

VERY URGENT: Do Covid mRNA vaccines damage our ability to control the coronavirus after a booster shot?

A disturbing new paper offers evidence they do - and could help explain the unending Omicron waves in mRNA countries.



Alex Berenson ✓
Dec 27

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A new peer-reviewed [paper](#) has troubling news for anyone who has received multiple mRNA shots, suggesting the immune system paradoxically weakens a crucial part of its Covid response after the third jab.

The immune shift causes the body to make relatively *more* of a less potent kind of antibody to Covid, displacing antibodies that attack the virus more aggressively. The change could heighten the risk of Covid infection and mean that people who are infected suffer longer and more serious cases.

It may also increase the chance of certain autoimmune disorders, though that connection is more speculative.

Worse, the researchers found evidence that being infected with Sars-Cov-2 after receiving a booster *worsens* rather than reverses the shift.

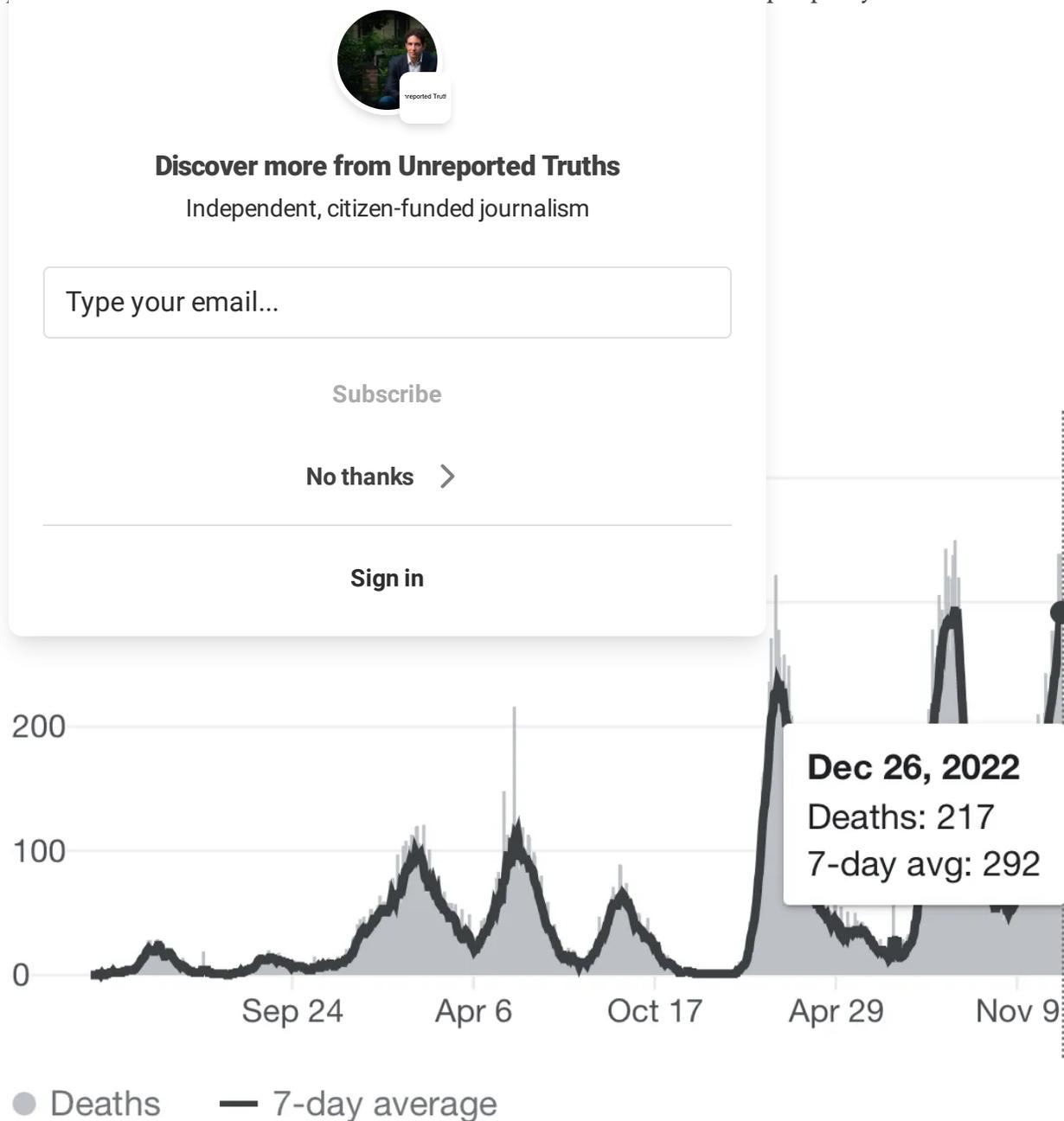
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The authors did not find a similar immune change in people who got other Covid vaccines, only the mRNAs.

The findings could help tie together case reports of post-mRNA autoimmune disorders like lupus and the unending waves of Covid in highly mRNA vaccinated countries. For example, Japan - where nearly every adult is vaccinated and boosted -set a new seven-day record for Covid deaths yesterday.

