

September 2021 snap shot COVID-19 data

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7th September 2021

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Despite a big increase in vaccination rates, infections are on the rise, deaths appear to be falling



An analysis of the current dominant variant, infections and deaths globally over time



Airfinity forecasts have been realistic to observed production

Comparison of Airfinity forecasts (made in early February) vs observed production up until July





Vaccine production could exceed 12 billion doses in 2021

Vaccine production forecast by dose split by candidate





Forecasted on 24/08/2021

*80% of the population aged 12 and over

Contracted production and supply chain agreements have increased steadily throughout the pandemic

Cumulative number of contracted production and supply chain agreements

Of the 12 billion doses forecast to be produced in 2021, 73% is expected from in house production



Number of contracted production and supply agreements over time



Decisions on boosters impact availability, all booster scenarios leave high stock levels to enable redistribution airfinity

Estimated redistribution doses following the vaccination of 80% of adults, teenagers and following boosters up until mid-2022

Available dose for redistribution analysis is calculated using Airfinity supply forecasts to each country, which are based on production scale-up forecasts. Surplus doses scenarios firstly account for initial vaccination campaigns – sufficient doses to fully vaccinate all eligible people – before then accruing supply for boosters, with the remaining supply being counted as available for redistribution. The following scenarios are calculated from supply to mid-2022. The scenarios shows the real-world uptake of vaccines and boosters for all (based on current data) and then compares this against an 80% uptake rate under different vaccination and booster scenarios, to show how many doses could be remaining from agreed supply of approved vaccines.



Updated 25th August

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Western countries can provide booster shots and still have more than a 1.2 bn doses in 2021 to redistribute

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Available supply per month, split into booster allocation for eligible and willing adults & teens and remaining supply of +SRA authorised vaccines only



*Vaccine availability analysis is not exclusive of already-pledged doses; this is shown in cumulative stock graph, and is broken down per country in appendix +SRA authorised vaccines only: only vaccines approved by a Stringent Regulatory Authority are included (+ Novavax)

Vaccine effectiveness remains high with delta variant

Vaccines remain effective against highly virulent delta reducing risk of hospitalisation and infection





Oral antivirals and monoclonals forecasted to have a great impact on standard of care in next 12 months



Last 12 months COVID-19 a further 8 treatments have been approved with 5 impacting standard of care



Molnupiravir, AT527, Camostat, Nitazoxanide, Peginterferon, PF-073					
AZD7442, BRII-196, BRII-298, Ty027					
	Ravulizumab-Cwvz,	Lanadelumab, Infliximab, Canakinumab, Lenzilumab			
	Baracitinib, Empagfligozin,, Sargramostin, Tofacitinib, Fluvoxamine, Budesonide, Famotidi				
Antivirals and monoclonals are forecasted to address much of the COVID-19 outpatient need	A combination c inflammator	of candidate types, including antithrombotic, IL-6 inhibitors and anti- y agents are forecasted to address the COVID-19 inpatient need			

Updated as of: 02/09/21

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MORE INFORMATION

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Forecast of available doses split by vaccine*





Promising COVID-19 vaccine candidates in the pipeline



Overview of candidates and clinical trial phase



*Using the airfinity model

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An analysis of the number of collaborations confirmed for vaccine manufacturing



Total number of vaccine manufacturing and supply chain announcements (including in-house)

Number of manufacturing and supply chain announcements that are contracted out only

Overview of clinical development for COVID-19 treatment candidates



	Candidate	Туре	Company	Route of Administra <u>tion</u>	Latest Trial Data	Rolling Review	Filing	Approved (Country list)
	Molnupiravir (MK-4482)	Antiviral	Merck/Ridgeback Therapeutics	Oral	III	Yes		
Outpatient	Fluvoxamine	Antidepressant	47 suppliers	Oral	III			
	Budesonide	Corticoids	64 suppliers	Inhaled	III			
	AT-527	Antiviral	Roche/Atea Pharmaceuticals	Oral	II			
	PF07321332	Antiviral	Pfizer	Oral	II/III			
	Vir-7831 (Sotrovimab)	Monoclonal	GSK/Vir Biotechnology	IV/IM	II/III			US, EU, Canada, Australia, UAE, Kuwait
	REGEN-COV (Casirivimab/Indevimab)	Monoclonal	Roche/Regeneron	IV/subQ	III			US, EU, UK, Canada, Japan, Brazil, Bahrain, Panama, Switzerland
	AZD7441	Monoclonal	AstraZeneca	IM	III		Yes	
	Baricitinib	Anti-inflammatory	Eli Lilly/Nacto Pharma	Oral	III			US, Russia, Mexico, Japan, India
	Tofacitinib	Anti-inflammatory	Shuoyuan Chemicals	Oral	III			
	Enoxaprin (LMWH)	Antithrombotic	19 suppliers	IV/subQ	IV			Off label
Ð	Apixaban (LMWH)	Antithrombotic	86 suppliers	subQ	IV			Off label
ווסמר	Tocilizumab	Monoclonal IL-6 blocker	Roche/Genetech	IV/subQ	II/III			US, UK China, Russia, India, Pakistan, Mexico
	Sarilumab	Monoclonal IL-6 blocker	Sanofi/Regeneron	subQ	III			UK
	REGEN-COV (Casirivimab/Indevimab)	Monoclonal	Roche/Regeneron	IV/subQ	III			US, EU, UK, Canada, Japan, Brazil, Bahrain, Panama, Switzerland
	Empagliflozin	Antidiabetic	Boehringer Ingelheim/Eli Lilly	Oral	II/III			

Better than SOC 🔲 Moderately better than SOC 📒 Equal to SOC 💼 Rejected/worse than SOC 🗔 No/insufficient data



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THE WORLD'S TRUSTED COVID-19 PLATFORM

Airfinity is a life science analytics company. Working with some of the world's largest pharma companies, government agencies, corporates and investors, it has established itself as an authoritative provider of new predictive insights and accurate independent information.

Airfinity has built the world's leading COVID-19 science and market intelligence platform.

The company is headquartered in London and partners with organisations worldwide.

Airfinity's COVID-19 data was seen by more than 2 billion people in 2020.

"Airfinity has been instrumental in our country's COVID response"

Head of Government Vaccine Task Force

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