

ABU DHABI PUBLIC
HEALTH CENTRE

مركز أبوظبي
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Scientific Research Monitoring on COVID-19

13 March 2020

Summary on COVID19



SARS-COV2 virus

- The virus have been sequenced and found to be similar to MERS-CoV and SARS-CoV. Research revealed that the virus originated in a bat reservoir.
- New designation for the disease and the virus: COVID-19 and SARS-COV2.
- Human coronavirus remains on inanimate surfaces such as metal or glass for up to 9 days, but can be efficiently inactivated by disinfection, suggesting that effects on SARS-CoV2 could be similar.
- Two strain have been identified for SARS-COV2 (L type (more aggressive) and S type .

Transmission

- Transmission from human to human has been confirmed. Incubation period ranges from 5 days and can reach up to 14 days.
- Suggested human-to-human transmission occurs through droplets, contact and fomites, similar to Severe Acute Respiratory Syndrome (SARS).
- Isolation is the best measure to control transmission.

Clinical features and outcome

- Non-specific and the disease presentation can range from no symptoms (asymptomatic) to severe pneumonia and death.
- Highest risk for severe disease and death include people aged over 60 years and those with underlying conditions
- Pregnant women infected with SARS-COV2 may experience symptoms similar to those of non-pregnant adults. No evidence suggests transmission from mother to newborn if infected late in pregnancy. No evidence of transmission through breast milk.

Therapies and vaccination

- Efforts currently in developing therapies for this virus focus on previously known medications and vaccination for MERS-CoV and SARS-CoV. In addition to other type of medication.
- WHO forum held 11-12 Feb 2020 to mobilize research on COVID19 vaccinations and therapies.

Summary on COVID19 (Cont.)

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COVID19 in figure

- 80% of laboratory confirmed patients have had mild to moderate disease
- 13.8% have severe disease.
- 6.1% are critical
- Children account for 2.4% of all reported cases.(less than 19 years)

Today's Highlights



All articles presented in this report represent the authors' views and not necessarily represent Abu Dhabi Public Health Center views or directions.

Scientific Research

- None for today.

*Due to abundant COVID19 information resources and given the urgent need to keep up with the updates .Below is a cluster of other academic articles for interested reviewer.
Listed articles may represent information that has been previously shared in the report and/or may target specific technical audience.*

Others

- [Co-infection of SARS-CoV-2 and HIV in a patient in Wuhan city, China](#)
- [Identification of Coronavirus Sequences in Carp cDNA from Wuhan, China](#)
- [From SARS and MERS CoVs to SARS-CoV-2: moving toward more biased codon usage in viral structural and non-structural genes](#)
- [ISUOG Interim Guidance on 2019 novel coronavirus infection during pregnancy and puerperium: information for healthcare professionals](#)
- [COVID-19 and psoriasis: is it time to limit treatment with immunosuppressants? A call for action](#)
- [Where are we now with COVID-19?](#)
- [Harnessing the immune system via FcγR function in immune therapy: A pathway to next-gen mAbs](#)



