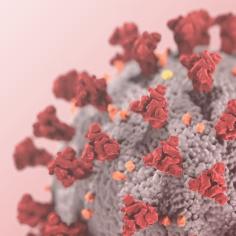
CELLS, SEQUENCES AND SPIKE DAMAGE: THE CLOT THICKENS

Presented By:

Ryan N. Cole, MD

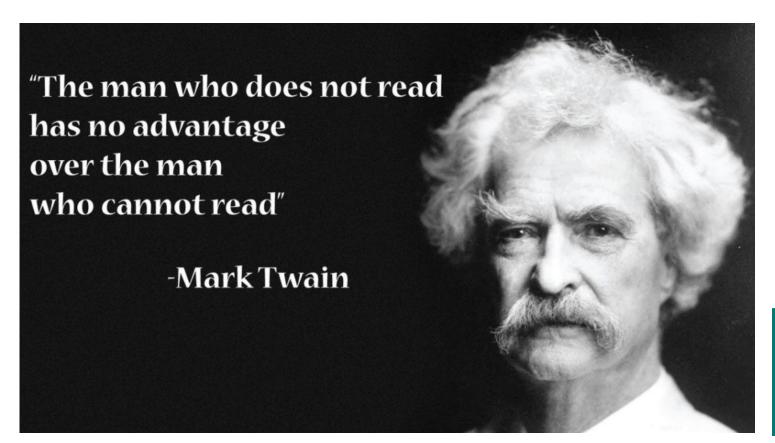
AP/CP



CONFLICTS OF INTEREST

- NONE



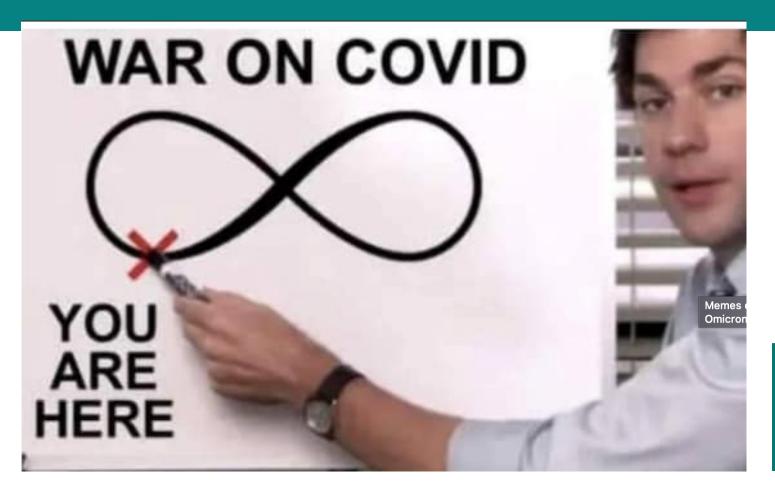




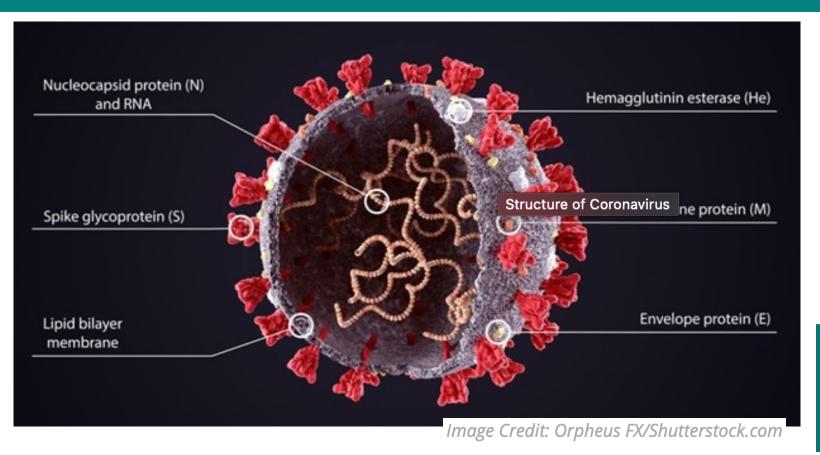
"If everybody is thinking alike, then somebody isn't thinking"

–George S. Patton



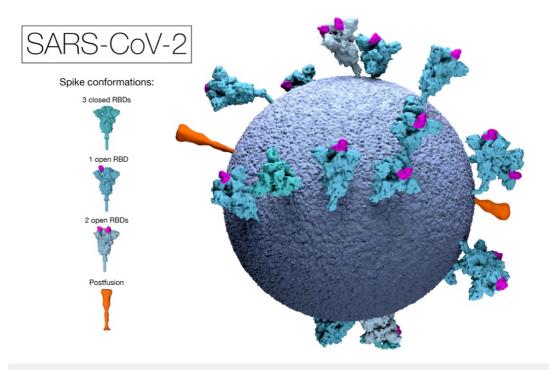






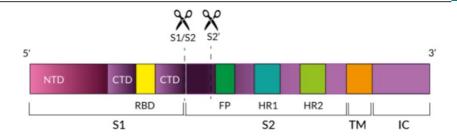


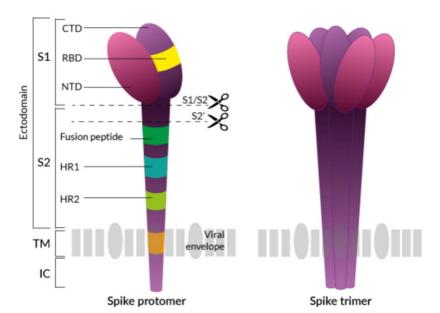
WHAT IS THE SPIKE?



FLCCC
ALLIANCE
EDUCATIONAL
CONFERENCE
Spring 2023

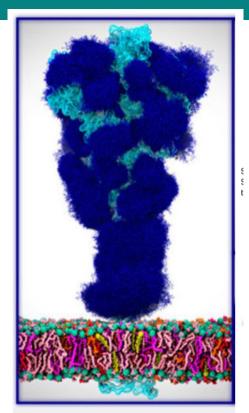
Image courtesy of MRC Laboratory of Molecular Biology. Ke, Z., Briggs, J. et al. Nature (2020).



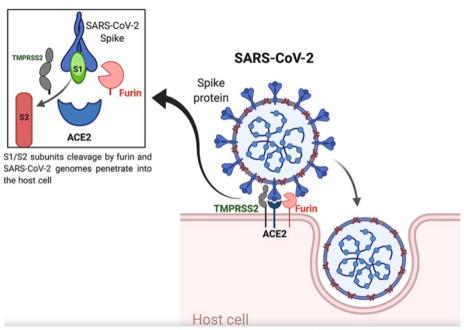








The protective coating of sugars, shown in blue. Courtesy of ACS Publications.



From the journal Clinical Chemistry and Laboratory Medicine (CCLM) https://doi.org/10.1515/cclm-2020-0727



WHICH SPIKE PROTEIN?

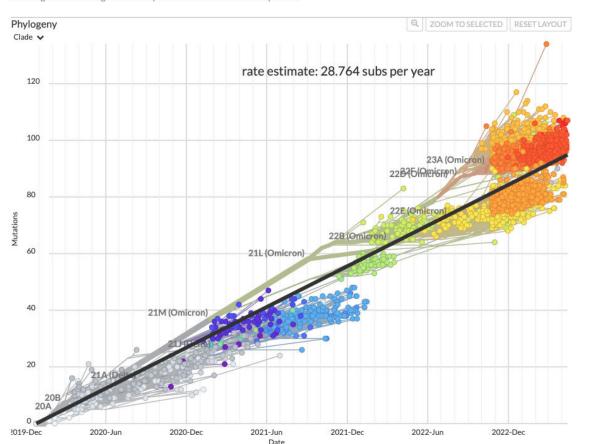




WHICH SPIKE PROTEIN?

Built with nextstrain/ncov. Maintained by the Nextstrain team. Enabled by data from CISAID.

Showing 2816 of 2816 genomes sampled between Dec 2019 and Apr 2023.



Phylogeny Clade ^ 20H (Beta, V2) 22C (Omicron) 22D (Omicron) 20I (Alpha, V1) 20J (Gamma, V3) 22E (Omicron) 21A (Delta) 22F (Omicron) 21I (Delta) 23A (Omicron) 21J (Delta) 23B (Omicron) 21C (Epsilon) 19A 21D (Eta) 19B 21G (Lambda) 20A 21H (Mu) 20C 21K (Omicron) 20G

21L (Omicron)

22A (Omicron)

22B (Omicron)



20B

20D

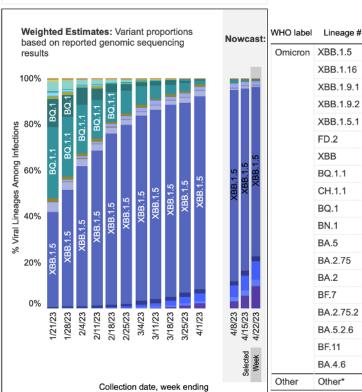
20E (EU1)

Weighted and Nowcast Estimates in United States for Weeks of 1/15/2023 -..

Nowcast Estimates in United States for 4/16/2023 – 4/22/2023

Ð

Hover over (or tap in mobile) any lineage of interest to see the amount of uncertainty in that lineage's estimate.



USA

95% DI

WHO label	Lineage #	US C	ass %To	tal 95%PI
Omicron	XBB.1.5	VOC	73.6%	69.6-77.3%
	XBB.1.16	VOC	9.6%	6.7-13.6%
	XBB.1.9.1	voc	7.9%	6.1-10.1%
	XBB.1.9.2	VOC	2.9%	2.1-4.0%
	XBB.1.5.1	VOC	2.2%	1.7-2.8%
	FD.2	VOC	1.6%	0.7-3.2%
	XBB	VOC	1.0%	0.6-1.8%
	BQ.1.1	VOC	0.7%	0.4-1.1%
	CH.1.1	VOC	0.4%	0.2-0.5%
	BQ.1	VOC	0.1%	0.0-0.1%
	BN.1	VOC	0.0%	0.0-0.0%
	BA.5	VOC	0.0%	0.0-0.0%
	BA.2.75	voc	0.0%	0.0-0.0%
	BA.2	VOC	0.0%	0.0-0.0%
	BF.7	VOC	0.0%	0.0-0.0%
	BA.2.75.2	VOC	0.0%	0.0-0.0%
	BA.5.2.6	voc	0.0%	0.0-0.0%
	BF.11	voc	0.0%	0.0-0.0%
	BA.4.6	voc	0.0%	0.0-0.0%
Other	Other*		0.1%	0.0-0.1%



The Covid Injections are technically NOT vaccines.
They are genetic biological products. The variants they code for are extinct! The covid shots are all expired.



Severe Illness Not Linked to New Variant

The latest reports regarding XBB.1.16—dubbed "Arcturus"—and cases of conjunctivitis in children come after the World Health Organization (WHO) upgraded the variant to a "variant of interest," citing its ability to evade immune system response.

