

'Disturbing' Study Shows COVID mRNA Vaccine Components Persist in Blood Up to 28 Days

By [John-Michael Dumais](#)

Theme: [Science and Medicine](#)

Global Research, August 02, 2024

[Children's Health Defense](#) 1 August 2024

Components of the Moderna SPIKEVAX COVID-19 mRNA vaccine can persist in the bloodstream for up to 28 days after injection, according to authors of a [preprint study](#) published July 27 on medRxiv.

The study, led by [Dr. Stephen J. Kent](#) at the University of Melbourne, challenges previous claims about how quickly the body clears the vaccines and could further our understanding of [mRNA vaccine](#) efficacy and [side effects](#).

The research, which tracked 19 people who received a [Moderna booster shot](#), detected both mRNA and [lipid nanoparticle](#) (LNP) components of the vaccine in blood samples as early as four hours post-injection. In some participants, trace amounts of mRNA were still detectable nearly a month after vaccination.

medRxiv

THE PREPRINT SERVER FOR HEALTH SCIENCES








BMJ Yale

H

 [Follow this preprint](#)

Blood Distribution of SARS-CoV-2 Lipid Nanoparticle mRNA Vaccine in Humans

 Stephen J. Kent, Shiyao Li, Thakshila H. Amarasena, Arnold Reynaldi,  Wen Shi Lee, Michael G. Leeming, David H. O'Connor, Julie Nguyen, Helen E. Kent, Frank Caruso,  Jennifer A. Juno, Adam K. Wheatley,  Miles P. Davenport,  Yi Ju

doi: <https://doi.org/10.1101/2024.07.25.24311039>

This article is a preprint and has not been peer-reviewed [what does this mean?]. It reports new medical research that has yet to be evaluated and so should not be used to guide clinical practice.



Abstract

Full Text

Info/History

Metrics

 Preview PDF

[Source](#)

[Dr. Michael Palmer](#), a member of [Doctors for COVID Ethics](#) and co-author of “[mRNA Vaccine Toxicity](#),” told [The Defender](#) the study is one that “Moderna should have submitted to the FDA [U.S. Food and Drug Administration] and other regulators prior to the approval of their vaccine but didn’t.”

“The ‘surrogate’ data that were submitted [by Moderna] instead suggested a much faster elimination from the bloodstream,” he added.

[Dr. Peter McCullough](#) told The Defender the study data were “disturbing” and that the findings were “nearly identical” to a study outlined in a 2023 paper — not cited by the study authors — which also found mRNA vaccine components [circulating in the blood up to 28 days](#) after immunization.

Government Agencies, Vaccine Companies ‘Owe the World an Explanation’

The study examined the [pharmacokinetics](#) of [mRNA vaccines in human blood](#). This refers to how the body processes a substance over time, including its absorption, distribution, metabolism and excretion.

The researchers developed new methods to quantify both mRNA and specific components of the LNPs from the [Moderna SPIKEVAX](#) vaccine in frequent blood samples from the subjects who received a booster shot.

LNPs, composed of several types of lipids, are the delivery system for the mRNA. One key component, ionizable lipids, helps protect the mRNA and facilitate its entry into cells.

Key findings of the study include:

- Both mRNA and a specific [ionizable lipid \(SM-102\)](#) were detectable in blood samples within four hours of vaccination.
- Levels of these components peaked one to two days after injection
- In most subjects, mRNA remained detectable for 14-28 days post-vaccination.
- The decay rates of intact mRNA and the ionizable lipid were identical, suggesting that intact lipid nanoparticles recirculate in the bloodstream.
- The study found a correlation between the levels of mRNA and ionizable lipids in the blood and an increase in antibodies against [polyethylene glycol](#) (PEG), another component of the vaccine’s lipid nanoparticles.

[Karl Jablonowski, Ph.D.](#), senior research scientist at [Children’s Health Defense](#), highlighted the vaccine’s quick entry and persistence in the bloodstream.

“For at least two weeks, high concentrations of LNPs and accompanying mRNAs have open access free rein to every part of your body — at least every part that blood goes to.”

Palmer noted that the integrity of the RNA measured by the researchers was very low — no more than 20% intact mRNA in the bloodstream. He suggested this could be demonstrating “some sort of quality issue.”

“It seems likely that this number reflects the percentage of intact mRNA at injection,” he said. “Whether this results directly from vaccine production or from inadequate conditions of storage prior to injection is unclear.”

Palmer also pointed out the low amount of injected vaccine — on the order of 0.1% — that showed up in the bloodstream of study participants. He said:

“This probably means that the [intramuscular injection](#) worked as intended, and [that] the vaccine was not directly injected into the bloodstream. However, in some patients, such a direct injection will occur — this is a numbers game. It seems quite possible that this unfortunate group of patients are the ones suffering [severe side effects](#).”

