1 2 3	RICHARD JAFFE, ESQ. State Bar No. 289362 428 J Street, 4 th Floor Sacramento, California 95814 Tel: 916-492-6038	
4	Fax: 713-626-9420	
5	Email: rickjaffeesquire@gmail.com	
6 7	Attorney for Plaintiffs Douglas Mackenzie, MD and Physicians for Informed Consent	
8	UNITED STATES DISTRICT COURT	
9	EASTERN DISTRICT OF CALIFORNIA	
10		
11		
12	DOUGLAS MACKENZIE, MD. and PHYSICIANS FOR INFORMED CONSENT,	No.: 2:22-CV-01203-JAM-KJN
13		
14	Plaintiffs,	GREGORY J. GLASER, ESQ. DECLARATION IN SUPPORT OF
15	v.	PLAINTIFFS' MOTION FOR A
16	WILLIAM J. PRASIFKA,	PRELIMINARY INJUNCTION
17	in his official capacity as EXECUTIVE DIRECTOR, MEDICAL BOARD OF	Date: September 27, 2022
18	CALIFORNIA, and JOHN AND JANE DOES	Time: 1:30 p.m.
19	1-10 being unknown state and other individuals who violated Plaintiff's clearly	Time: 1.50 p.m.
20	established First Amendment rights,	Judge: Judge John A. Mendez
21	Defendants.	Location: Courtroom 6
22		
23	I, Gregory J. Glaser, Esq. hereby declare:	
24	1. I am a licensed California lawyer (SBN 226706) and the general counsel to	
25		
26		
27	2. I submit this declaration in support of Plaintiffs' motion for preliminary	
28	injunction to bar the Medical Board of California (the "Board") from continuing or	

commencing any investigation of a California licensed physician for speaking out in a public 2 setting about the Covid-19 pandemic or the government's response thereto, or about treatment 3 or vaccines.

3. As part of my responsibilities for PIC, I receive questions from California physician members about the law and the Board.

1

4

5

6

7

8

9

13

14

15

16

17

21

23

24

25

26

27

Likelihood of Prevailing on the Merits

4. Starting in late 2021, and continuing to the present, I have received many inquires from physician members seeking advice about how they are permitted to speak in public about Covid and express views critical to the government's response.

5. 10 By way of example, here is the most recent email I received from a California 11 physician (name and other identifying information omitted to protect against possible Board 12 action for so called "Covid misinformation.")

Subject: Radio invitation

To: Greg Glaser < gregoryjglaser@gmail.com> Greg,

Hopeful you are well!

What can be said on public radio about IVM, Covid, HCQ, etc?

One of our pt's invited me to speak on her radio show.

IVM refers to Ivermectin, and HCQ refers to hydroxychloroquine.

This is the current environment in which many California physicians live, having 18 6. to check with a lawyer before they speak out about public health and medical matters. If this is 19 20not a chilling effect on a physician's First Amendment right of free speech, then I am not sure what would be one.

22 **Irreparable Harm**

7. PIC has experienced multiple of its physician members move out of California because of the increasingly hostile policies of the Board, but especially the Board's position to send threatening letters to physicians because of free speech in public over Covid-19. California is already experiencing a shortage of physicians, and so the Board's censorship continues to cause irreparable harm to PIC's mission to unite physicians in California.

2

28

8. Since AB 2098 was introduced in the California legislature, PIC has considered

moving PIC headquarters out of California as well, as PIC is unfairly challenged to meet the 1 2 organization's educational mission in the Board's current chilled speech environment. For 3 example, attached hereto as Exhibit A is the letter that PIC submitted through the California 4 Legislature's official Position Letter Portal (https://calegislation.lc.ca.gov/Advocates/faces/ 5 index.xhtml) in regards to this matter. From my perspective, the Board's standard for 6 misinformation is so hopelessly vague, it is impossible for me to advise my client PIC whether 7 the Board will arbitrarily prosecute PIC for content on the attachment ("COVID-19 VACCINE 8 MANDATES: 20 Scientific Facts That Challenge the Assumptions") even though such PIC 9 content is factual and meticulously cited.