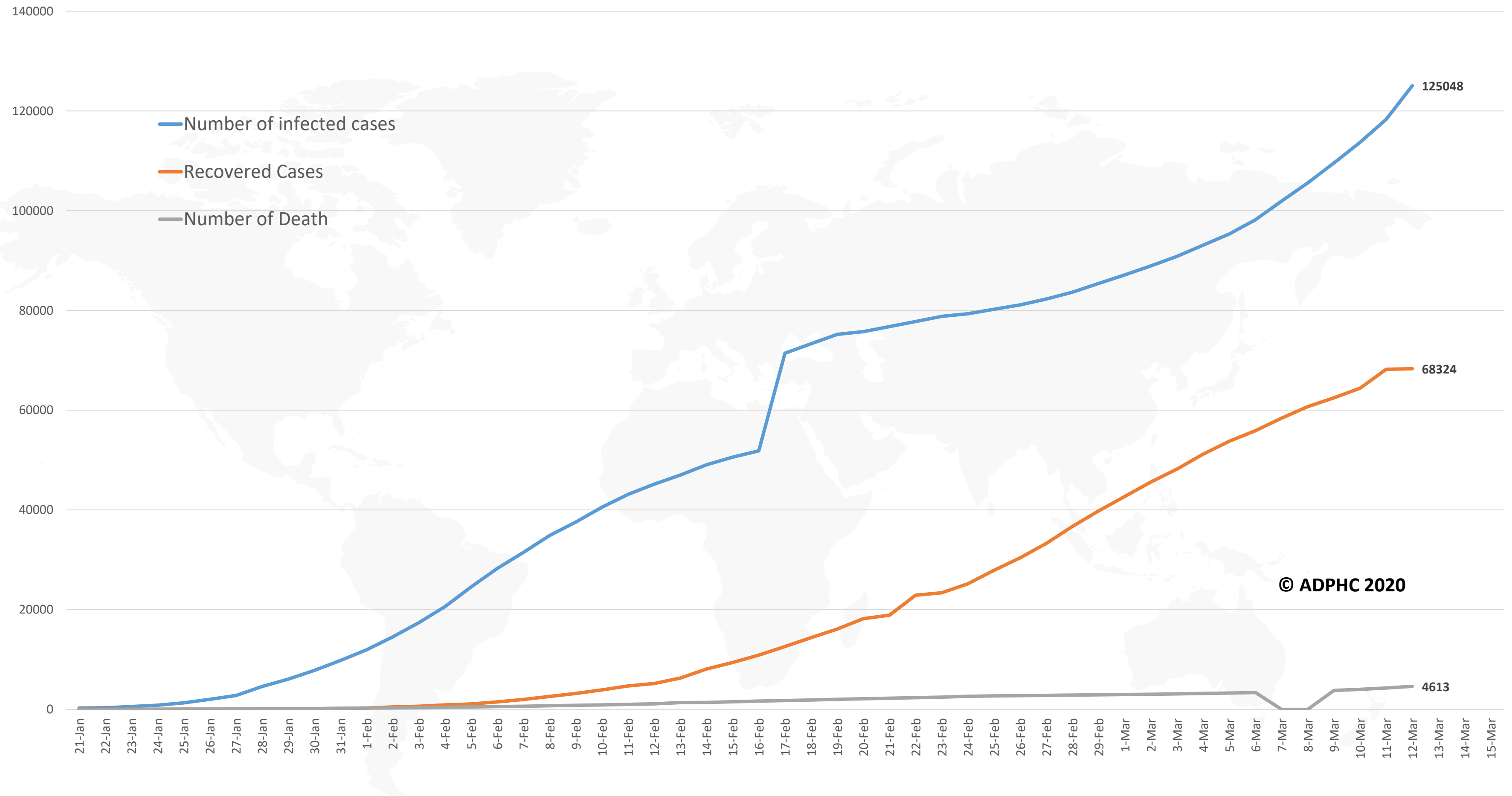
12th March 2020

- Four new countries/territories/areas (French Polynesia, Turkey, Honduras and Côte d'Ivoire) have reported cases of COVID-19 in the past 24 hours.
- The Clinical Unit continues to convene clinicians around the globe, twice weekly by teleconference (COVID-19 Clinical Network) to share knowledge and experiences from clinicians caring for COVID-19 patients and highlight operational challenges and technical questions.
- There are over 30 countries represented on this call.
- the Clinical unit is regularly updating other products for clinical case management:
 - The updated **Clinical Management Guidance for COVID-19. To be released on 13 March 2020.**
 - The **WHO Clinical Care Training materials** continue to be available on openwho.org.
 - The Global COVID-19 **Clinical Data Platform continues to collect core clinical data from hospitalized patients** .
 - At the Member States information session held today, WHO Director-General reiterated that countries should not give up on stopping the outbreak now that WHO has characterized it as a pandemic. A shift from containment to mitigation would be wrong and dangerous. **This is a controllable pandemic.**
- On 11 March, ICAO and WHO issued a joint statement to remind all stakeholders of the importance of existing regulations and guidance.

Epidemiology



Figure 1: Total number of infected, recovered, and death cases (January 21st to March 12th, 2020)



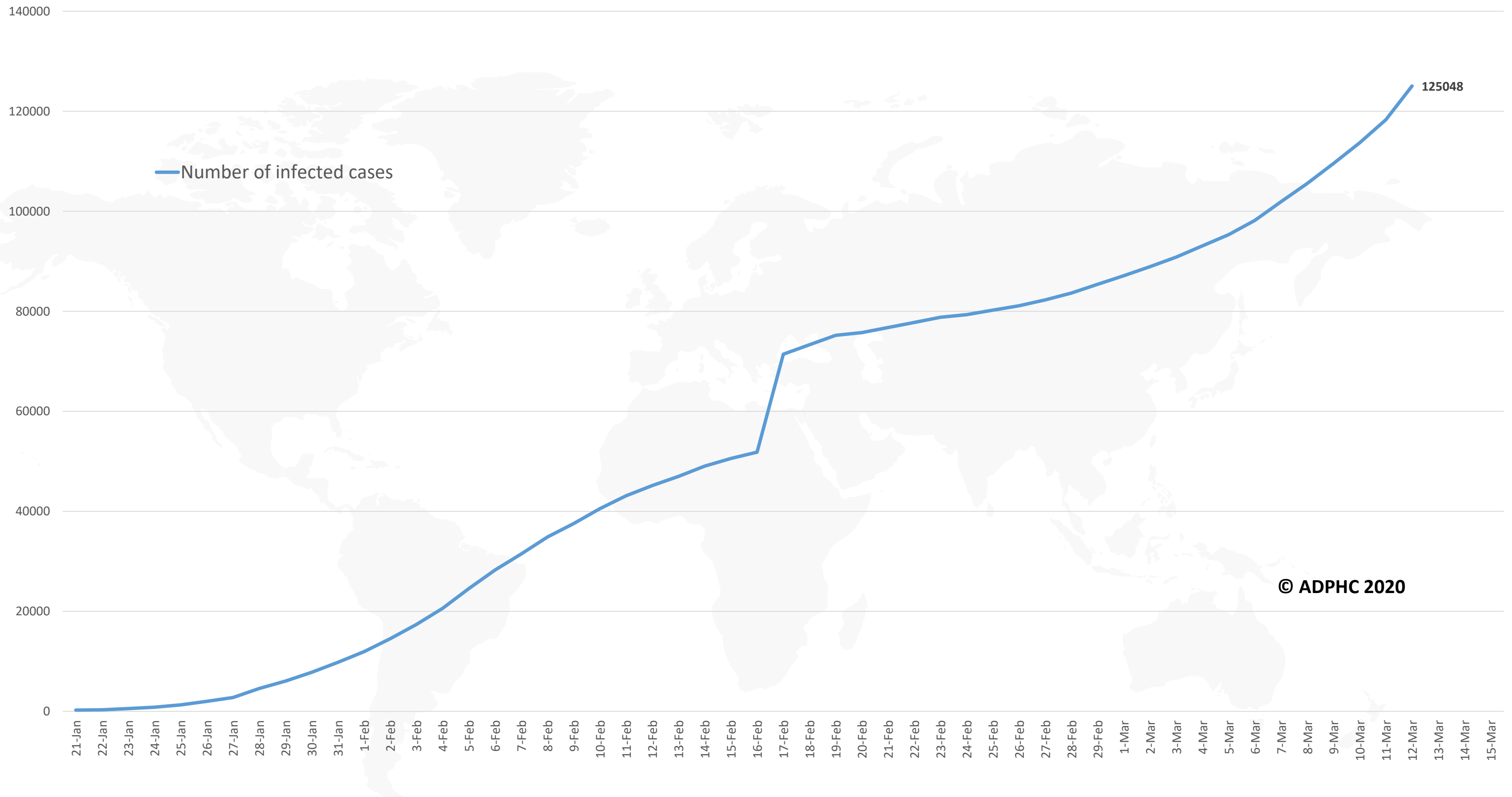
Line graph published by Abu Dhabi Public Health Center 2020.

