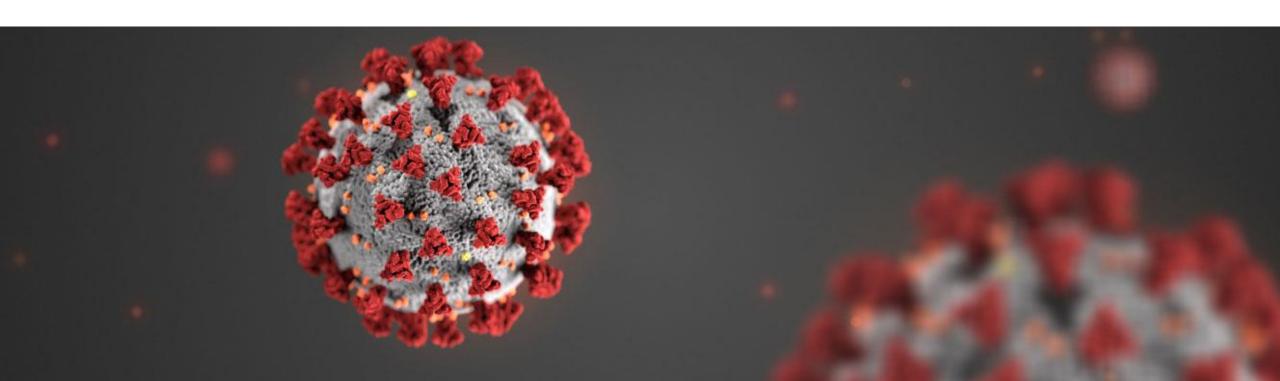




SARS-Cov-2 Report

José Luis Pires

12 January 2021

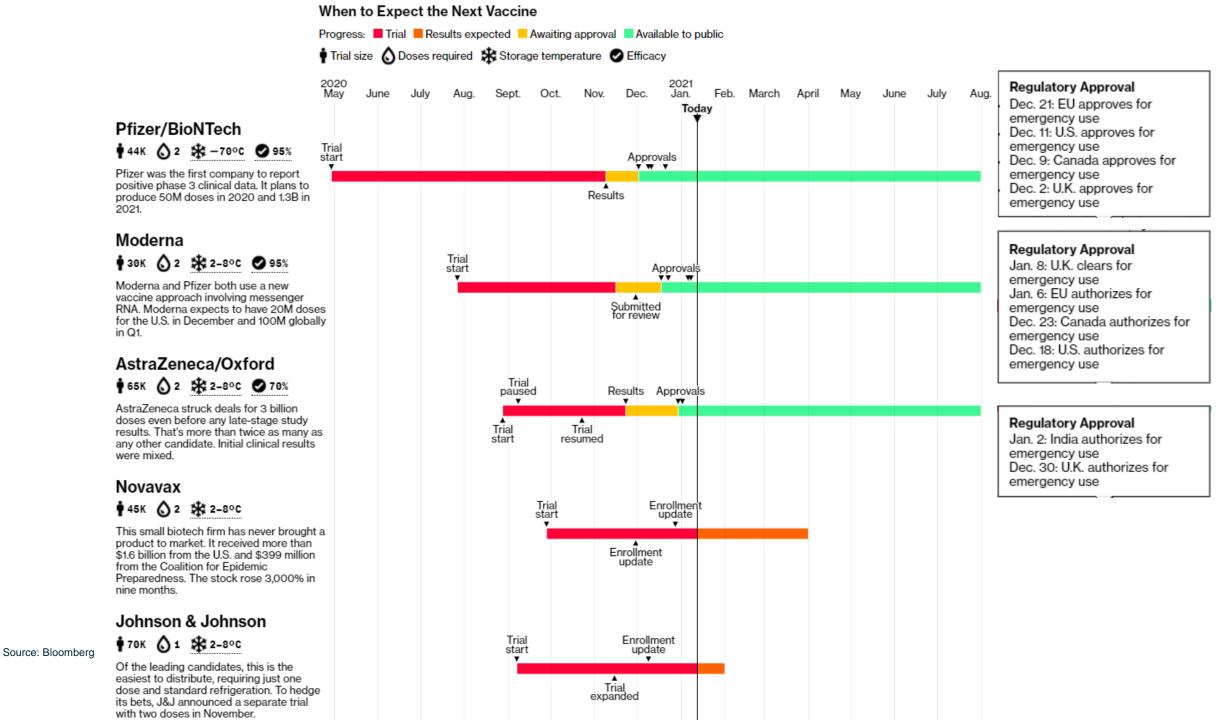


Contents

SARS-Cov-2

- Vaccines and Products to treat COVID-19 with EUA in the United States
- Confirmed cases by Country
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- Total confirmed Covid-19 cases and deaths per million people
- Daily new confirmed Covid-19 cases and deaths per million people
- Number of COVID-19 cases reported weekly by WHO region
- Portugal
 - Cases, Deaths and Projections per week
- Ireland
 - <u>Cases, Deaths and Projections</u> per week
- New Jersey/US
 - <u>Cases, Deaths and Projections</u> per week
- Recent News





When to Expect the Next Vaccine



2020 2021 May Nov. Jan. Feb. March April Oct. Dec. May June Today Russia and China took the unusual step of allowing vaccine distribution before conducting large-scale clinical trials.

Sinovac Biotech

• 26K 6 2 \$\frac{1}{2} 2-8°C ₹ 78%

Sinovac's vaccine triggers an immune response using the Covid-19 virus itself, after it has been chemically inactivated.

Gamaleya

• 40K 6 2 \$ −18°C 91%

A variation of the Russian vaccine, known as Sputnik V, can be stored using standard refrigeration temperatures of 2-8°C. It's currently available in limited quantities.

CanSino Biologics

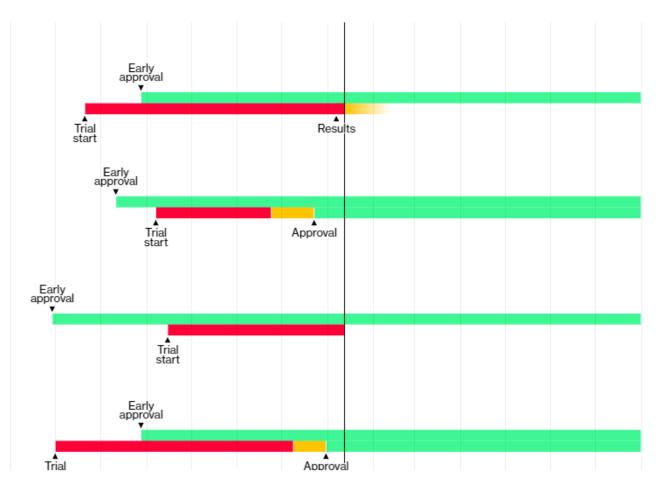
†40K **(**)1 **(** 2-8°C

CanSino's shot was approved for the Chinese military even before late-stage tests began. It uses a harmless cold virus to deliver its genetic payload.

Sinopharm

∳50K **()** 2 **(½** 2-8°C **(⊘** 79%

Sinopharm administered hundreds of thousands of doses before its vaccine was Source: Blooml fully tested.



Dec. 23, 2020

Aug.

Argentina approves for emergency use

Dec. 31, 2020

China approves vaccine for general use after trial shows 79% efficacy

A global network of publicly disclosed vaccine deals

European Union Total: 1,405 million doses AstraZeneca/Oxford AstraZeneca/Oxford 300M Pfizer/BioNTech 300 Sanofi/GSK 300 225 200 80 CureVac Johnson & Johnson Moderna **European Union** Novavax U.S. Pfizer/BioNTech Covax Sanofi/GSK U.K. China Gamaleya Japan Brazil Moderna Indonesia Johnson & Johnson Canada Mexico CureVac

Source: Bloomberg

source: Bloomberg

The Global Vaccination Campaign

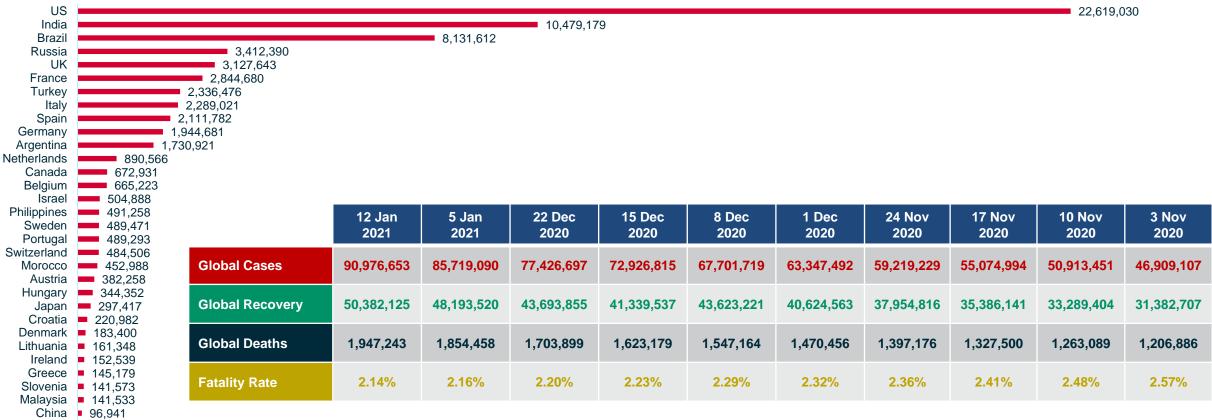
More than 29 million doses have been administered in 43 countries