Children Diagnosed With New COVID-19 Variant Show New Symptom, Health Professionals Warn

PREMIUM

COVID NEWS





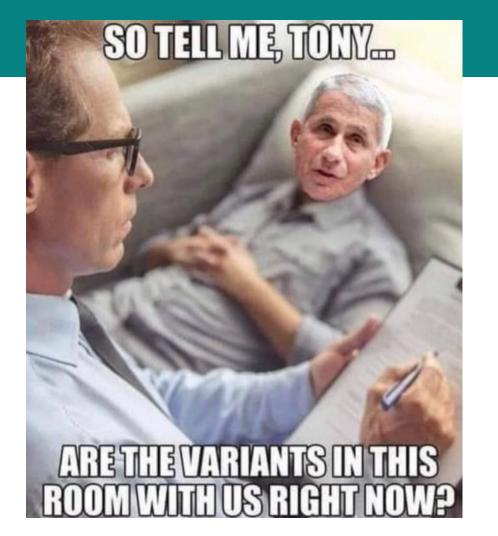






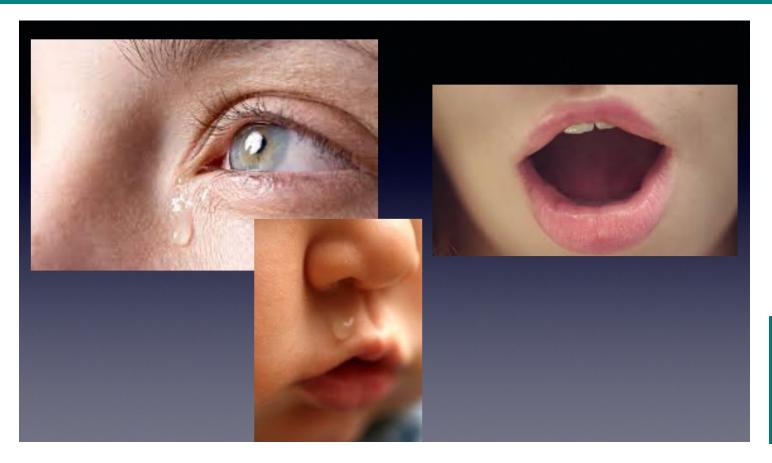






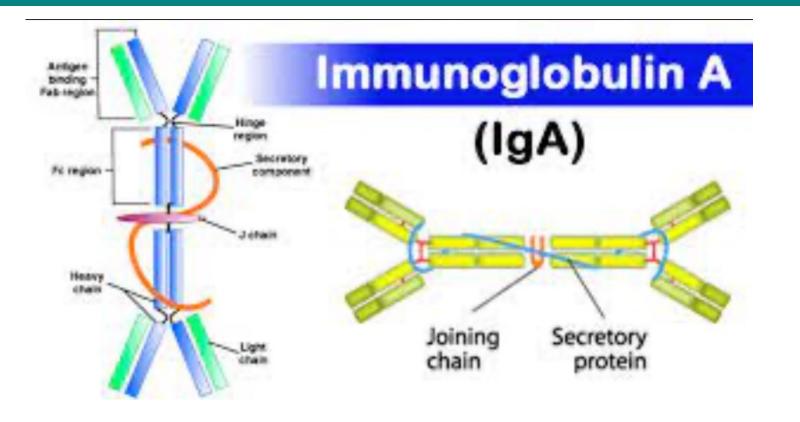


NATURAL IMMUNITY



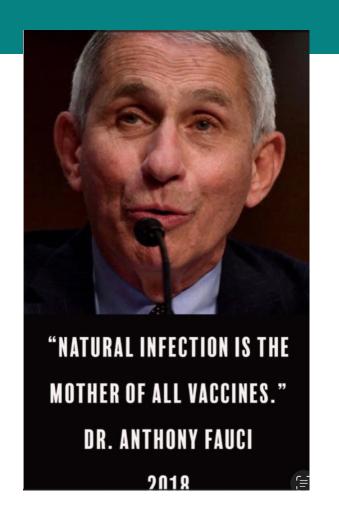


NATURAL IMMUNITY

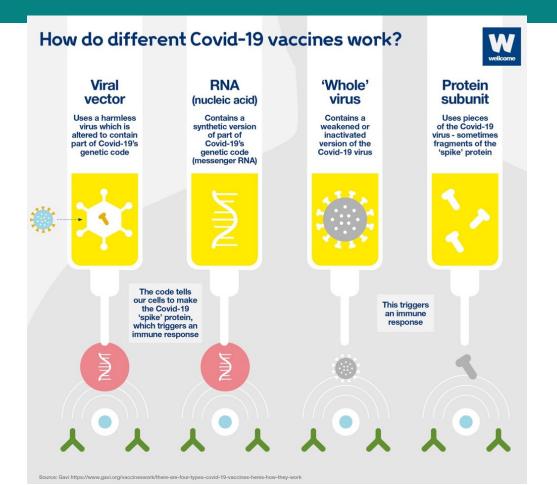




NATURAL IMMUNITY



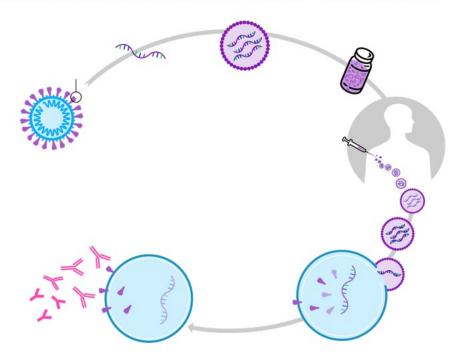






mRNA/cDNA platform

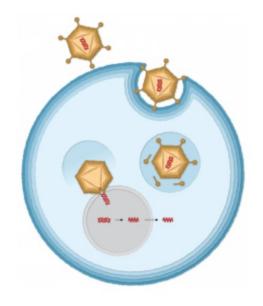
never before used in humans for mass "vaccination"

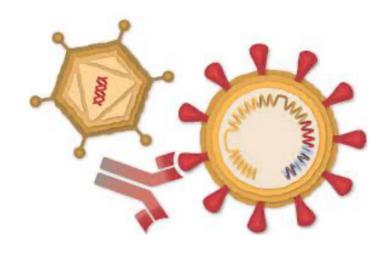




J and J (Janssen) and Astra Zeneca (AZ)

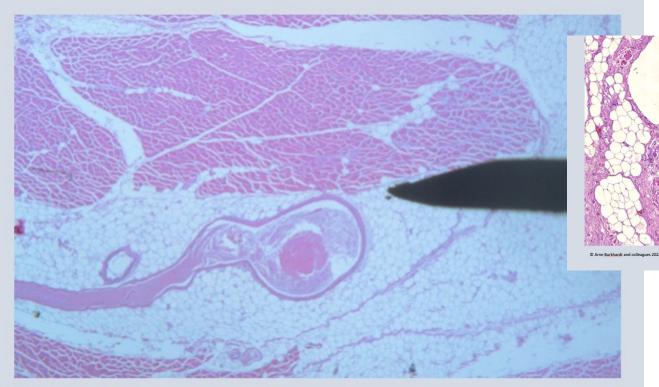
Viral Vector





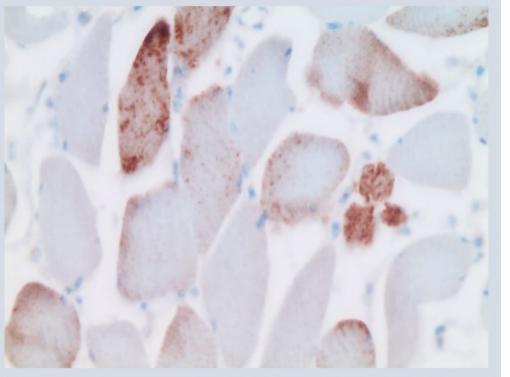


Deltoid muscle with superimposed injection needle





Expression of spike protein in deltoid muscle





LNPs go everywhere and take their payload there too!!





mRNA shots (Pfizer/BionTech, Moderna) vs cDNA shots (Jaansen, Astra Zeneca)



SYNTHETIC mRNA



Available online 25 January 2022

In Press, Corrected Proof ?



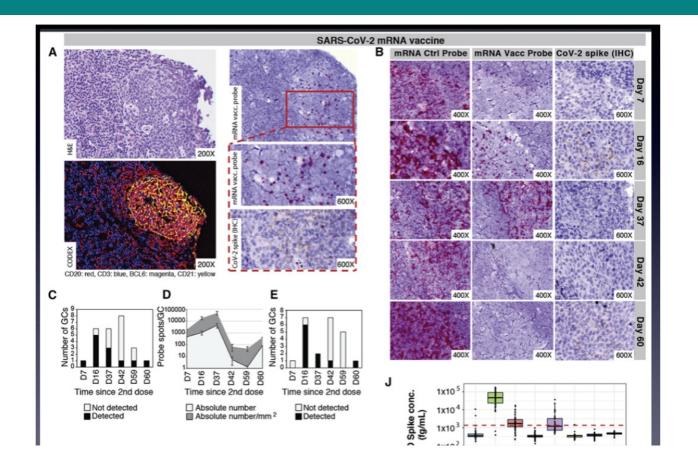
Article

Immune imprinting, breadth of variant recognition, and germinal center response in human SARS-CoV-2 infection and vaccination

Katharina Röltgen ^{1, 14}, Sandra C.A. Nielsen ^{1, 14}, Oscar Silva ^{1, 14}, Sheren F. Younes ^{1, 14}, Maxim Zaslavsky ¹, Cristina Costales ¹, Fan Yang ¹, Oliver F. Wirz ¹, Daniel Solis ¹, Ramona A. Hoh ¹, Aihui Wang ¹, Prabhu S. Arunachalam ², Deana Colburg ¹, Shuchun Zhao ¹, Emily Haraguchi ¹, Alexandra S. Lee ³, Mihir M. Shah ³, Monali Manohar ³ ... Scott D. Boyd ^{1, 3, 15, 16} $\stackrel{>}{\sim}$ $\stackrel{\boxtimes}{\bowtie}$



SYNTHETIC mRNA





<u>Clin Infect Dis.</u> 2021 May 20 : ciab465. PMCID: PMC8241425

Published online 2021 May 20. doi: <u>10.1093/cid/ciab465</u> PMID: <u>34015087</u>

Circulating SARS-CoV-2 Vaccine Antigen Detected in the Plasma of mRNA-1273 Vaccine Recipients

Alana F Ogata, 1,2,3 Chi-An Cheng, 1,2,3 Michaël Desjardins, 3,4,5 Yasmeen Senussi, 1 Amy C Sherman, 3,4 Megan Powell, 4 Lewis Novack, 4 Salena Von, 4 Xiaofang Li, 6 Lindsey R Baden, 3,4,6 and David R Walt 1,2,3



> J Immunol. 2021 Nov 15;207(10):2405-2410. doi: 10.4049/jimmunol.2100637. Epub 2021 Oct 15.

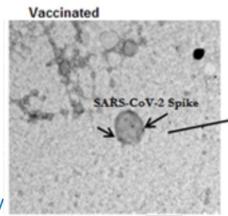
Cutting Edge: Circulating Exosomes with COVID Spike Protein Are Induced by BNT162b2 (Pfizer-BioNTech) Vaccination prior to Development of Antibodies: A Novel Mechanism for Immune Activation by mRNA Vaccines

Sandhya Bansal ¹, Sudhir Perincheri ², Timothy Fleming ¹, Christin Poulson ¹, Brian Tiffany Ross M Bremner ¹, Thalachallour Mohanakumar ³

Affiliations + expand

PMID: 34654691 DOI: 10.4049/jimmunol.2100637

dose. Transmission electron microscopy of exosomes also demonstrated spike protein Ags on their surface. Exosomes with spike protein and Abs decreased in parallel after four months. These



500nm



ORIGINAL RESEARCH article

Front. Immunol., 10 January 2022

Sec. Viral Immunology

Volume 12 - 2021 | https://doi.org/10.3389/fimmu.2021.746021

Persistence of SARS CoV-2 S1 Protein in CD16+ Monocytes in Post-Acute Sequelae of COVID-19 (PASC) up to 15 Months Post-Infection









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Features

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Home > Circulation > Vol. 147, No. 11 > Circulating Spike Protein Detected in Post–COVID-19 mRNA Vaccine Myocard...





