

DR VIVIENNE SHARMA

CURRENT COVID CLIMATE



LATEST FIGURES

As of April 22nd 2021:

- 141 million worldwide cases, 80.4 recovered. Greater than 3 million deaths
- Australia – 29588 cases, 910 deaths, 2220 active cases, over 16 million tests. Cases mostly in returned travellers with mandatory hotel quarantine still in place.

As of April 29th 2021

- 150+ million worldwide cases, 127+ recovered. Greater than 3 million deaths
- Australia – 29769 cases, 910 deaths, 276 active cases.



COVID-19 Dashboard by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins ...



Global Cases

143,863,080

Cases by Country/Region/Sovereignty

31,862,375 US

15,930,774 India

14,122,795 Brazil

5,436,229 France

4,673,609 Russia

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Last Updated at (MM/DD/YYYY)
4/22/2021, 3:20 PM



Cumulative Cases

Incidence Rate

Case-Fatality Ratio

Testing Rate

192

countries/regions

Lancet Inf Dis Article: [Here](#). Mobile Version: [Here](#). Data sources: [Full list](#). Downloadable database: [Citibab](#), [Feature Layer](#)

Global Deaths

3,058,161

569,402 deaths US

381,475 deaths Brazil

213,597 deaths

Global Dea...

Total Test Results in US

419,722,893

58,075,920 tests California US

49,224,295 tests New York US

22,494,107 tests

US Test Re...



Daily Cases



COVID-19 Dashboard by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins ...



Global Cases

149,635,392

Cases by

Country/Region/Sovereignty

32,229,598 US

18,376,421 India

14,521,289 Brazil

5,626,985 France

4,751,026 Turkey

4,732,981 Russia

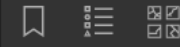


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Last Updated at (M/D/YYYY)

4/29/2021, 3:21 PM



Esri, FAO, NOAA

Cumulative Cases

Incidence Rate

Case-Fatality Ratio

Testing Rate

192

countries/regions

Lancet Inf Dis Article: [Here](#). Mobile Version: [Here](#). Data sources: [Full list](#). Downloadable database: [GitHub](#), [Feature Layer](#).

Global Deaths

3,151,064

574,326 deaths
US

398,185 deaths
Brazil

215,918 deaths
Mexico



Global Dea...



Total Test Results in US

429,561,249

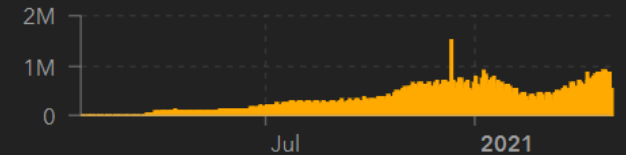
59,484,125 tests
California US

50,591,724 tests
New York US

22,855,470 tests
Texas US



US Test Re...



Daily Cases



WHAT ABOUT VACCINES?

- World immunisation week – every year in the last week of April – this years theme – Vaccines bring us closer.
- As of 18 February 2021, at least seven different vaccines across three platforms have been rolled out in countries.
- There are currently 19 vaccines either rolled out or in development throughout the world. For more information go to:
https://extranet.who.int/pqweb/sites/default/files/documents/Status_COVID_VAX_23April2021.pdf



VACCINE ROLLOUT IN AUSTRALIA

- Currently rolling out to phase 1a and 1b based on covid vaccine eligibility.

<https://www.health.gov.au/resources/apps-and-tools/covid-19-vaccine-eligibility-checker>

- Pfizer – rolling out to phase 1a through centralised vaccination hubs mainly in hospitals, due to storage constraints. According to the eligibility checker website further sites will come online “later this week”
- Astra Zeneca – rolling out mainly to phase 1b through general practice and vaccination centres. Now targeting over 50’s.