Country	No. of doses administered ▼	Per 100 people	Last updated
Global total	29,038,512		Jan. 11
U.S.	9,268,879	2.82	Jan. 11
China	9,000,000	0.64	Jan. 08
EU	2,744,613	-	Jan. 11
U.K. +	2,675,289	4.01	Jan. 11
Israel	1,870,652	20.67	Jan. 11
Russia*	1,500,000	1.02	Jan. 11
U.A.E.	1,167,251	10.86	Jan. 11
Italy	643,219	1.07	Jan. 11
Germany	613,347	0.74	Jan. 11
Spain	406,091	0.87	Jan. 11
Canada +	329,774	0.88	Jan. 11
Poland	203,053	0.53	Jan. 11
France	138,351	0.21	Jan. 11
Saudi Arabia	130,000	0.38	Jan. 07
Romania	125,190	0.65	Jan. 10
Denmark	115,932	2.00	Jan. 11
Argentina	107,542	0.24	Jan. 08
Bahrain	89,250	6.01	Jan. 10
Mexico	81,300	0.06	Jan. 10
Portugal	74,099	0.72	Jan. 11

Country	No. of doses administered ▼	As % of population	
Hungary	71,000	0.73 J	an. 11
Greece	49,465	0.46 J	an. 11
Czech Republic	40,000	0.38 J	an. 11
Sweden	40,000	0.39 J	an. 07
Austria	38,545	0.44 J	an. 11
Netherlands	31,000	0.18 J	an. 10
Croatia	27,000	0.66 J	an. 11
Slovakia	26,251	0.48 J	an. 10
Lithuania	22,549	0.81 J	an. 11
Norway	20,833	0.39 J	an. 11
Slovenia	20,546	0.99 J	an. 11
Oman	15,907	0.38 J	an. 11
Ireland	15,314	0.31 J	an. 07
Finland	14,196	0.26 J	an. 11
Bulgaria	13,473	0.19 J	an. 09
Chile	10,699	0.06 J	an. 09
Estonia	10,197	0.77 J	an. 09
Costa Rica	9,751	0.19 J	an. 08
Serbia	9,300	0.13 J	an. 10

Coronavirus (SARS-CoV-2 / Covid-19) – Confirmed cases by country

Note: Selected Countries, sorted by # of cases



Last Updated at 12 January 2021, 10:22 AM

by the Center for Systems Science and Engineering at Johns Hopkins University

0 5,000,000 10,000,000 15,000,000 20,000,000 25,000,000

69.651

58,946

34.138

28,634

10.834

5.898

Norway | 55.903

Luxembo... 48,027 Finland 39,011

Korea Singapore

Estonia

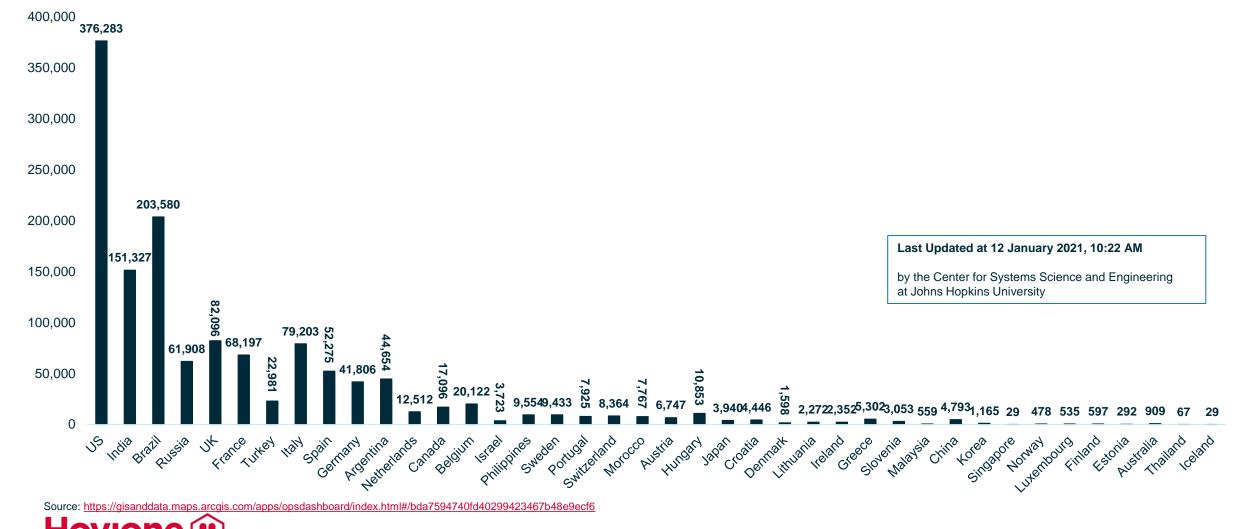
Australia

Thailand

Iceland

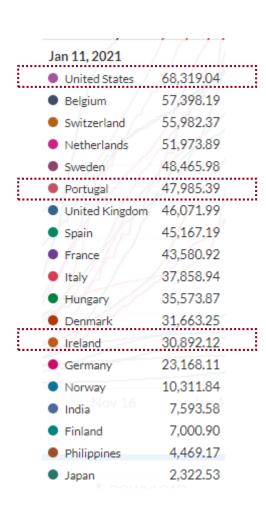
Coronavirus (SARS-CoV-2 / Covid-19) – Deaths by Country

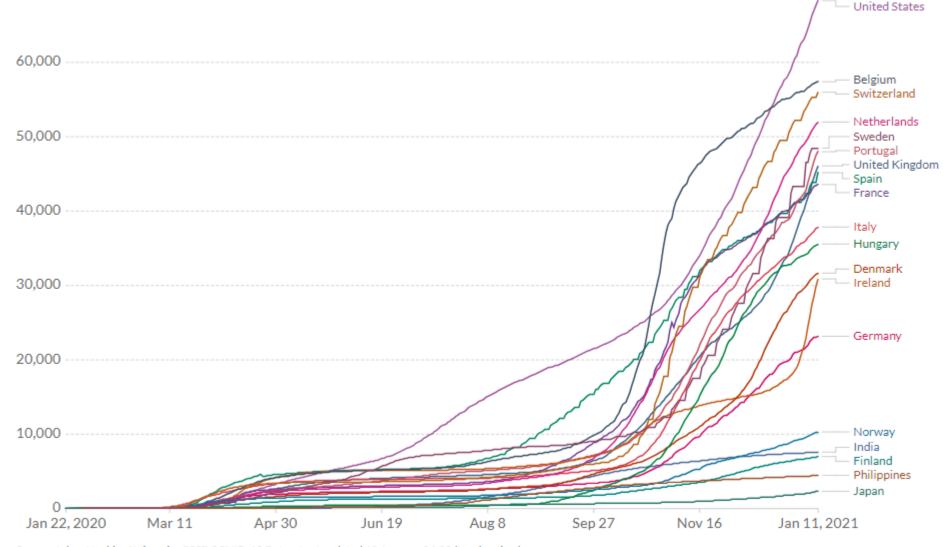
Note: Selected Countries, sorted by # of cases



In it for life

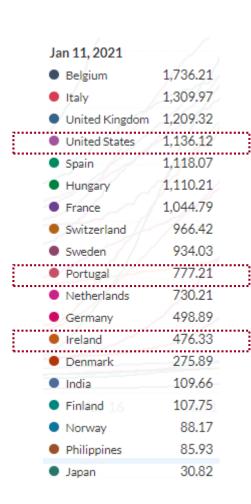
Total confirmed Covid-19 cases per million people

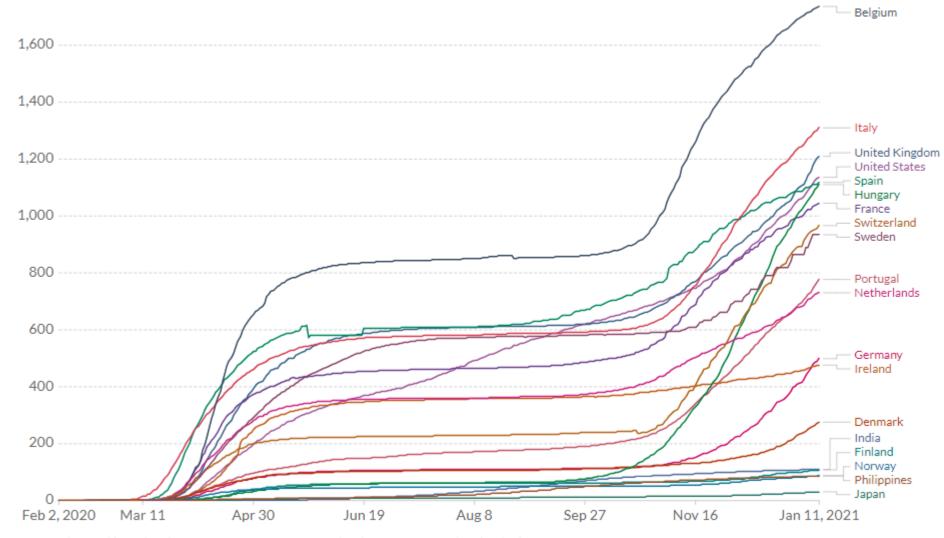




Source: Johns Hopkins University CSSE COVID-19 Data - Last updated 12 January, 06:02 (London time)

Total confirmed Covid-19 deaths per million people

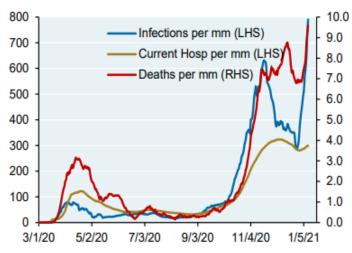




Source: Johns Hopkins University CSSE COVID-19 Data – Last updated 12 January, 06:02 (London time)

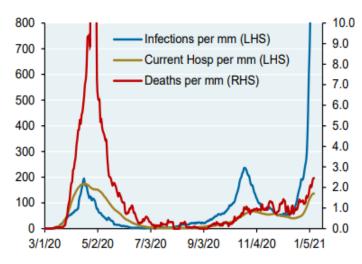
Daily infections vs mortality per million

Portugal daily infections vs mortality



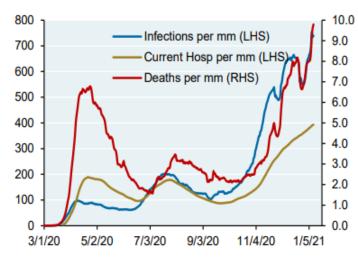
Source: JHU, ECDC, JPMAM. 01/10/2021. 7 day avg.

