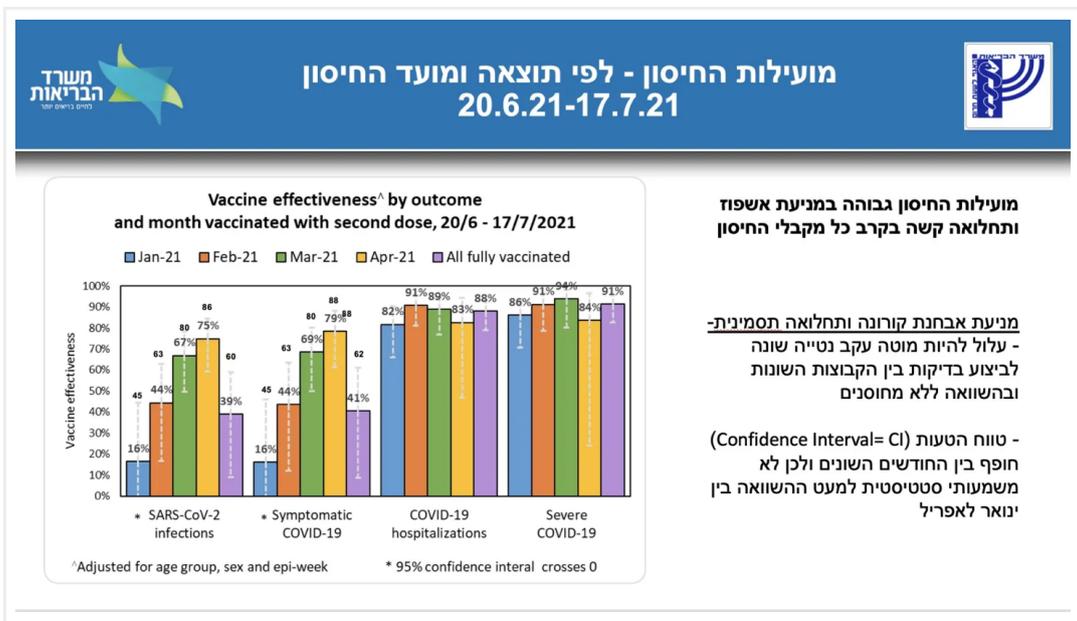




# Covid Vaccines: The Good, The Bad, The Ugly



Israel: Pfizer vaccine effectiveness by outcome and time of vaccination

(MOH/Segal)

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**The latest data from Israel and the UK on covid vaccine effectiveness.**

The latest data **from Israel**, which has used primarily the Pfizer mRNA vaccine, **indicates that** vaccine effectiveness against Delta coronavirus infection and symptomatic (“mild”) disease has dropped from about 95% to about 40%, whereas effectiveness against hospitalization and severe disease (i.e. low blood oxygen levels) remains at 80% to 90% (see chart above).

Importantly, in people who got vaccinated already in January 2021 (primarily the elderly), protection against infection and mild disease may already have dropped to near 0% (see chart above).

Moreover, since the Delta covid outbreak is still accelerating in Israel, the effectiveness against hospitalization and severe disease may further decrease (due to lags in hospitalizations).

(**Update:** New data from Hebrew University shows that protection against severe disease has already **dropped to 80%**; compared to the original 96%, this results in a five-fold increase in residual risk.)

**In the UK**, which has primarily used the AstraZeneca DNA adenovector vaccine, the latest estimate by researchers at University College London indicates an effectiveness against infection of **close to 0%** and an effectiveness against severe disease of **about 60%**. In very senior citizens, the effectiveness against severe disease may be even lower (due to a weaker immune response).

(A **substantially higher estimate** by Public Health England, recently published in the New England Journal of Medicine, was based on outdated data from early June. Interestingly, the British government hasn't updated its data on AstraZeneca vaccine effectiveness since June 13. **Update:** New data from PHE confirms that effectiveness against infection has dropped **below 20%**.)

