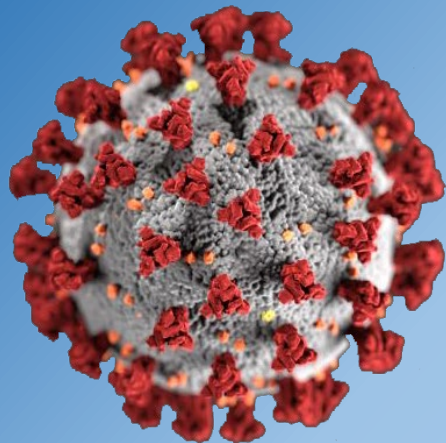


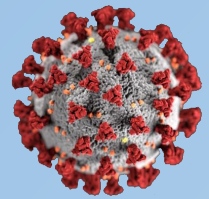
Spain

Lessons Learned: A Global Perspective



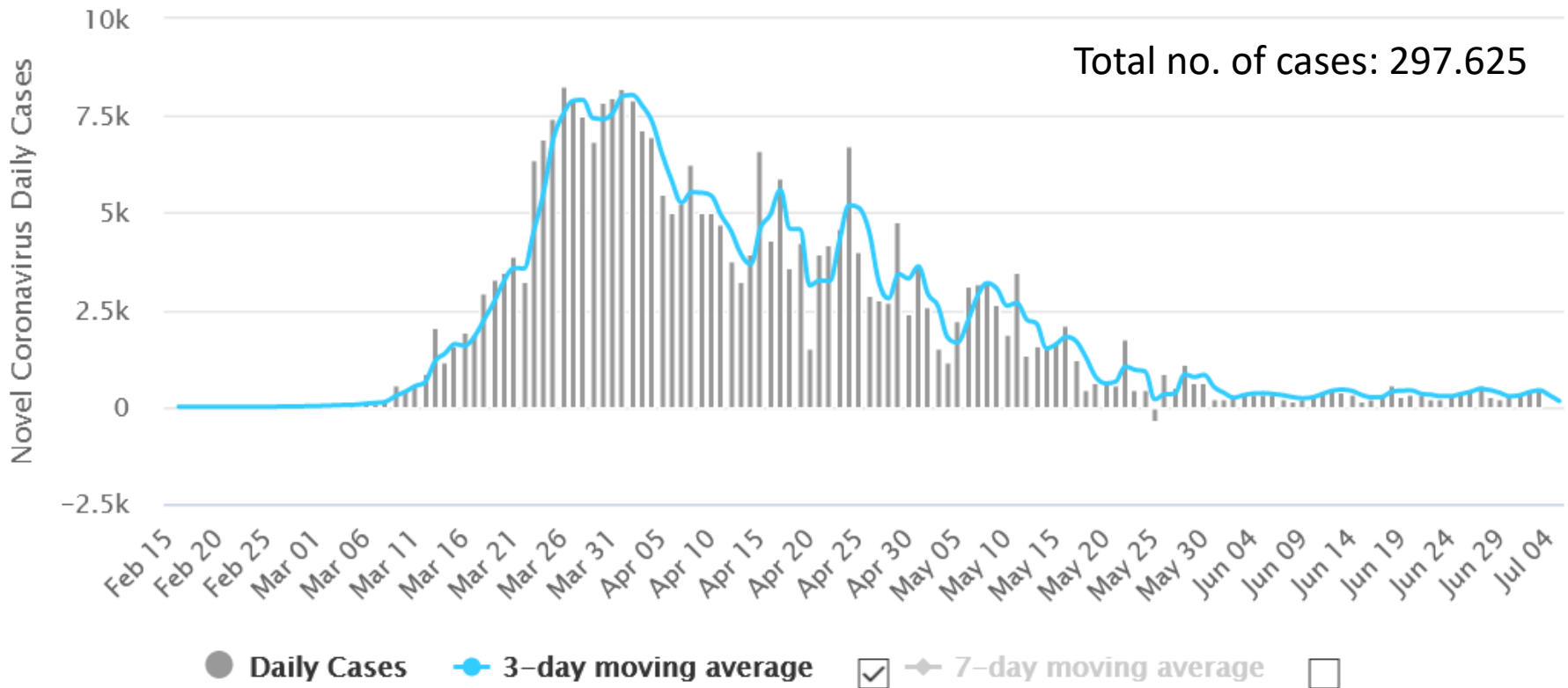
Jesús Rodríguez-Baño, MD, PhD, FESCMID
University Hospital Virgen Macarena, University of Sevilla
Biomedicines Institute of Sevilla (IBiS)
Spanish Network for Research in Infectious Diseases (REIPI)