Ireland daily infections vs mortality



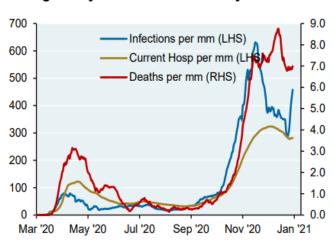
Source: JHU, ECDC, JPMAM. 01/10/2021. 7 day avg.

US daily infections vs mortality



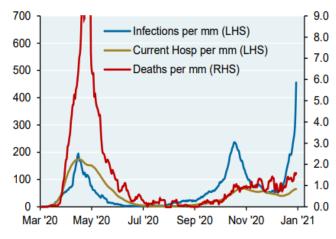
Source: JHU, COVID Tracking, JPMAM. 01/10/2021. 7 day avg.

Portugal daily infections vs mortality



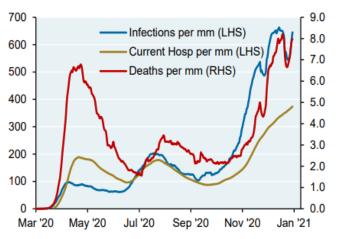
Source: JHU, ECDC, JPMAM. 01/03/2021. 7 day avg.

Ireland daily infections vs mortality



Source: JHU, ECDC, JPMAM. 01/03/2021. 7 day avg.

US daily infections vs mortality



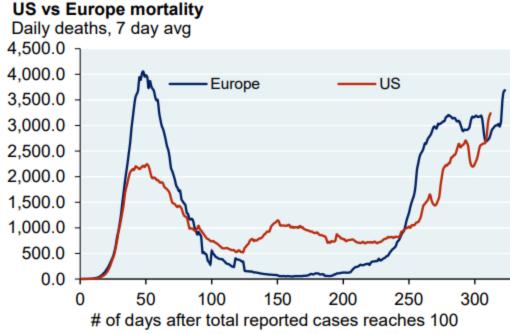
Source: JHU, COVID Tracking, JPMAM. 01/03/2021. 7 day avg.

US vs Europe infections and mortality

US vs Europe infections Daily infections per mm people, 7 day avg 800 700 Europe -US 600 500 400 300 200 100 300 100 150 200 250 50 0

Source: Johns Hopkins University, IMF, JPMAM. January 10, 2021.

of days after total reported cases reaches 100



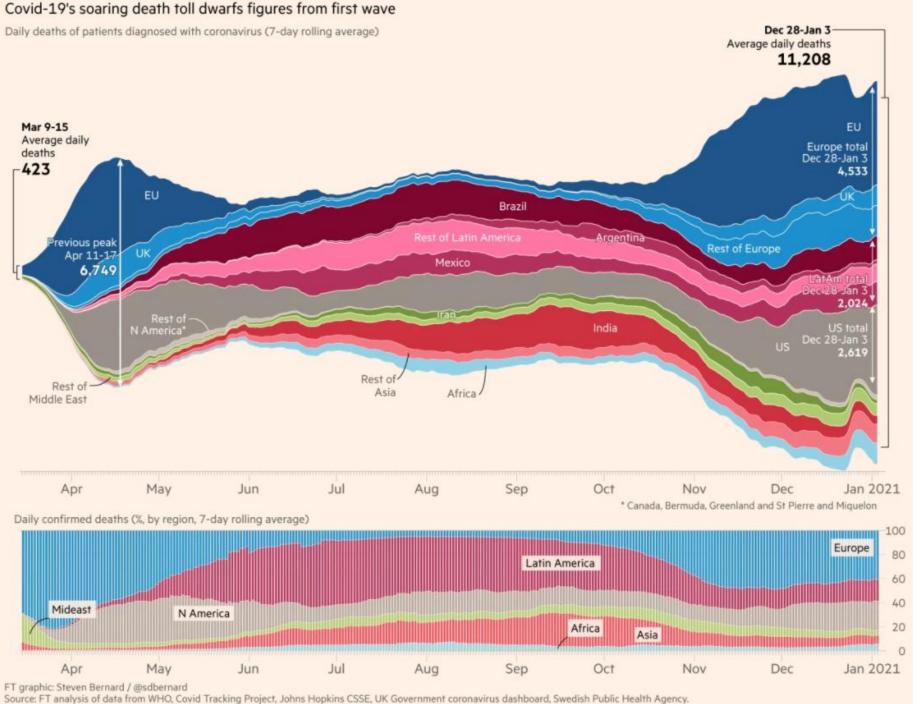
Source: Johns Hopkins University, JPMAM. January 10, 2021.



13

Hovione (#)

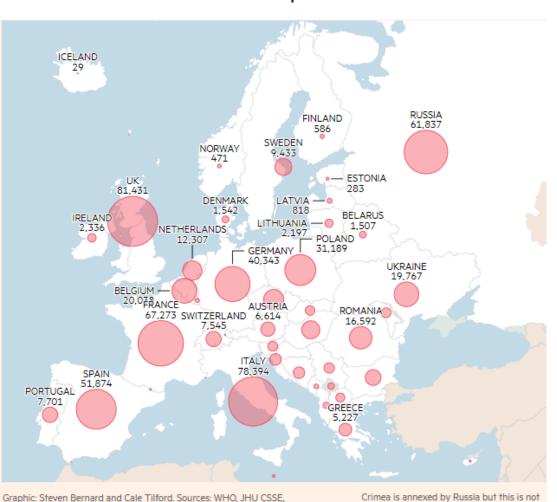
Daily deaths of patients diagnosed with coronavirus (7-day average)



© FT

Total deaths as of 1.13pm January 11

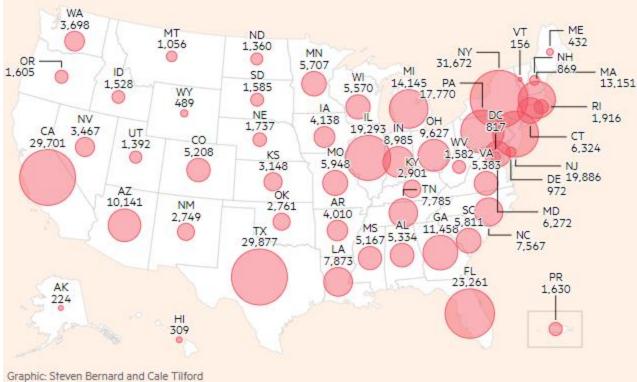
Europe



UK gov Covid-19 dashboard, Swedish Public Health Agency; FT research

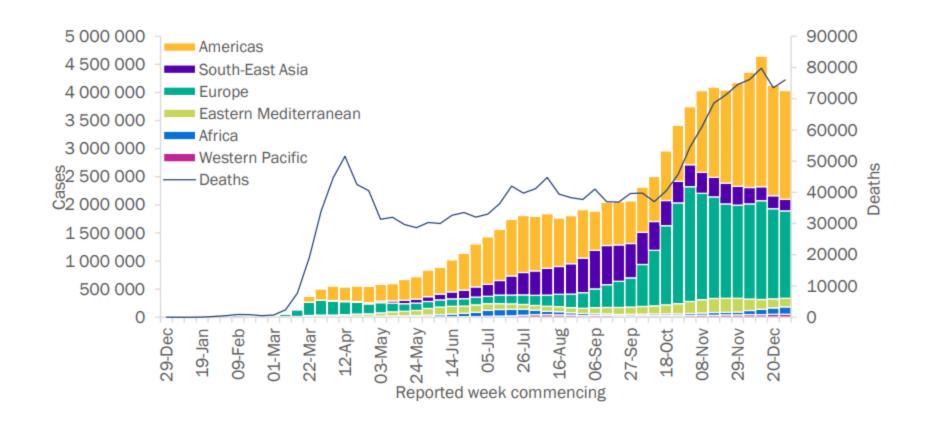
recognised by the international community

US



Graphic: Steven Bernard and Cale Tilford Sources: Covid Tracking Project © FT

Number of COVID-19 cases reported weekly by WHO Region, and global deaths, as of 3 January 2021





16

Number of COVID-19 cases reported weekly by WHO Region, and global deaths, as of 3 January 2021

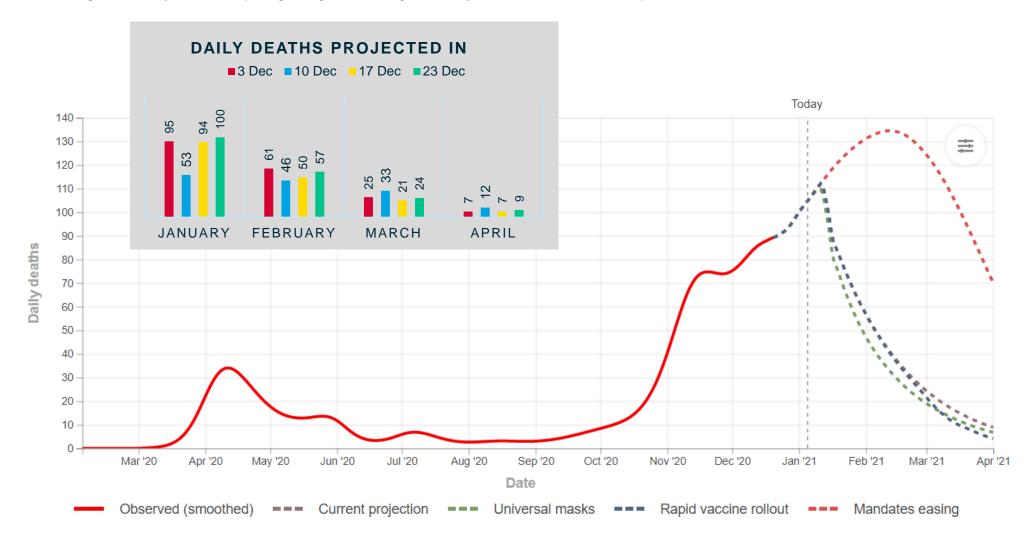


Portugal

Covid-19 Daily Deaths Projections in Portugal

4 Jan 2021 **78 deaths** Projected: 77-142

Due to significant delays in death reporting during and following the holidays, our estimates will not be updated for the week of Jan 4.