Data resources: [WHO](#)

Epidemiology



Figure 2: Number of infected COVID-19 cases worldwide (January 21 to March 11, 2020).

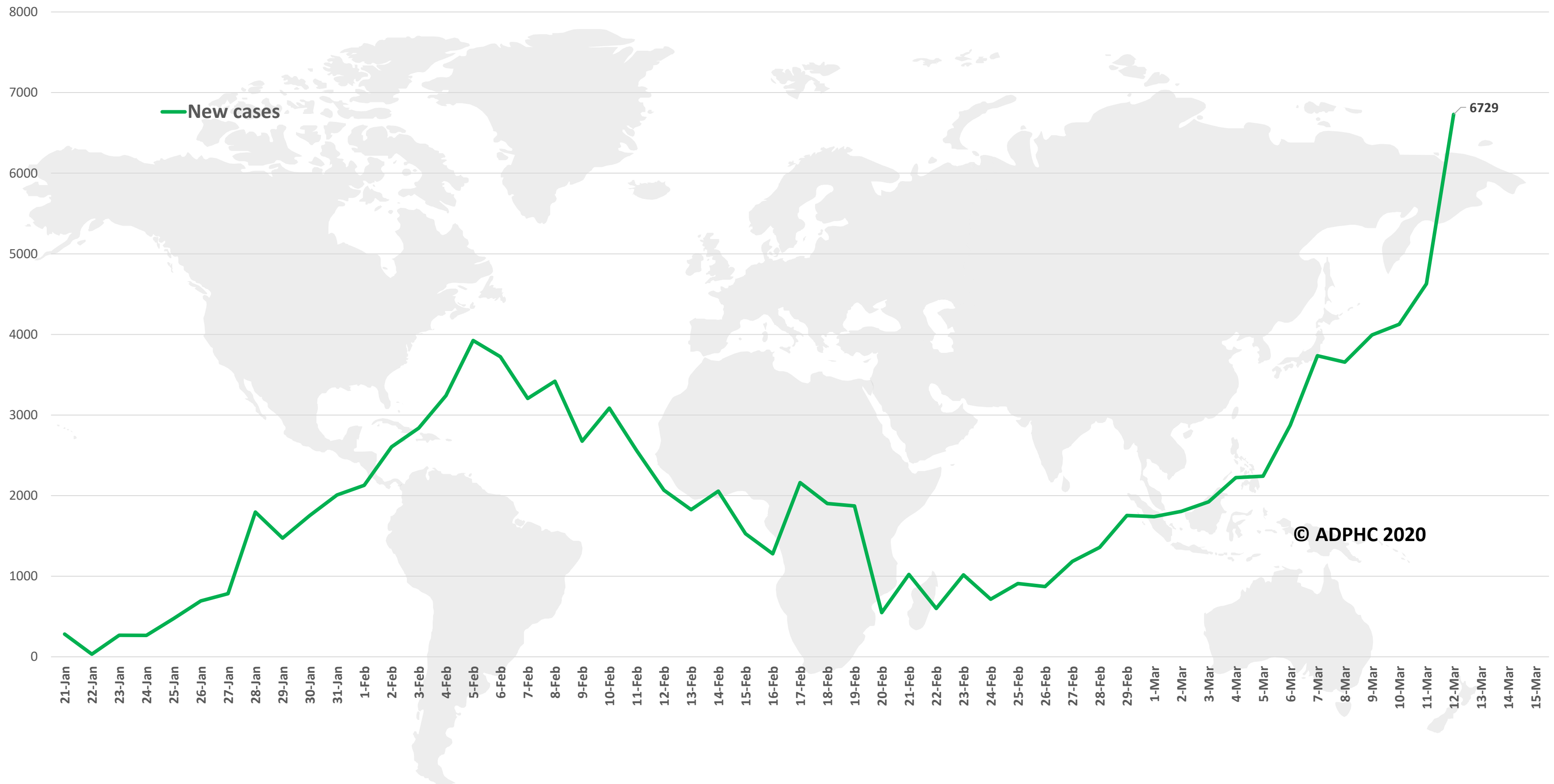


Line graph published by Abu Dhabi Public Health Center 2020.

Data resources: [WHO](#)



Figure 3: Daily new infected COVID-19 cases worldwide (January 21 to March 12, 2020).