Spain, daily new cases, July 2020

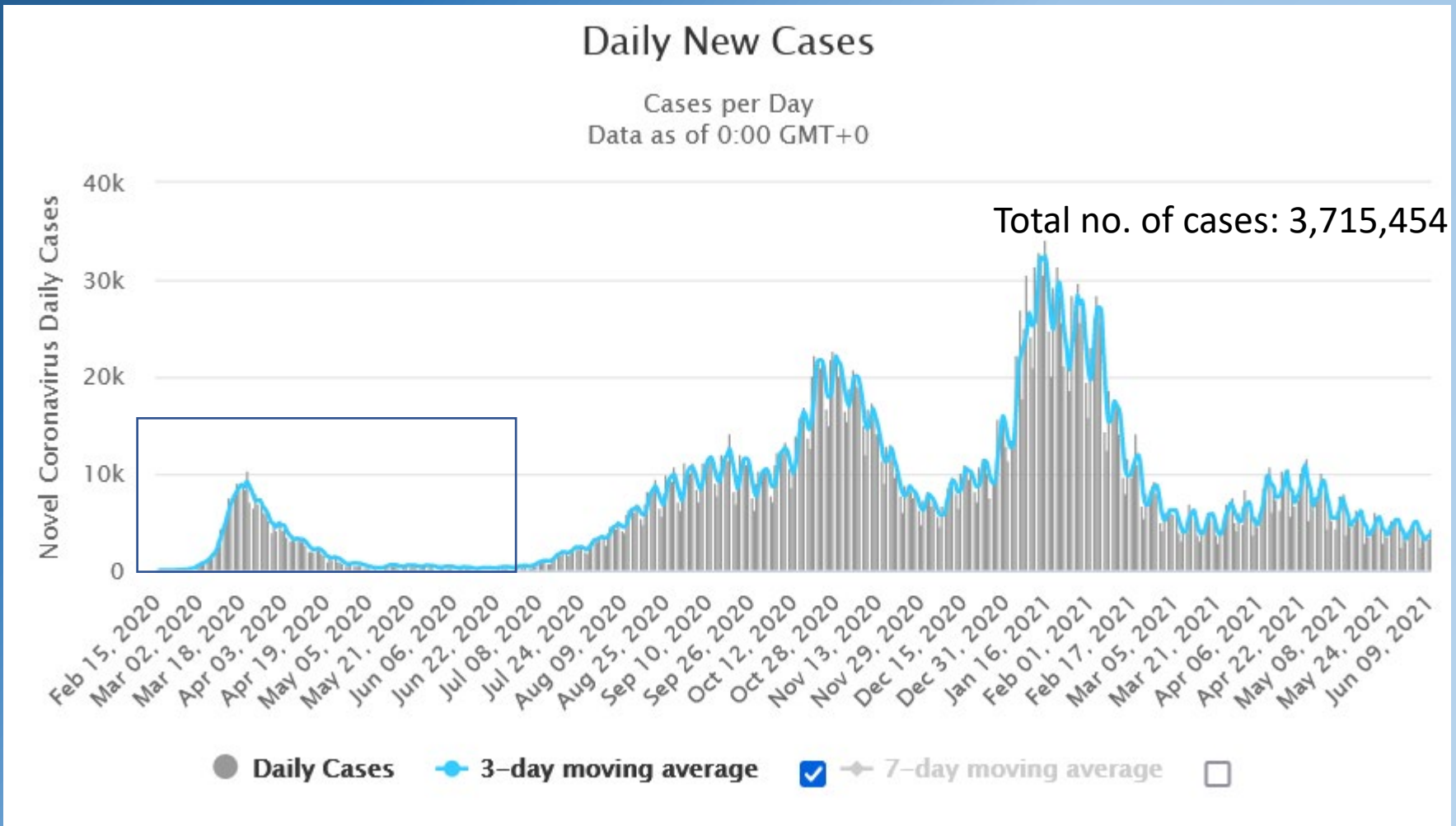
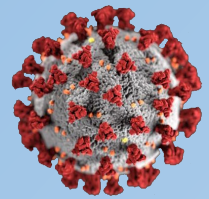


