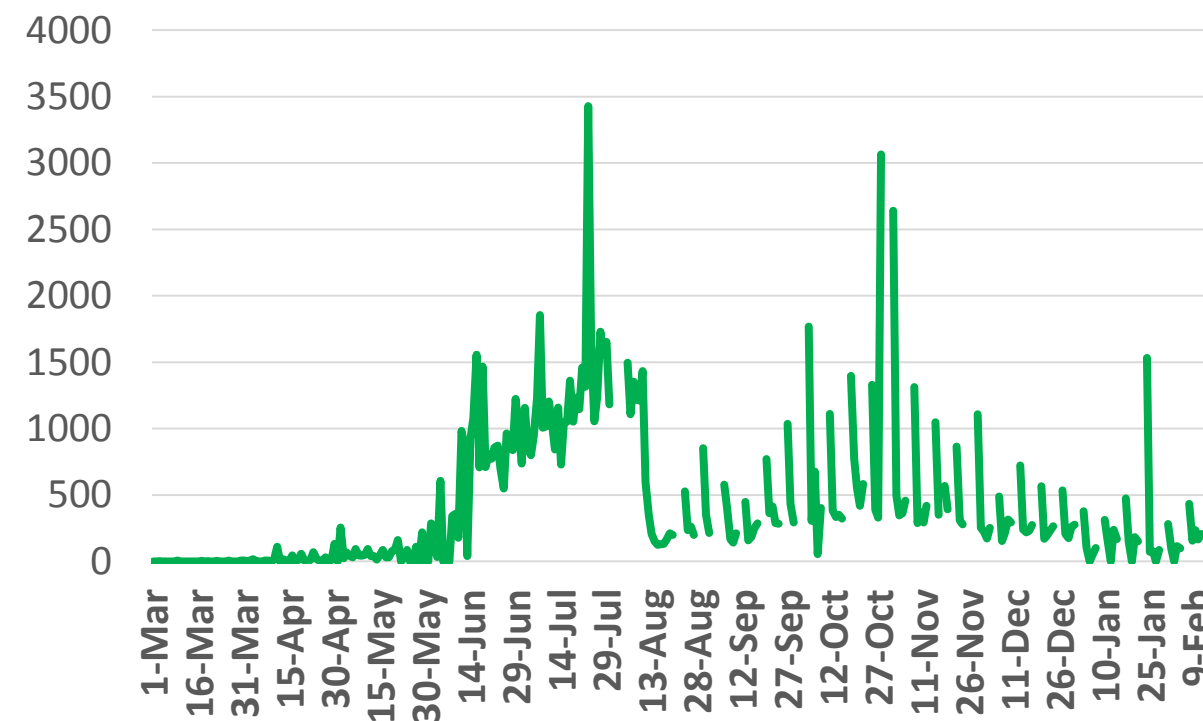
Source : KSA ministry of health

Bahrain



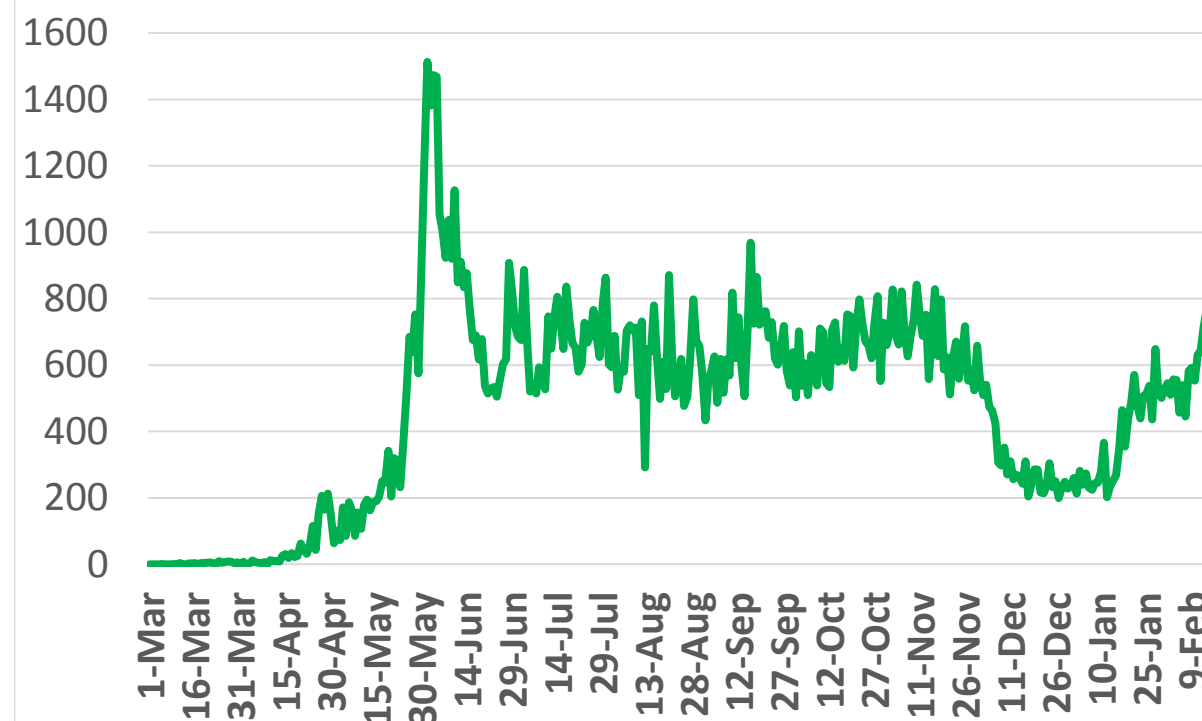
Source : Bahrain ministry of health

Oman



Source : Oman ministry of health

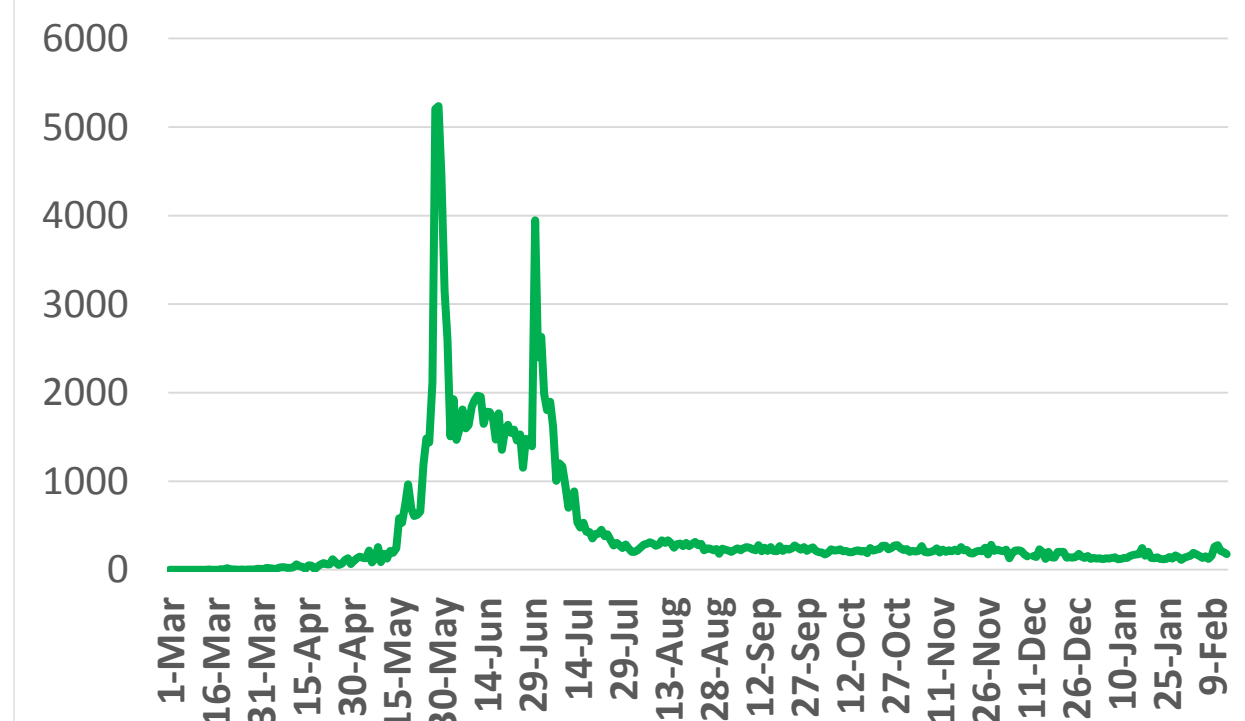