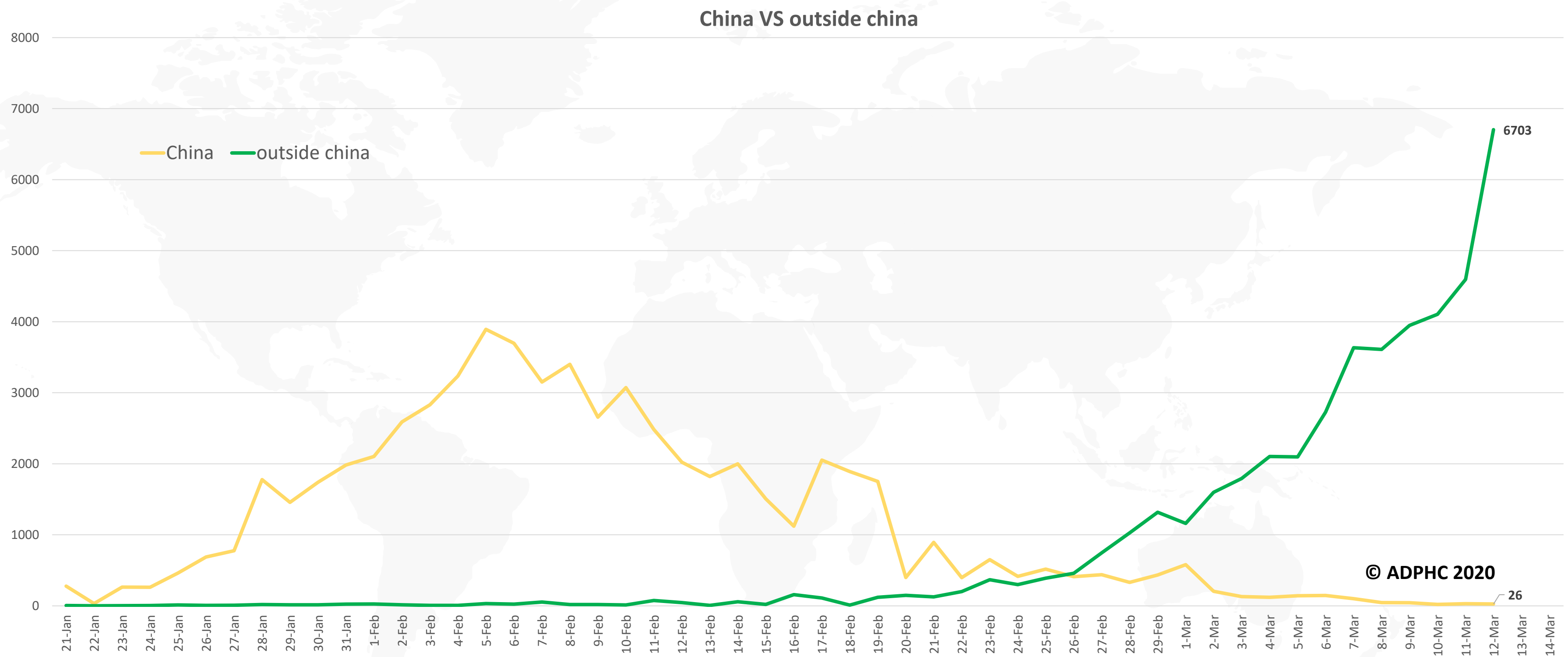


Line graph published by Abu Dhabi Public Health Center 2020.

Data resources: [WHO](https://www.who.int/)



Figure 4: Daily new infected COVID-19 cases reported by China and the rest of the world (January 21 to March 12, 2020).



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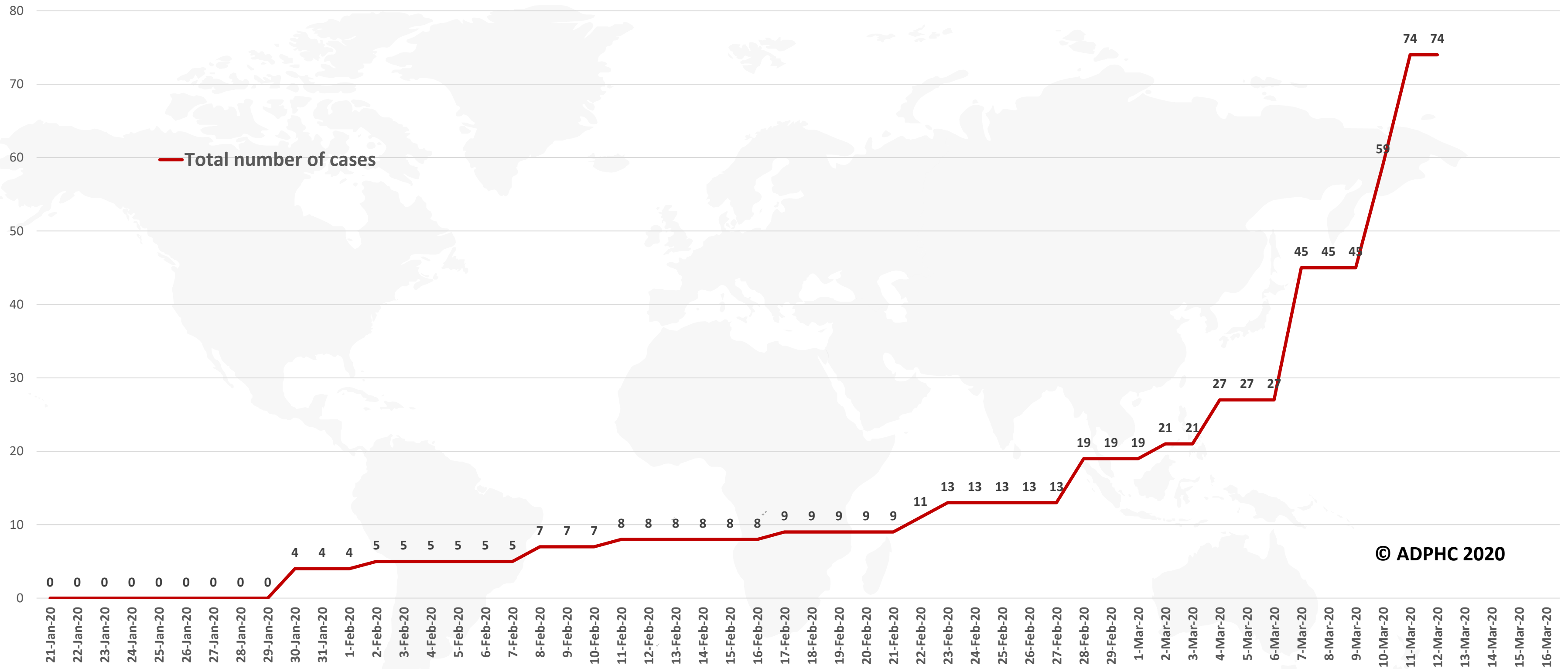
Line graph published by Abu Dhabi Public Health Center 2020.