Daily New Cases

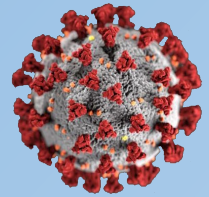
Cases per Day
Data as of 0:00 GMT+0



Spain, daily new cases, June 2021

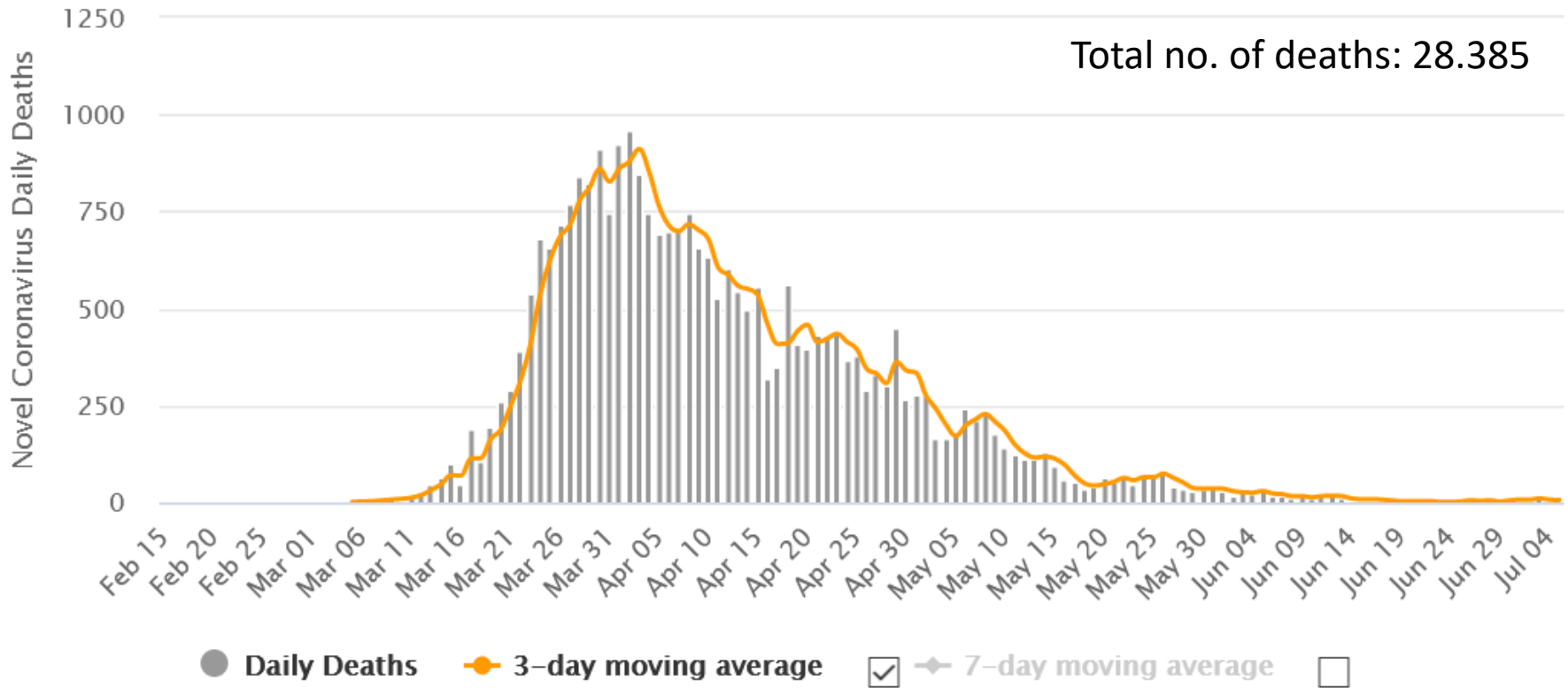


Spain, daily deaths, July 2020

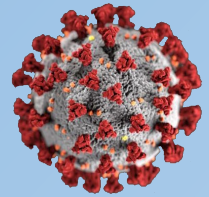


Daily Deaths

Deaths per Day
Data as of 0:00 GMT+8

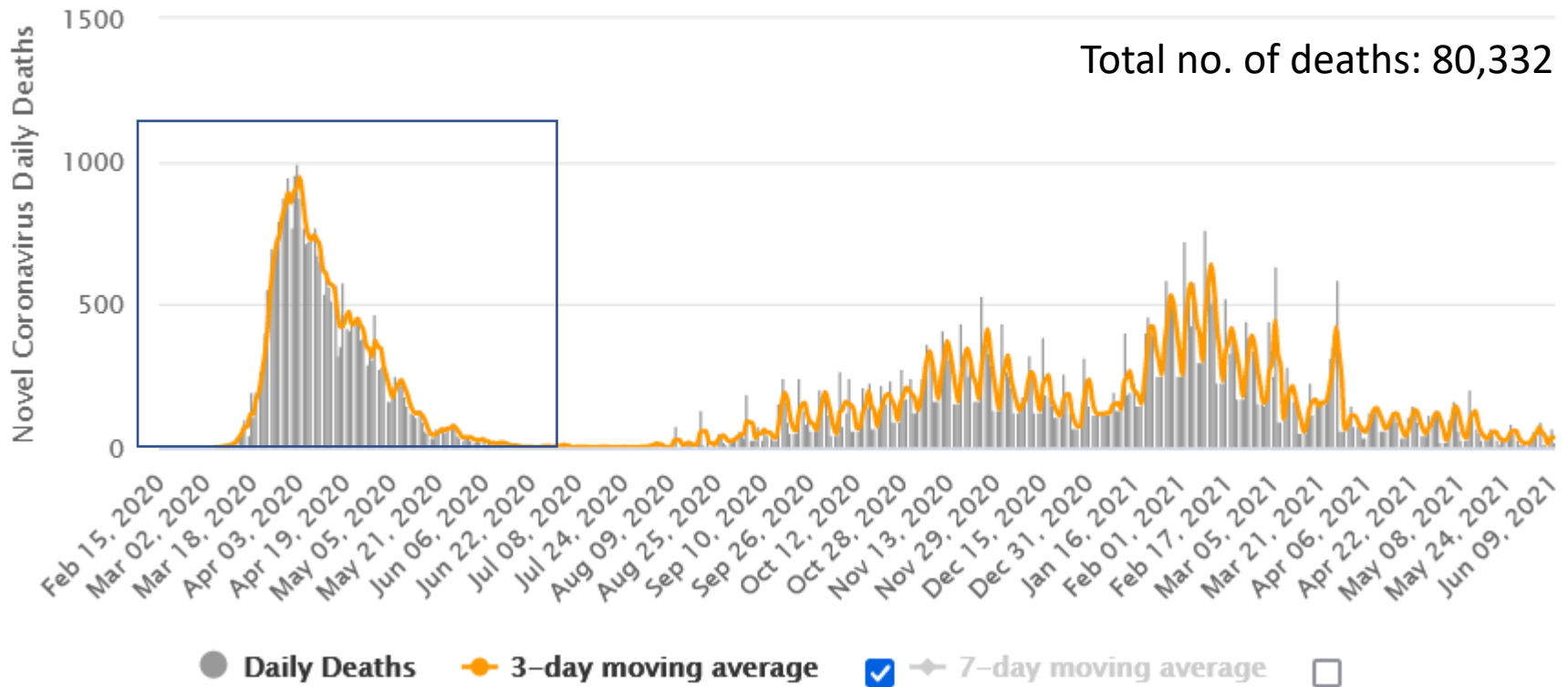


Spain, daily deaths, June 2021



Daily Deaths

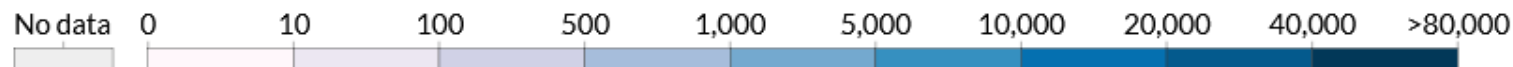
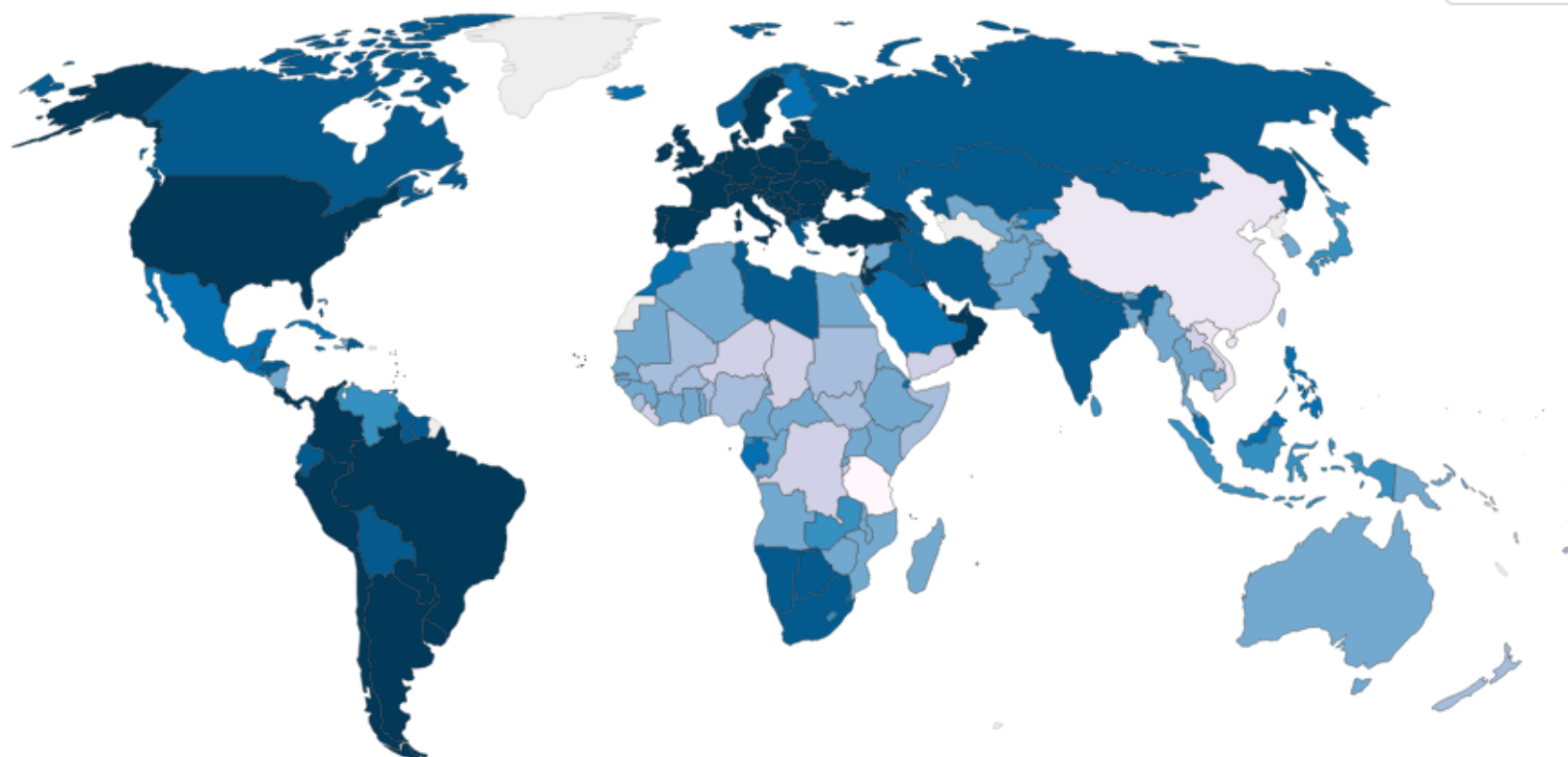
Deaths per Day
Data as of 0:00 GMT+8