Current projection: Vaccine distribution is scaled up over 90 days.

Universal masks: Vaccine distribution is scaled up over 90 days. 95% mask usage is adopted in public.

Rapid vaccine rollout: Vaccine distribution is scaled up over 45 days

Rapid vaccine rollout to high-risk

Vaccine distribution is scaled up over 45 days. Vaccines are initially distributed to high-risk populations, followed by essential workers, and then all other adults.

Mandates easing: Vaccine distribution is scaled up over 90 days. Governments do not re-impose mandates if cases increase.

No vaccine: Assumes there is no vaccine distribution. Mask use and mandates continue at current levels.

Projection Daily Deaths

For 1 April 2021

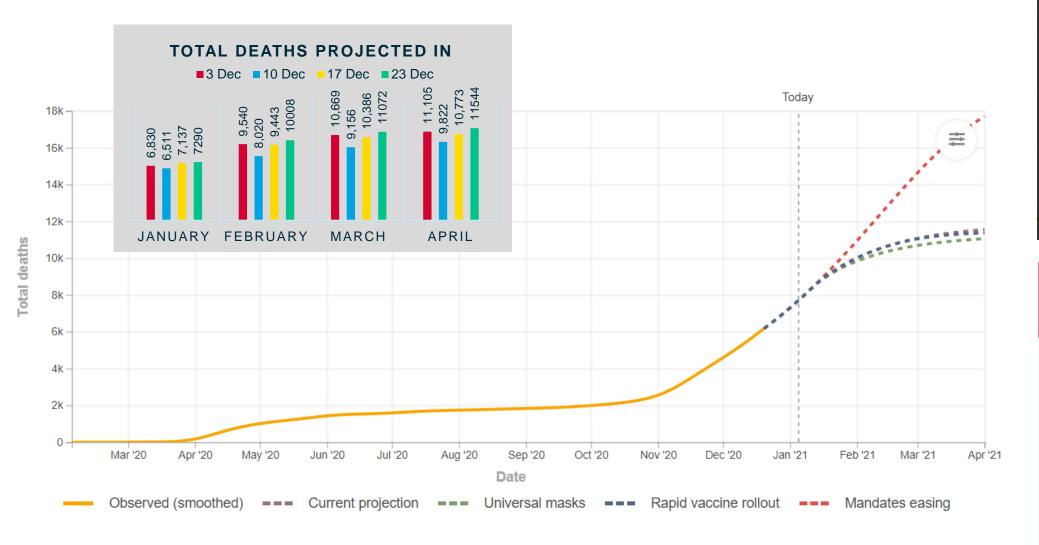
23 Dec Projection: 9 (3-17)

Rapid Vaccine Rollout: 4 (1-8)

Covid-19 Total Deaths Projections in Portugal

4 Jan 2021 **7,196 deaths** Projected: 7,312 – 7,969

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Projection Total Deaths

For 1 April 2021

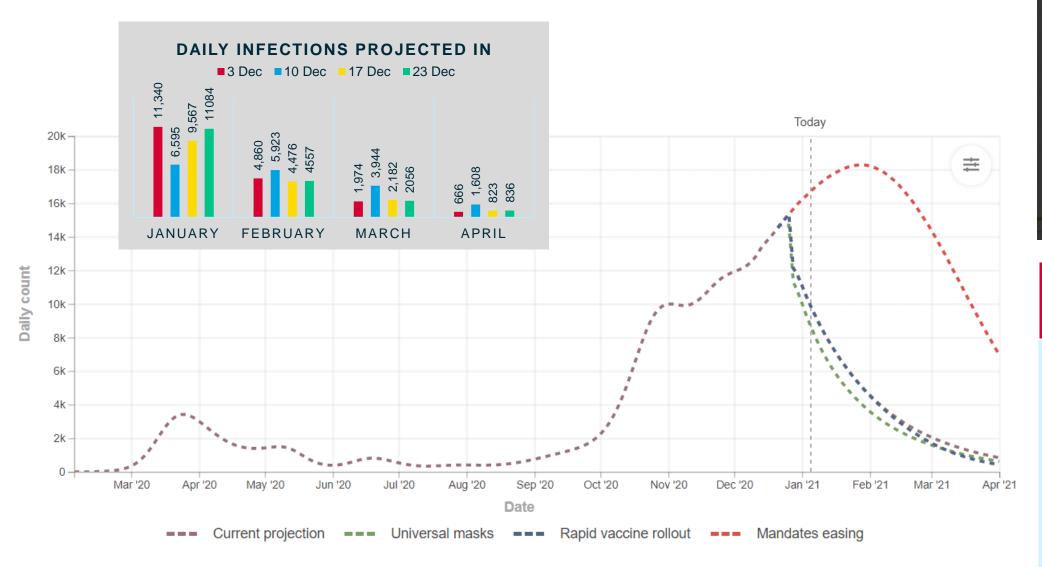
23 Dec Projection: 11,544 (10,342-13,185)

Rapid Vaccine Rollout: 11,369 (10,244-13,019)

Covid-19 Daily Infection Projections in Portugal

4 Jan 2021 **4,369 infections** Projected: 7,834 – 13,640

Due to significant delays in death reporting during and following the holidays, our estimates will not be updated for the week of Jan 4.



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Universal masks: Vaccine distribution is scaled up over 90 days. 95% mask usage is adopted in public.

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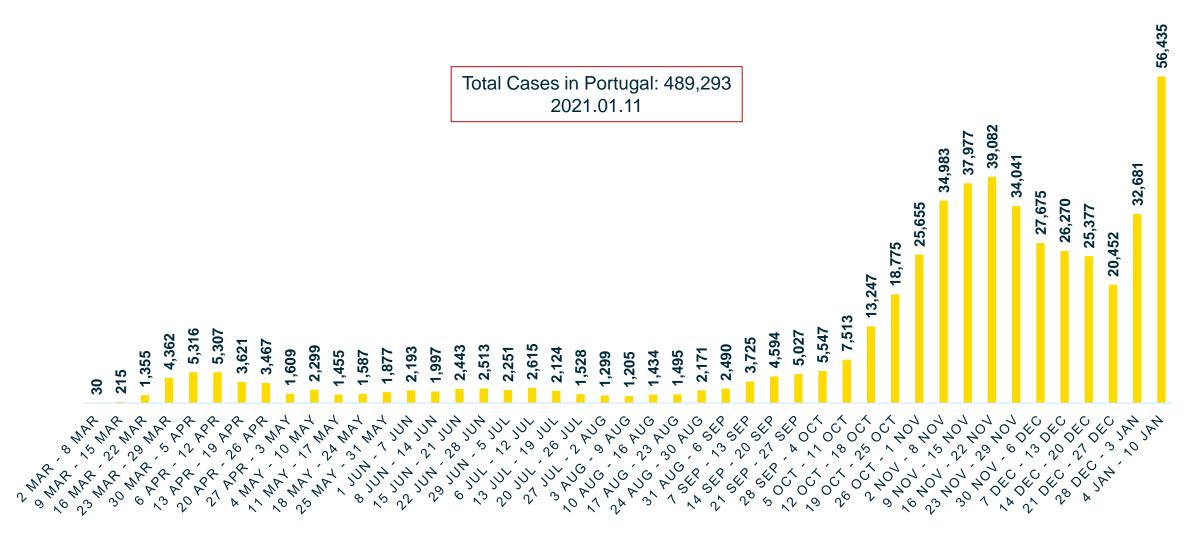
Projection Daily Infections

For 1 April 2021

23 Dec Projection: 836 (189-1,831)

Rapid Vaccine Rollout: 424 (82-955)