Data resources: [WHO](http://www.who.int)

Epidemiology



Figure 5: Total number of COVID-19 cases in UAE over time



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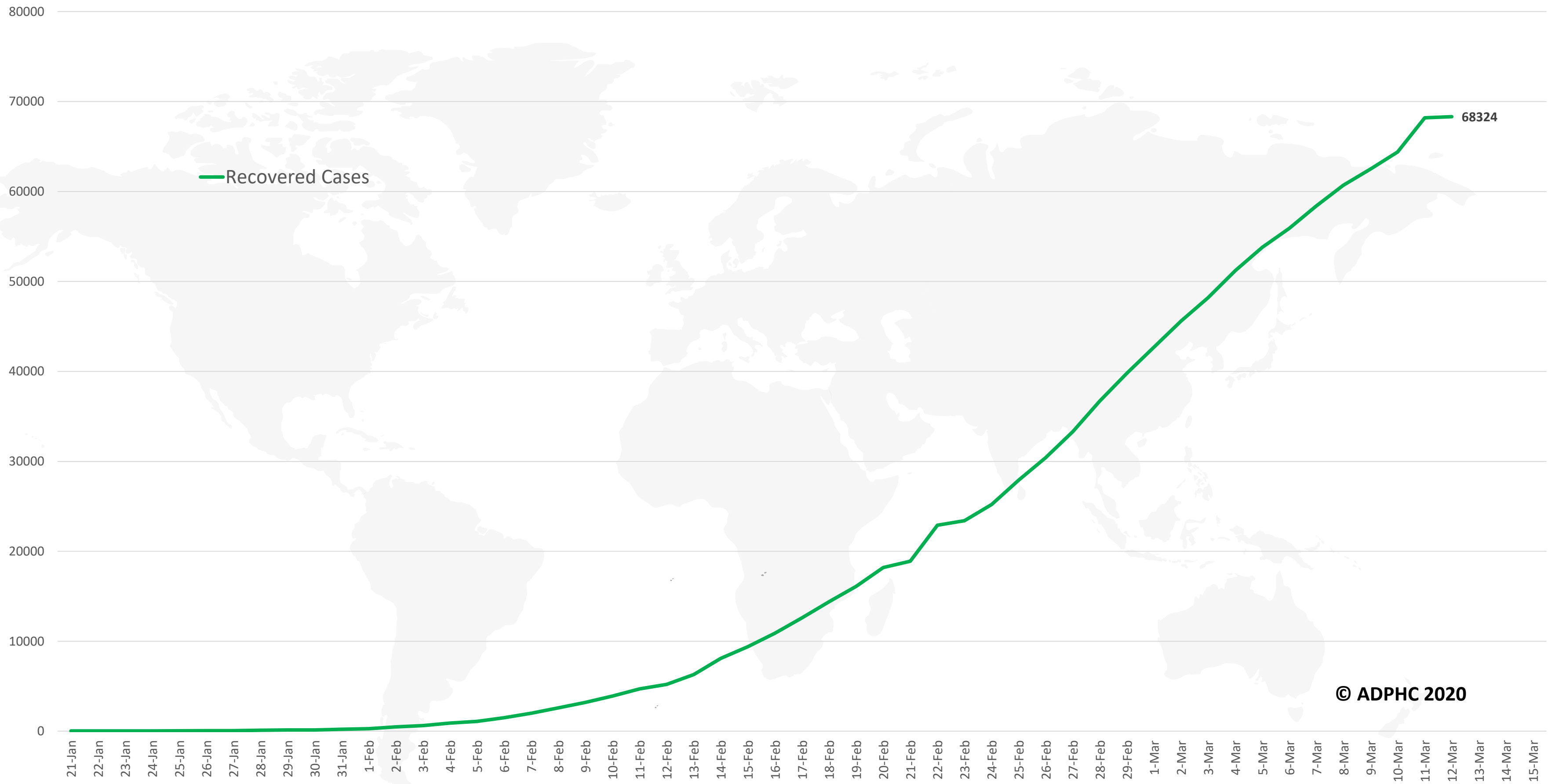
Line graph published by Abu Dhabi Public Health Center 2020.

Data resources: [WHO](http://www.who.int)

Epidemiology



Figure 6: Number of recovered COVID-19 cases worldwide (January 21 to March 12, 2020).



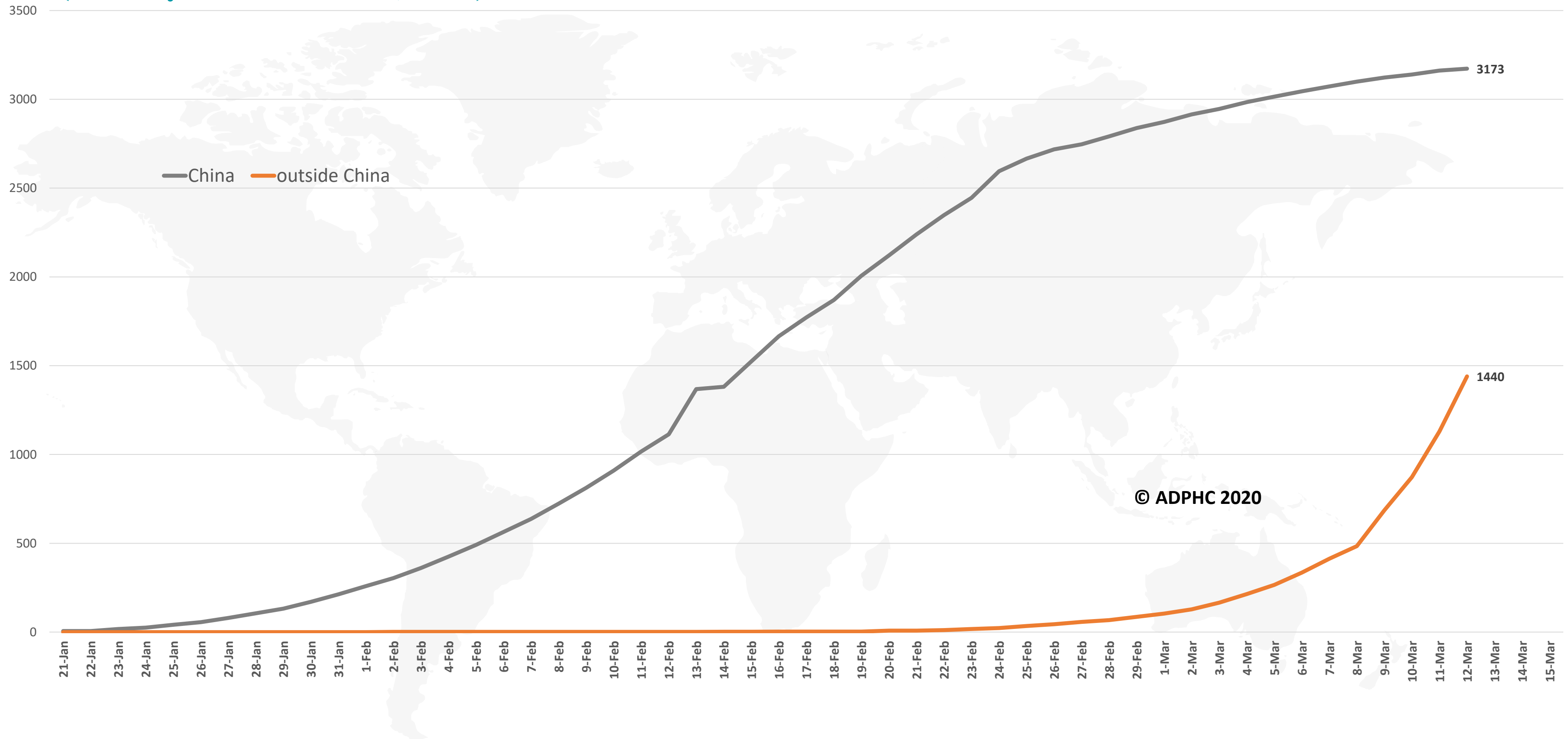
Line graph published by Abu Dhabi Public Health Center 2020.