Cumulative confirmed COVID-19 cases per million people, Jun 9, 2021

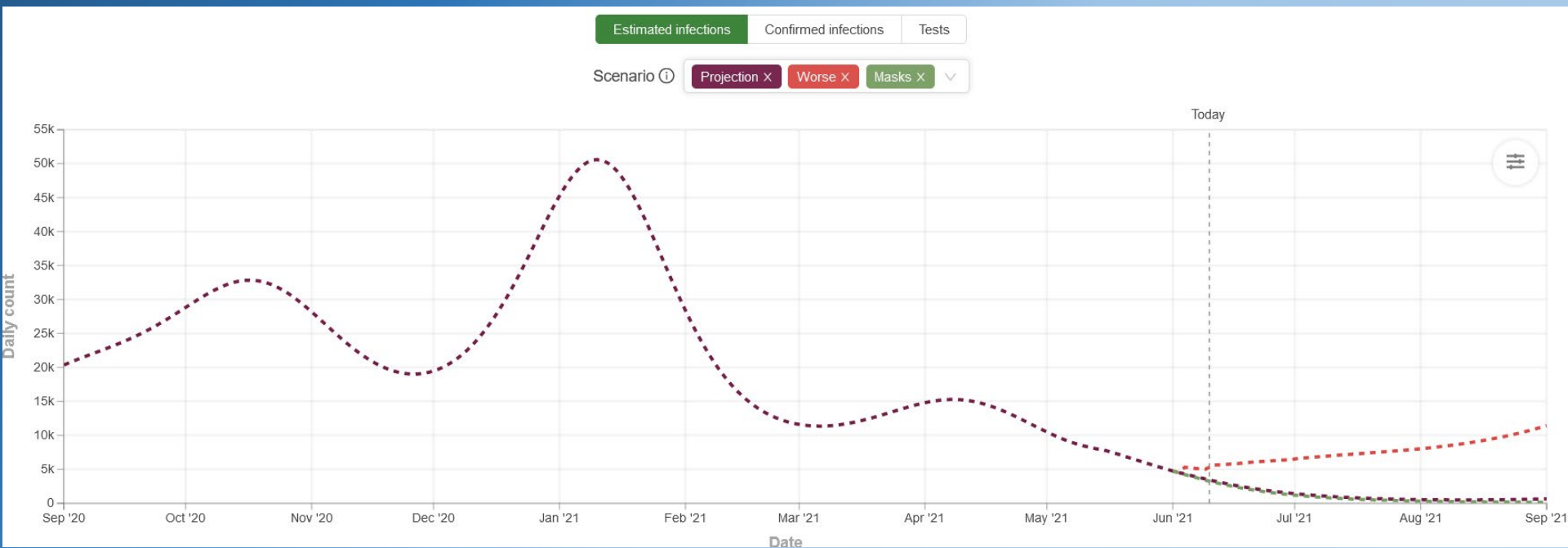
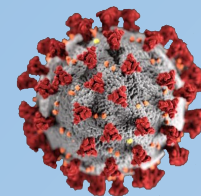
The number of confirmed cases is lower than the number of actual cases; the main reason for that is limited testing.

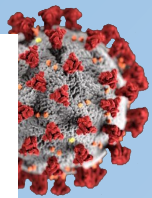
World



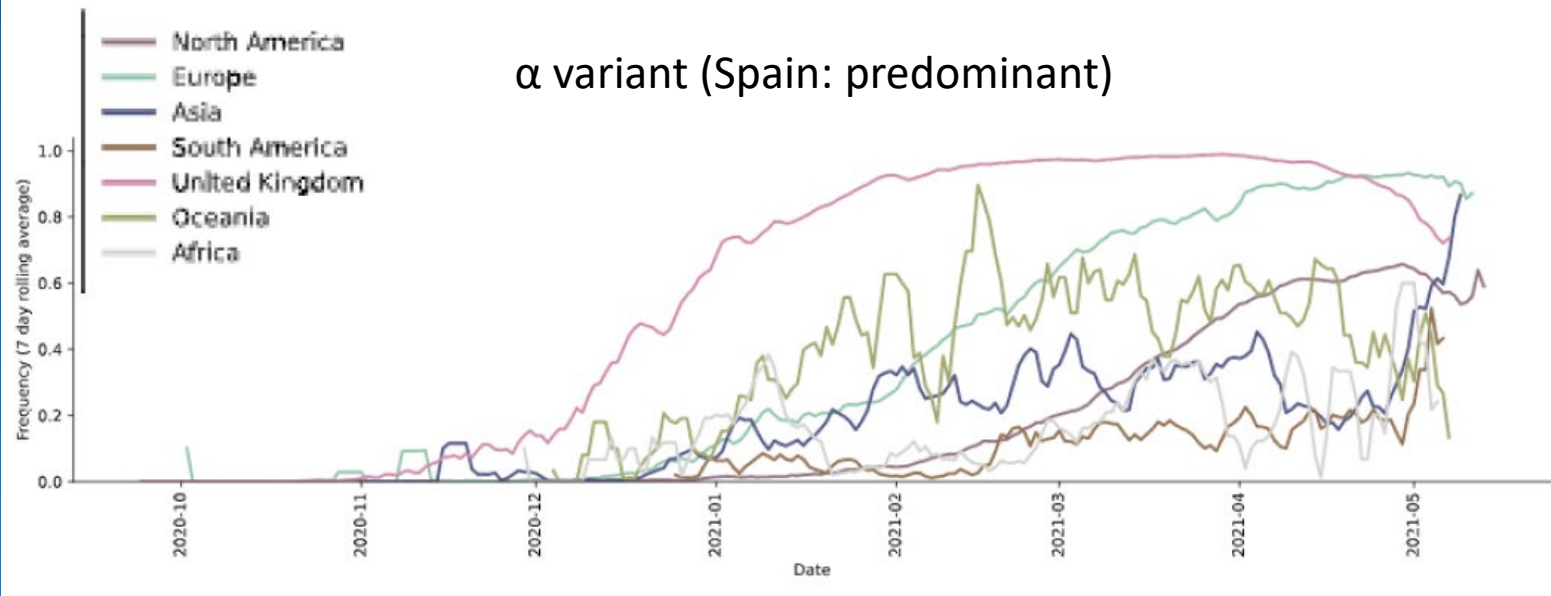
Source: Johns Hopkins University CSSE COVID-19 Data