McCullough said the study is limited to just 28 days of observation and the “complete half-life and circulatory time for mRNA and mechanisms of elimination from the body should be known by now.”

Standard pharmacokinetic and [pharmacodynamic](#) (drug effects on the body) studies “should have been done in 2020 as part of Operation Warp Speed.” He said:

“Is mRNA being cleared from blood into cells and tissues where it resides permanently or is it being eliminated from the body altogether? Government agencies and the vaccine companies owe the world an explanation.”

[Jessica Rose, Ph.D.](#), a Canadian researcher with a background in immunology and computational biology, in a [presentation last year](#) highlighted the importance of understanding the biodistribution of vaccine components.

“The [2021] pharmacokinetic [studies from Japan](#) ... did find a concentration, albeit small, of these things in the brain,” she noted.

50% of Subjects Had Detectable Amounts of mRNA 28 Days After Vaccination

The researchers recruited 19 participants who were scheduled to receive a bivalent Moderna SPIKEVAX booster shot. The subjects ranged in age from 24 to 70, with a mean age of 42. The majority (63%) were female, and all had previously received three to four doses of monovalent [COVID-19 vaccines](#).

To track the vaccine components in the body, the researchers collected blood samples at multiple time points. The first sample was taken before vaccination, followed by samples at four hours post-vaccination and then at various intervals up to 28 days after the booster shot. On average, nine blood samples were collected from each participant over this period.

The study employed novel methods to detect both mRNA and the ionizable lipid SM-102 in blood samples.

The researchers also measured antibody responses, including those against the spike protein and against [PEG](#), a component of the LNPs. Additionally, they developed an assay to assess how the LNPs interacted with different types of immune cells in blood samples.

Detailed findings include:

1. mRNA and lipid detection in blood: The study found that both mRNA and the ionizable lipid SM-102 were detectable in blood samples as early as four hours after vaccination. Both components reached their peak concentrations between one and two days post-vaccination.

2. Persistence and decay rates: One of the study's key findings was the prolonged detectability of vaccine components in the blood. In 50% of the subjects, small amounts of mRNA were still detectable 28 days after vaccination.

The researchers also found that the proportion of intact mRNA molecules decreased slowly but consistently over the study period. The decay rates of intact mRNA and the SM-102 lipid were nearly identical, with both showing a half-life of approximately 1.14 days.

“The slow degradation of the mRNA despite circulating in blood in vivo at 37 °C ... and the identical decay rate of intact mRNA and the ionizable lipid, suggests that the mRNA was largely protected in circulation within the lipid nanoparticle,” the authors stated.

3. Antibody responses: The study measured antibody responses against both the spike protein and PEG.

[Anti-PEG antibodies](#) were already detectable in most subjects before vaccination and showed a modest increase following the booster.

The researchers found a positive correlation between the peak levels of mRNA and ionizable lipids in the blood and the subsequent increase in anti-PEG antibodies — a 1.4 times increase in [immunoglobulin G \(IgG\) antibodies](#) and a 4.6 times increase in [IgM antibodies](#). This demonstrates an unintended immune response against a component of the vaccine delivery system itself.

The authors did not observe a correlation between pre-existing anti-PEG antibodies and the decay rate of mRNA or ionizable lipids in the blood. This suggests intrinsic human physiological processes rather than pre-existing antibodies may be responsible for the clearance of vaccine components, at least at the antibody levels observed in this study.

As expected, the vaccine also boosted antibodies against the spike protein. The average increase in spike-specific IgG was 21.3 times at 28 days after vaccination.

4. Cellular interactions: The researchers developed a procedure to examine how LNPs interacted with different immune cells in blood samples. They found that the nanoparticles were primarily associated with monocytes and B-cells, with minimal interaction with other cell types such as [T-cells](#) and [natural killer cells](#).

[Monocytes](#) are part of the innate immune system and can engulf foreign particles in a process called [phagocytosis](#). Their interaction with the nanoparticles suggests they may play a role in processing and clearing the vaccine components.

[B-cells](#) are responsible for producing antibodies. Their interaction with the nanoparticles could be part of the process that leads to antibody production, including anti-PEG antibodies.

Notably, the researchers observed an inverse relationship between monocytes' ability to interact with LNPs and the increase in anti-PEG antibodies following vaccination. The authors said this suggests the efficiency of monocyte clearance of the nanoparticles may influence how much the immune system develops antibodies against PEG.

Autopsies Needed to Understand Effect of Vaccines on Brain, Other Organs

The study's authors acknowledged several limitations, including a small sample size, possible limits in detection of vaccine components and that results for booster recipients may differ from those receiving initial vaccinations.

The study only examined components in the blood and did not investigate their presence or effects in other tissues.

Future research suggestions include exploring long-term implications of persistent vaccine components and anti-PEG antibodies in larger, more diverse populations, and investigating the formation of [biomolecular coronas](#) — a layer of proteins, lipids and other biological molecules that form around nanoparticles from mRNA vaccines.