Full Text

Circulating Spike Protein Detected in Post-COVID-19 mRNA Vaccine Myocarditis

Lael M. Yonker ☑, Zoe Swank, Yannic C. Bartsch, Madeleine D. Burns, Abigail Kane, Brittany P. Boribong, Jameson P. Davis, Maggie Loiselle, Tanya Novak, Yasmeen Senussi, Chi-An Cheng, ... See all authors ✓

Originally published 4 Jan 2023 | https://doi.org/10.1161/CIRCULATIONAHA.122.061025 | Circulation. 2023;147:867–876



Persistent circulating SARS-CoV-2 spike is associated with post-acute COVID-19 sequelae

David R. Walt doi: https://doi.org/10.1101/2022.06.14.22276401

Now published in Clinical Infectious Diseases doi: 10.1093/cid/ciac722

inflammatory markers. Strikingly, we detect SARS-CoV-2 spike antigen in a majority of PASC patients up to 12 months post-diagnosis,



CIRCULATING mRNA

Research Letter

ONLINE FIRST FREE

September 26, 2022

Detection of Messenger RNA COVID-19 Vaccines in Human Breast Milk

Nazeeh Hanna, MD¹; Ari Heffes-Doon, MD¹; Xinhua Lin, PhD²; et al

» Author Affiliations | Article Information

JAMA Pediatr. Published online September 26, 2022. doi:10.1001/jamapediatrics.2022.3581





CIRCULATING MRNA

> APMIS. 2023 Mar;131(3):128-132. doi: 10.1111/apm.13294. Epub 2023 Jan 29.

SARS-CoV-2 spike mRNA vaccine sequences circulate in blood up to 28 days after COVID-19 vaccination

```
Jose Alfredo Samaniego Castruita <sup>1</sup>, Uffe Vest Schneider <sup>1</sup>, Sarah Mollerup <sup>1</sup>, Thomas Daell Leineweber <sup>1</sup>, Nina Weis <sup>2</sup>, Jens Bukh <sup>2</sup>, Martin Schou Pedersen <sup>1</sup>, Henrik Westh <sup>1</sup>,
```

Affiliations + expand

PMID: 36647776 PMCID: PMC10107710 DOI: 10.1111/apm.13294

Free PMC article



CIRCULATING mRNA

> Biomedicines. 2022 Jun 28;10(7):1538. doi: 10.3390/biomedicines10071538.