The Israeli data shown above indicates that effectiveness against infection and mild symptoms **decreases rapidly** over time and reaches near-zero levels after about half a year. Most likely, this is because covid vaccines do not achieve **mucosal immunity** (in contrast to natural infection) and serum antibody levels (i.e. antibodies in the blood) **decrease within months** (see chart below).

Thus, the **false promise** of very high protection against “symptomatic infection”, found during official vaccine trials, was simply based on very high short-term serum antibody levels mimicking mucosal immunity. Conceivably, the pharmaceutical companies may even have known that this was just a (very lucrative) “flash in the pan” and not a lasting protective effect.

In contrast, protection against **severe disease** is achieved by **lower serum antibody levels** in combination with **immunological memory** (B cells) and cellular immunity (T cells). However, the Delta variant has already achieved **partial immune evasion** (as did Beta and Gamma, but not Alpha), and future coronavirus variants will likely achieve almost complete immune evasion.

Thus, vaccine protection even against severe disease will likely further decrease due to **new variants**, or, in the very worst case, will turn into **antibody-dependent disease enhancement** (ADE), if high levels of non-neutralizing antibodies aggravate the infection. Indeed, this is what happened in the case of vaccines against SARS-1 and dengue fever.

To prevent such a decrease in protection against severe disease, or to restore short-term protection against infection and mild disease, updated “**booster shots**” will likely become necessary.

However, there is a **very real risk** that additional vaccinations, which inject or induce the coronavirus spike protein, could substantially increase the risk of serious **cardiovascular and neurological adverse events**, such as strokes, GBS and heart muscle inflammation. Globally, covid vaccines may already have

killed **tens of thousands of people**. Alternatives include safer **oral vaccine candidates** or medically supervised, low-dose oral **live virus challenges** in low-risk people.

Furthermore, the **millions of people** who were told that vaccination will protect them against a coronavirus infection will soon have to realize (once again) that this is not the case: instead, most of them will get infected anyway. On the positive side, this may actually provide additional mucosal immunity to large parts of the population while being mostly protected against severe disease.

Indeed, data **from Israel** as well as **recent studies** all indicate that a previous coronavirus infection continues to offer the **best protection** against future infections and disease.

In contrast, vaccination cannot achieve “sterile immunity” against infection and infectiousness. Thus, the whole idea of “**vaccination certificates**” **has become obsolete** – at least from a medical and epidemiological perspective – and should be rejected: the claim that it’s just “the unvaccinated” that are driving outbreaks – a claim **made by many authorities** – is simply false.

For instance, just this week a “fully vaccinated” Australian managed to **pre-symptomatically infect about 60 people** at a party in the United States. Many similar stories have already been reported **in Europe and Israel**: fully vaccinated people can easily transmit the virus even to large groups. Hence, imposing “vaccination certificates” or “green passes” may only serve a **political purpose**.

(**Update:** New data from Israel **shows that** 80% of fully vaccinated people haven't infected others in public spaces. While authorities claim that this is a good result, in reality, it is **not any different** from unvaccinated people, thus confirming zero effectiveness against infection *and* transmission.)

In many countries, **mass vaccination campaigns** have themselves **triggered** large coronavirus outbreaks (“**post first dose spike**”), possibly due to a combination of vaccine-induced temporary immune suppression and infections at large indoor vaccination centers visited by thousands of people. The vaccine-induced temporary immune suppression may also explain the frequently observed post-vaccination **appearance of shingles** (i.e. herpes zoster reactivation).

Concerning **children**, since covid remains mostly asymptomatic or mild in them anyway, and since vaccination cannot prevent infection and infectiousness, the vaccination of children and even of young low-risk adults becomes increasingly difficult to justify, especially given the very real **vaccine-associated cardiovascular risks** to them (e.g. teen myocarditis and cerebral blood clots).

A look at covid data in places like **Israel, the UK and Portugal** – which were first in Europe to experience the Delta variant summer wave – confirms that, while infections have skyrocketed, hospitalizations have remained rather low and deaths have remained very low so far (see charts below). In contrast, in **countries with a low vaccination rate** – such as India, Russia, as well as many Asian and African countries, Delta covid deaths have

reached all-time record levels (see below).