COVID-19 vaccination in NSW

3,728

doses administered by
NSW Health in the
past 24 hours¹

202,220

doses administered by
NSW Health since
22 February 2021²

406,318

doses administered by Australian
Government providers, including GPs
since 22 February 2021³

608,538

doses administered in
NSW since
22 February 2021

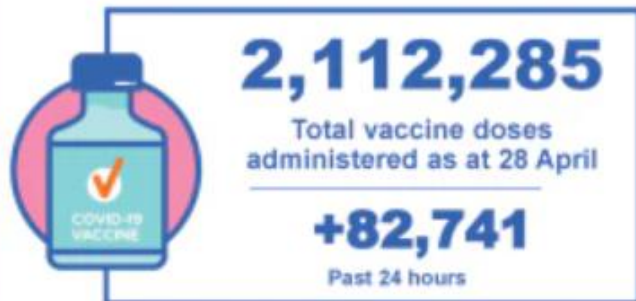
1. Refers to COVID-19 vaccine doses administered from 8pm 27 April to 8pm 28 April 2021.

2. Total for NSW Health is as of 8pm 28 April 2021.

3. Total for Australian Government providers, including GPs is as of 11:59pm 27 April 2021.

Data as at:
28 Apr 2021

Total vaccine doses



Commonwealth vaccine doses
1,335,918
(+67,344 last 24 hours)



Commonwealth vaccine doses in primary care
1,117,118
(+59,314 last 24 hours)



Commonwealth vaccine doses in aged and disability facilities
218,800
(+8,030 last 24 hours)



776,367 (+15,397 past 24 hours)

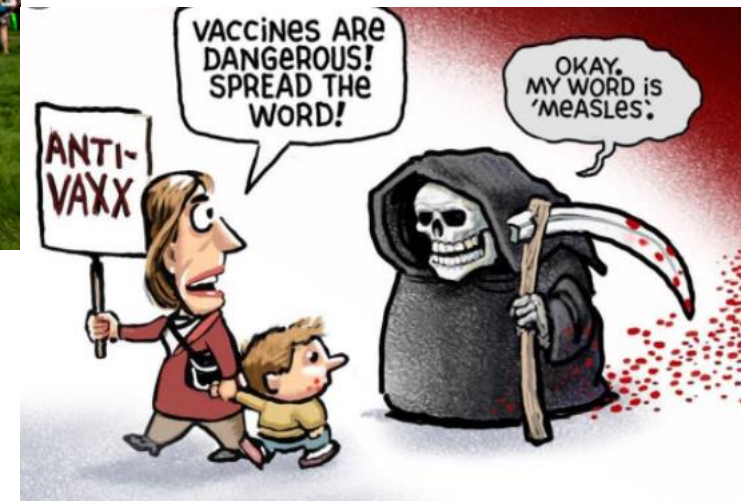
Total vaccine doses administered as in State and Territory clinics as at 28 April



* Source: Australian Immunisation Register and self reported data

VACCINE HESITANCY

- Vaccine hesitancy is real. Defined by the WHO as a “delay in acceptance or refusal of vaccines despite availability of vaccination services”, has been reported in more than 90% of countries in the world.
- Article in the Lancet in May 2019 – before Covid 19.
- Covid 19 vaccines – media articles reporting “breakthrough infections”, reporting efficacy incorrectly – 95% efficacy does not mean there is a 5% chance you will get covid, antivaxxers on social media, scary reports of adverse effects.



Source: Source: [https://www.thelancet.com/journals/lanchi/article/PIIS2352-4642\(19\)30092-6/fulltext](https://www.thelancet.com/journals/lanchi/article/PIIS2352-4642(19)30092-6/fulltext)

WHAT ABOUT THE BLOOD CLOTS?

- Recent study led by Professor Paul Harrison and Dr Maxime Taquet from Oxford University's Department of Psychiatry and the NIHR Oxford Health Biomedical Research Centre, counted the number of CVT cases diagnosed in the two weeks following diagnosis of COVID-19, or after the first dose of a vaccine. They then compared these to calculated incidences of CVT following influenza, and the background level in the general population