Vaccine mRNA Can Be Detected in Blood at 15 Days Post-Vaccination

```
Tudor Emanuel Fertig <sup>1 2</sup>, Leona Chitoiu <sup>1</sup>, Daciana Silvia Marta <sup>1 3</sup>, Victor-Stefan Ionescu <sup>1</sup>, Valeriu Bogdan Cismasiu <sup>1</sup>, Eugen Radu <sup>2 4</sup>, Giulia Angheluta <sup>2</sup>, Maria Dobre <sup>1</sup>, Ana Serbanescu <sup>5</sup>, Mihail Eugen Hinescu <sup>1 2</sup>, Mihaela Gherghiceanu <sup>1 2</sup>
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Affiliations + expand

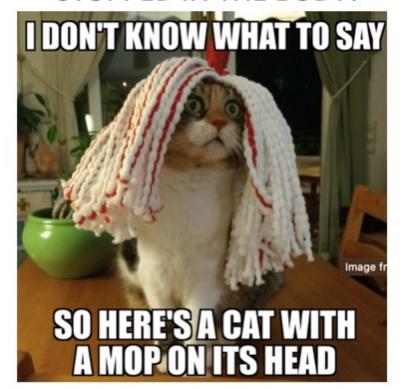
PMID: 35884842 PMCID: PMC9313234 DOI: 10.3390/biomedicines10071538

Eros DMC artiala



CIRCULATING SPIKE

WHEN IS PRODUCTION OF THE SPIKE STOPPED IN THE BODY?





WHAT ELSE IS PRESENT?





WHAT ELSE IS PRESENT?

Impure mRNA in vials

per regulatory agencies

- -EMA 50ish % pure
- -TGA Australia 40-60ish% pure

Many shorter, incomplete coding and non-coding sequences present in mRNA vials i.e. - micro RNAs

TrialSite News

Leaked EMA Emails Reveal:

- A leaked 26th of November PowerPoint presentation of a meeting between Pfizer-BioNTech and the EMA revealed how this major objection was shockingly 'resolved'- the RNA integrity specification was simply lowered to 50%.
- The potential implications of the RNA integrity loss in terms of safety and efficacy were unknown.



ARE WE DEALING WITH ONLY SPIKE DISEASE?

BIONTECH

R&D Report R-20-0211 Version 02 Page 15 of 22

4 TABLES AND FIGURES

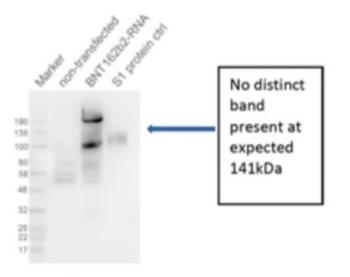
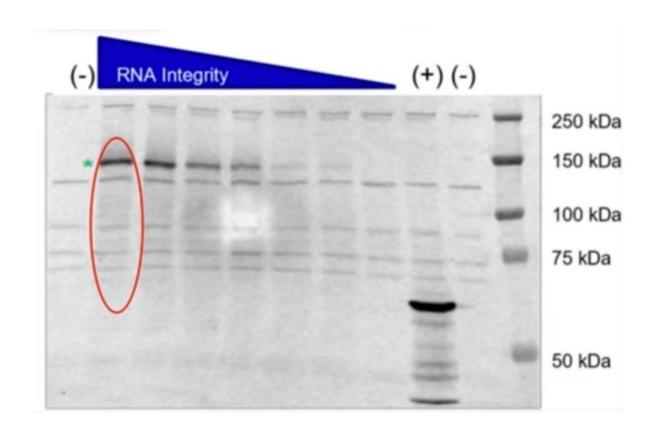


Figure 1: Western blot analysis for detection of BNT162b2 antigen expression

Cells were transfected with DS BNT162b2-RNA, and harvested after 18 h to allow antigen expression. Cells were lysed and lysates were subjected to a sodium dodecyl sulfate (SDS)-polyacrylamide gel electrophoresis (PAGE) system using a 4–15% gradient polyacrylamide gel followed by Western blot analysis. BNT162b2 has a predicted size of 141.14 kDa. A recombinant SARS-CoV-2 S1 Subunit protein (76.5 kDa) was used as a positive control.



ARE WE DEALING WITH ONLY SPIKE DISEASE?



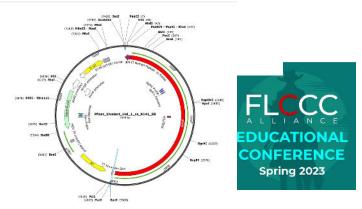


ARE WE DEALING WITH ONLY SPIKE DISEASE?

Nepetalactone Newsletter

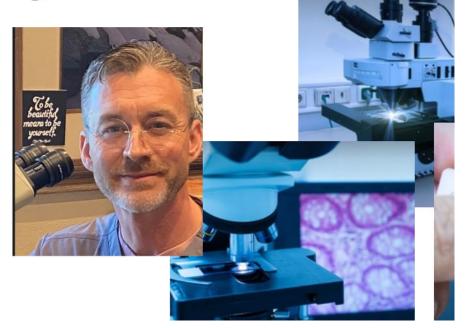
Pfizer and Moderna bivalent vaccines contain 20-35% expression vector and are transformation competent in E.coli





ENTER PATHOLOGY

Who is the pathologist? Why does it matter?





ENTER PATHOLOGY

One cannot find that for the which they do not look!!

THE CELLS DON'T LIE!!



THE SPEED OF SCIENCE





SPIKE HARMS TIP OF THE ICEBERG - SOME, NOT ALL

- TISSUE/ORGAN DAMAGE
- ENODTHELIAL DAMAGE
- CLOTTING/THROMBOSIS
- CANCER/CANCER GENE BINDING
- INNATE IMMUNE SUPPRESSION
- AUTOIMMUNE DISEASE
- INTERFERON SUPPRESSION
- THYMUS



SPIKE HARMS TIP OF THE ICEBERG - SOME, NOT ALL

- VIRAL REACTIVATION
- DNA MISMATCH REPAIR INHIBITION
- NEUROLOGIC DAMAGE
- MITOCHONDRIAL DAMAGE
- HEART DAMAGE
- IMMUNE IMPRINTING/ORIGINAL ANTIGENIC SIN
- ANTIBODY DEPENDENT CELLULAR CYTOTOXICITY
- DECREASED SPERM COUNTS AND MOTILITY
- HORMONAL DYSREGULATION
- etc....



WHAT IS KNOWN.





SPIKE - VASCULAR INFLAMMATION

Circulation Research > Vol. 128, No. 9 > SARS-CoV-2 Spike Protein Impairs Endothelial Function via Downreg...

EE ACCESS

SARS-CoV-2 Spike Protein Impairs Endothelial Function via Downregulation of ACE 2

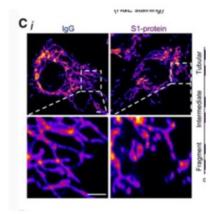


Yuyang Lei, Jiao Zhang, Cara R. Schiavon, Ming He, Lili Chen, Hui Shen, Yichi Zhang, Qian Yin, Yoshitake Cho, Leonardo Andrade, Gerald S. Shadel, Mark Hepokoski, Ting Lei, ... See all authors





Originally published 31 Mar 2021 | https://doi.org/10.1161/CIRCRESAHA.121.318902 | Circulation Research, 2021;128:1323–1326





Spike Protein- VASCULAR HARMS

- Impairs endothelial function
- Increases endothelial cell inflammatory signaling
- Endothelial protein cell surface binding can elicit clotting cascades



BRIEF RESEARCH REPORT article

Front. Cardiovasc. Med., 11 June 2021

Sec. Cardiovascular Metabolism https://doi.org/10.3389/fcvm.2021.68778 3 This article is part of the Research Topic

Metabolism Linking Immunity and Inflammatory Phenotypes in Cardiovascular Disease

View all 13 Articles >

SARS-CoV-2 Spike Protein Induces Degradation of Junctional Proteins That Maintain Endothelial Barrier Integrity



Somasundaram Raghavan,



Divya Borsandra Kenchappa and



M. Dennis Leo*



Department of Pharmaceutical Sciences, University of Tennessee Health Science Center, Memphis, TN, United States

nature > signal transduction and targeted therapy > articles > article

Article Open Access Published: 04 December 2020

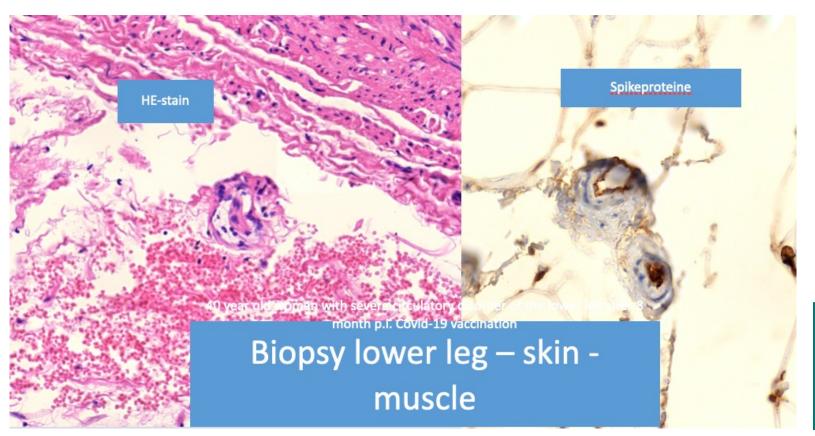
CD147-spike protein is a novel route for SARS-CoV-2 infection to host cells

Ke Wang, Wei Chen, ... Zhi-Nan Chen ☐ + Show authors

Signal Transduction and Targeted Therapy 5, Article number: 283 (2020) Cite this article

22k Accesses | 327 Citations | 119 Altmetric | Metrics



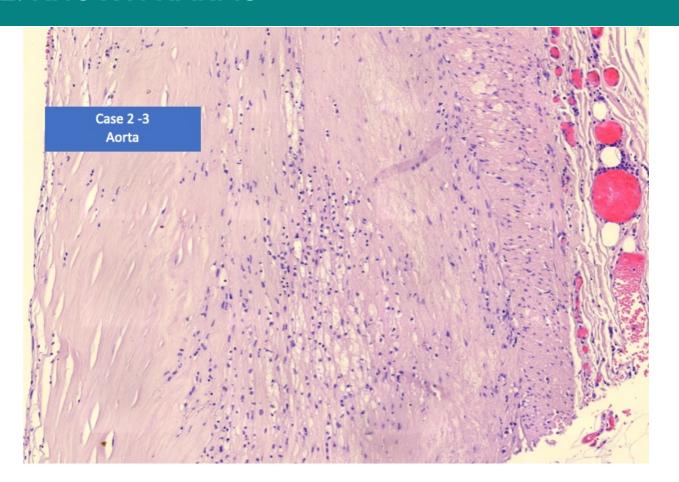




Excised aortic wall segment

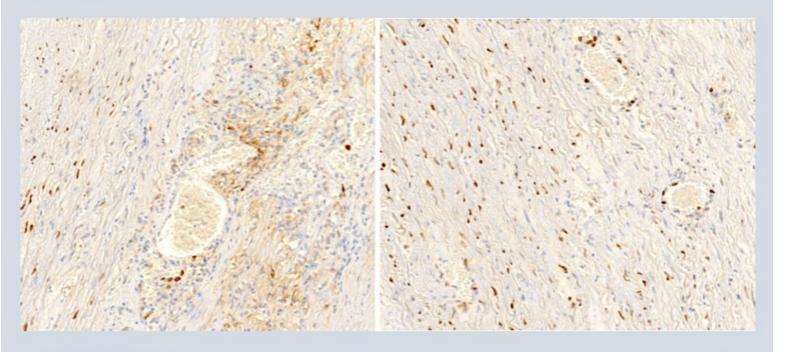








Spike protein is expressed in <u>myofibroblasts</u> near the lymphocyte infiltrates within the aorta (case 10)







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COVID-19: Vaccine-induced immune thrombotic thrombocytopenia (VITT)

Authors: Theodore E Warkentin, MD, BSc(Med), FRCP(C), FACP, FRCP(Edin), Adam Cuker, MD, MS

Section Editor: Mark Crowther, MD, MSc **Deputy Editor:** Jennifer S Tirnauer, MD

All topics are updated as new evidence becomes available and our peer review process is complete.

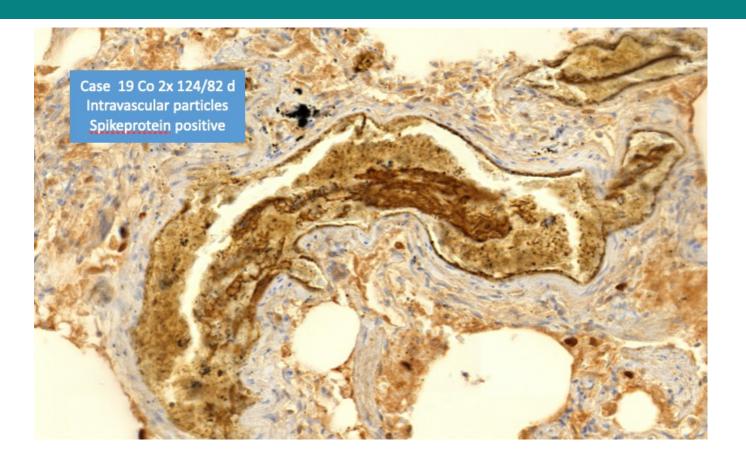
Literature review current through: Mar 2023. | This topic last updated: Feb 07, 2023.







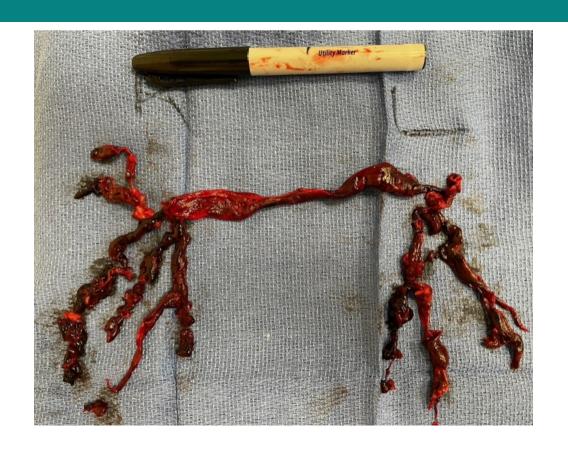




















SARS-CoV-2 spike protein SI induces fibrin(ogen) resistant to fibrinolysis: Implications for microclot formation in COVID-19

Lize M. Grobbelaar, Chantelle Venter, Mare Vlok, Malebogo Ngoepe, Gert Jacobus Laubscher, Petrus Johannes Lourens, Janami Steenkamp, Douglas B. Kell, Etheresia Pretorius doi: https://doi.org/10.1101/2021.03.05.21252960

Now published in Bioscience Reports doi: 10.1042/bsr20210611





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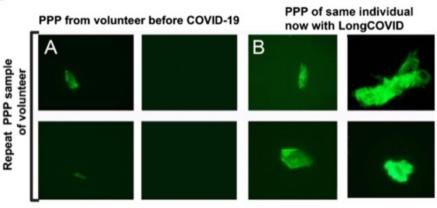
Original investigation | Open Access | Published: 23 August 2021

Persistent clotting protein pathology in Long COVID/Post-Acute Sequelae of COVID-19 (PASC) is accompanied by increased levels of antiplasmin

Etheresia Pretorius ⊠, Mare Vlok, Chantelle Venter, Johannes A. Bezuidenhout, Gert Jacobus Laubscher, Janami Steenkamp & Douglas B. Kell ⊠

Cardiovascular Diabetology 20, Article number: 172 (2021) Cite this article

58k Accesses | 28 Citations | 1473 Altmetric | Metrics



EDUCATIONAL CONFERENCE Spring 2023

Int J Mol Sci. 2022 Oct; 23(19): 11589.

Published online 2022 Sep 30. doi: <u>10.3390/ijms231911589</u>

PMCID: PMC9569841

PMID: 36232891

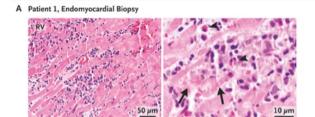
Evaluation of Free Light Chains (FLCs) Synthesis in Response to Exposure to SARS-CoV-2

Monika Gudowska-Sawczuk,^{1,*} Anna Moniuszko-Malinowska,² Sara Pączek,³ Katarzyna Guziejko,⁴ Monika Chorąży,⁵ and Barbara Mroczko^{1,6}

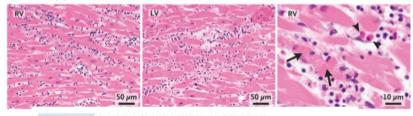
Jacek Z. Kubiak, Academic Editor and Malgorzata Kloc, Academic Editor

FLC were HIGHEST in the HEALTHY VACCINATED CONTROLS!









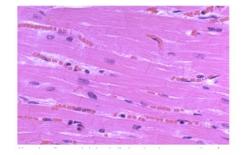