Kuwait



Source : Kuwait ministry of health

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QATAR



Source : Qatar ministry of health

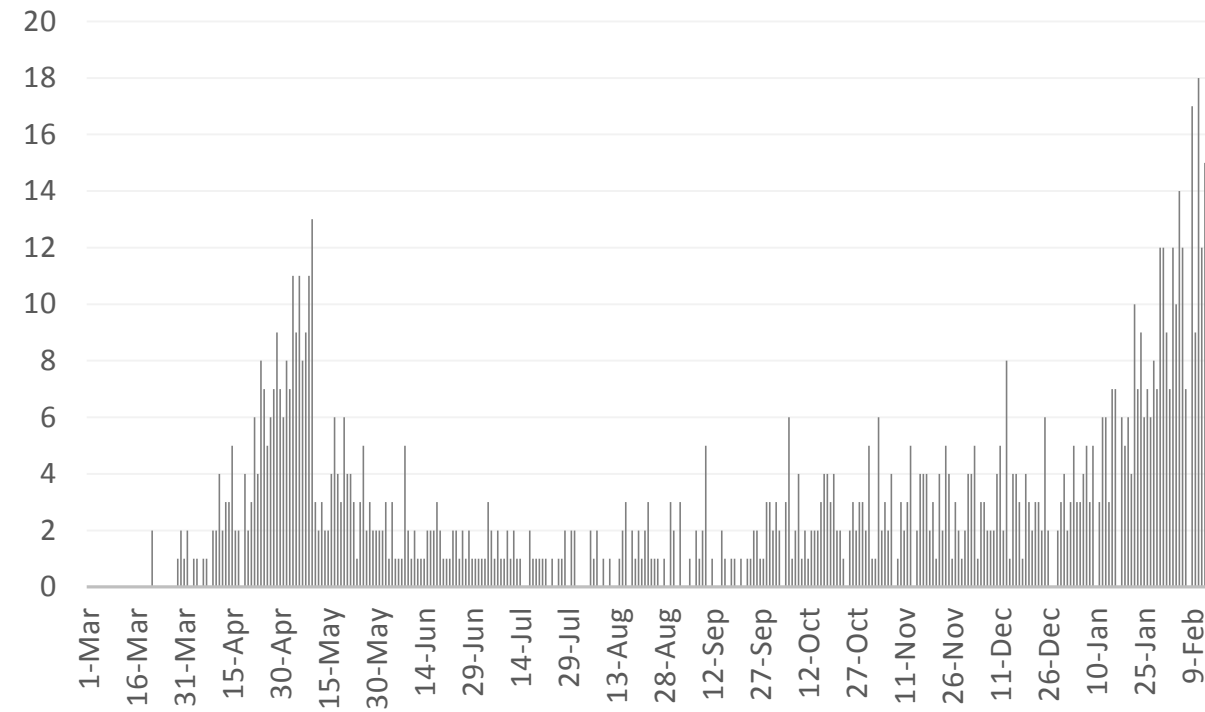
*No announced statistic data from 31 JUL to 4 AUG, 21,23,28,30 AUG 2,4, 5,11,12,18,19,25, 26,30 SEP,1,2,9,10,16,17,23,24,30,21 OCT, 6,7,13,14,17,20,21, 27,28 NOV,4,5,11,12,18,19,25,31 DEC 2020, 1,2,9,10,15,16,22,23,29,30 JAN, 5,5 FEB 2021

*No announced statistic data on weekends and official holidays.