CC BY

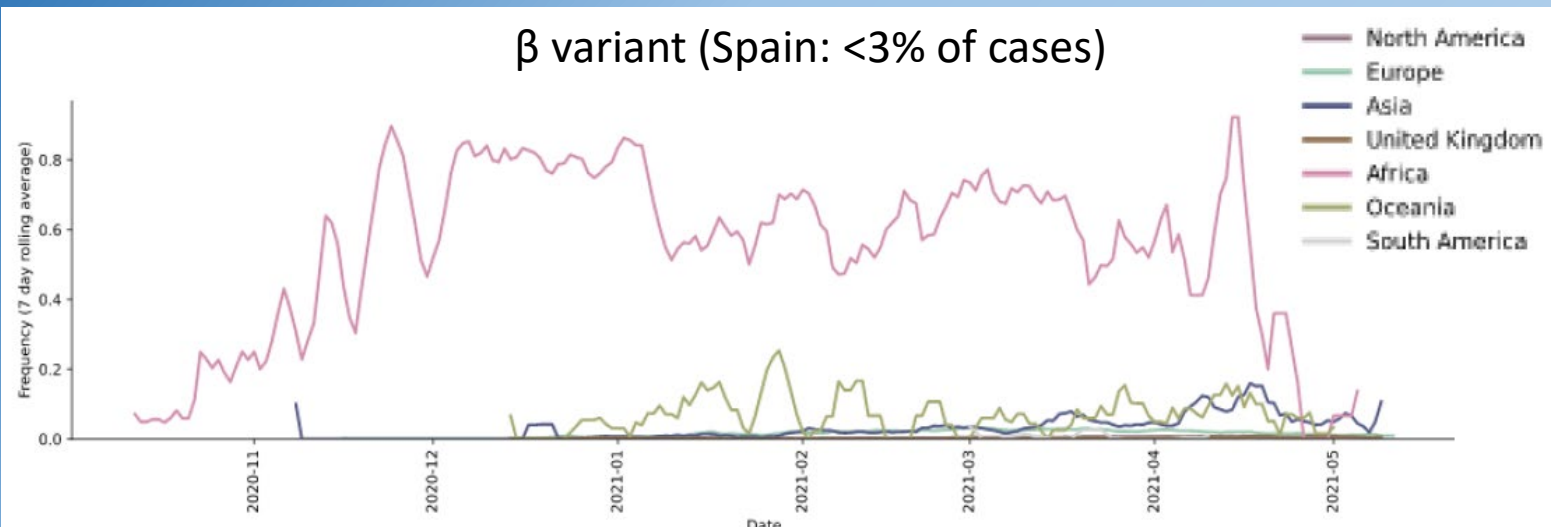


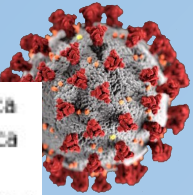


α variant (Spain: predominant)

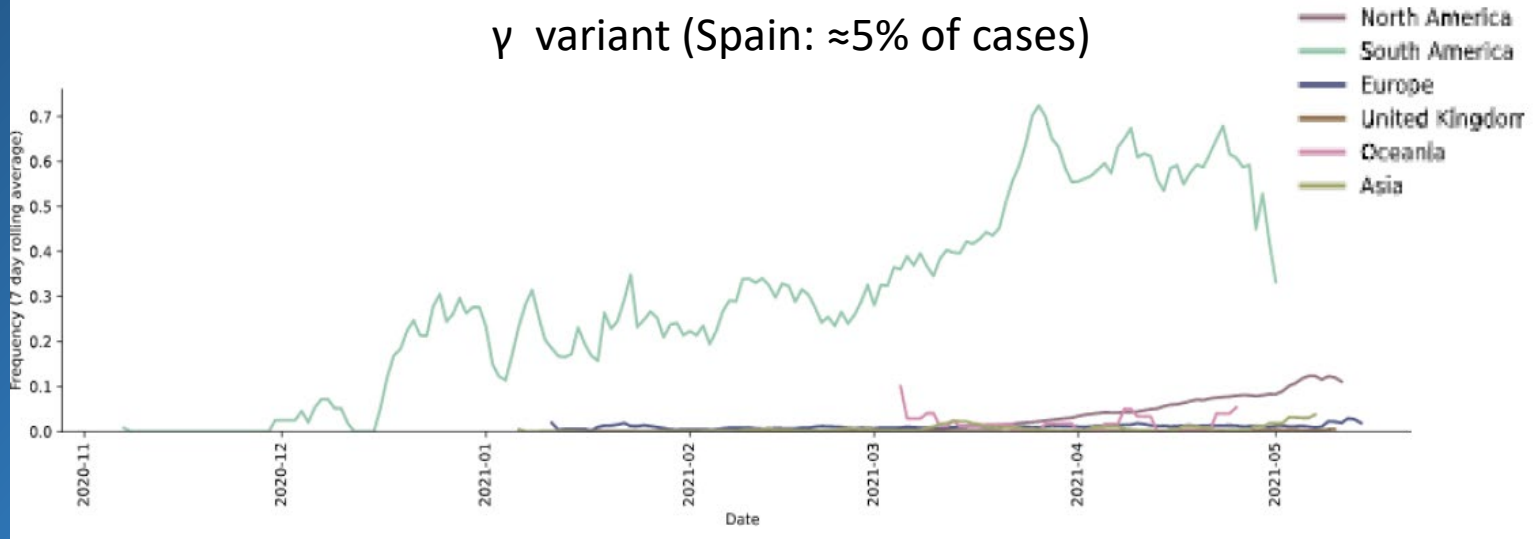


β variant (Spain: <3% of cases)