Case Reports > Arch Pathol Lab Med. 2022 Aug 1;146(8):925-929. doi: 10.5858/arpa.2021-0435-SA.

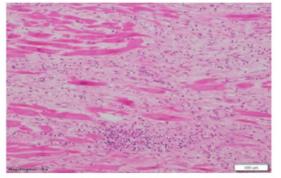
Autopsy Histopathologic Cardiac Findings in 2 Adolescents Following the Second COVID-19 Vaccine Dose

James R Gill ^{1 2}, Randy Tashjian ^{3 4}, Emily Duncanson ⁵

Affiliations + expand

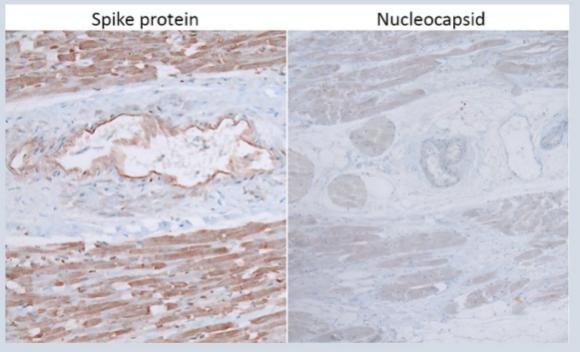
PMID: 35157759 DOI: 10.5858/arpa.2021-0435-SA





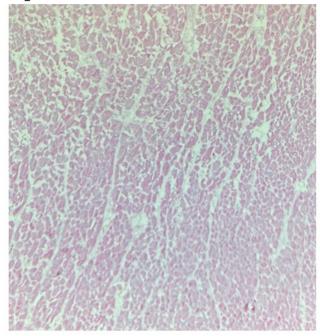


Spike protein vs. nucleocapsid expression in heart muscle (immunohistochemistry)



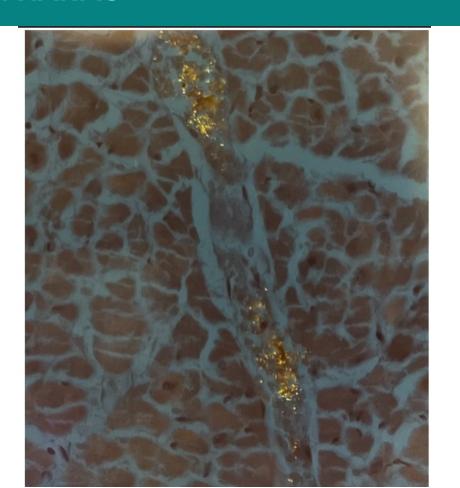


Spike - Heart

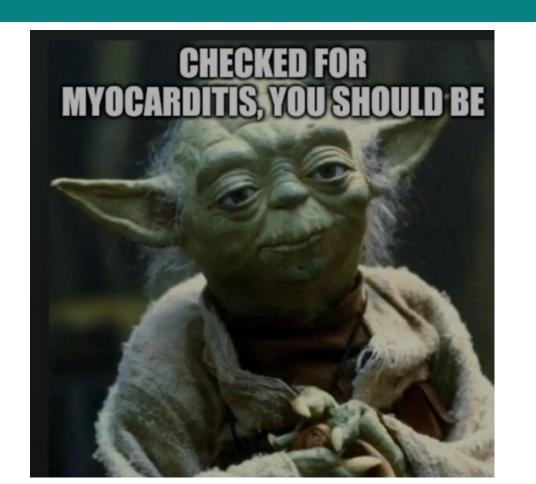














SPIKE - NEUROLOGIC DAMAGE





nature neuroscience

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nature > nature neuroscience > articles > article

Article Published: 16 December 2020

The S1 protein of SARS-CoV-2 crosses the bloodbrain barrier in mice

Elizabeth M. Rhea, Aric F. Logsdon, Kim M. Hansen, Lindsey M. Williams, May J. Reed, Kristen K.

Baumann, Sarah J. Holden, Jacob Raber, William A. Banks 2 & Michelle A. Erickson

Nature Neuroscience 24, 368–378 (2021) Cite this article

327k Accesses | 196 Citations | 6935 Altmetric | Metrics



Open Access Case Report

A Case Report: Multifocal Necrotizing Encephalitis and Myocarditis after BNT162b2 mRNA Vaccination against COVID-19

by (2) Michael Mörz

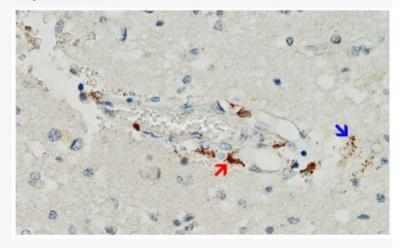
Institute of Pathology 'Georg Schmorl', The Municipal Hospital Dresden-Friedrichstadt, Friedrichstrasse 41, 01067 Dresden. Germany

Vaccines 2022, 10(10), 1651; https://doi.org/10.3390/vaccines10101651

Received: 31 August 2022 / Revised: 25 September 2022 / Accepted: 27 September 2022 / Published: 1 October 2022

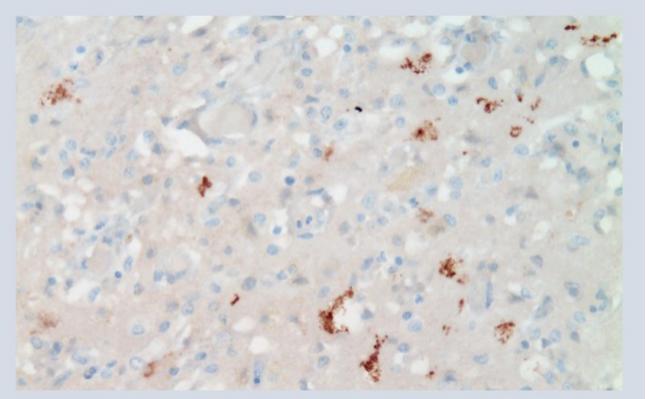
Figure 10. Brain, Nucleus ruber. The abundant presence of SARS-CoV-2 spike protein in swollen endothelium of a capillary vessel shows acute signs of inflammation with sparse mononuclear inflammatory cell infiltrates (same vessel as shown in Figure 12, serial sections of 5 to 20 µm). Immunohistochemical demonstration for SARS-CoV-2 spike protein subunit 1 visible as brown granules in capillary endothelial cells (red arrow) and individual glial cells (blue arrow). Magnification: 200×.

Figure 9. Frontal brain. Positive reaction for SARS-CoV-2 spike protein. Cross section through a capillary vessel (same vessel as shown in Figure 11, serial sections of 5 to 20 μm). Immunohistochemical reaction for SARS-CoV-2 spike subunit 1 detectable as brown granules in capillary endothelial cells (red arrow) and individual glial cells (blue arrow). Magnification: 200×.

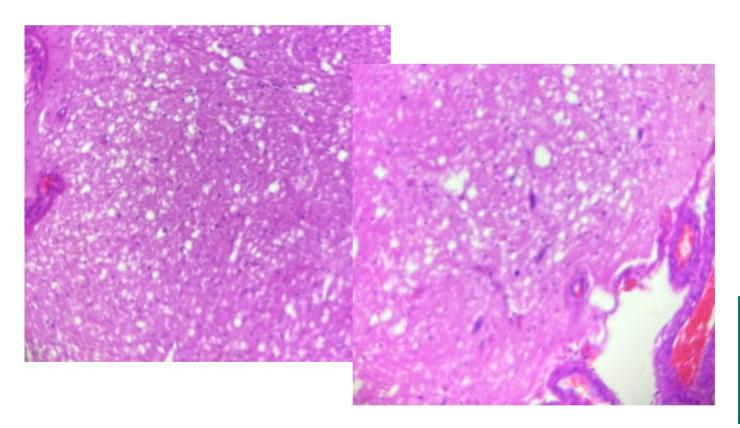




Expression of spike protein in brain tissue

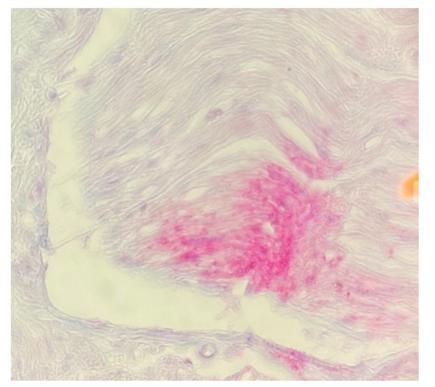








Peripheral nerve - Spike





ORGAN DAMAGE/METABOLIC ALTERATIONS







<u>Leg Med (Tokyo).</u> 2023 Jul; 63: 102244. PMCID: PMC10027302

Published online 2023 Mar 20. doi: 10.1016/j.legalmed.2023.102244 PMID: 36990036

A case of fatal multi-organ inflammation following COVID-19 vaccination

Hideyuki Nushida, a, Asuka Ito, Hiromitsu Kurata, Hitomi Umemoto, A, Itsuo Tokunaga, Hirofumi Iseki, And Akiyoshi Nishimura

▶ Author information ▶ Article notes ▶ Copyright and License information <u>Disclaimer</u>

Abstract Go to: ▶

A 14-year-old Japanese girl died unexpectedly 2 days after receiving the third dose of the BNT1262b2 mRNA COVID-19 vaccine. Autopsy findings showed congestive edema of the lungs, T-cell lymphocytic



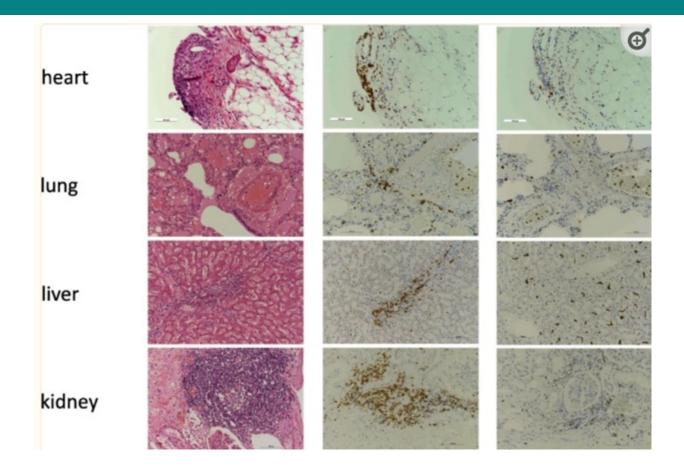
2.3. Biochemical analysis

Laboratory studies revealed elevated SARS-CoV-2 antibody (43600 U/mL, normal less than 0.80), elevated IL-6 (226 pg/mL, normal \leq 4.0), slightly elevated C-reactive protein (0.910 mg/mL). IgE (30.8 IU/mL, normal \leq 170) and C3 (126 mg/dL, normal 86–160) were within the normal range. The biochemical analysis was performed by SRL, Inc. (Tokyo, Japan).

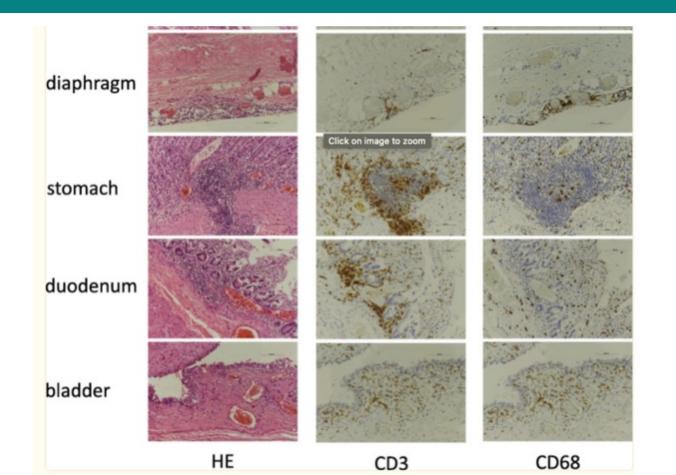
2.4. Diagnosis

A diagnosis of vaccine-related multiple-organ inflammation was made based on the absence of bacterial or viral infection, lack of a past medical history suggestive of autoimmune disease, no allergic reaction, and no drug exposure other than the vaccine. Myopericarditis is a form of multiple-organ inflammation.











Spike damage in liver

HEPATOLOGY

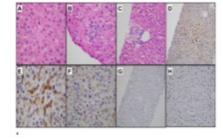


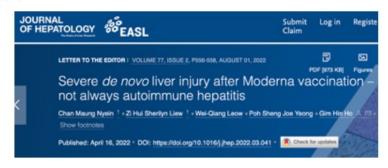
Liver injury after SARS-CoV-2 vaccination: Features of immunemediated hepatitis, role of corticosteroid therapy and outcome

Cumali Efe 🕿, Anand V. Kulkarni, Benedetta Terziroli Beretta-Piccoli, Bianca Magro, Albert Friedrich Stättermayer, Mustafa Cengiz, Daniel Clayton-Chubb, Craig Lammert ... See all authors 🗸

First published: 14 May 2022 | https://doi.org/10.1002/hep.32572

Staffan Wahlin and Thomas D. Schiano share senior authorship.

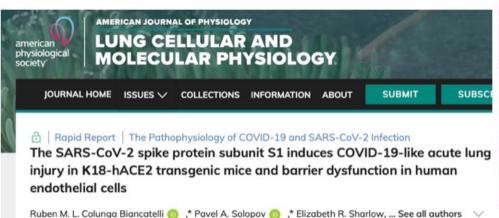


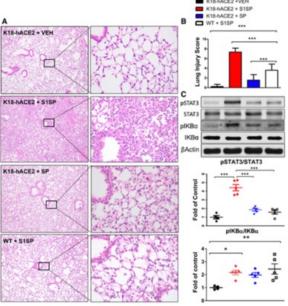




SPIKE HARM LUNG DAMAGE

10 AUG 2021 // https://doi.org/10.1152/ajplung.00223.2021







SPIKE HARM ORGAN DAMAGE

· Heart, Lung, Liver

SARS-CoV-2 spike protein disrupts lipid metabolism resulting in liver, heart & kidney damage





bioRxiv posts many COVID19-related papers. A reminder: they have not been formally peer-reviewed and should not guide health-related behavior or be reported in the press as conclusive.

New Results

A Follow this preprint

The Spike protein of SARS-CoV-2 impairs lipid metabolism and increases susceptibility to lipotoxicity: implication for a role of Nrf2

Vi Nguyen, Yuping Zhang, Chao Gao, Xiaoling Cao, Yan Tian, Wayne Carver, Hippokratis Kiaris, Taixing Cui, Wenbin Tan

doi: https://doi.org/10.1101/2022.04.19.488806



Lancet Diabetes Endocrinol. 2022 Jan; 10(1): 13-16.

Published online 2021 Nov 18. doi: 10.1016/S2213-8587(21)00291-6

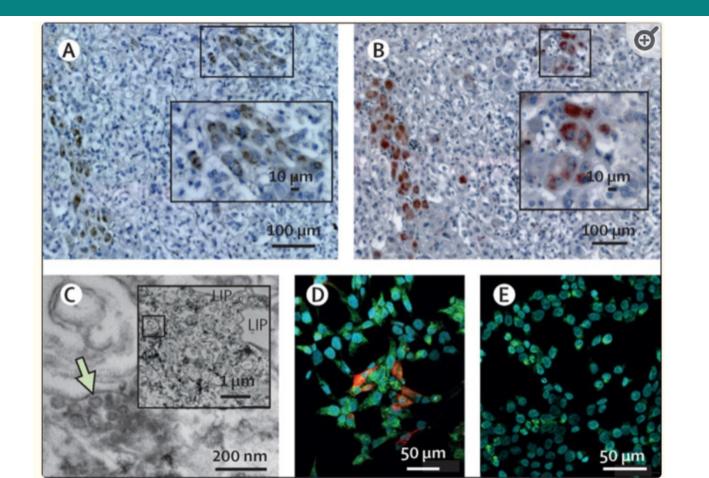
PMCID: PMC8601687

PMID: 34801110

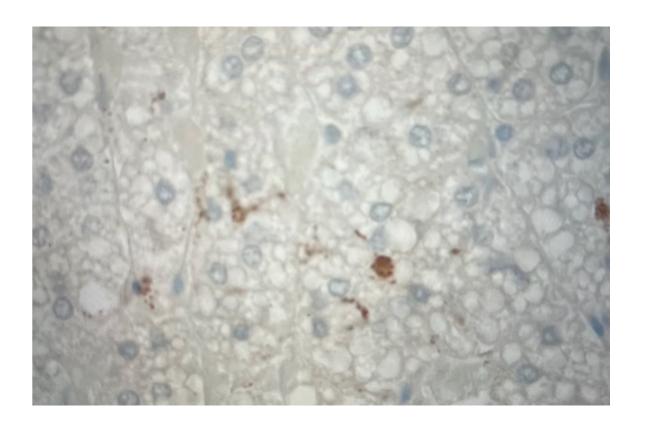
COVID-19 targets human adrenal glands

Waldemar Kanczkowski,^a Katja Evert,^e Marlena Stadtmüller,^b Martina Haberecker,^f Laura Laks,^h Lan-Sun Chen,^b Karl Frontzek,^h Jessica Pablik,^c Constanze Hantel,^{a,g,h} Felix Beuschlein,^{g,h} Thomas Kurth,^d Sven Gruber,^{g,h} Adriano Aguzzi,^h Zsuzsanna Varga,^f and Stefan R Bornstein^{a,i}

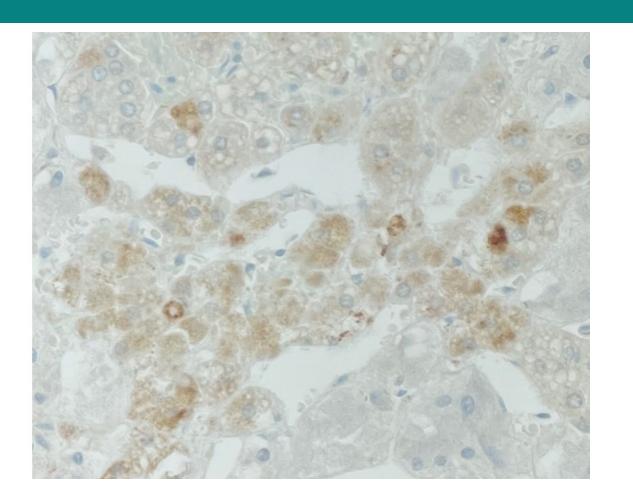






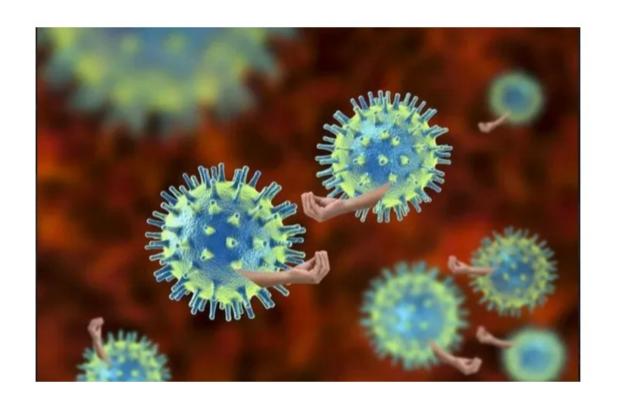








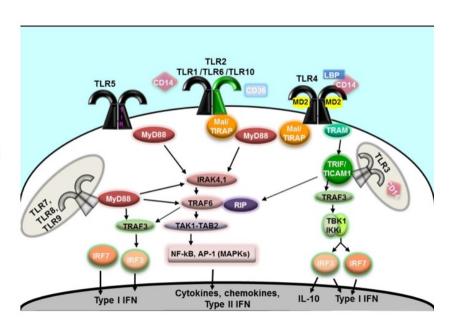
VIRAL REACTIVATION



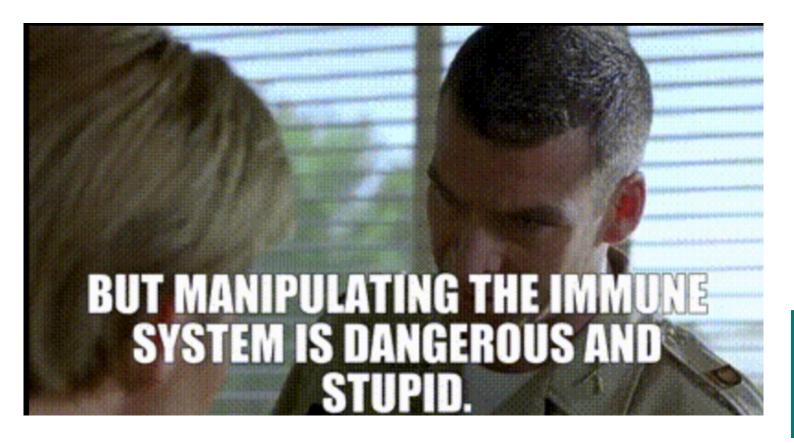


SPIKE HARM DAMAGETOLL LIKE RECEPTORS

- DOWN REGULATION 3,4,7,8
- DECREASE 7,8 = Increase of latent viruses (Herpes Family viruses, Zoster, HSV1 and 2, HHV Epstein -Barr, RSV, HPV,etc.)











The BNT 162b2 mRNA vaccine against SARS-CoV-2 reprograms both adaptive and innate immune responses

D F. Konstantin Föhse, D Büsranur Geckin, D Gijs J. Overheul,



The mRNA BNT162b2 vaccine induces complex functional reprogramming of innate immune responses, which should be considered in the development and use of this new class of vaccines," writes the team.

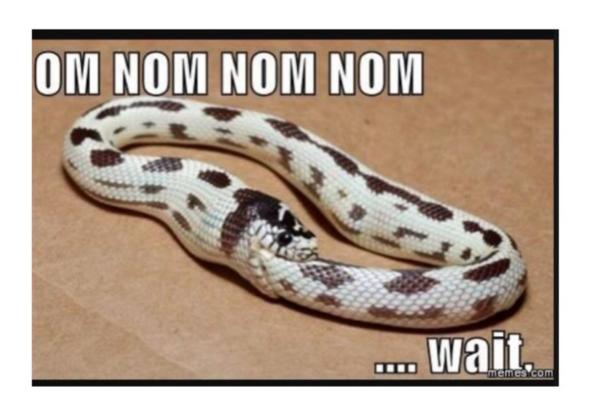


• IMMUNE IMPRINTING/ANTIBODY DEPENDENT ENHANCEMENT/ORIGINAL ANTIGENIC SIN





AUTOIMMUNITY and SPIKE PROTEIN





Case Reports > Infect Drug Resist. 2023 Mar 4;16:1263-1278. doi: 10.2147/IDR.S394602. eCollection 2023.

Emergence of Post COVID-19 Vaccine Autoimmune Diseases: A Single Center Study