Coronavirus (SARS-CoV-2 / COVID 19) – Portugal – New cases per week

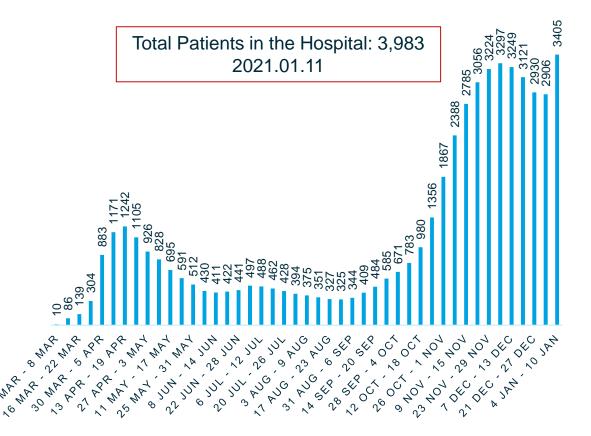




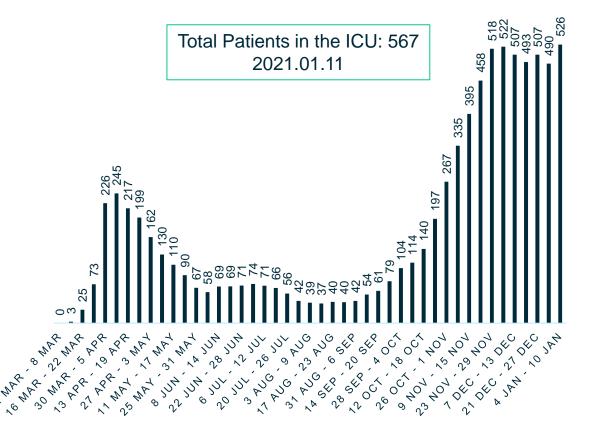
Coronavirus (SARS-CoV-2 / COVID 19) – Portugal – Hospital stable/ICU per

week

■ Average # of Patients stable in the Hospital per week

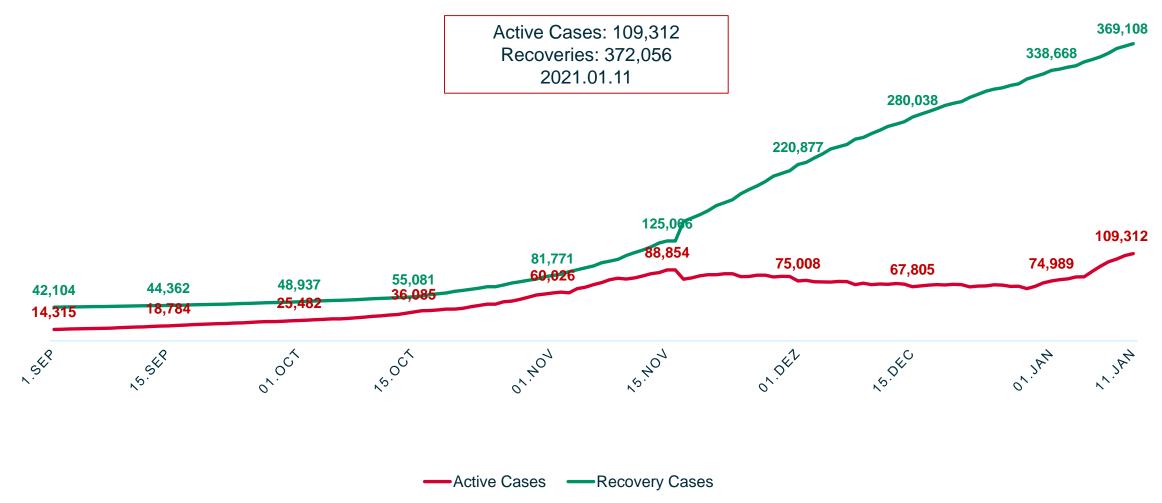


■ Average # of Patients in the ICU per week



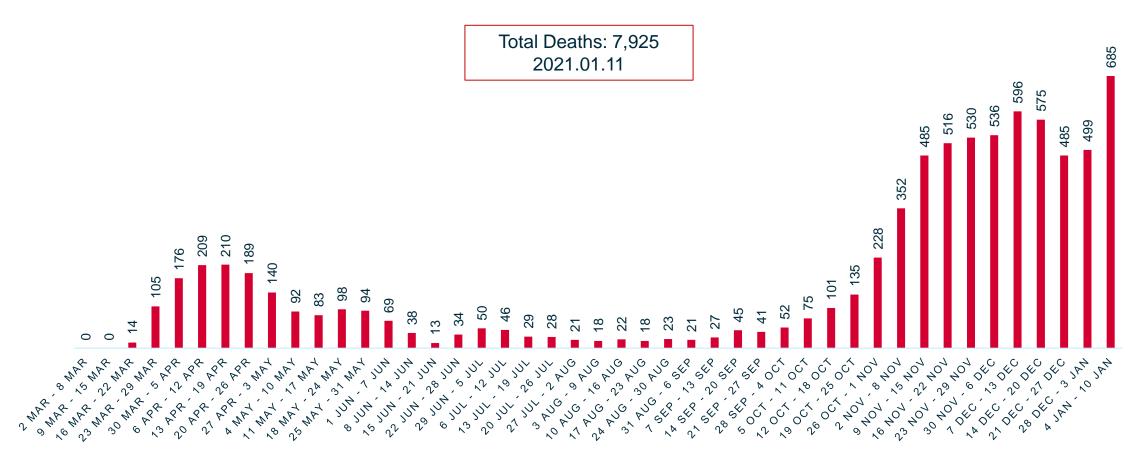


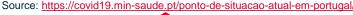
Coronavirus (SARS-CoV-2 / COVID 19) – Portugal – Active cases vs Recoveries





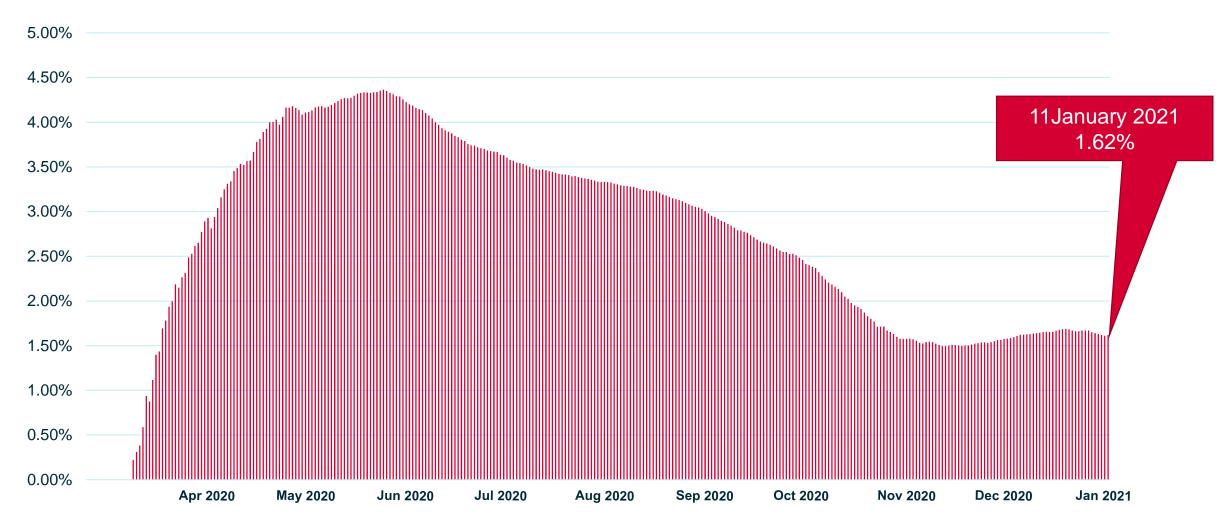
Coronavirus (SARS-CoV-2 / COVID 19) – Portugal – New deaths per week







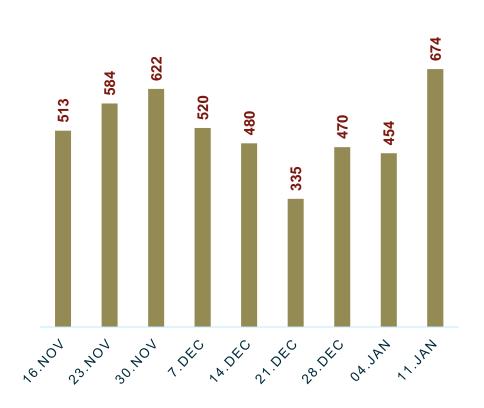
Portugal – Fatality Rate

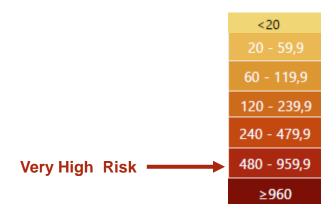




Coronavirus (SARS-CoV-2 / COVID 19)) – Loures

New Cases per 100,000 population



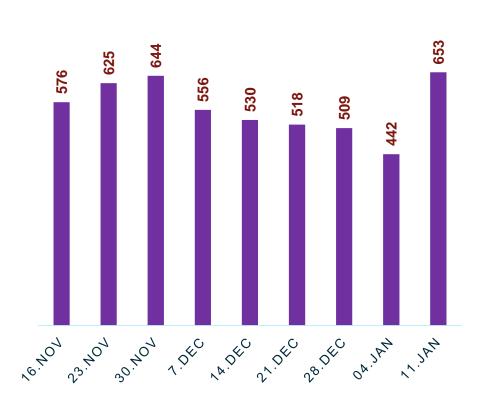


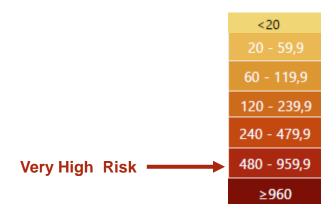
Source: https://covid19.min-saude.pt/ponto-de-situacao-atual-em-portugal/