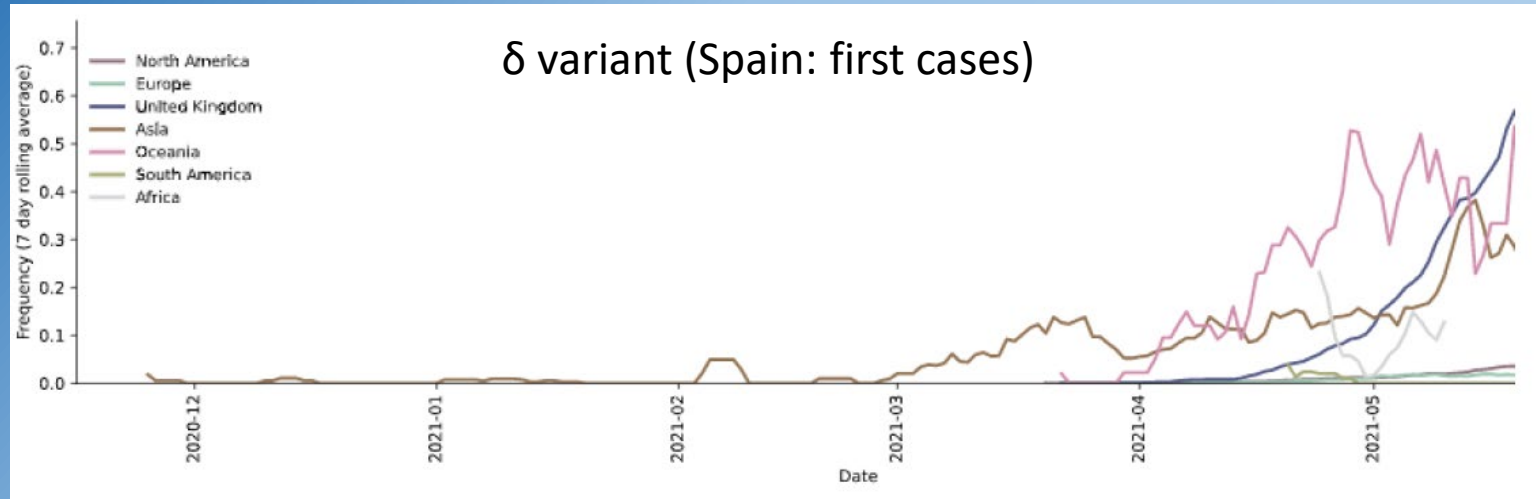




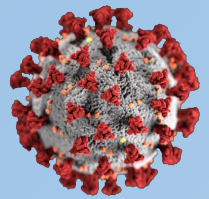
γ variant (Spain: \approx 5% of cases)



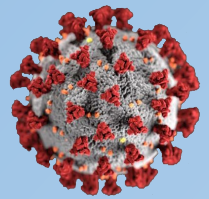
δ variant (Spain: first cases)



Vaccination strategy

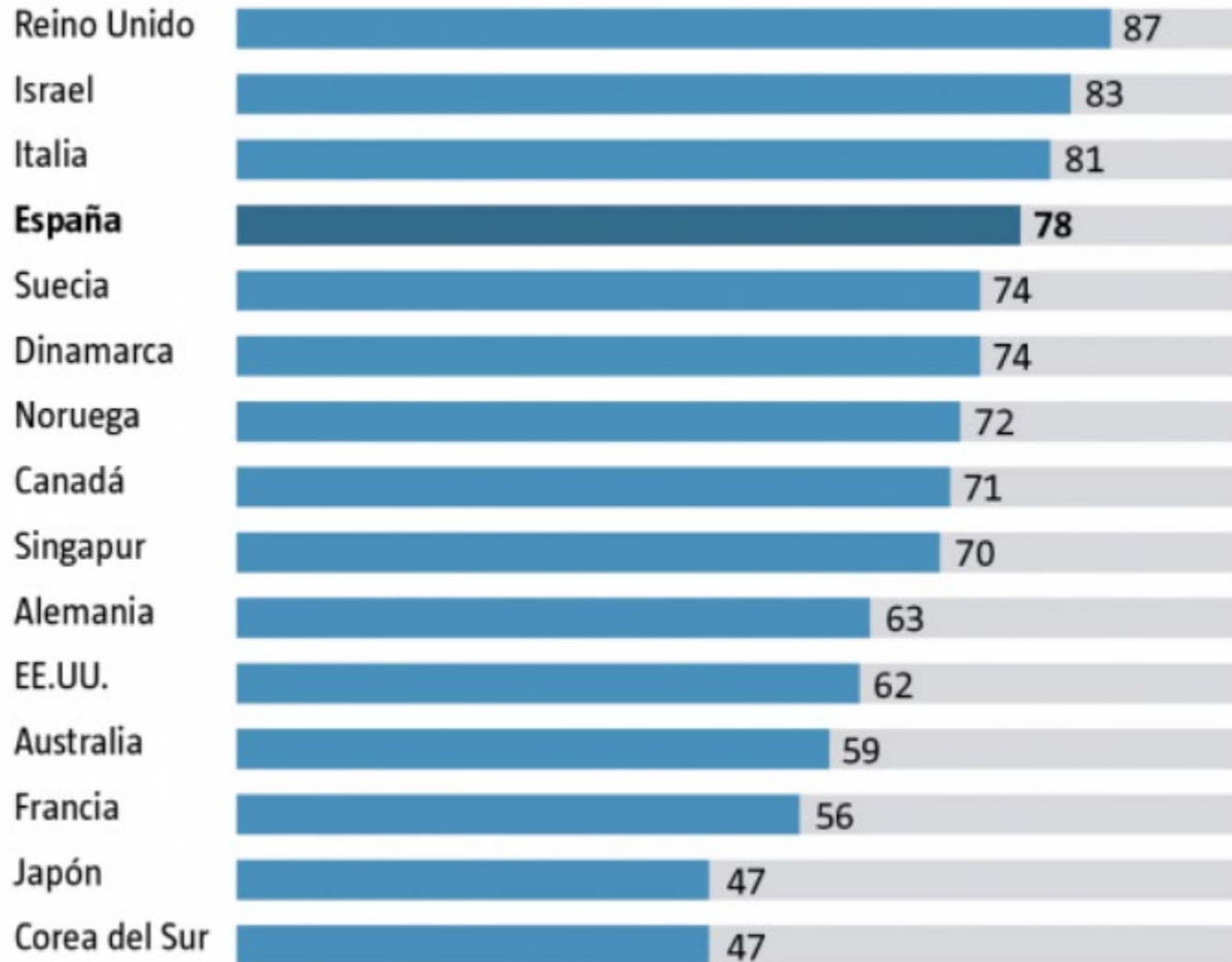


- Priority 1
 - >90 then >80 yo
 - Healthcare workers
- Priority 2
 - >70
 - Other essential professions
 - Fragile populations
- Then progress towards lower age



¿Tiene confianza en las vacunas contra el coronavirus?