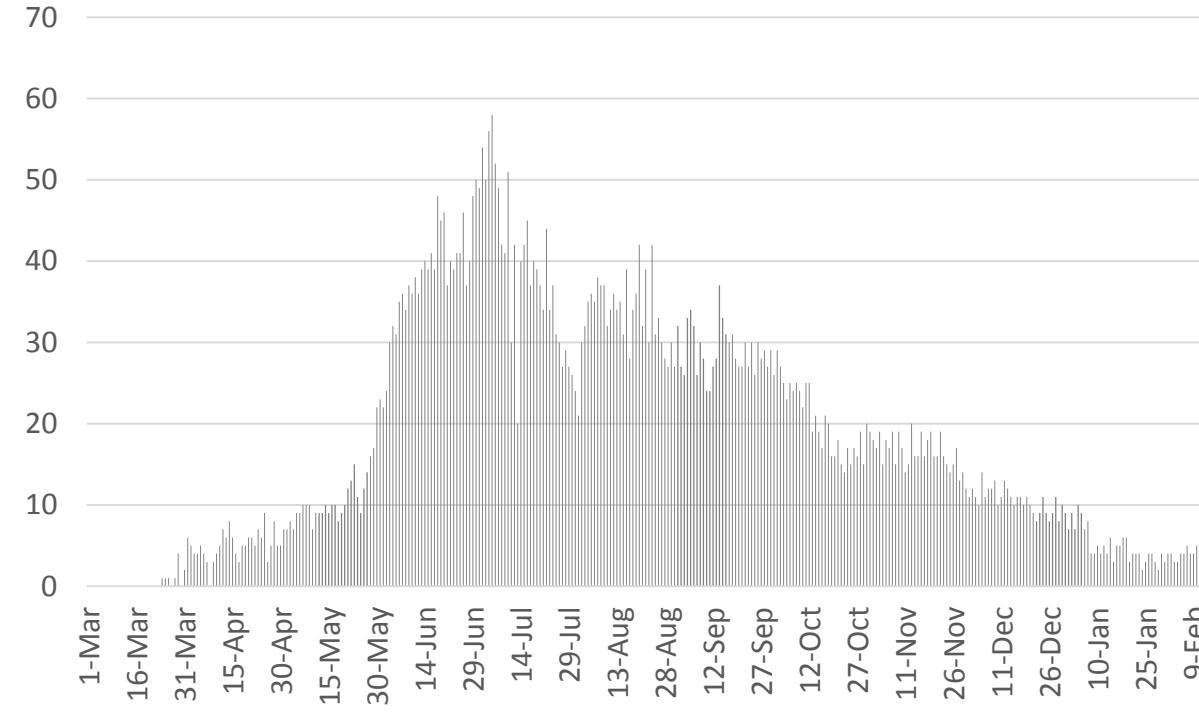
Figure 12: Comparative Analysis of the Distribution of COVID-19 New Death Cases in GCC Countries

UAE



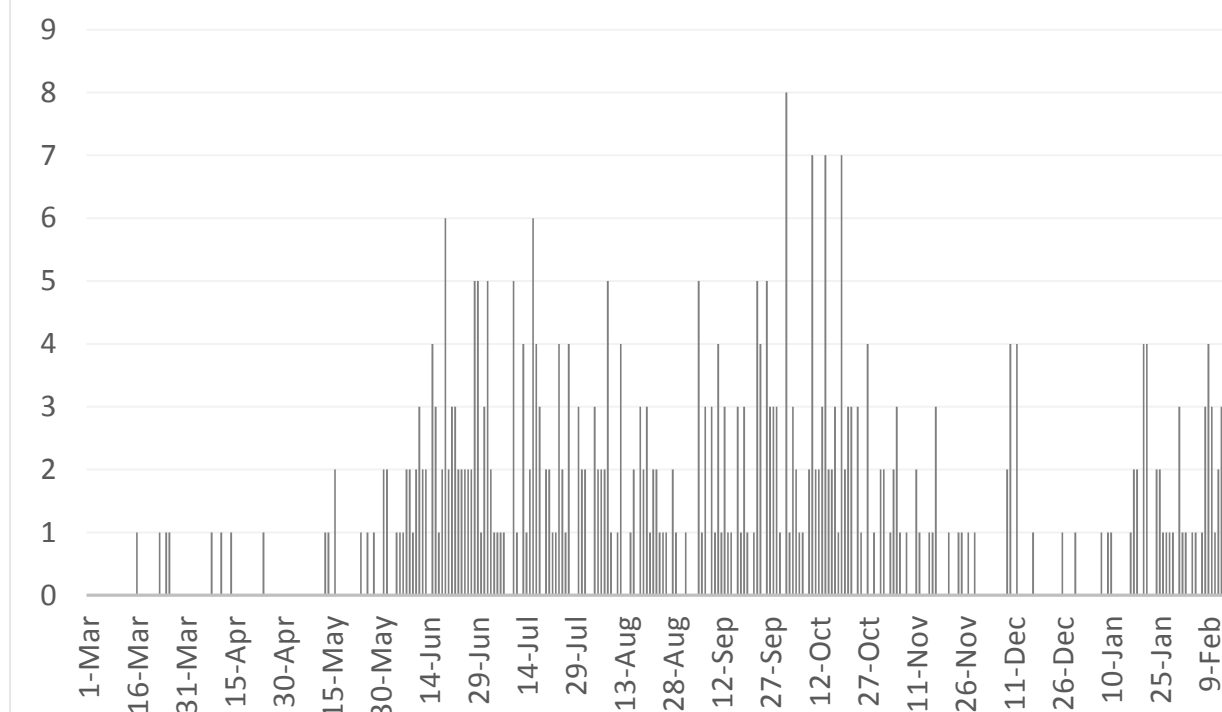
Source : National Emergency Crisis and Disaster Management Authority