Coronavirus (SARS-CoV-2 / COVID 19)) – Lisbon

New Cases per 100,000 population

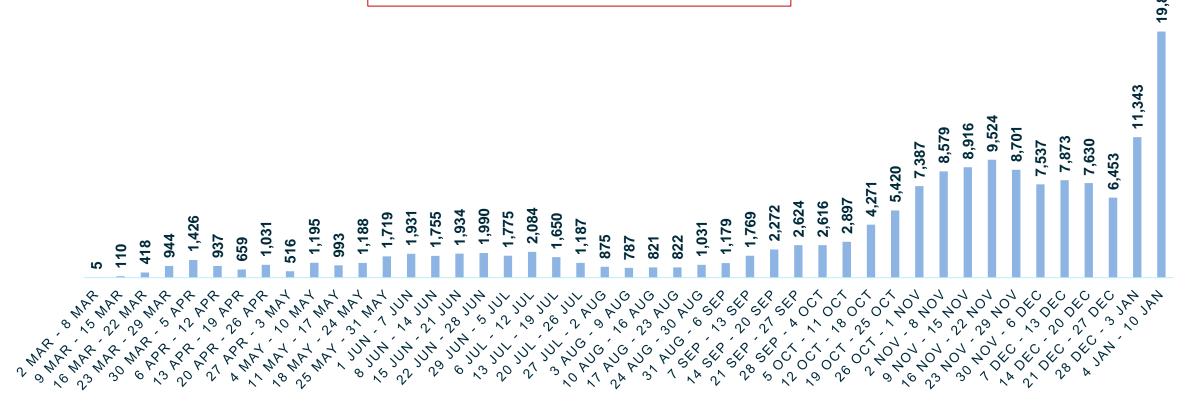






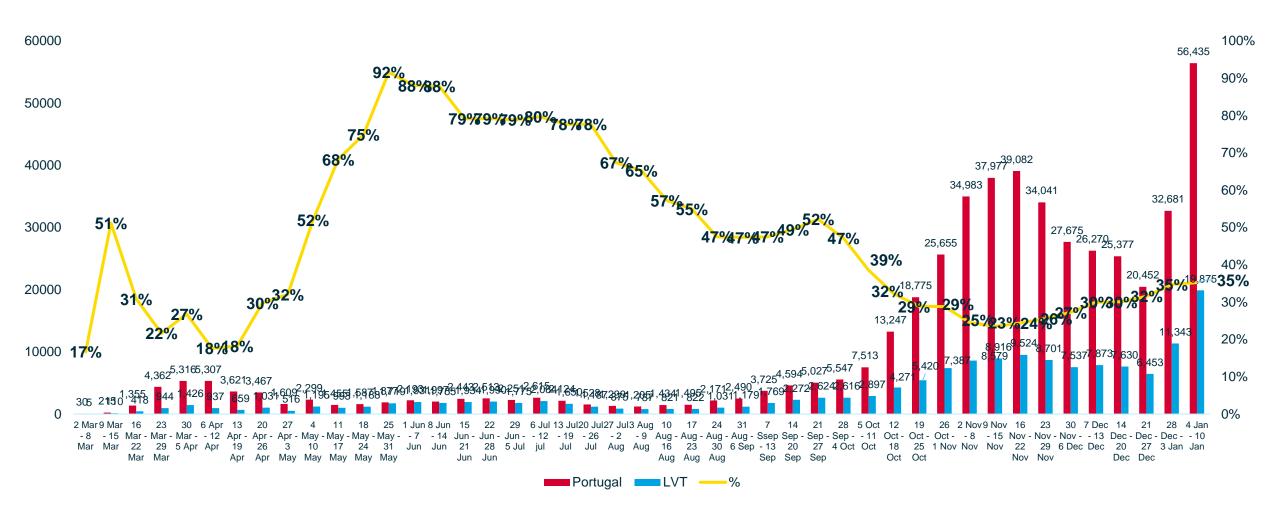
Coronavirus (SARS-CoV-2 / COVID 19)) – Lisbon and Tagus Valley - New cases per week

Total Cases in Lisbon and Tagus Valley: 160,553 2021.01.11





Coronavirus (SARS-CoV-2 / COVID 19) – % of new cases in Lisbon and Tagus Valley - New cases per week





Coronavirus - (SARS-CoV-2 / COVID 19) Portugal - cases per 100.000

11 January 2021

<20
20 - 59,9
60 - 119,9
120 - 239,9 Moderate Risk
240 - 479,9 High Risk
480 - 959,9 Very High Risk
≥960 Extremely High Risk

11 January 2021

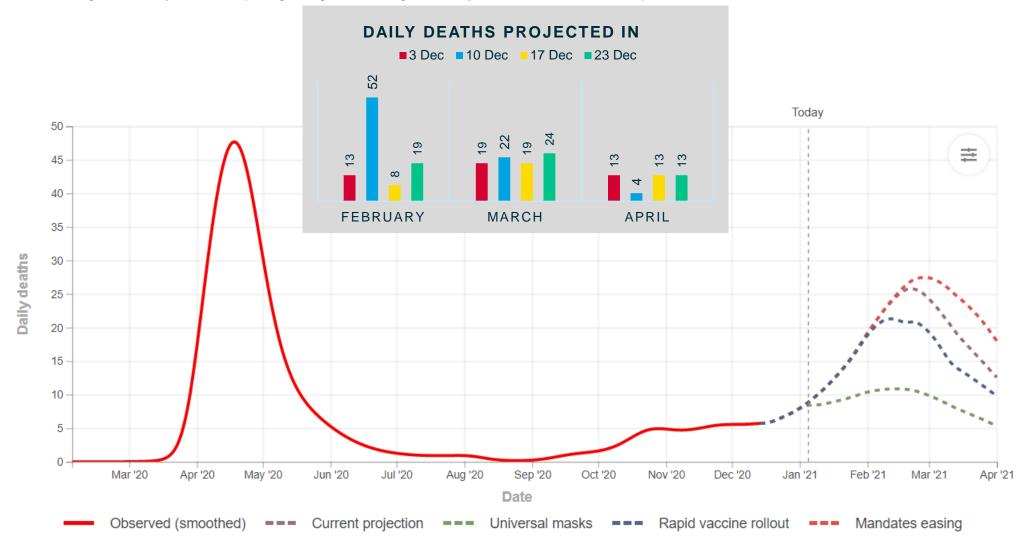


Ireland

Covid-19 Daily Deaths Projections in Ireland

4 January 2021 6 deaths Projected: 4 - 16

Due to significant delays in death reporting during and following the holidays, our estimates will not be updated for the week of Jan 4.



Current projection: Vaccine distribution is scaled up over 90 days.

Universal masks: Vaccine distribution is scaled up over 90 days. 95% mask usage is adopted in public.

Rapid vaccine rollout: Vaccine distribution is scaled up over 45 days

Rapid vaccine rollout to high-risk

Vaccine distribution is scaled up over 45 days. Vaccines are initially distributed to high-risk populations, followed by essential workers, and then all other adults.

Mandates easing: Vaccine distribution is scaled up over 90 days. Governments do not re-impose mandates if cases increase.

No vaccine: Assumes there is no vaccine distribution. Mask use and mandates continue at current levels.

Projection Daily Deaths

For 1 April 2021

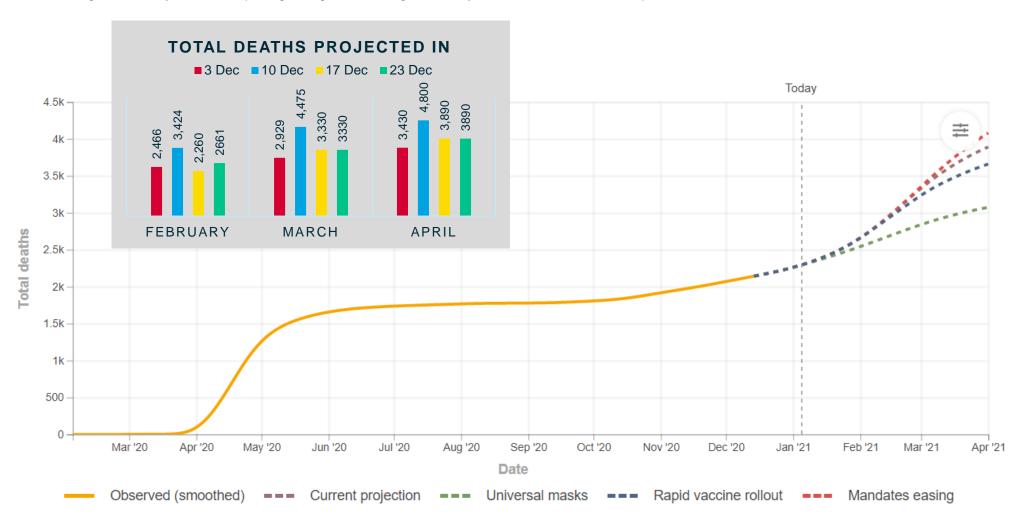
23 Dec Projection: 13 (4-28)

Rapid Vaccine Rollout: 10 (2-22)

Covid-19 Total Deaths Projections in Ireland

4 January 2021 2,265 deaths Projected: 2,231 – 2,380

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Projection Total Deaths

For 1 April 2021

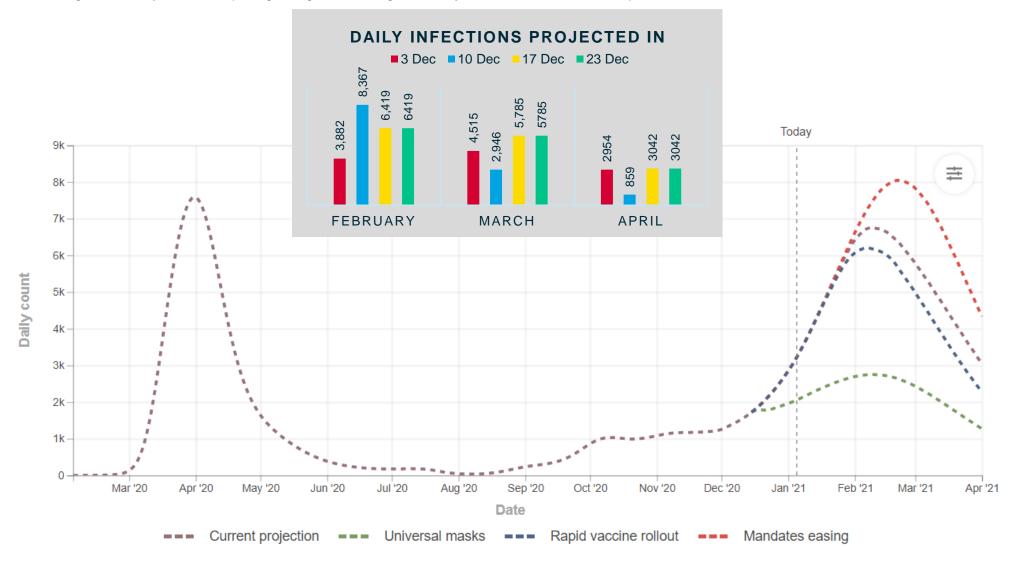
23 Dec Projection: 3,890 (2,812-4,840)