```
Safi Alqatari <sup>1</sup>, Mona Ismail <sup>1</sup>, Manal Hasan <sup>1</sup>, Raed Bukhari <sup>1</sup>, Reem Al Argan <sup>1</sup>, Abrar Alwaheed <sup>1</sup>, Dania Alkhafaji <sup>1</sup>, Syed Essam Ahmed <sup>1</sup>, Kawther Hadhiah <sup>1</sup>, Turki Alamri <sup>1</sup>, Ameera Nemer <sup>1</sup>, Fedaa Albeladi <sup>1</sup>, Noor N Bumurah <sup>1</sup>, Khalid Sharofna <sup>1</sup>, Zainab Albaggal <sup>1</sup>, Raghad Alghamdi <sup>1</sup>, Reem S AlSulaiman <sup>1</sup>
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Affiliations + expand

PMID: 36910517 PMCID: PMC9994665 DOI: 10.2147/IDR.S394602



Open Access Article

Potential Autoimmunity Resulting from Molecular Mimicry between SARS-CoV-2 Spike and Human Proteins

```
by ② Janelle Nunez-Castilla 1 ☑ ⑤, ② Vitalii Stebliankin 2 ☑, ② Prabin Baral 3 ☑, ② Christian A. Balbin 1 ☑, ② Masrur Sobhan 4 ☑ ⑥, ② Trevor Cickovski 2 ☑, ② Ananda Mohan Mondal <sup>2,4,5</sup> ☑, ② Giri Narasimhan <sup>2,5</sup> ☑, ② Prem Chapagain <sup>3,5</sup> ☑ ⑥, ③ Kalai Mathee <sup>5,6</sup> ☑ and ② Jessica Siltberg-Liberles <sup>1,5,*</sup> ☑ ⑥
```



Immune Tolerance - IgG4







ORIGINAL RESEARCH article

Front. Immunol., 12 January 2023 Sec. Vaccines and Molecular Therapeutics Volume 13 - 2022 | https://doi.org/10.3389/fimmu.2022.1020844

This article is part of the Research Topic Current Landscape of Adjuvants for Optimizing the Immunogenicity of Vaccines

View all 8 Articles >

mRNA vaccines against SARS-CoV-2 induce comparably low long-term IgG Fc galactosylation and sialylation levels but increasing long-term IgG4 responses compared to an adenovirus-based vaccine











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First release papers

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HOME > SCIENCE IMMUNOLOGY > VOL. 8, NO. 79 > CLASS SWITCH TOWARD NONINFLAMMATORY, SPIKE-SPECIFIC IGG4 ANTIBODIES AFTER REPEATED SARS-...

RESEARCH ARTICLE | CORONAVIRUS



Class switch toward noninflammatory, spike-specific IgG4 antibodies after repeated SARS-CoV-2 mRNA vaccination













PASCAL IRRGANG , JULIANE GERLING , KATHARINA KOCHER , DENNIS LAPUENTE , PHILIPP STEININGER, KATHARINA HABENICHT, MONIKA WYTOPIL



STEPHANIE BEILEKE, SIMON SCHÄFER, [...], AND MATTHIAS TENBUSCH



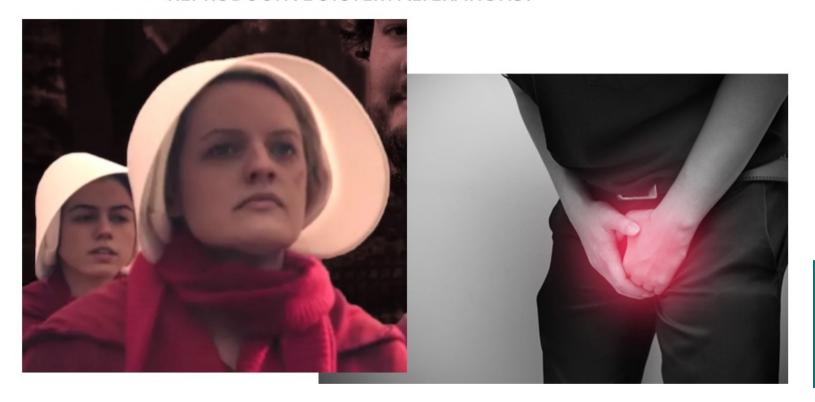
+13 authors

Authors Info & Affiliations

SCIENCE IMMUNOLOGY • 22 Dec 2022 • Vol 8, Issue 79 • DOI: 10.1126/sciimmunol.ade2798



• REPRODUCTIVE SYSTEM ALTERATIONS?