KSA



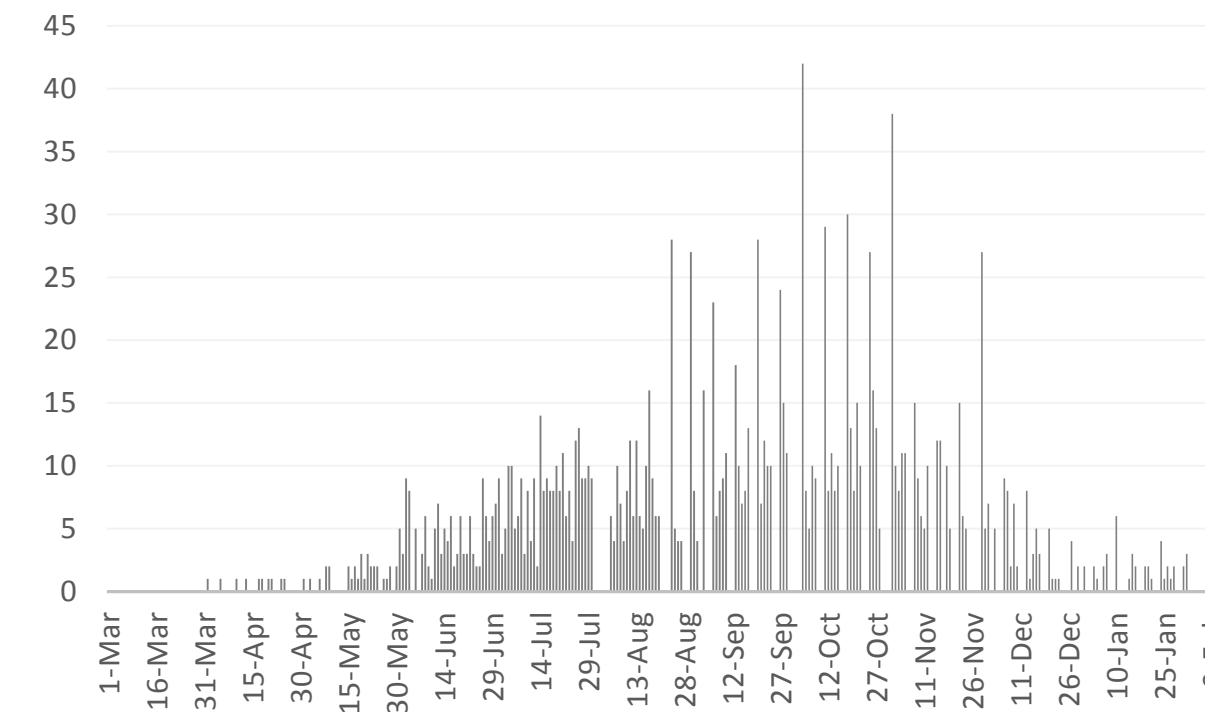
Source : KSA ministry of health

Bahrain



Source :WHO

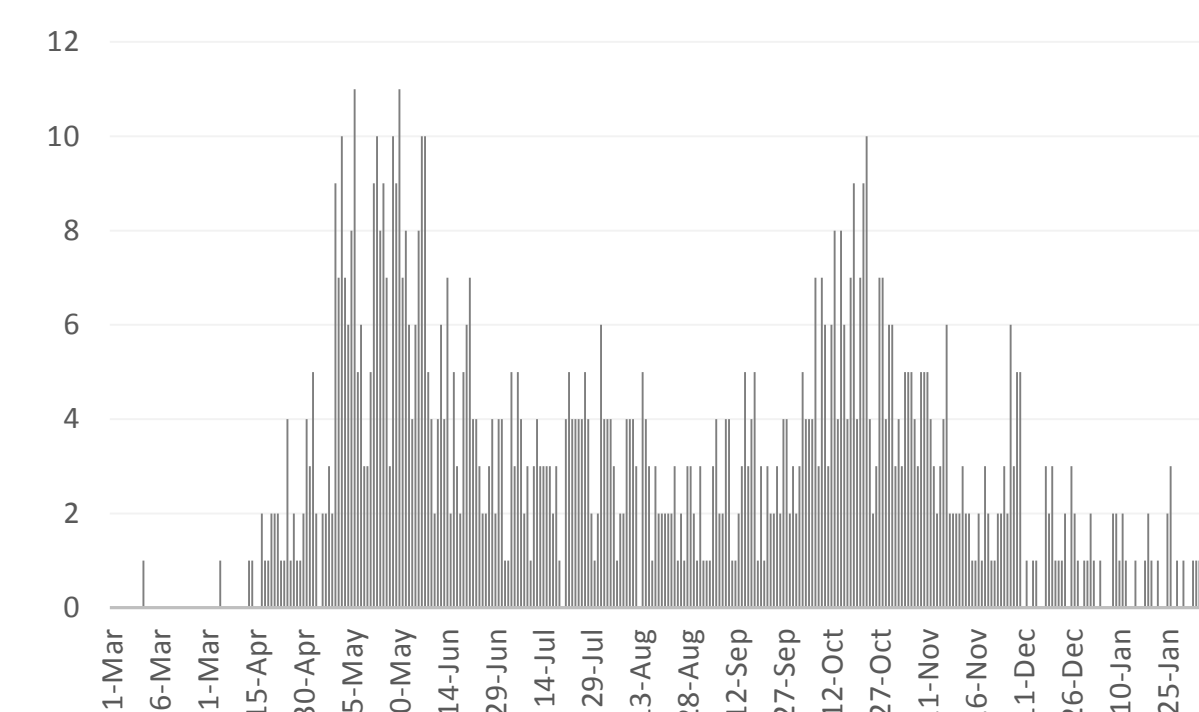
Oman



Source :Oman ministry of health

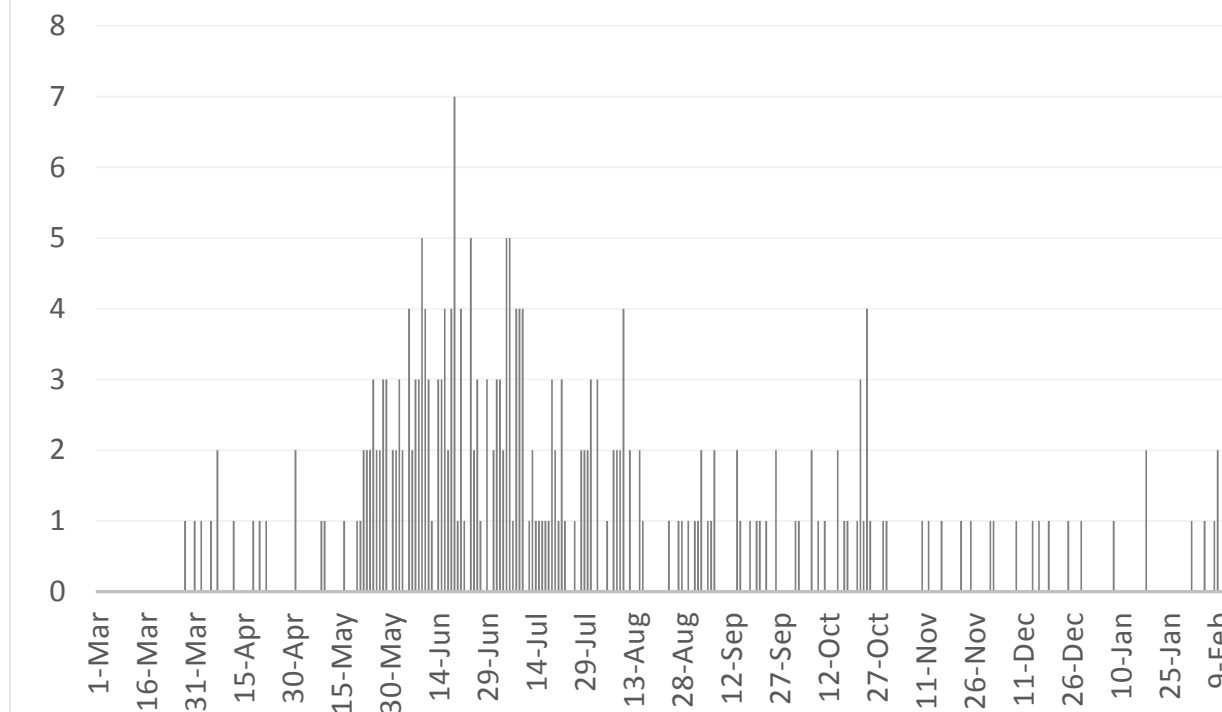
Kuwait

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Source : Kuwait ministry of health

Qatar



Source : Qatar ministry of health

*No announced statistic data from 31 Jul to 4 Aug, 21,23,28,30 Aug 2-4 5,11,12,18,19,25,26,30 Sep,1,2,8,10,16,17,23,24,30 Oct, 6,7,13,14,17,20,21, 27,28 Nov,4,5,11,12,18,19,25,31 Dec 2020, 1,2,9,10,15,16,22,23,29,30 Jan, 5,5 Feb 2021

*No announced statistic data on weekends and official holidays.



REPORT ON THE NEW VARIANTS

Summary in only South African variant of the WHO webinar held on 11/02/2021