10 Balance of Equities

9. Without California doctors being free to speak their mind and educate the public, regarding Covid-19 or vaccination or any other controversial topic, legislators will not be able to obtain knowledge from a breadth of physician and surgeon opinions, and the public will not be able to obtain their doctors' honest opinion—because doctors who think and act differently from the contemporary "applicable standard of care" will fear losing their medical license. Section 2234.1 of the Business and Professions Code respects and protects doctors who think outside the box.

18 **Public Interest**

10. Public health is not achieved, and scientific knowledge does not progress, by censoring dissenting physicians and surgeons or anyone else. AB 2098 and the Board's position re Covid misinformation is anti-doctor, anti-public health, anti-science, and anti-free speech, which is why PIC is taking a stand for the constitutional rights of its members. PIC maintains that by protecting free speech for its physician members, this benefits the public by promoting the free marketplace of ideas, and recognition that scientific debate is vibrant regarding Covid.

11. For example, John Hopkins published this year an influential meta-analysis that prompted the White House to walk back its lockdown promotion policies:

3

11

12

13

14

15

16

"While this meta-analysis concludes that lockdowns have had little to no public health effects, they have imposed enormous economic and social costs where they have been adopted. In consequence, lockdown policies are ill-founded and should be rejected as a pandemic policy instrument."

Herby, J, et al. *A Literature Review and Meta-Analysis of the Effects of Lockdowns on Covid-19 Mortality*. JOHN HOPKINS INSTITUTE FOR APPLIED ECONOMICS, GLOBAL HEALTH, AND THE STUDY OF BUSINESS ENTERPRISE. (January 2022). <u>https://sites.krieger.jhu.edu/iae/files/2022/</u> <u>01/A-Literature-Review-and-Meta-Analysis-of-the-Effects-of-Lockdowns-on-COVID-19-</u> Mortality.pdf.

Another example is that the CDC published this year that natural immunity to the delta variant offered better protection than Covid-19 vaccination, conceding "Rates among vaccinated persons without a previous COVID-19 diagnosis were consistently higher than rates among unvaccinated persons with a history of COVID-19." León TM, et al. *COVID-19 Cases and Hospitalizations by COVID-19 Vaccination Status and Previous COVID-19 Diagnosis* — *California and New York, May–November 2021*. MMWR MORB MORTAL WKLY REP (Jan. 28, 2022). 2022;71:125–131. <u>https://www.cdc.gov/mmwr/volumes/71/wr/mm7104e1.htm.</u>

Another example is the infamous vaccine developer and mandate enthusiast Dr. Paul Offit penned the following (against mandates and boosters) in the Washington Post, "It would be very simple for public health authorities, including the CDC, to acknowledge that a coronavirus infection is at least as protective as two doses of vaccine." Offit, P, et al. *People who have had covid-19 don't need three vaccine shots*. WASHINGTON POST (Feb. 10, 2022). https://www.washingtonpost.com/outlook/2022/02/10/infection-vaccination-protectionmandates-cdc/.

These are just three examples among many where physicians speaking freely have changed the narrative on Covid, or at least attempted to do so. It is an indisputable fact that public health authorities have changed their covid narratives repeatedly (i.e., 'the vaccine prevents transmission, actually no it does not prevent transmission'; 'a cloth face covering is not secure enough to stop a virus, actually go ahead and put that face covering on if you're within 6 feet indoors or outdoors, actually just indoors').

12. If the Court would like an expert declaration with abundant examples showing the many flip-flops on government Covid narratives, including information from recent FOIA document releases,¹ then Plaintiff PIC is ready and willing to provide such testimony through one of its experts. But the goal of this case is not the impossible task of settling a debate, but rather recognizing the law that free speech is protected, and scientific debate simply exists and is beneficial. As the Verified Complaint states at paragraph 94:

There is nothing wrong with government agencies or established medical science changing their positions as new information is assimilated. In fact, it is a good thing. The problem, especially acute, in a fast-changing public health situation like Covid, is the governmental arrogance that physicians who challenge the accepted science are dishonest and need to be censored, sanctioned and reeducated for expressing their opinions in public. That is something the courts should not tolerate.