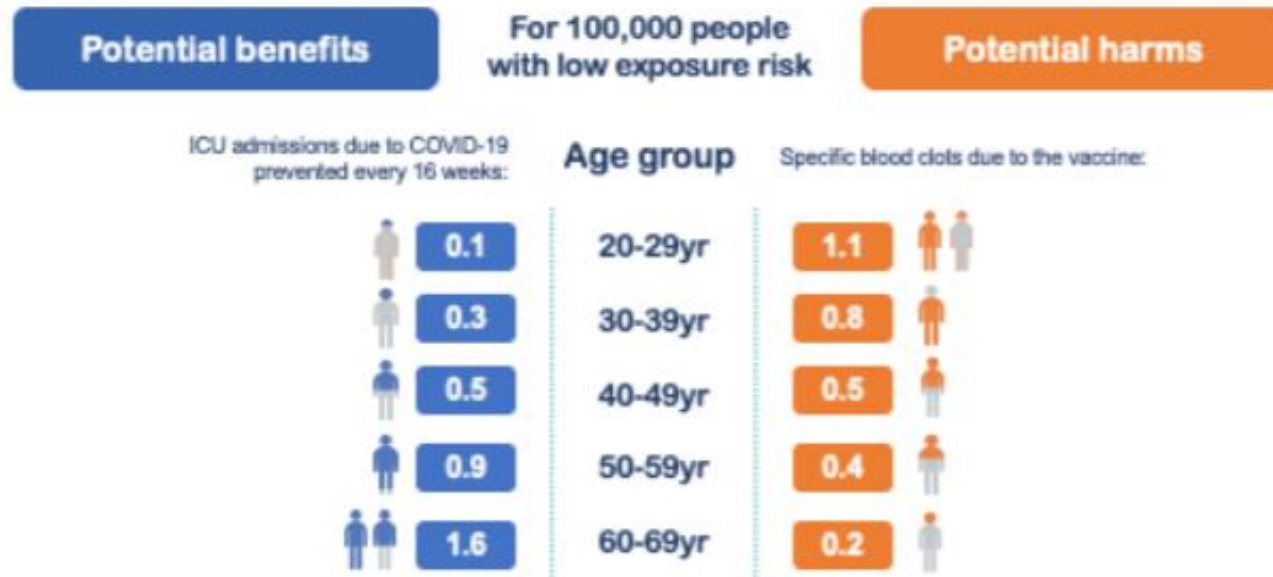
The breakdown comparison for reported cases of CVT in COVID-19 patients in comparison to CVT cases in those who received a COVID-19 vaccine is:

- In this study of over 500,000 COVID-19 patients, CVT occurred in 39 in a million patients.
- In over 480,000 people receiving a COVID-19 mRNA vaccine (Pfizer or Moderna), CVT occurred in 4 in a million.
- CVT has been reported to occur in about 5 in a million people after first dose of the AZ-Oxford COVID-19 vaccine.
- Compared to the mRNA vaccines, the risk of a CVT from COVID-19 is about 10 times greater.
- Compared to the AZ-Oxford vaccine, the risk of a CVT from COVID-19 is about 8 times greater.

Source: <https://oxfordhealthbrc.nihr.ac.uk/risk-of-rare-blood-clotting-higher-for-covid-19-than-for-vaccines/>

Scenario 1 - Exposure risk similar to first wave of COVID-19 in Australia for severe COVID-19 disease requiring ICU admission (in a 16 week period)

Weighing up the potential benefits and harms of the Astra-Zeneca COVID-19 vaccine