Data resources: [John Hopkins University](#)

Epidemiology



Figure 7: Daily number of death due to COVID-19 reported by China and the rest of the world (January 21 to March 12, 2020).



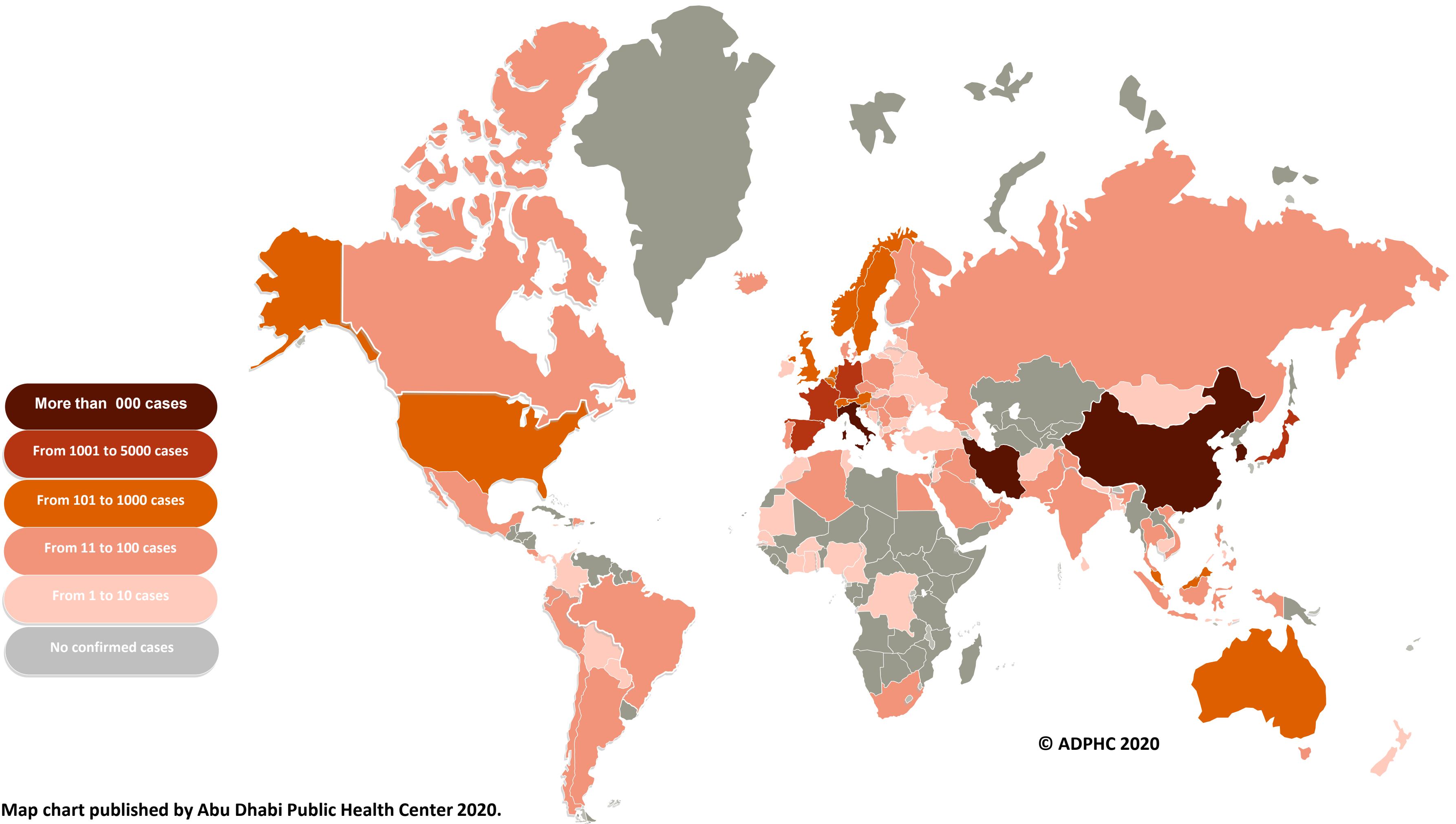
Line graph published by Abu Dhabi Public Health Center 2020.