Rapid Vaccine Rollout: 3,659 (2,712-4,684)

Covid-19 Daily Infection Projections in Ireland

4 January 2021 **6,110 infections** Projected: 1,272 – 6,734

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Projection Daily Infections

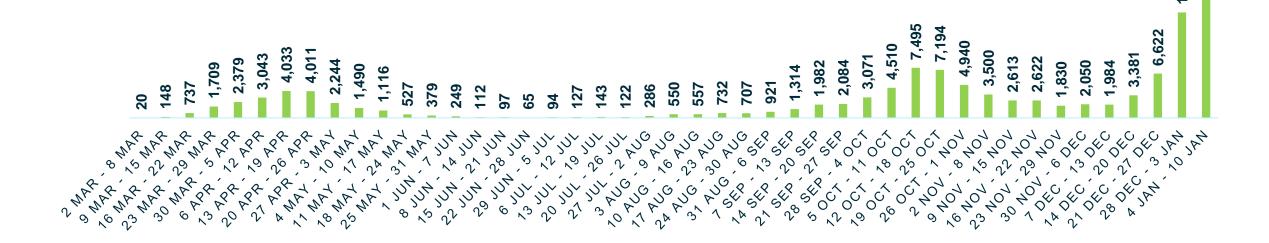
For 1 April 2021

23 Dec Projection: 3,042 (476-7,336)

Rapid Vaccine Rollout: 2,276 (301-5,382)

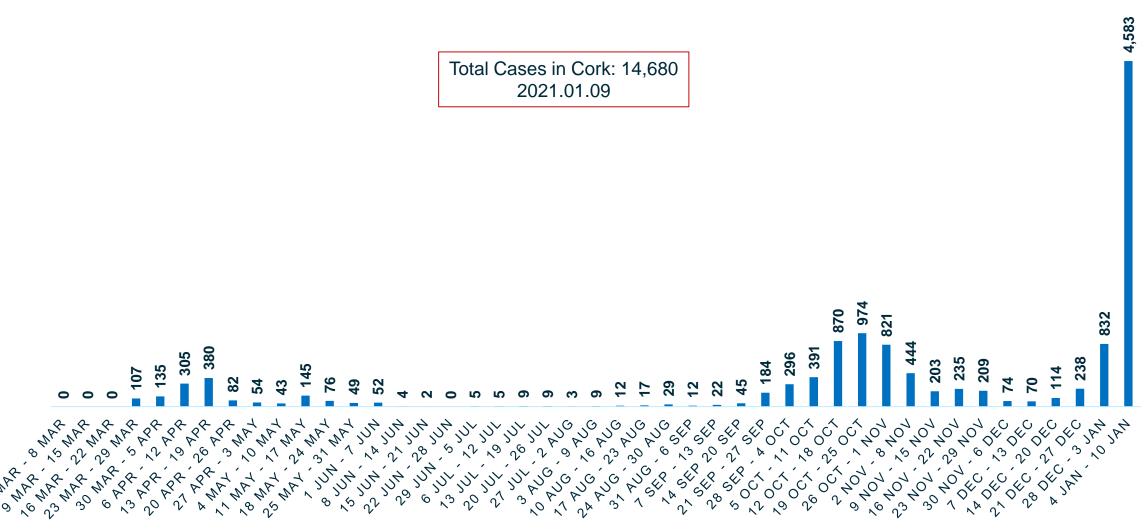
Coronavirus (SARS-CoV-2 / COVID 19)) – Ireland - New cases per week

Total Cases in Ireland: 152,539 2021.01.11



January 2021

Coronavirus (SARS-CoV-2 / COVID 19)) – Cork - New cases per week



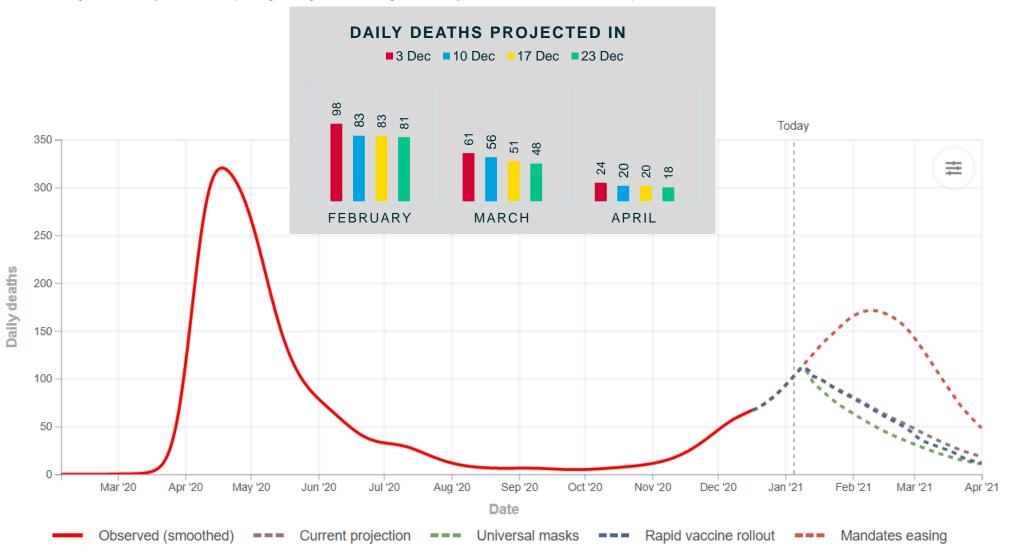


New Jersey

Covid-19 Daily Deaths Projections in New Jersey

4 January 2021 **36 deaths** Projected: 62 - 163

Due to significant delays in death reporting during and following the holidays, our estimates will not be updated for the week of Jan 4.



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Projection Daily Deaths

For 1 April 2021

23 Dec Projection: 18 (10-28)

Rapid Vaccine Rollout: 12 (6-19)

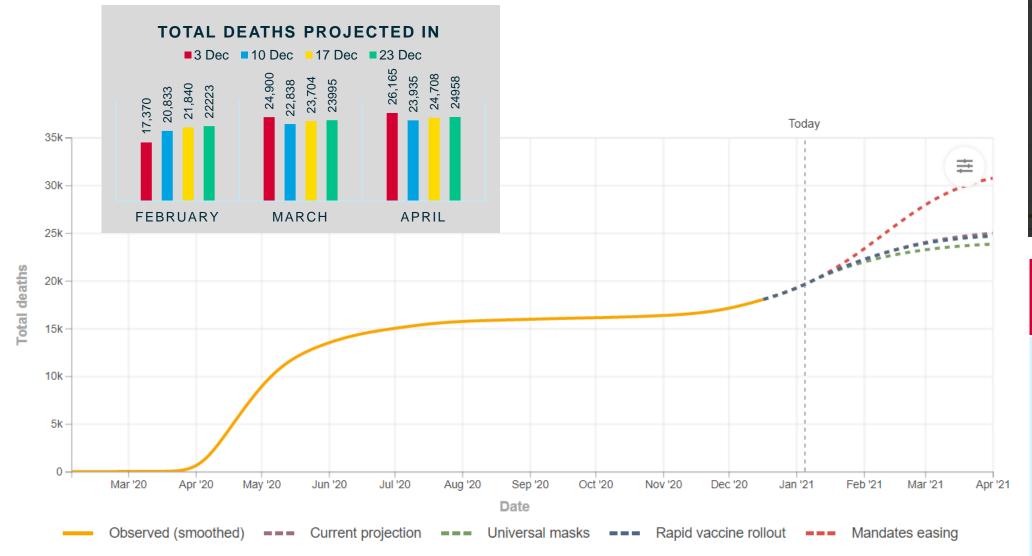
Covid-19 Total Deaths Projections in New Jersey

4 January 2021

17,223 deaths

Projected: 19,063 – 20,063

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Projection Total Deaths

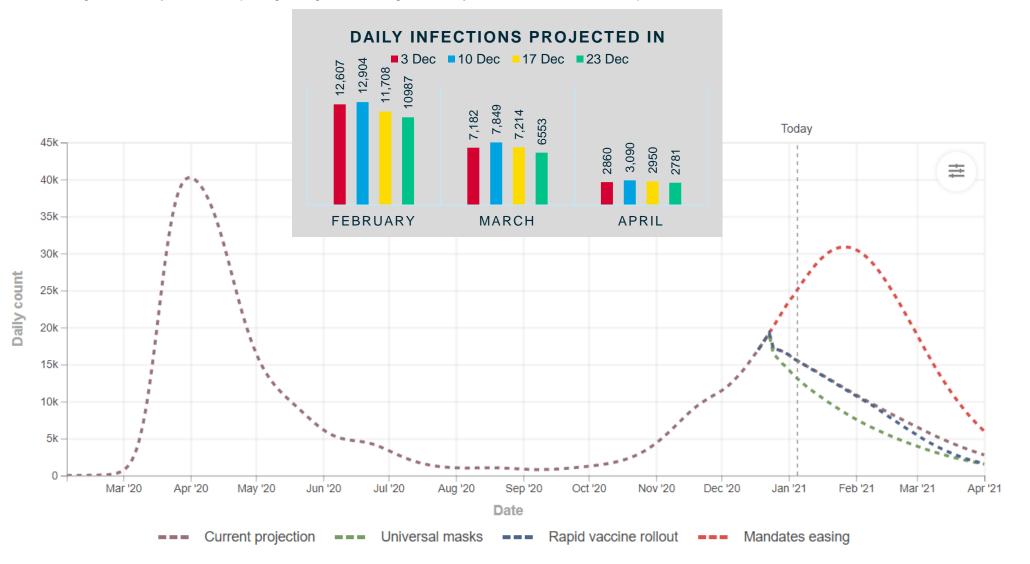
For 1 April 2021

23 Dec Projection: 24,958 (23,226-27,338)

Rapid Vaccine Rollout: 24,657 (23,037-26,987)