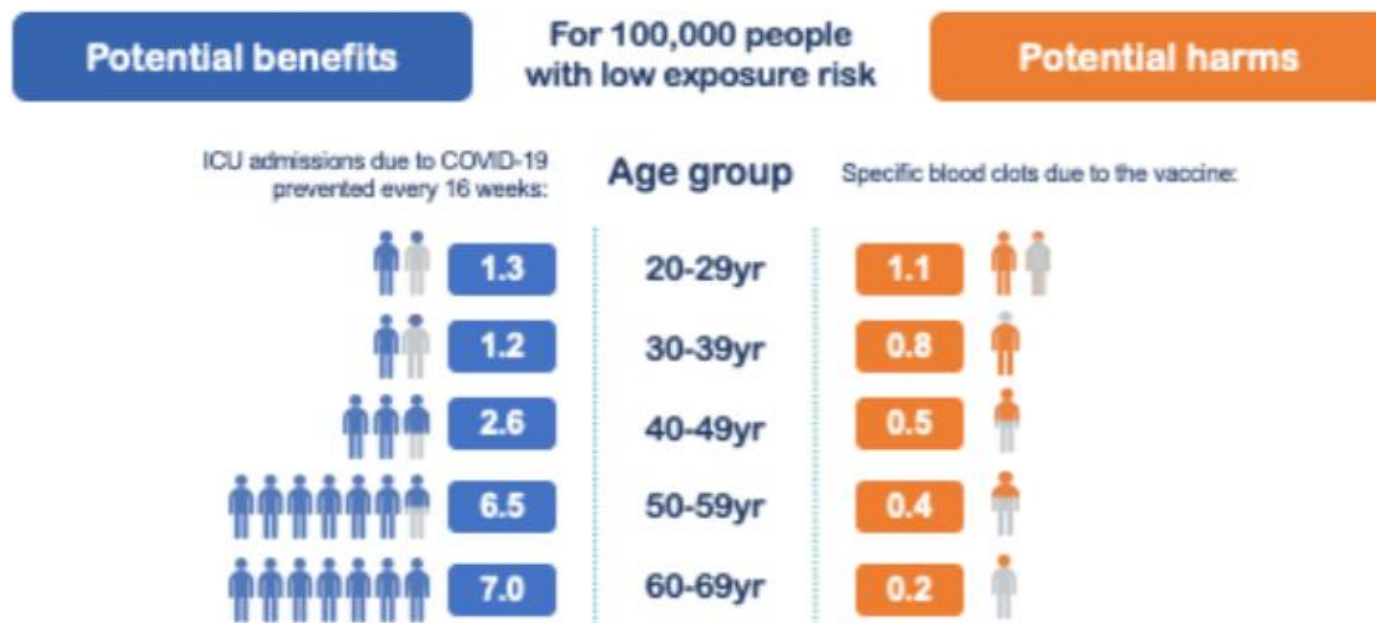


In Scenario 1, the benefits of vaccination with AstraZeneca in preventing severe COVID-19 outweigh harms from TTS in people aged 50 years and over. This is based on a scenario of low level of exposure to COVID-19, at 29 people per 100,000 overall in a 16-week period.

Source: <https://www.health.gov.au/sites/default/files/documents/2021/04/covid-19-vaccination-weighing-up-the-potential-benefits-against-risk-of-harm-from-covid-19-vaccine-astrazeneca.pdf>

Scenario 2 – Exposure risk similar to second wave of COVID-19 in Victoria for severe COVID-19 disease requiring ICU admission (in a 16 week period)