● Porcentaje de personas que responden sí

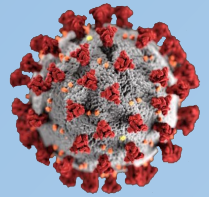




GOBIERNO
DE ESPAÑA

MINISTERIO
DE SANIDAD

June 6, 2021



Dosis entregadas en España ⁽¹⁾

33.129.880

99,9% dosis recibidas en España

Dosis entregadas a Andorra: **13.650**

Dosis pendientes de entrega: **6.829**

Dosis administradas

30.007.806

90,6% dosis entregadas

Nº Personas con al menos 1
dosis

19.786.574

41,7% población**

Nº Personas con pauta completa

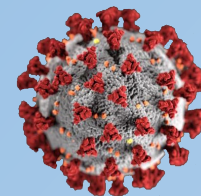
11.002.869

23,2% población**

Distribución por tipo de vacuna

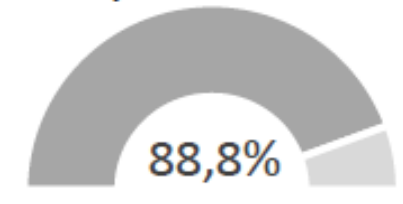
	Dosis adquiridas de Q1 a Q3	Dosis recibidas en España	Dosis entregadas en España	Dosis administradas
Pfizer / BioNtech	43.955.845	21.506.745	21.490.755	21.078.633 (98,1%)
Moderna	19.722.800	3.028.800	3.021.500	2.767.457 (91,6%)
AstraZeneca / Oxford	12.232.200 ⁽²⁾	7.344.700	7.344.700	5.547.863 (75,5%)
Janssen	17.598.400	1.273.700	1.272.925	613.853 (48,2%)