I declare under threat of penalty of perjury under the laws of the United States of America that

the foregoing is true and correct, and that this declaration was executed on the date set forth

below in Copperopolis, California.

Dated: August 9, 2022

Engory J. Closer

Gregory J. Glaser, Esq.

¹ See, e.g., Pub. Health & Med. Professionals v. FDA, No. 4:21-cv-1058-P, 2022 U.S. Dist. LEXIS 5621 (N.D. Tex. Jan. 6, 2022) (court order requiring Pfizer to produce clinical trial records pursuant to FOIA).

EXHIBIT A



March 9, 2022

Re: AB 2098 (doctor censorship) Position: Oppose

Dear California Legislators,

On behalf of hundreds of physician and surgeon members of Physicians for Informed Consent (PIC) and thousands of our health-freedom members, in the interest of the health and safety of all Californians, and in allegiance to the U.S. Constitution, we oppose AB 2098—and deem it as the worst bill of the 2022 legislative session.

Without California doctors being free to speak their mind and educate the public, regarding COVID-19 or vaccination or any other controversial topic, no other public health laws will matter as legislators will not be able to obtain knowledge from a breadth of physician and surgeon opinions, and the public will not be able to obtain their doctors' honest opinion—because doctors who think and act differently from the contemporary "applicable standard of care" will fear losing their medical license. Section 2234.1 of the Business and Professions Code respects and protects doctors who think outside the box. AB 2098 blatantly proposes a new law "abridging the freedom of speech" of doctors and violating the right of doctors to "petition the Government for a redress of grievances," which violates the first amendment of the U.S. Constitution.

Public health is not achieved, and scientific knowledge does not progress, by censoring dissenting physicians and surgeons or anyone else. AB 2098 is anti-doctor, anti-public health, anti-science, and anti-free speech and we urge you to oppose it.

Sincerely,

Shira Miller, M.D. Founder and President Physicians for Informed Consent

Notice: If AB 2098 becomes law then PIC's enclosed "<u>COVID-19 Vaccine Mandates: 20 Scientific Facts That</u> <u>Challenge the Assumptions</u>" may effectively become banned, so we urge you to read it while you still can.

About Physicians for Informed Consent

Physicians for Informed Consent is a 501(c)(3) educational nonprofit organization focused on science and statistics. PIC delivers data on infectious diseases and vaccines, and unites doctors, scientists, healthcare professionals, attorneys, and families who support voluntary vaccination. In addition, the PIC Coalition for Informed Consent consists of over 300 U.S. and international organizations that represent millions of people. To learn more, please visit <u>physiciansforinformedconsent.org</u>.

COVID-19 VACCINE MANDATES: 20 Scientific Facts That Challenge the Assumptions

ASSUMPTIONS



FACTS

Available in other languages at: physiciansforinformedconsent.org/ covid-19-vaccines

ASSUMPTION: The COVID-19 vaccines significantly reduce the spread of COVID-19, so high universal vaccination rates will prevent outbreaks and end the pandemic.

FACT 1: A study of a COVID-19 outbreak in July 2021 published in *Eurosurveillance* found that "all transmissions between patients and staff occurred between masked and vaccinated individuals, as experienced in an outbreak from Finland." The authors state that the study "challenges the assumption that high universal vaccination rates will lead to herd immunity and prevent COVID-19 outbreaks."¹

FACT 2: A Centers for Disease Control and Prevention (CDC) study of another COVID-19 outbreak in July 2021 found that 74% of cases were fully vaccinated.²

FACT 3: A Harvard study investigating COVID-19 cases across 68 countries and across 2,947 counties in the U.S. found "no significant signaling of COVID-19 cases decreasing with higher percentages of population fully vaccinated."³



A study of a COVID-19 outbreak in July 2021 found that all transmissions between patients and staff occurred between vaccinated individuals.