**In conclusion**, and as [argued previously](#), vaccine protection against infection and “mild disease” has pretty much collapsed, whereas protection against severe disease and death remains at a reasonable level, with the partial exception of the most senior citizens and especially nursing home residents, some of whom [have never mounted](#) a neutralizing antibody response to the vaccine. Moreover, future coronavirus variants will likely achieve [additional immune evasion](#).

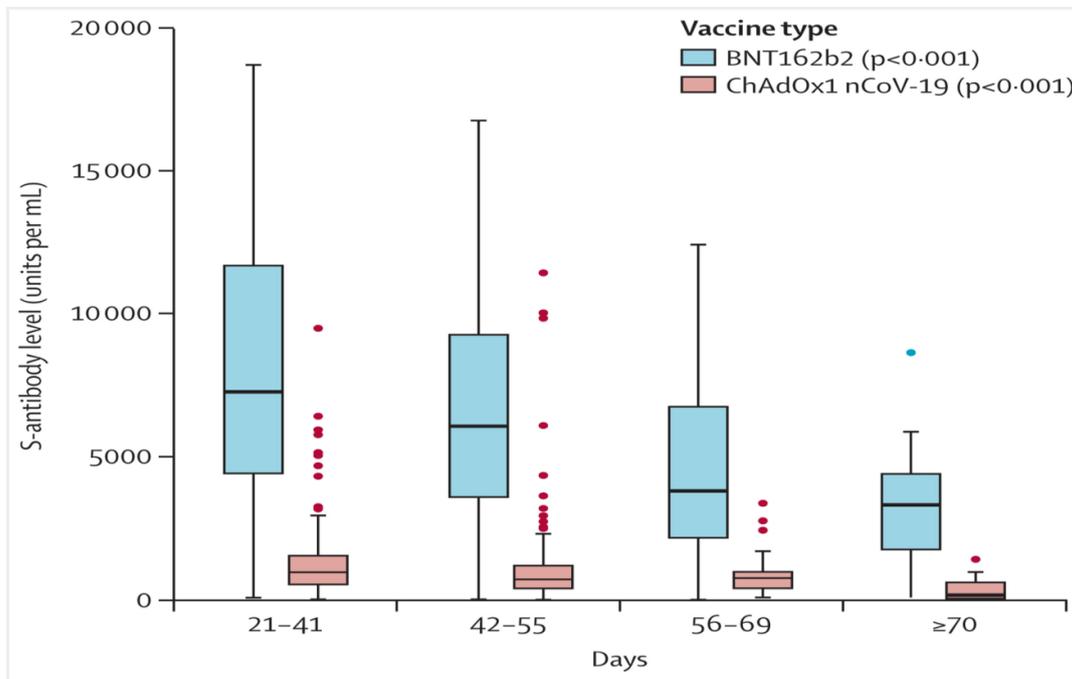
Given the current situation and outlook, it may once again be emphasized that research and implementation of [early treatment options](#) for high-risk patients – especially anti-viral, anti-inflammatory (immuno-modulatory) and anti-thrombotic treatment – should be a top priority.

**See also:** [The latest on covid vaccine adverse events](#) (SPR)

## Figures

### **A) Serum antibody levels after vaccination**

Serum antibody levels after vaccination with Pfizer (blue) and AstraZeneca (red).