June 6, 2021

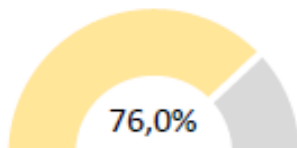


Personas con al menos 1 dosis

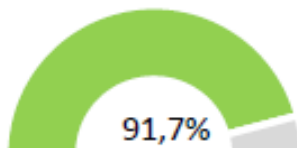
Mayores de 50 años



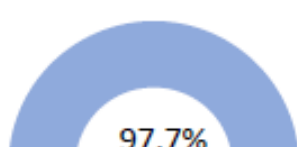
50-59 años



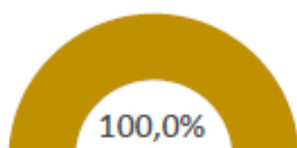
60-69 años



70-79 años

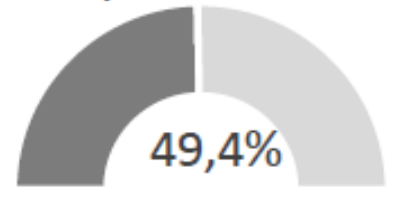


+80 años

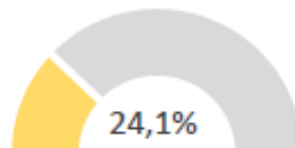


Personas con pauta completa

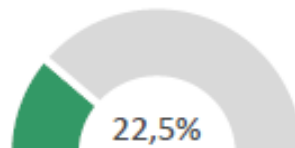
Mayores de 50 años



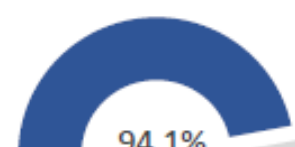
50-59 años



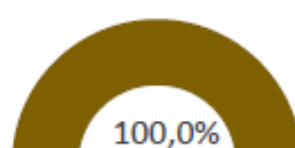
60-69 años

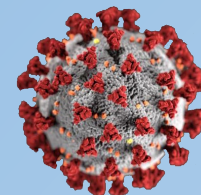


70-79 años



+80 años



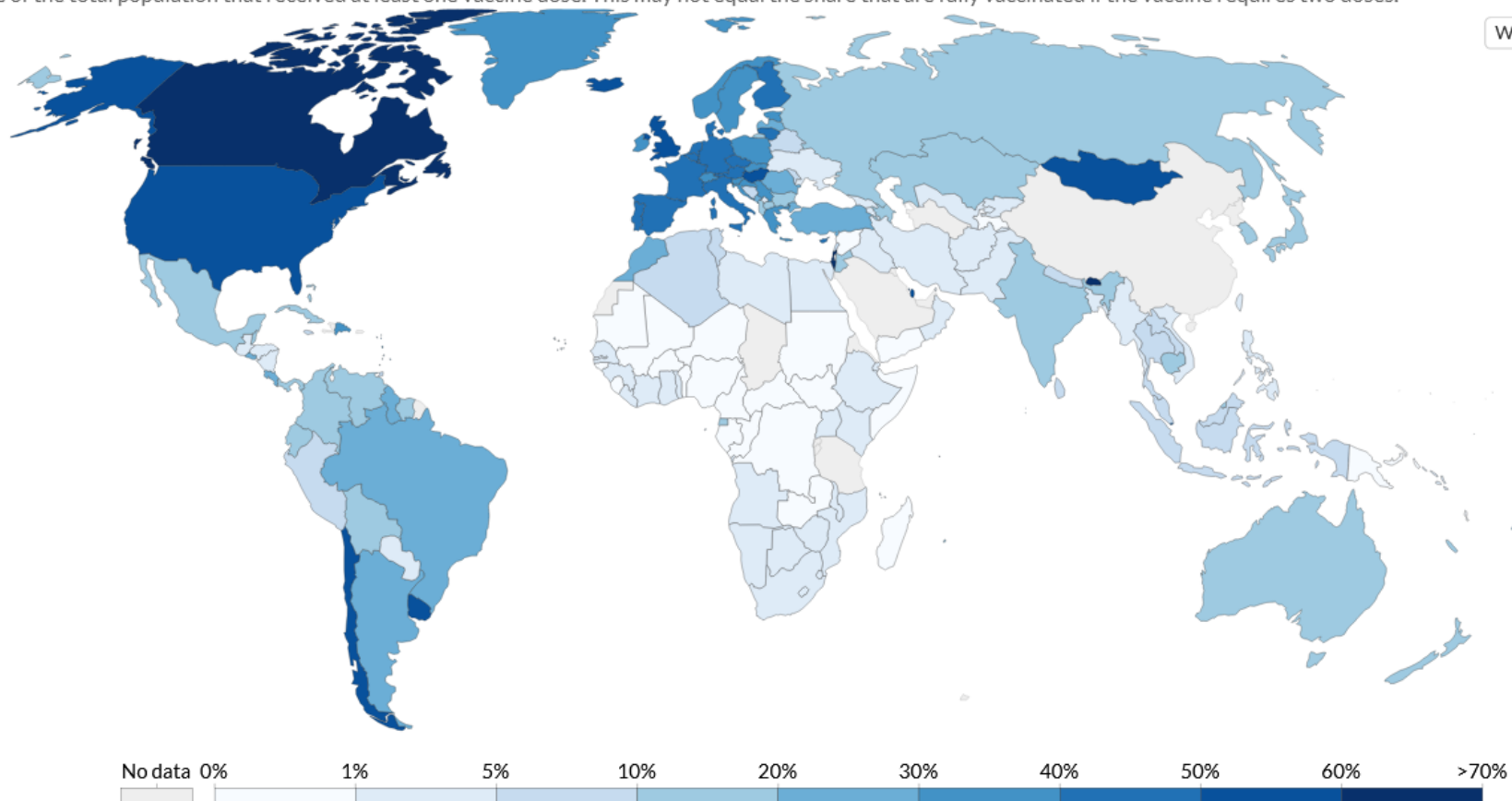


Share of people who received at least one dose of COVID-19 vaccine, Jun 9, 2021

Share of the total population that received at least one vaccine dose. This may not equal the share that are fully vaccinated if the vaccine requires two doses.

Our World
in Data

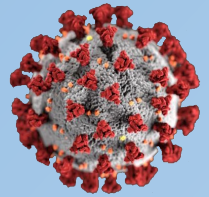
World



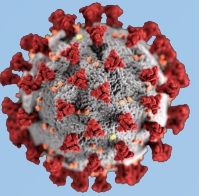
Source: Official data collated by Our World in Data

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Politic controversies



- National state of alarm ended May 9th 2021
 - State of alarm allowed movements restrictions (lockdown, geographic confinements, night curfew)
 - Since then, regional and local governments can only decide on meeting limitations (number of persons), closing time of bars and restaurants, etc.
 - Any other measure needs judicial approval
 - Universal masking (in- and outdoors) still in place
- Thrombosis risk with AZ vaccine – what to do with second dose in <60 yo?
 - COMBIVAC study
 - Pfizer to be offered – informed consent for AZ (?)



COMBIVAC Study
(Instituto de Salud
Carlos III, Spain)

MIXING COVID VACCINES TRIGGERS POTENT IMMUNE RESPONSE

Preliminary trial results show the benefits
of combining different vaccines.

By Ewen Callaway

Vaccinating people with both the Oxford–AstraZeneca and the Pfizer–BioNTech COVID-19 vaccines produces a potent immune response against SARS-CoV-2, researchers conducting a study in Spain have found.

Preliminary results from the trial of more than 600 people – announced in an online presentation on 18 May – are the first to show the benefits of combining different coronavirus vaccines (see go.nature.com/2s62qst).

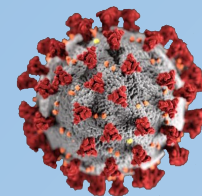
Because of safety concerns, several European countries are already recommending that some or all people who were given a first dose of the vaccine developed by the University of Oxford, UK, and AstraZeneca in Cambridge, UK, get another vaccine for their second dose. Researchers hope that such

mix-and-match vaccination regimens will trigger stronger, more robust immune responses than will two doses of a single vaccine, while simplifying immunization efforts for countries facing fluctuating vaccine supplies.

“It appears that the Pfizer vaccine boosted antibody responses remarkably in one-dose AstraZeneca vaccinees. This is all around wonderful news,” says Zhou Xing, an immunologist at McMaster University in Hamilton, Canada.

Prime and boost

Starting in April, the Spanish CombivacS trial enrolled 663 people who had already received a first dose of the Oxford–AstraZeneca vaccine, which uses a harmless chimpanzee ‘adenovirus’ to deliver instructions for cells to make a SARS-CoV-2 protein. Two-thirds of participants were randomly picked to receive the mRNA-based vaccine made by Pfizer, based

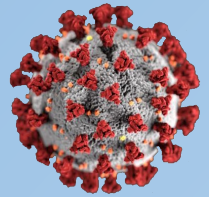


Madrid regional elections, May 2021

The collage consists of six distinct campaign posters:

- Top Left:** A black and white portrait of a man with glasses. To his right is a red square with the text "HAZLO MADRID" in white, and below it "VOTA. Madrid PSOE / ♥".
- Top Right:** A portrait of a woman with dark hair. To her right is the word "LIBERTAD" in blue. Below it is the hashtag "#YoCon Ayuso" in blue.
- Middle Left:** A portrait of a man in a dark suit against a cityscape background. Text on the left reads "VOTA EDMUNDO. ELIGE CENTRO." in white and orange.
- Middle Right:** A portrait of a smiling woman with brown hair. To her left is the text "Por lo que de verdad importa" in green and black, with the hashtag "#MadridConMónica" below it.
- Bottom Left:** A green background with the text "PROTEGE MADRID" in white, a small Spanish flag, and "VOTA SEGURO" in white. To the right is the word "VOX" in white, and a partial portrait of a man's face is visible at the bottom.
- Bottom Right:** A cityscape background with the text "ESTE 4 DE MAYO" at the top, and "QUE HABLE LA MAYORÍA" in large white letters across the bottom.

At this point...



- End of tunnel feeling...
- Most (all?) eggs in one basket (vaccine)
 - Vaccination program progressing well
 - Very high acceptance to vaccine(s)
- Contradictory control measures
- Unclear policy for the control of variants
- Politics, economics, health...