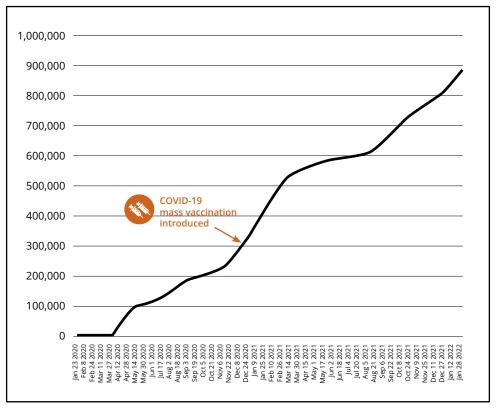


A Harvard study investigating COVID-19 cases across 68 countries and 2,947 counties in the U.S. found no decrease in cases with an increase in vaccination.

FACT 4: There is no evidence from clinical trials that any of the vaccines prevent death because they did not have enough statistical power to measure the vaccine's ability to prevent deaths.⁴⁻⁶ The U.S. Food and Drug Administration (FDA) states, "A larger number of individuals at high risk of COVID-19 and higher attack rates would be needed to confirm efficacy of the vaccine against mortality."⁴⁻⁶

FACT 5: A study of a COVID-19 outbreak in July 2021 published in *Eurosurveillance* observed that 100% of severe, critical, and fatal cases of COVID-19 occurred in vaccinated individuals.¹

FACT 6: CDC data show mass vaccination with the COVID-19 vaccine has had no measurable impact on COVID-19 mortality in the U.S. In the nine months before the introduction of mass vaccination (April 2020 through December 2020), there were about 356,000 COVID-19 deaths. In the nine months after the introduction of mass vaccination, there were 342,000 COVID-19 deaths (January 2021 through September 2021), and 182,000 additional COVID-19 deaths occurred in the four months that followed (October 2021 through January 2022).⁷



Total COVID-19 Deaths, United States⁷

CDC data show mass vaccination with the COVID-19 vaccine has had no measurable impact on COVID-19 mortality in the U.S.

All references are available at: physiciansforinformedconsent.org/covid-19-vaccines

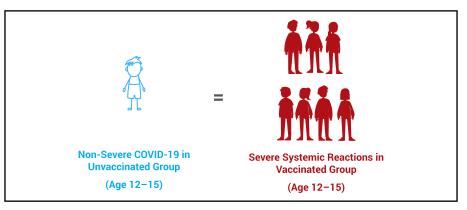
ASSUMPTION: For children, being injected with COVID-19 vaccines is safer than being infected with SARS-CoV-2.

FACT 7: In the Pfizer clinical trial, there were zero cases of severe COVID-19 in children who did not receive the vaccine.^{8,9} In contrast, for children 5 years or older, the Pfizer COVID-19 vaccine clinical trial found that the vaccine causes severe (grade 3) systemic reactions that include fever greater than 102.1° F; vomiting that requires IV hydration; diarrhea of six or more loose stools in 24 hours; and severe fatigue, severe headache, severe muscle pain, or severe joint pain that prevents daily activity.⁹⁻¹²

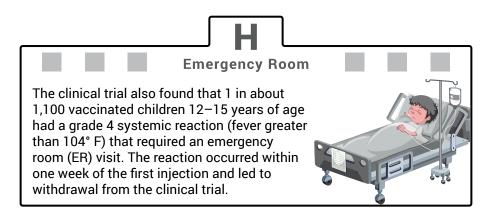
FACT 8: In the clinical trial, a range of 1 in 59 to 1 in 143 vaccinated children 5 to 11 years of age suffered severe systemic reactions within seven days of the second dose. There were 3 to 8 cases of severe systemic reactions observed in the vaccinated group for every 10 cases of non-severe COVID-19 in the unvaccinated group.⁹

FACT 9: In the clinical trial, 1 in 9 vaccinated adolescents 12 to 15 years of age suffered severe systemic reactions within seven days of receiving the second dose. There were 7 times more severe systemic reactions observed in the vaccinated group than non-severe COVID-19 cases in the unvaccinated group.¹⁰⁻¹²

FACT 10: The clinical trial also found that 1 in about 1,100 vaccinated children 12 to 15 years of age had a grade 4 systemic reaction (fever greater than 104° F) after the first dose that required an emergency room (ER) visit and withdrawal from the study.^{10,13}