The paper “provides a very reasonable immunologic explanation for why the mRNA vaccine booster regimens are failing,” a physician who read it emailed me. “A great paper and raises a lot of questions which should be asked. Particularly when you have em] properly.”



The report was published last Thursday in *Science Immunology* under the anodyne title “Class switch towards non-inflammatory, spike-specific IgG4 antibodies after repeated SARS-CoV-2 mRNA vaccination.”

One of the study’s authors acknowledged [on Twitter](#) that its findings were “very unusual,” but the paper mostly plays down their potential significance.

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Farid Jalali, MD @farid__jalali · 1h



Retweeting without comments. Pfizer and Moderna better get this clarified.



Eric Topol @EricTopol · Dec 22

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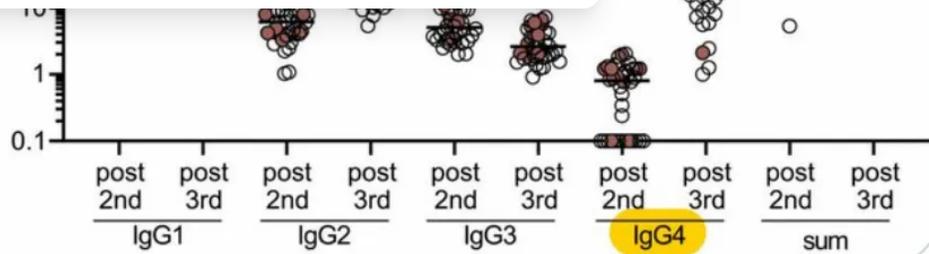


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A group of German scientists released the research as a preprint in July, but it attracted little notice until *Science Immunology* formally published it on Dec. 22. It is not clear if

the new interest comes because the paper has passed peer review or because Covid's continued surge is troubling researchers.

Like many other scientists, the German researchers measured anti-spike-protein antibodies that people produce after Covid vaccination. Both mRNA and DNA jabs cause the body's cells to produce spike proteins like those on the surface of the coronavirus.

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Review

Immunoglobulin G4: an odd antibody

D C Adherson et al. Clin Exp Allergy. 2009 Apr.

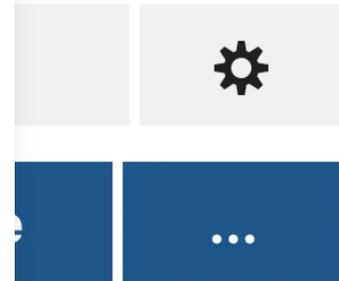


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Most notably, unlike the other three antibodies in its class, IgG4 does little to help other immune system cells attack viral or bacterial invaders directly. Compared to the other IgGs, it rarely promotes “phagocytosis,” the process by which other immune cells “eat” the virus or bacteria to which the antibody has attached. A 2017 [review](#) found that it “plays a limited role in the immune process.”

In fact, *because* it provokes a weaker immune response, IgG4 has been shown to become more common in people chronically exposed to allergens. Beekeepers famously [develop](#)

higher levels of IgG4 antibodies to bee venom over time, for example.

When the German researchers looked at the way the classes of IgG antibodies changed over time, they saw something they weren't expecting. Shortly after a second mRNA dose, vaccinated people had almost no IgG4 spike protein antibodies. Only 0.04 percent of all the IgG antibodies were IgG4 at that point.

But then the level of IgG4 antibodies began to rise. And they skyrocketed after the third shot. In other words, they rose from 1 out of 2500 to 1 out of 100 within a few months after the third.

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For people exposed to bee venom or other allergens, the rise in IgG4 can be a blessing, preventing their immune system from overreacting to repeated stimulation. But the coronavirus is not an allergen. Until our bodies clear it, it will try to attack our cells and reproduce.

As the authors cautiously suggested: *An increase in IgG4 subclasses might result in longer viral persistence in case of infection.*

(The paper:)

Science Immunology

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PASCAL IRRGANG , JULIANE GERLING , [...], AND MATTHIAS TENBUSCH



+20 authors

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To be clear, the rise in IgG4 antibodies does not mean people are unprotected from the coronavirus. The researchers found that IgG4 antibodies can still “neutralize” the viral particles - preventing them from entering cells - even if they do not begin the process of destroying them.

Further, over time all IgG antibodies become better at attaching to the coronavirus - they have what immunologists call increased “avidity.” And the researchers did not find *complete* replacement of the other IgGs by IgG4 (though some people appeared to be

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immediately restricted. And scientists need to examine whether people with high post-vaccination levels of IgG4 antibodies are becoming sicker than people with lower levels. If they are, we need an immediate effort to look for tools to reverse or slow switching to IgG4 at the cellular level.

Physicians will also have to be on the lookout for a spike in IgG4 related disease, which generally manifests as autoimmune disorders and is usually fairly responsive to steroids. (More to come on this issue in a future Stack.)

But for two years we governments and the media have been almost completely unwilling to ask *any* hard questions about the mRNAs.



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This issue, too, will probably also be ignored - unless a future Covid wave becomes so severe that it cannot be.

118 Comments



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ion sense told me over two
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Wonder if our Karen-media would dare call it what it would actually be at that point?

"A pandemic of the vaccinated?"

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