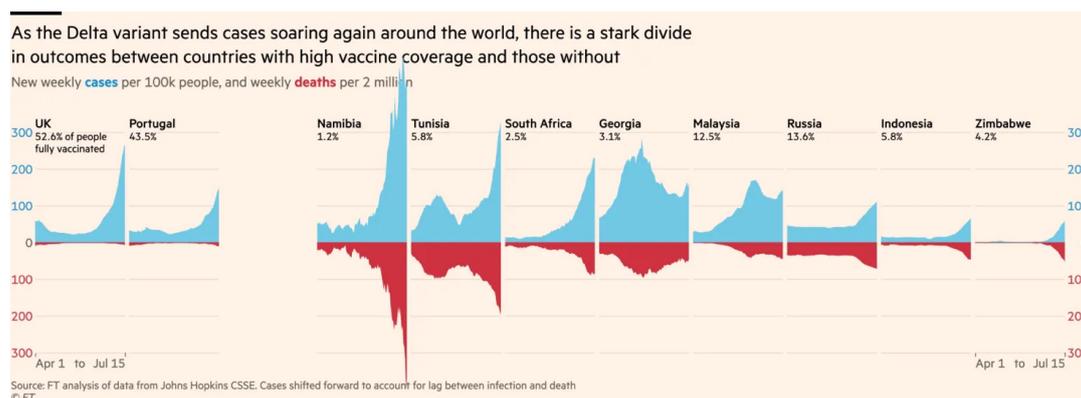


Serum antibody levels after vaccination with Pfizer (blue) and AstraZeneca (red)

(Shrotri et al)

### B) Vaccination rate vs. Delta cases and deaths

Delta cases and deaths in countries with high and low vaccination rate.

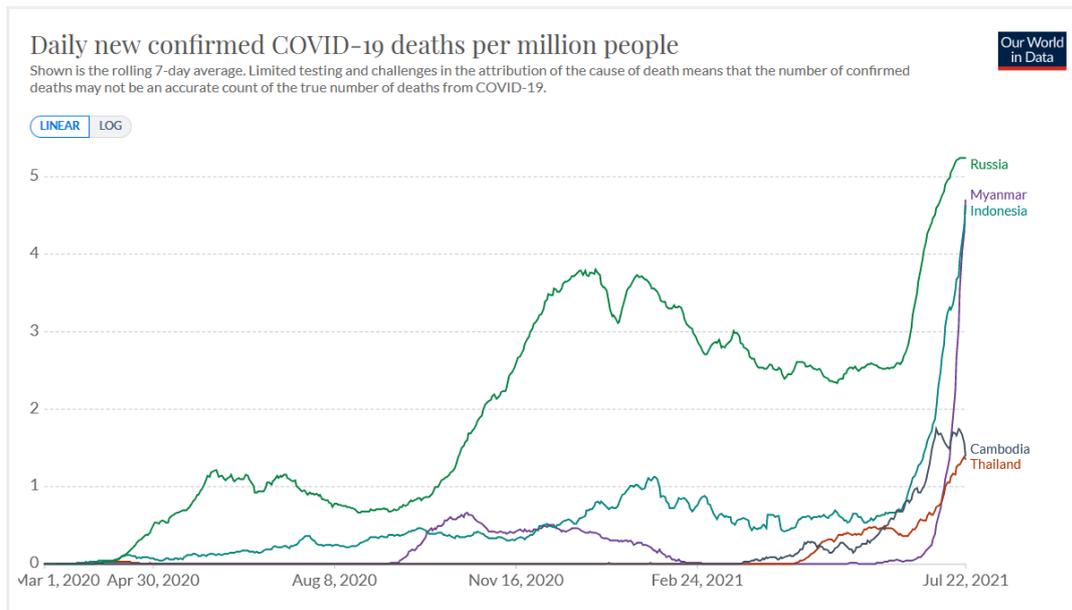


Delta cases and deaths in countries with high and low vaccination rate. (FT/Burn-

Murdoch)