Rose emphasized the importance of reproducing findings, particularly through autopsies, to definitively understand the full impact of these vaccines on various organs, including the brain.

*

Click the share button below to email/forward this article to your friends and colleagues. Follow us on [Instagram](#) and [Twitter](#) and subscribe to our [Telegram Channel](#). Feel free to repost and share widely Global Research articles.

[Spread the Truth, Refer a Friend to Global Research](#)

John-Michael Dumais is a news editor for The Defender. He has been a writer and community organizer on a variety of issues, including the death penalty, war, health freedom and all things related to the COVID-19 pandemic.

Featured image is from CHD

The Worldwide Corona Crisis, Global Coup d'Etat Against Humanity

by Michel Chossudovsky

Michel Chossudovsky reviews in detail how this insidious project “destroys people’s lives”. He provides a comprehensive analysis of everything you need to know about the “pandemic” — from the medical dimensions to the economic and social repercussions, political underpinnings, and mental and psychological impacts.

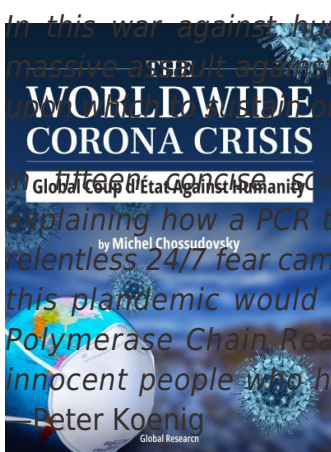
“My objective as an author is to inform people worldwide and refute the official narrative which has been used as a justification to destabilize the economic and social fabric of entire countries, followed by the imposition of the “deadly” COVID-19 “vaccine”. This crisis affects humanity in its entirety: almost 8 billion people. We stand in solidarity with our fellow human beings and our children worldwide. Truth is a powerful instrument.”

Reviews

This is an in-depth resource of great interest if it is the wider perspective you are motivated to understand a little better, the author is very knowledgeable about geopolitics and this comes out in the way Covid is contextualized. —Dr. Mike Yeadon

In this war against humanity in which we find ourselves, in this singular, irregular and massive assault against liberty and the goodness of people, Chossudovsky’s book is a rock upon which we must stand in our fight. —Dr. Emanuel Garcia

In fifteen concise, science-based chapters, Michel traces the false covid pandemic, explaining how a PCR test, producing up to 97% proven false positives, combined with a relentless 24/7 fear campaign, was able to create a worldwide panic-laden “plandemic”; that this plandemic would never have been possible without the infamous DNA-modifying Polymerase Chain Reaction test - which to this day is being pushed on a majority of innocent people who have no clue. His conclusions are evidenced by renown scientists.



Professor Chossudovsky exposes the truth that “there is no causal relationship between the virus and economic variables.” In other words, it was not COVID-19 but, rather, the deliberate implementation of the illogical, scientifically baseless lockdowns that caused the shutdown of the global economy. —David Skripac

A reading of Chossudovsky’s book provides a comprehensive lesson in how there is a global coup d’état under way called “The Great Reset” that if not resisted and defeated by freedom

loving people everywhere will result in a dystopian future not yet imagined. Pass on this free gift from Professor Chossudovsky before it's too late. You will not find so much valuable information and analysis in one place. -Edward Curtin

ISBN: 978-0-9879389-3-0, Year: 2022, PDF Ebook, Pages: 164, 15 Chapters

Price: ~~\$11.50~~ FREE COPY! [Click here \(docsend\) and download.](#)

[You may also access the online version of the e-Book by clicking here.](#)

We encourage you to support the eBook project by making a donation through Global Research's [DonorBox "Worldwide Corona Crisis" Campaign Page.](#)

The original source of this article is [Children's Health Defense](#)
Copyright © [John-Michael Dumais](#), [Children's Health Defense](#), 2024

[Comment on Global Research Articles on our Facebook page](#)

[Become a Member of Global Research](#)

Articles by: [John-Michael Dumais](#)

Disclaimer: The contents of this article are of sole responsibility of the author(s). The Centre for Research on Globalization will not be responsible for any inaccurate or incorrect statement in this article. The Centre of Research on Globalization grants permission to cross-post Global Research articles on community internet sites as long the source and copyright are acknowledged together with a hyperlink to the original Global Research article. For publication of Global Research articles in print or other forms including commercial internet sites, contact: publications@globalresearch.ca
www.globalresearch.ca contains copyrighted material the use of which has not always been specifically authorized by the copyright owner. We are making such material available to our readers under the provisions of "fair use" in an effort to advance a better understanding of political, economic and social issues. The material on this site is distributed without profit to those who have expressed a prior interest in receiving it for research and educational purposes. If you wish to use copyrighted material for purposes other than "fair use" you must request permission from the copyright owner.

For media inquiries: publications@globalresearch.ca