ANDROLOGY

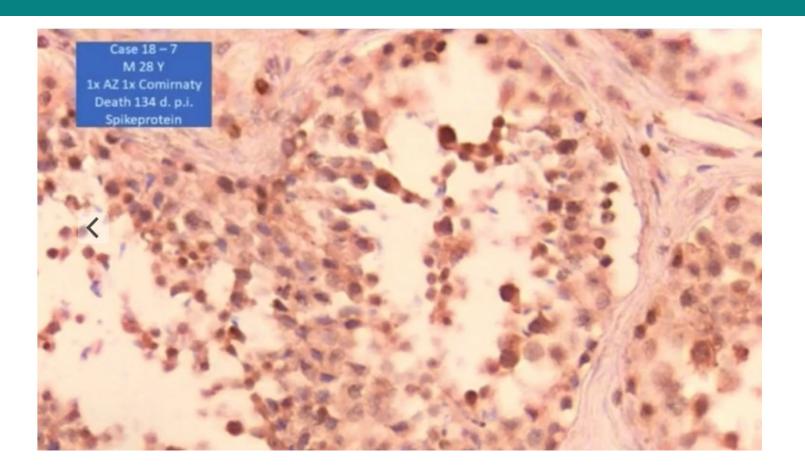


Covid-19 vaccination BNT162b2 temporarily impairs semen concentration and total motile count among semen donors

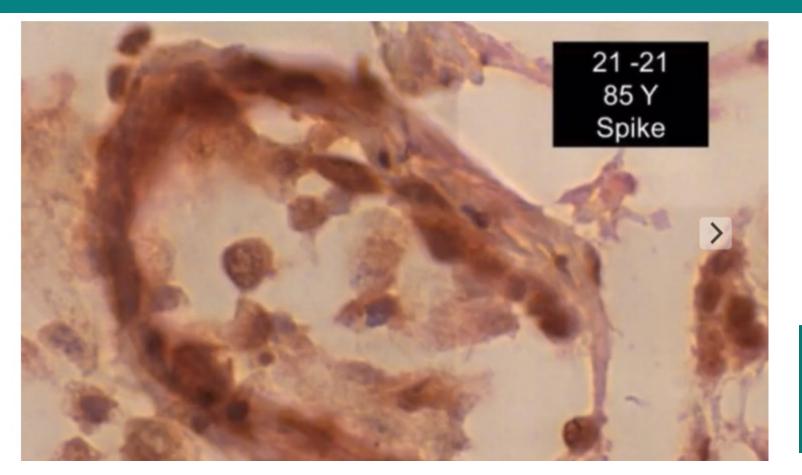
Itai Gat 🔀, Alon Kedem, Michal Dviri, Ana Umanski, Matan Levi, Ariel Hourvitz, Micha Baum

First published: 17 June 2022 | https://doi.org/10.1111/andr.13209 | Citations: 1















Jerusalem Post > Health & Wellness > Coronavirus



The Health & Wellness portal is presented in collaboration with Samson Assuta Ashdod University Hospital >>

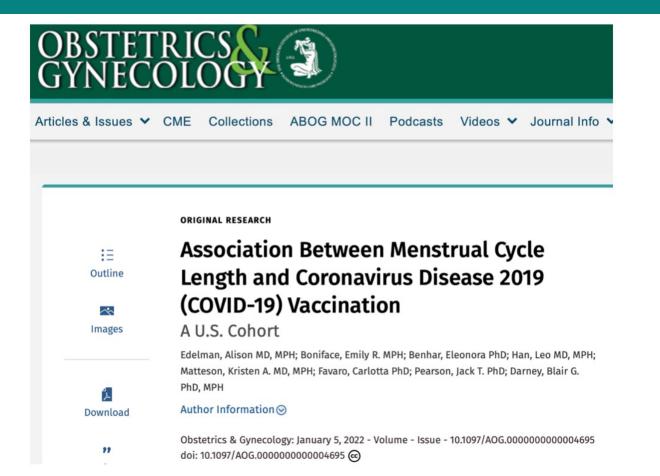
COVID-19 booster shot can cause irregular menstrual periods - Health Ministry

Women and young people are more susceptible to experiencing the side effects of the booster shot, a Health Ministry study showed.

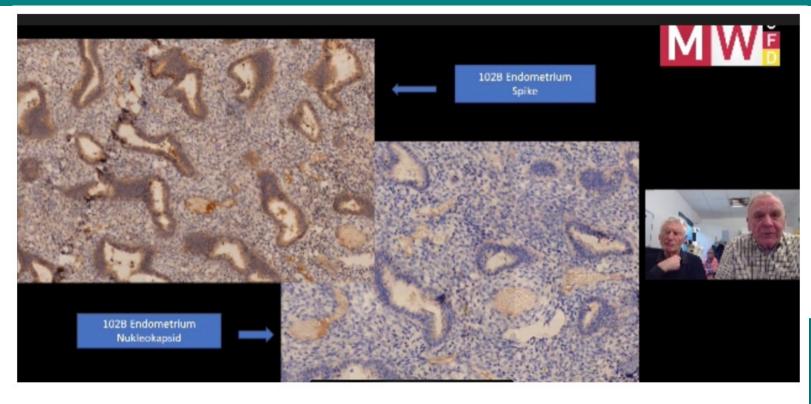
By JERUSALEM POST STAFF Published: FEBRUARY 9, 2022 16:52





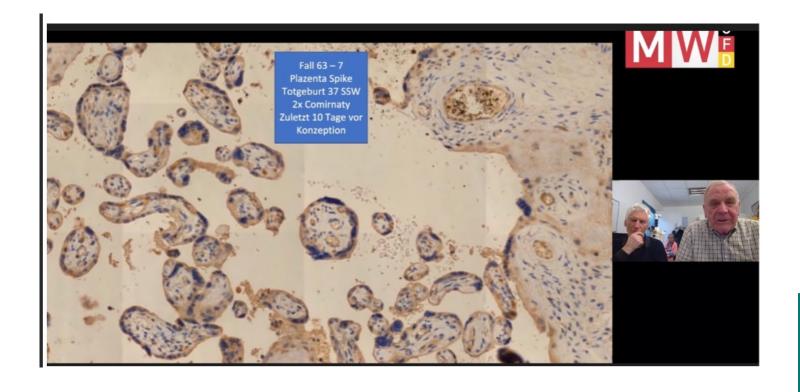






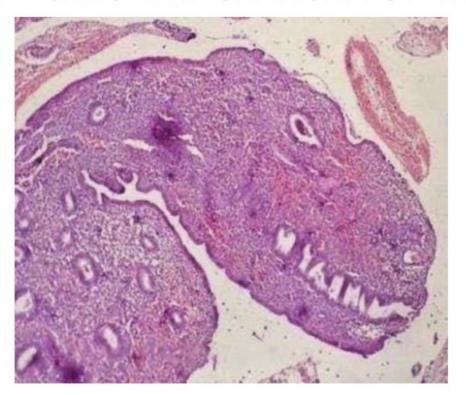


SPIKE REPRODUCTIVE HARMS



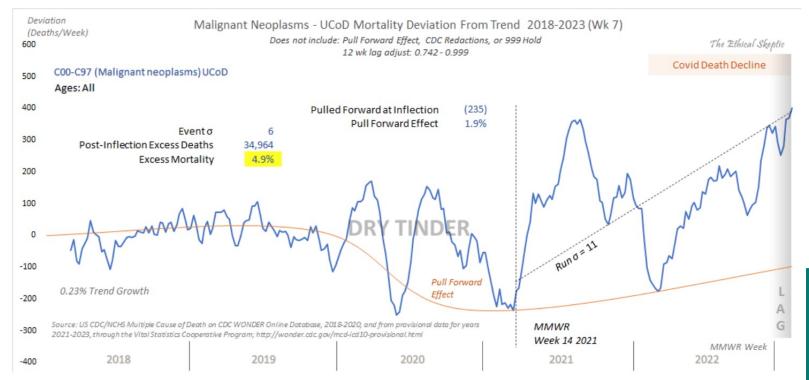


SPIKE - CANCER MECHANISM POTENTIAL

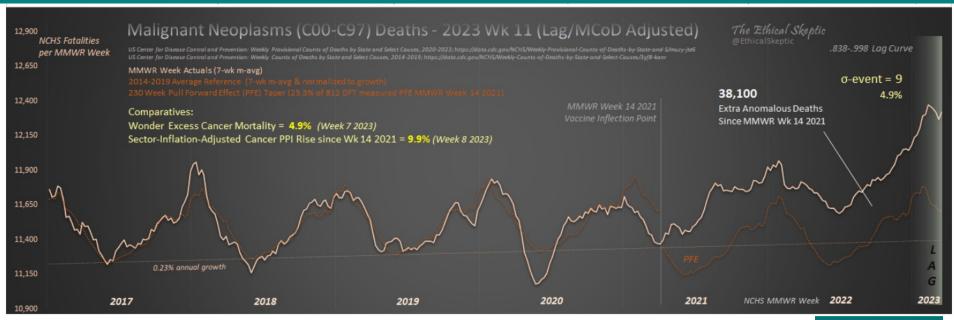




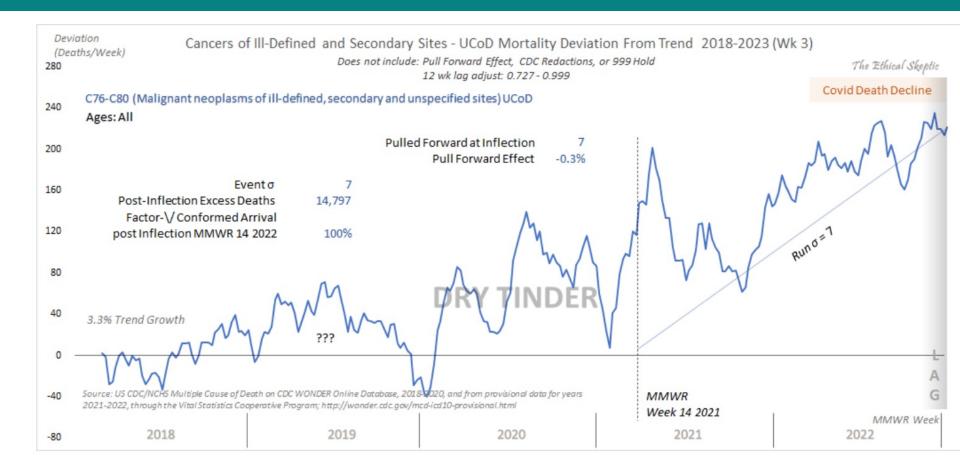
https://theethicalskeptic.com/2022/08/20/houston-we-have-a-problem-part-1-of-3/

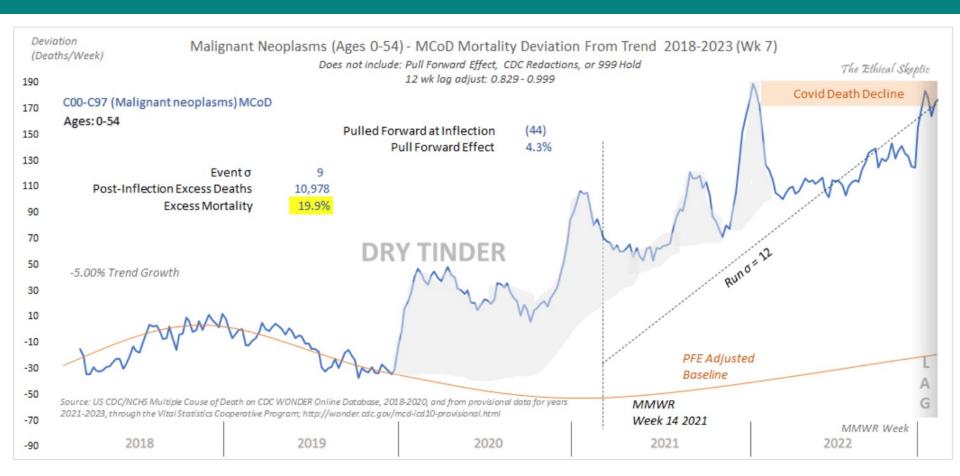












Government Databases and Codes must be searched and reporting not delayed!







P53 is the GUARDIAN OF OUR GENOME





<u>Transl Oncol.</u> 2020 Oct; 13(10): 100814.

Published online 2020 Jun 30. doi: 10.1016/j.tranon.2020.100814

PMCID: PMC7324311

PMID: 32619819

S2 Subunit of SARS-nCoV-2 Interacts with Tumor Suppressor Protein p53 and BRCA: an In Silico Study

Nishant Singh* and Anuradha Bharara Singh

▶ Author information ▶ Article notes ▶ Copyright and License information <u>Disclaimer</u>



SPIKE HARM DAMAGE - DNA REPAIR

> Viruses. 2021 Oct 13;13(10):2056. doi: 10.3390/v13102056.