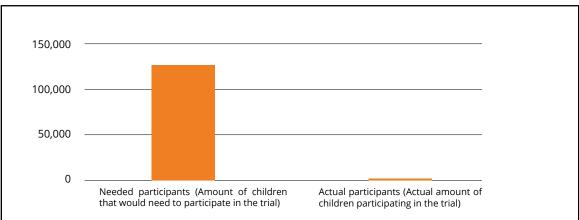


In the Pfizer COVID-19 vaccine clinical trial, zero unvaccinated adolescents 12 to 15 years of age suffered a severe case of COVID-19. In contrast, for every 1 case of non-severe COVID-19 in the unvaccinated group, there were 7 cases of severe (grade 3) systemic reactions in the vaccinated group.



ASSUMPTION: The COVID-19 vaccine clinical trial was large enough to show safety in children.

FACT 11: The Pfizer clinical trial did not have enough statistical power to show the vaccine is safe in children under 18 years of age, as the study did not include enough subjects to establish safety (i.e., the clinical trial only included about 2,600 vaccinated children aged 5 to 15).^{9,14} In comparison, it is known that COVID-19 fatalities are rare in children. As of Nov. 3, 2021, the chance of a child 17 years or younger contracting SARS-CoV-2 and dying from COVID-19 was 1 in 126,000 or 0.0008%.¹⁵



The COVID-19 Vaccine Clinical Trial Is Inadequate to Show Safety in Children

Because the chance of a child contracting SARS-CoV-2 and dying from COVID-19 is 0.0008% or 1 in 126,000, at least 126,000 children are needed to detect one death from COVID-19. Therefore, there must be at least 126,000 vaccinated participants enrolled in the clinical trial to compare the risk of death from COVID-19 to the risk of death from the vaccine. However, only about 2,600 vaccinated children participated in the clinical trial.

ASSUMPTION: It's known that COVID-19 vaccines have no long-term side effects.

FACT 12: Because all subjects in clinical trials were observed for only two to six months, the longterm safety of COVID-19 vaccines for any age group is not known. Per the FDA, there are currently insufficient data to make conclusions about the safety of Pfizer, Moderna and Johnson & Johnson vaccines in subpopulations such as pregnant and lactating individuals, and immunocompromised individuals.^{48,16} Per Pfizer, the vaccine "has not been evaluated for the potential to cause carcinogenicity, genotoxicity, or impairment of male fertility."¹⁷

FACT 13: Safety surveillance reports have identified serious risks of myocarditis and pericarditis in subjects under age 40, within seven days of vaccination. In boys aged 16 or 17, the FDA has reported an excess risk of myocarditis or pericarditis of 1 in 5,000 after the second dose of the Pfizer COVID-19 vaccine.¹⁸ And in boys aged 12 to 17, also after a second dose of the Pfizer COVID-19 vaccine, a Hong Kong study found an excess risk of myocarditis or pericarditis of 1 in 2,700.¹⁹



ASSUMPTION: Booster shots will solve the problem of waning vaccine immunity.

FACT 14: The clinical trials detected that vaccine immunity wanes significantly over a short period of time. For example, the Pfizer vaccine efficacy decreased by 8% to 18% within only six months, and the Johnson & Johnson vaccine efficacy decreased by 25% to 29% within only six months.^{20,21} Additionally, the efficacy measured in the clinical trials was against the original Wuhan strain, not the new variants.

FACT 15: In clinical trials, a third dose of Pfizer or Moderna vaccine or a second dose of Johnson & Johnson vaccine has not been evaluated for efficacy against disease, but rather antibody counts were observed in a small number of vaccinated subjects for only one month.^{18,21,22}

ASSUMPTION: There are no known effective treatment or prevention options for COVID-19 except vaccines.

FACT 16: Treatments for COVID-19 have improved significantly since the pandemic began in early 2020, resulting in improved survival rates in hospitalized cases.^{23,24} Indeed, for people not living in a nursing home, the overall survival rate of COVID-19 is 99.8% in the U.S., and 99.999% for children specifically.^{25,26}

FACT 17: Hundreds of studies have observed the effectiveness of various treatments, the most studied being ivermectin, vitamin D, hydroxychloroquine (HCQ), and monoclonal antibodies.²⁷⁻³⁰ These treatments may also be beneficial for prophylaxis (i.e., pre-exposure or post-exposure prevention of symptomatic COVID-19 infections).³¹⁻³⁵



Treatments for COVID-19 have improved significantly since the pandemic began in early 2020, resulting in improved survival rates in hospitalized cases.