### C) Delta deaths in Russia and Asian countries

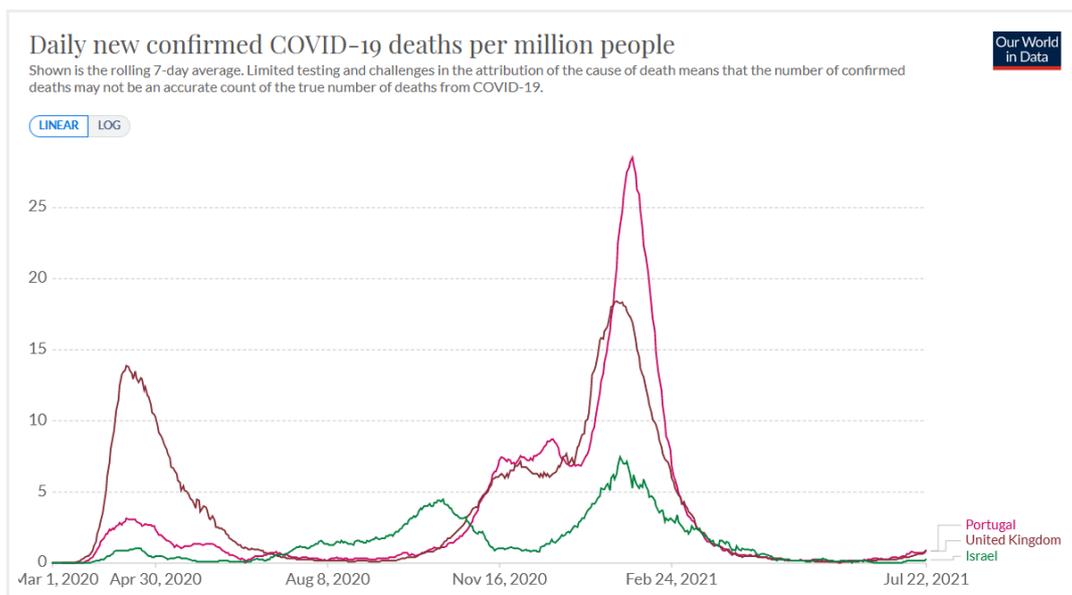
## Delta deaths in Russia and in Asian countries (low vaccination rates)



Delta deaths in Russia and in Asian countries (low vaccination rates) (OWD)

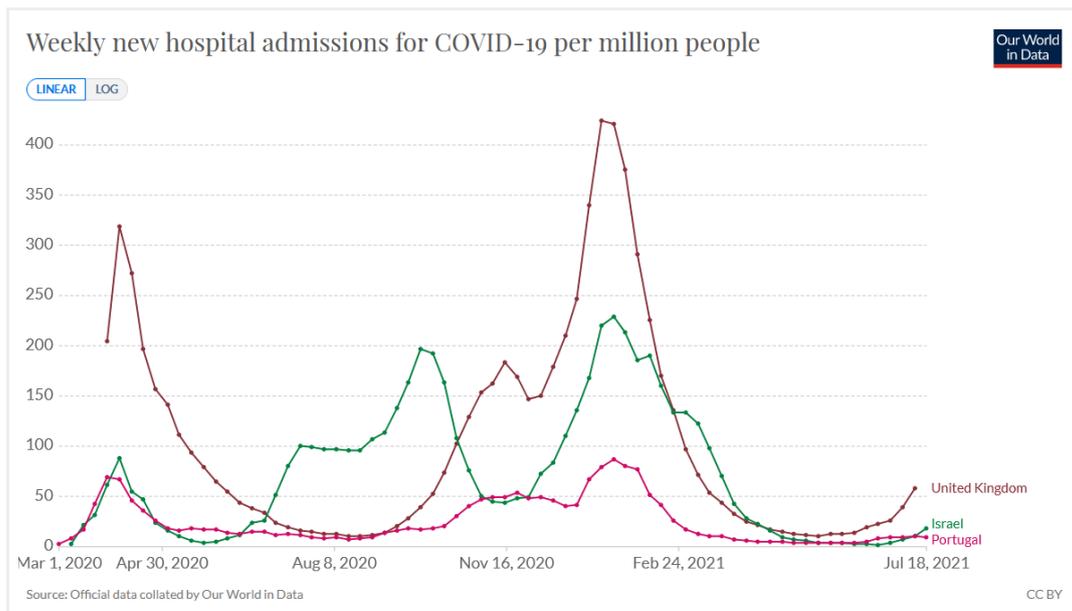
## D) Delta deaths in Israel, Portugal and the UK

### Delta deaths in Israel, Portugal and the UK (high vaccination rate)



Delta deaths in Israel, Portugal and the UK (high vaccination rate) (OWD)

## E) Delta hospitalizations in Israel, Portugal, and the UK



Delta hospitalizations in Israel, Portugal, and the UK (OWD)

### See also

- [Vaccine adverse events](#)
- [Post-vaccination deaths](#)
- [Covid early treatment](#)

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