Data resources: [WHO](https://www.who.int)

Epidemiology



Figure 8A: Global distribution of COVID-19 cases (January 21 to March 12, 2020).

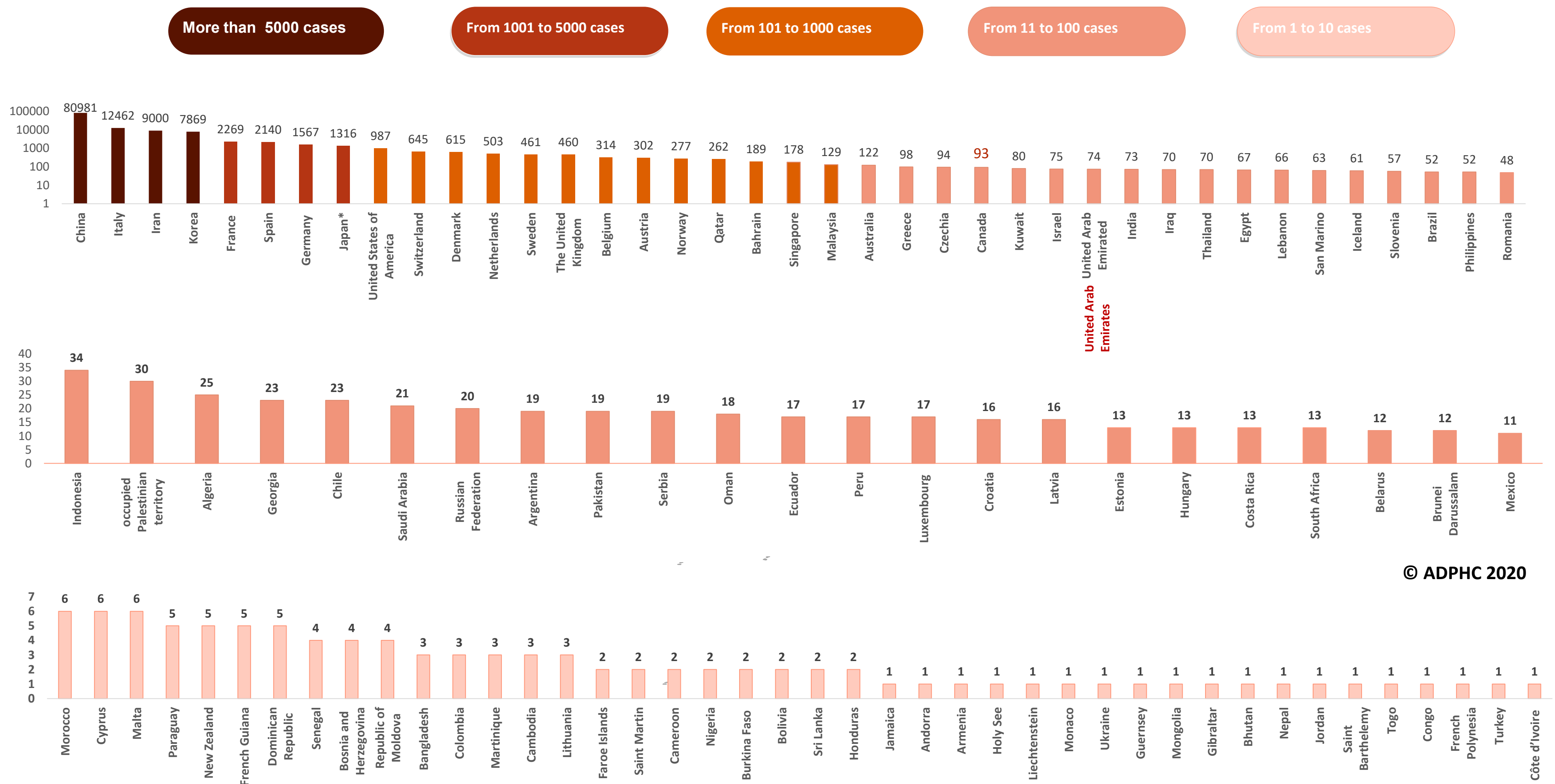


Map chart published by Abu Dhabi Public Health Center 2020.

Epidemiology



Figure 8B: Bar chart illustrate the global distribution of COVID19 cases (January 21st to March 12th, 2020)

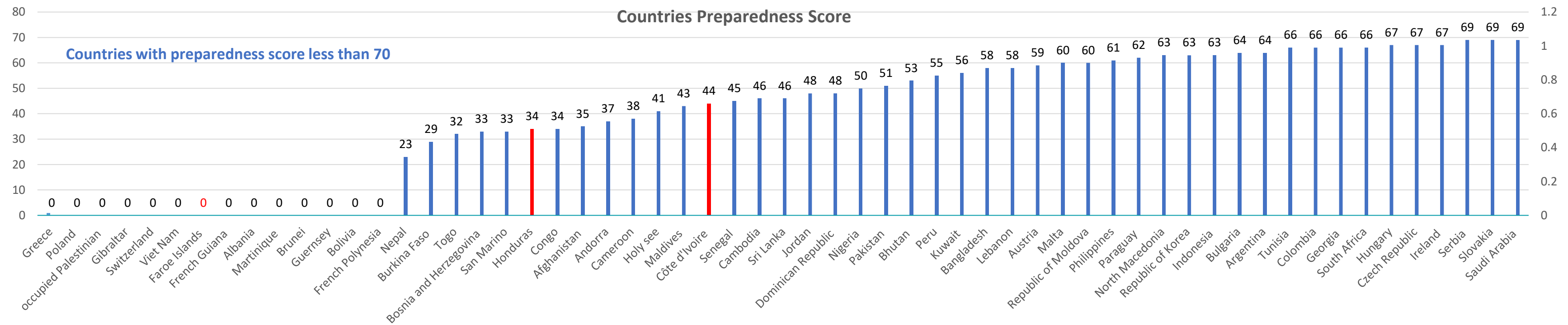


Map chart published by Abu Dhabi Public Health Center 2020.