For people not living in a nursing home, the overall survival rate of COVID-19 is 99.8%, and 99.999% for children specifically.

ASSUMPTION: People who were previously infected with SARS-CoV-2 need to get vaccinated because natural immunity is insufficient.

FACT 18: There is evidence that previous SARS-CoV-2 infection is more effective at preventing SARS-CoV-2 infection than COVID-19 vaccines. The Johnson & Johnson COVID-19 vaccine clinical trial included over 2,000 subjects who had contracted SARS-CoV-2 before the study. The trial, which tested unvaccinated and vaccinated people uniformly, recorded the incidence of COVID-19 in that unvaccinated group at least 28 days after the vaccination of the other subjects in the study. The COVID-19 incidence of the unvaccinated group with prior SARS-CoV-2 infection was 0.1% (2/2,021), whereas the COVID-19 incidence of vaccinated subjects was 0.59% (113/19,306). These data suggest that there are 6 times more cases of COVID-19 in vaccinated subjects than in unvaccinated subjects previously infected with SARS-CoV-2.³⁶

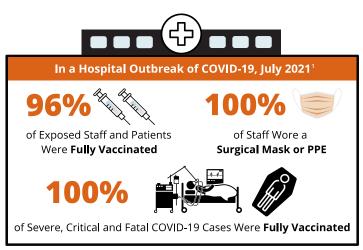
FACT 19: Data from the Johnson & Johnson clinical trial also indicate that an unvaccinated person previously infected with SARS-CoV-2 has a 99.9% chance of being protected from a repeat infection. Of note, as of July 1, 2021, there have been 177.4 million SARS-CoV-2 infections in the U.S., which is 53.8% of the U.S. population.^{26,36}



The Johnson & Johnson vaccine clinical trial found there are 6 times more cases of COVID-19 in vaccinated subjects than in unvaccinated subjects previously infected with SARS-CoV-2.

ASSUMPTION: Vaccine mandates have been proven to create a safer environment.

FACT 20: Infection and transmission of SARS-CoV-2 occur at high rates in fully vaccinated populations, and a significant proportion of severe, critical and fatal COVID-19 cases occur in fully vaccinated individuals. CDC data show mass vaccination with the COVID-19 vaccine has had no measurable impact on COVID-19 mortality in the U.S. In addition, short-term clinical trial data indicate that 1 in 6 to 1 in 9 people 12–55 years of age who receive mRNA COVID-19 vaccines suffer severe (grade 3) systemic reactions, and long-term safety studies have not been conducted.^{13,37} Thus, the scientific data demonstrate that vaccine mandates have not been proven to create a safer environment.