SARS-CoV-2 Spike Impairs DNA Damage Repair and Inhibits V(D)J Recombination In Vitro

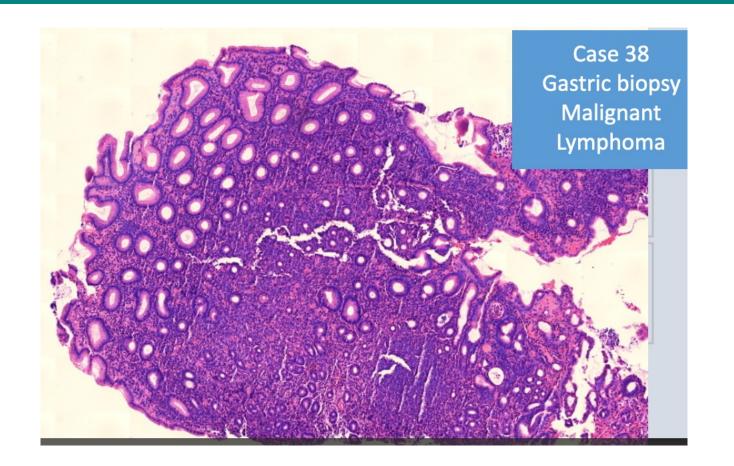
Hui Jiang ^{1 2}, Ya-Fang Mei ²

Affiliations + expand

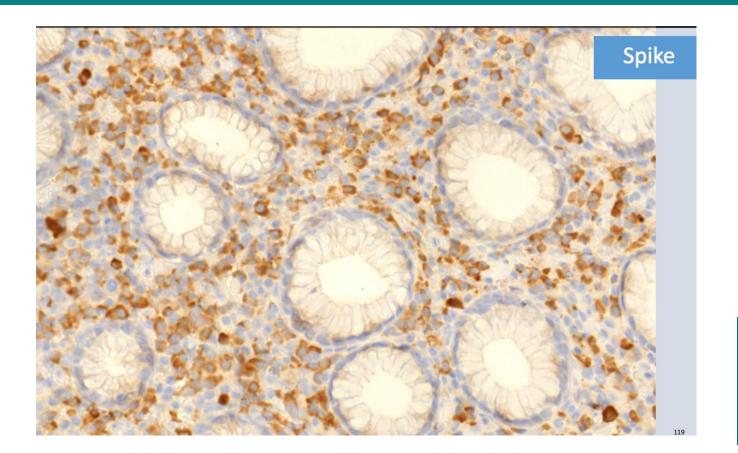
PMID: 34696485 PMCID: PMC8538446 DOI: 10.3390/v13102056

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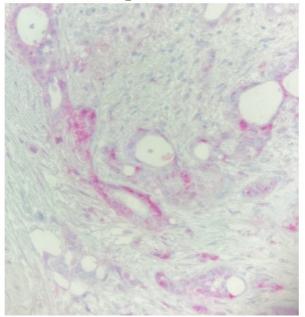








Pancreatic adenocarcinoma-Spike





Comparative Study

> Anticancer Res. 1999 May-Jun;19(3B):2173-80.

Cancer risk associated with simian virus 40 contaminated polio vaccine

S G Fisher 1, L Weber, M Carbone

Clin Microbiol Rev. 2004 Jul; 17(3): 495-508.

doi: 10.1128/CMR.17.3.495-508.2004

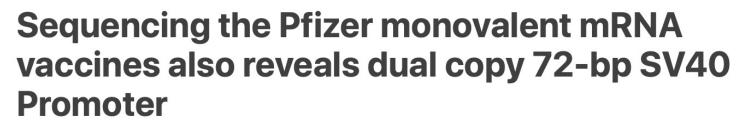
Emergent Human Pathogen Simian Virus 40 and Its Role in Cancer

Regis A. Vilchez 1,2 and Janet S. Butel 2,*



Nepetalactone Newsletter









Cancer mechanisms/drivers/contributors

many - not comprehensive

- -gene mutations
- -hypoxic environment
- -chronic viral infections HPV, EBV, etc.
- -low interferon response
- -decreased cell energy mitochondrial damage
- -loss of immune surveillance
- -microRNA
- -hormone dysregulation
- -Toll like receptor alterations
- -SV40 virus/SV40 promoter ?



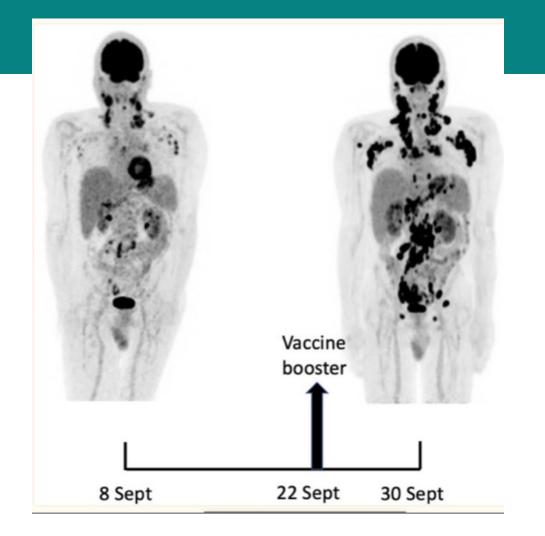
Front Med (Lausanne). 2021; 8: 798095. PMCID: PMC8656165

Published online 2021 Nov 25. doi: <u>10.3389/fmed.2021.798095</u> PMID: <u>34901098</u>

Rapid Progression of Angioimmunoblastic T Cell Lymphoma Following BNT162b2 mRNA Vaccine Booster Shot: A Case Report

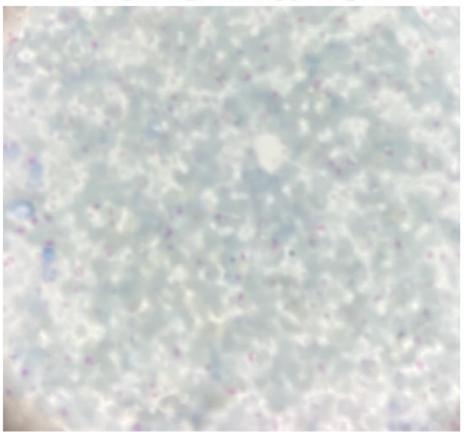
Serge Goldman, ¹ Dominique Bron, ² Thomas Tousseyn, ³ Irina Vierasu, ¹ Laurent Dewispelaere, ⁴ Pierre Heimann, ⁴ Elie Cogan, ⁵ and Michel Goldman ⁶, *



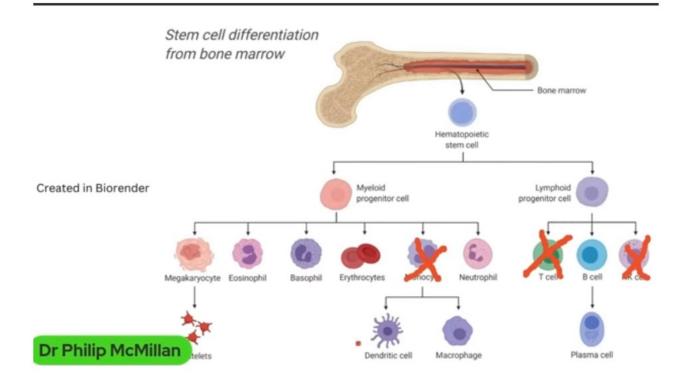




Bone Marrow

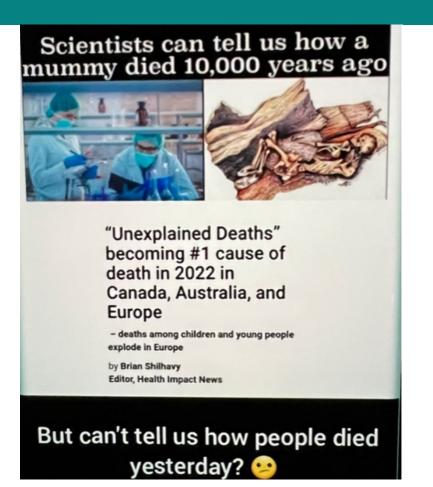








SPIKE PROTEIN HARMS



Sudden Death Excess Death

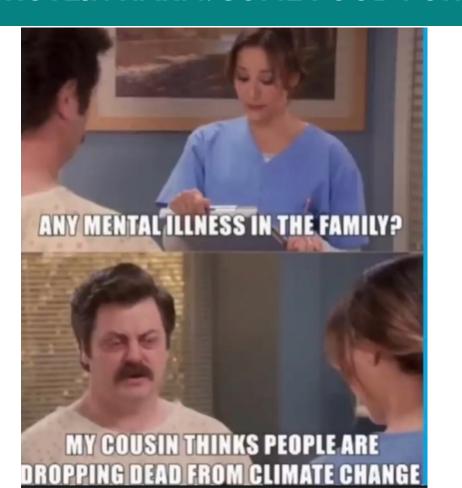


Doctors & Nurses pretending they have no idea why healthy young people are having strokes and heart attacks.



Sudden Death Excess Death





Sudden Death Excess Death





In an approximate 11-year cycle, the sun



Sudden Death Excess Death

This terrifying phenomenon is becoming increasingly common because of climate change



vice.com

Scientists Studying Temperature at Which Humans Spontaneously Die With Increasing Urgency



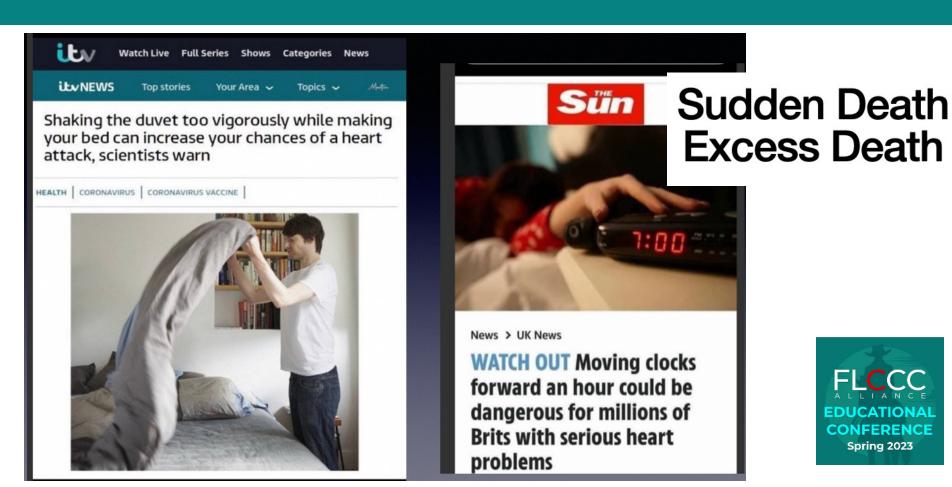




Breathing too many times a day could raise your risk of a deadly heart attack

Trial found that people who breathe more than 5 percent above the daily average had a rise in blood







Cannabis use disorder may of heart attacks in younger adults



Energy bill price rise may cause heart attacks and strokes, says TV GP-WalesOnline

Rise in heart attacks attributed to pandemic stress and poor diet



Health > News Health

HIDDEN RISK Urgent warning as 300,000 Brits living with stealth disease that could kill within 5 years

Vanessa Chalmers, Digital Health Reporter

The little-known heart attack that's be linked to growing number striking 'fit and healthy' women as young as 22



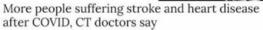
Devoted football fans experience 'dangerous' levels of stress



E-cigarettes increase stroke risk at earlier ages than conventional cigarettes

Heart attack: The drink that could trigger a 'sudden' cardiac arrest - 'catastrophic'

Now even sticking to medics' alcohol guidelines is bad for your health! Risk of heart problems could be increased even if you drink less than NHS weekly units, study suggests



Why are heart attacks becoming common in 'seemingly' fit people?



HEALTH FORECAST How the weather is HARMING your health - from heart attacks to stroke and gout



TIS THE SEASON The ways cold weather can affect your body - from winter vagina to blood clots

Heart attack: Does skipping breakfast increase your risk?



Sudden Death **Excess Death**



Heart attack: The 'healthy' diet that may 'increase' your risk of having a heart attack



Sports can break your heart in more ways than one



Heart disease: Reduce your child's risk COVID-19 pandemic increasing risk of anxiety, and therefore heart disease: study

Can shovelling snow cause a heart attack? What Canadians need to know

> Sudden Death **Excess Death**

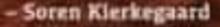


WE ARE STILL LEARNING





THERE ARE TWO WAYS TO BE FOOLED: ONE IS TO BELIEVE WHAT ISN'T TRUE, THE OTHER IS TO REFUSE TO BELIEVE WHAT IS TRUE.







THANK YOU