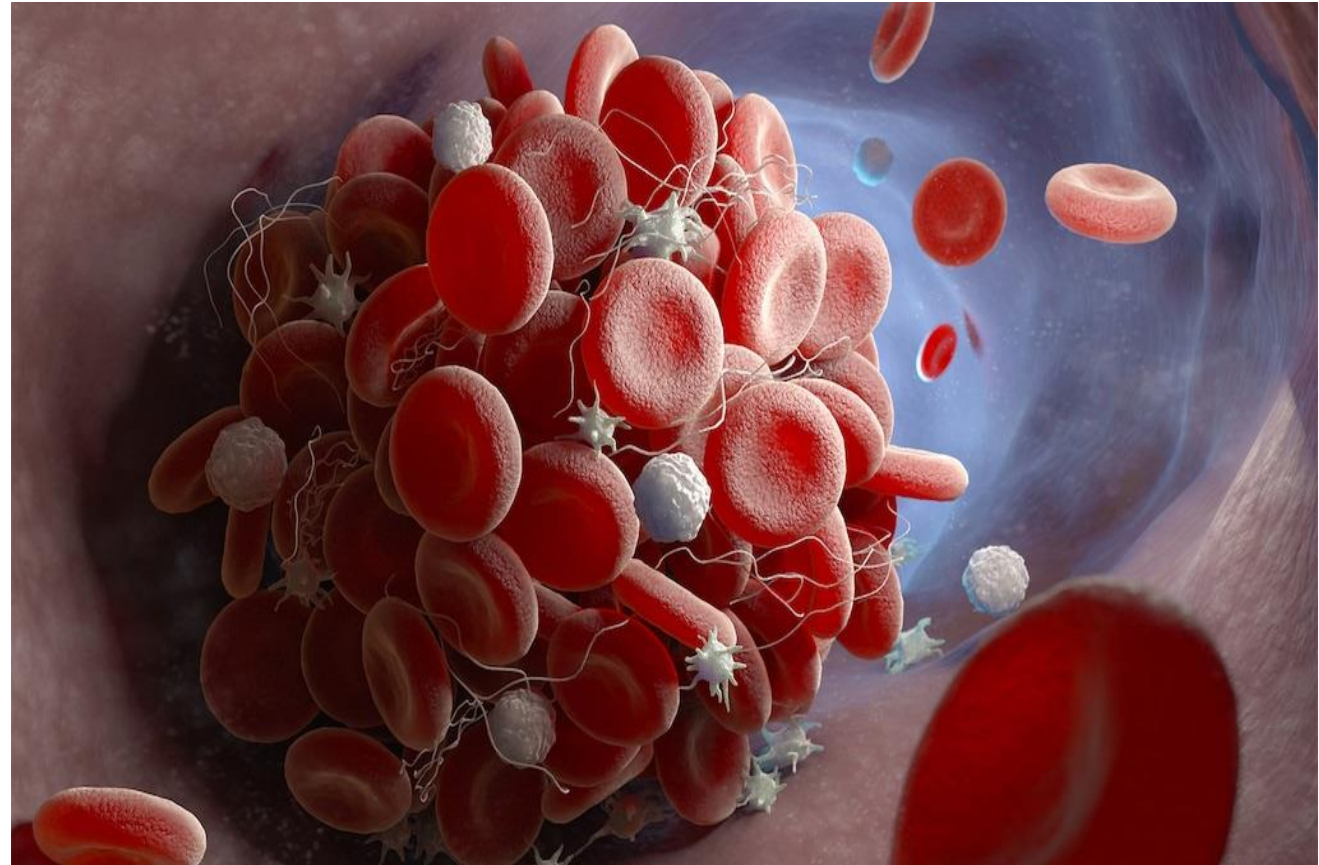
Weighing up the potential benefits and harms of the Astra-Zeneca COVID-19 vaccine



In Scenario 2 the potential benefits of vaccination with AstraZeneca in preventing severe COVID-19 outweigh harms from TTS even for younger adults (aged less than 50 years). This is based on a scenario of higher level of exposure to COVID-19, at 275 per 100,000 overall in a 16-week period.

VACCINE-INDUCED IMMUNE THROMBOTIC THROMBOCYTOPENIA

- The European Medicines Agency has said that, as of April 20, there have been 287 reports of rare blood clots with low platelets after administration of the AstraZeneca vaccine, eight with Johnson & Johnson, 25 with Pfizer, and five with Moderna. The clots are notable because many have occurred in unusual and deadly locations in the veins that drain the brain (known as cerebral venous sinus thrombosis) and the abdomen (known as splanchnic vein thrombosis).



Source: <https://www.medpagetoday.com/special-reports/exclusives/92243>

VACCINE-INDUCED IMMUNE THROMBOTIC THROMBOCYTOPENIA

- International Society on Thrombosis and Haemostasis Interim Guidance for the Diagnosis and Treatment of Vaccine Induced Immune Thrombotic Thrombocytopenia (Updated 20 April, 2021)
- Signs/symptoms suggestive of thromboembolism 4-28 days post Covid-19 vaccinations, include (but not limited to) NEW ONSET :
 - Severe, persistent headache +/- vision change, seizure-like activity
 - Severe, persistent abdominal pain
 - Leg swelling or pain
 - Chest pain and/or shortness of breath
- Order appropriate imaging tests to confirm thromboembolism based on symptom presentation (e.g., CT venogram head for headache, CT venogram abdomen for abdominal pain).
- Order an urgent full blood count, coagulations studies incl. fibrinogen and D-dimer.
- Or send to Emergency Department of nearest hospital.

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