Covid-19 Daily Infection Projections in New Jersey 2,275 infections Projected: 11,789 – 22,558

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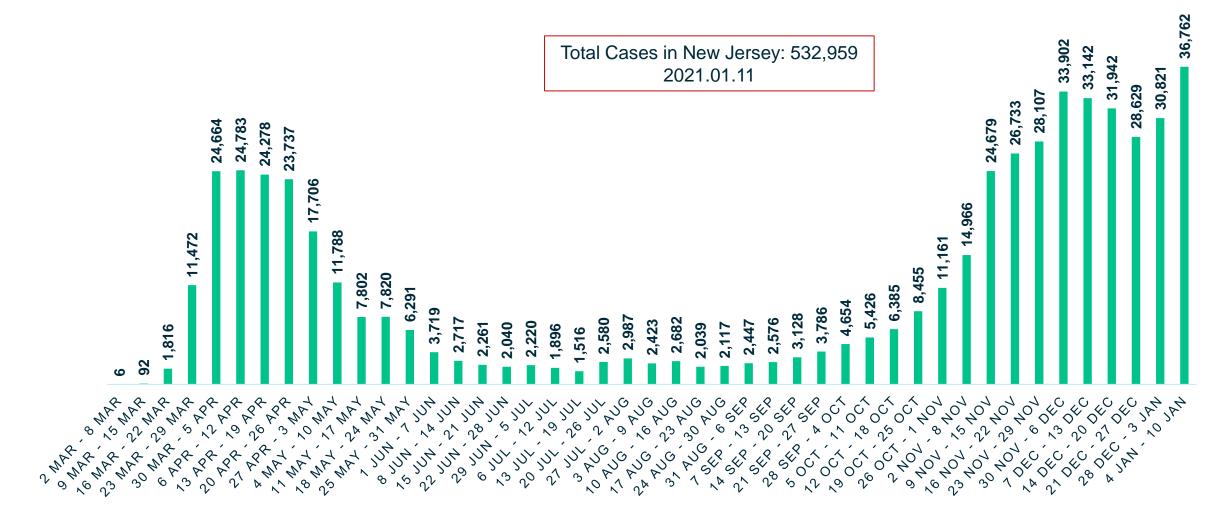
Projection Daily Infections

For 1 April 2021

23 Dec Projection: 2,781 (1,167 - 4,578)

Rapid Vaccine Rollout: 1,609 (613-2,829)

Coronavirus (SARS-CoV-2 / COVID 19)) – New Jersey - New cases per week





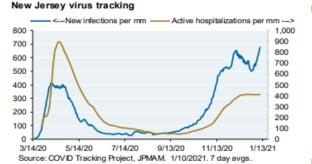
New Jersey

Coronavirus tracking



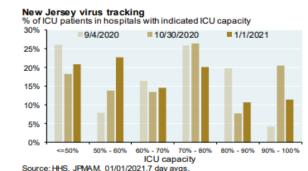
January 2021

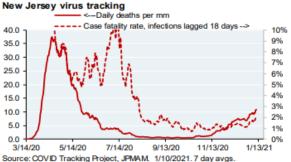
Eye on the Market Coronavirus tracking: New Jersey



New Jersey virus tracking Current hospitalizations and daily infections Daily deaths 9.000 350 — New daily infections (LHS) 8,000 300 ----Cur Hosp (LHS) 7,000 250 -Daily deaths (RHS) 6,000 200 5,000 4,000 150 3,000 100 2,000 50 1,000 5/14/20 7/14/20 9/13/20 Source: COVID Tracking Project, JPMAM. 1/10/2021. 7 day avgs.

New Jersey virus tracking Daily number of people tested for the first time per mm 9,000 8,000 7,000 4,000 3,000 2,000 1,000 3/14/20 5/14/20 7/14/20 9/13/20 11/13/20 1/13/2 Source: COVID Tracking Project, JPMAM. 1/10/2021. 7 day avgs.





JP Morgan

Michael Cembalest

New Jersey virus tracking

Daily deaths % of current hosp

Current hosp % of daily infections

450%

400%

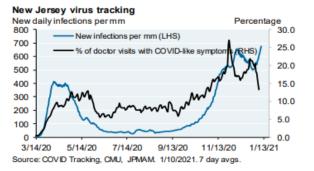
3.50%

3.00%

2.00%

1.00%

3/14/20 5/14/20 7/14/20 9/13/20 11/13/20 Source: COVID Tracking Project, JPMAM. 1/10/2021. 7 day avgs.



Recent News

Latest News

- DalCor announced the launch of dal-COVID, a Phase II proof-of-concept study for Dalcetrapib as an oral anti-viral treatment for Covid-19. Dalcetrapib binds to the catalytic site of 3CLMpro of the SARS-CoV-2 virus, thereby impeding its activity and viral reproduction. dal-COVID is a double-blind, placebo-controlled trial to be conducted in mild to moderate symptomatic Covid-19 patients.
- Moderna has announced that the UK's Medicines and Healthcare products Regulatory Agency (MHRA) has approved Covid-19 Vaccine Moderna, its mRNA vaccine candidate to fight the SARS-CoV-2 virus, under Regulation 174. The authorisation allows the Covid-19 Vaccine Moderna to be supplied to the UK on an emergency and temporary basis.
- Humanigen and Eversana have announced a partnership to launch and commercialise Lenzilumab for treating hospitalised and hypoxic Covid-19 patients. However, this would only occur after the US Food and Drug Administration (FDA) has issued an emergency use authorisation (EUA) for the recombinant monoclonal antibody.
- Biotech COVAXX has announced it has commenced pre-clinical work, design and testing of a second vaccine candidate to address the recent SARS-CoV-2 viral mutations, and particularly the South African variant.
- Global economic output is expected to expand by four percent in 2021 but will still remain more than five percent below pre-pandemic trends.
- The pandemic has forced governments and firms to adapt to a changing economic landscape, where protecting the poor has become imperative, while at the same time having to build effective policies to allow labour, capital, and innovation for a greener and stronger post-Covid recovery.
- The World Bank report also highlighted how investments have collapsed in many emerging and developing economies in 2020 due to the virus crisis but will eventually resume in 2021.

Latest News (cont.)

- BioNTech and Pfizer warned they had no evidence their vaccine would continue to work if the booster shot was given later than tested in trials. They said the "safety and efficacy of the vaccine has not been evaluated on different dosing schedules". The European Medicines Agency said the maximum interval between doses should be respected. It said the second dose should be administered no more than 42 days after the first.
- Moderna Inc. said it will make at least 600 million doses of its Covid-19 vaccine in 2021, with a goal of finishing the year with as many as 1 billion doses produced.
- The European Union's drug regulator said a decision on the safety and efficacy of Moderna Inc.'s Covid vaccine would come on Wednesday at the earliest. There had been speculation that a decision would come during a meeting Monday, but a spokesman for the European Medicines Agency said the discussion had not concluded and will continue Wednesday. Approval would give the EU a second cleared shot, after one from Pfizer Inc. and BioNTech SE got the go-ahead in December.
- Incidence of the new, more infectious strain of the coronavirus will rise sharply in the US over the next few months, said former Food and Drug Administration chief Scott Gottlieb. "There are some estimates that the new variant probably represents about 1% of all infections in this country. By March, it's going to be the majority of infections. It's going to grow quickly," Gottlieb said Sunday on CBS's "Face the Nation." The new variant has been found in at least three states after emerging in the UK.



Latest News (cont.)

- Europe's medicines regulator approved the use of Pfizer/BioNTech vaccine. The approval puts Europe on course to start inoculations within a week. EU countries including Germany, France, Austria and Italy have said they plan to start vaccinations from 27 December.
- The UK's chief scientific adviser, Patrick Vallance, warned the public to stay local to keep the new coronavirus strain in check, but said some areas of England will face tighter restrictions with the variant likely to spread across the country. Speaking at a press conference alongside Prime Minister Boris Johnson, who ordered London and much of southeast England into lockdown over the weekend, Vallance said current vaccines should work against the latest Covid-19 mutation.
- An overnight curfew from 11pm will come into force in Portugal on New Year's Eve, prime minister António Costa said, as the
 country introduces measures to reduce the spread of the coronavirus during the usually busy night.
- The US Food and Drug Administration approves an emergency use authorisation for Moderna's COVID-19 vaccine, mRNA-1273.
- China is planning to distribute 100 million vaccines made by Sinopharm and Sinovac before Lunar New Year to prevent
 coronavirus outbreaks during the holiday travel season, South China Morning Post reports, citing an unnamed health specialist "with
 knowledge of" a training meeting to prepare for mass inoculations. It is planning to vaccinate high-priority groups such as health workers,
 police officers and transport and logistic workers, while inoculations for the general public aren't expected to start until after the Chinese
 New Year.



Sources

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