WHO AD HOC CONSULTATION COVID VACCINES METHODOLOGICAL APPROACHES TO ASSESS VARIANTS EFFECT ON VACCINE EFFECTS

Updates on the South African variants:

The vaccination impact by 501Y.V2.

| Vaccine name | Lab assays | Clinical efficacy (mild to moderate) | Clinical efficacy to (moderate to severe) | Clinical efficacy to (hospitalized / severe) |
|---|-------------------------|---------------------------------------|--|--|
| J&J | no information | - | 57% | 85% |
| Pfizer | reduction by 1to 3 fold | - | - | - |
| Moderna | reduction by 6.4 fold | - | - | - |
| The GAMALEYA National Center (Sputnik V- Russian) | no information | - | - | - |
| AstraZeneca | reduction by 3-86 fold | 22% | - | - |
| NOVAVAX | no information | 49% | - | - |
| Sinopharm | reduction by 1.6 fold | - | - | - |
| Sinovac | no information | - | - | - |

REPORT ON THE NEW VARIANTS

Summary in only South African variant of the WHO webinar held on 11/02/2021

About reinfection: Do Antibodies in South African 's 1st wave neutralize the 501Y.V2 variant from the 2nd wave?

- **South African participants**
 - In Novavax trial- 31% SA participants had past infection.
 - COVID-19 incidence in seronegative (no past infection)-3.9% (58/1494).
 - COVID-19 incidence in seropositive (past infection) – 3.9% (26/674).
- **Convalescent sera from 44 South Africans infected in 1st wave, 90% showed REDUCED immunity & 48% have complete immune scape to 501Y.V2.**
- **The AstraZeneca vaccine have been replace with J&J vaccine in South Africa**

THANK YOU

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