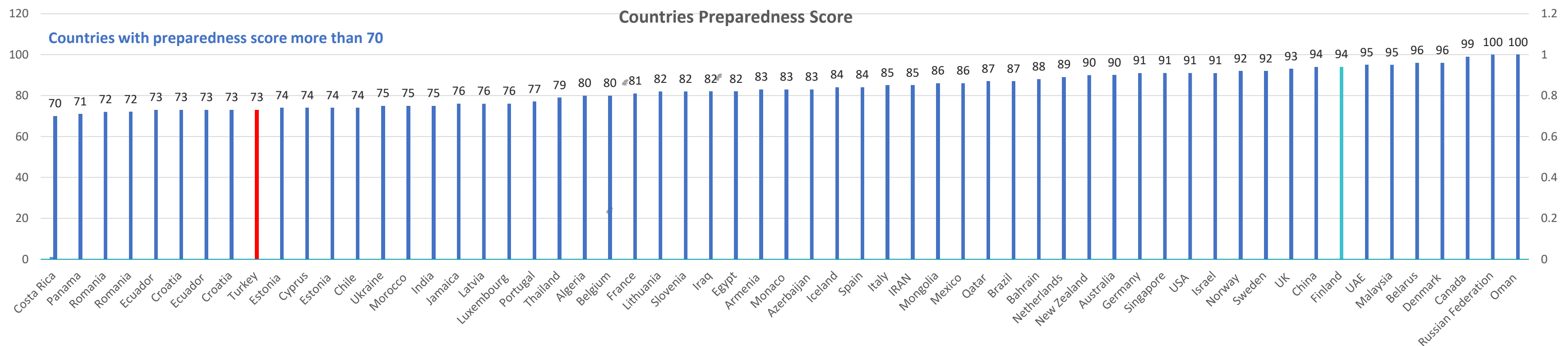


Figure 9 : Countries capacities to report COVID-19 cases

Figure 9A: Countries' preparedness score in responding to Public health risks and acute events. *



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Line graph published by Abu Dhabi Public Health Center 2020.

Data resources : [SPAR score](#) , [IDVI score](#)

* Published in 2018

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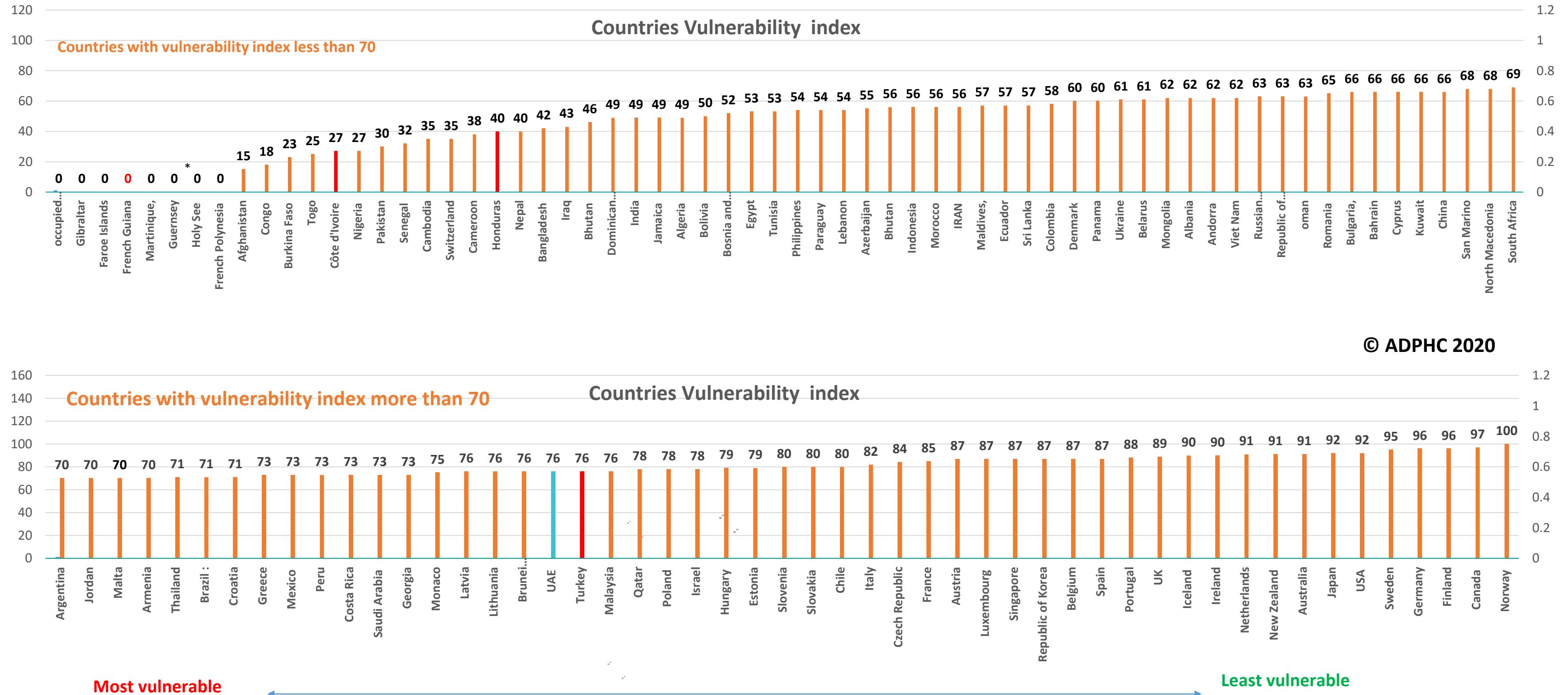
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Figure 9: Countries capacities to report COVID-19 cases

Figure 9B: Countries' vulnerability index to spread infectious disease. *



* No available data on those countries.

Line graph published by Abu Dhabi Public Health Center 2020.

Data resources : [SPAR score](#) , [IDVI score](#)

* Published in 2016