REFERENCES

- 1. Shitrit P, Zuckerman NS, Mor O, Gottesman BS, Chowers M. Nosocomial outbreak caused by the SARS-CoV-2 Delta variant in a highly vaccinated population, Israel, July 2021. Euro Surveill. 2021 Sep;26(39). https://pubmed.ncbi.nlm.nih.gov/34596015/.
- Brown CM, Vostok J, Johnson H, Burns M, Gharpure R, Sami S, Sabo RT, Hall N, Foreman A, Schubert PL, Gallagher GR, Fink T, Madoff LC, Gabriel SB, MacInnis B, Park DJ, Siddle KJ, Harik V, Arvidson D, Brock-Fisher T, Dunn M, Kearns A, Laney AS. Outbreak of SARS-CoV-2 infections, including COVID-19 vaccine breakthrough infections, associated with large public gatherings—Barnstable County, Massachusetts, July 2021. MMWR Morb Mortal Wkly Rep. 2021 Aug 6;70(31):1059-62. https:// www.cdc.gov/mmwr/volumes/70/wr/mm7031e2.htm?s_cid=mm7031e2_w.
- 3. Subramanian SV, Kumar A. Increases in COVID-19 are unrelated to levels of vaccination across 68 countries and 2947 counties in the United States. Eur J Epidemiol. 2021 Sep 30:1-4. https://pubmed.ncbi.nlm.nih.gov/34591202/.
- 4. U.S. Food and Drug Administration, Vaccines and Related Biological Products Advisory Committee. FDA briefing document: Moderna COVID-19 vaccine. Vaccines and Related Biological Products Advisory Committee Meeting: December 17, 2020. https://www.fda.gov/media/144434/download.
- 5. U.S. Food and Drug Administration, Vaccines and Related Biological Products Advisory Committee. FDA briefing document: Janssen Ad26.COV2.S vaccine for the prevention of COVID-19. Vaccines and Related Biological Products Advisory Committee Meeting: February 26, 2021. Table 22: vaccine efficacy of first occurrence of moderate to severe/critical and severe/critical COVID-19 including non-centrally confirmed cases with onset at least 14 or at least 28 days after vaccination, by country of participation, per-protocol set, study 3001; 37. https://www.fda.gov/media/146217/download.
- 6. U.S. Food and Drug Administration, Vaccines and Related Biological Products Advisory Committee. FDA briefing document: Pfizer-BioNTech COVID-19 vaccine. Vaccines and Related Biological Products Advisory Committee Meeting: December 10, 2020. https://www.fda.gov/media/144245/download.
- 7. Centers for Disease Control and Prevention. Washington, D.C.: U.S. Department of Health and Human Services. COVID data tracker: trends in number of COVID-19 cases and deaths in the US reported to CDC, by state/territory; [cited 2022 Feb 1]. https://covid.cdc.gov/covid-data-tracker/#trends_totaldeaths.
- U.S. Food and Drug Administration, Center for Biologics Evaluation and Research (CBER) Office of Vaccines Research and Review (OVRR). Washington, D.C.: U.S. Department of Health and Human Services. Emergency use authorization (EUA) amendment for an unapproved product: review memorandum; 2021 Apr 9: 23, 39. https://www.fda.gov/media/148542/ download.
- 9. U.S. Food and Drug Administration, Vaccines and Related Biological Products Advisory Committee. FDA briefing document: EUA amendment request for Pfizer-BioNTech COVID-19 vaccine for use in children 5 through 11 years of age. Vaccines and Related Biological Products Advisory Committee Meeting: October 26, 2021. https://www.fda.gov/media/153447/download.
- Wallace M. Grading of recommendations, assessment, development, and evaluation (GRADE): Pfizer-BioNTech COVID-19 Vaccine. COVID-19 Vaccines Work Group of the Advisory Committee on Immunization Practices (ACIP). Centers for Disease Control and Prevention. 2021 May 12: 24, 25. https://www.cdc.gov/vaccines/acip/meetings/downloads/slides-2021-05-12/03-COVID-Wallace-508.pdf.
- Centers for Disease Control and Prevention. Washington, D.C.: U.S. Department of Health and Human Services. Grading of recommendations, assessment, development, and evaluation (GRADE): Pfizer-BioNTech COVID-19 vaccine for persons aged 12-15 years; [cited 2021 May 14]. https://www.cdc.gov/vaccines/acip/recs/grade/covid-19-pfizer-biontech-vaccine-12-15years.html#table03d.
- 12. Pfizer. New York (NY): Pfizer Inc. Fact sheet for healthcare providers administering vaccine (vaccination providers); revised 2022 Jan 3. Table 11: vaccine efficacy first COVID-19 occurrence from 7 days after dose 2: without evidence of infection and with or without evidence of infection prior to 7 days after dose 2 blinded placebo-controlled follow-up period, adolescents 12 through 15 years of age evaluable efficacy (7 days) population; 48. https://www.fda.gov/media/153713/download.
- 13. Physicians for Informed Consent. Pfizer COVID-19 Vaccine: Short-Term Efficacy & Safety Data. Dec 2021. https://www.physiciansforinformedconsent.org/COVID-19-vaccines.
- 14. Pfizer. New York (NY): Pfizer Inc. Fact sheet for healthcare providers administering vaccine (vaccination providers); revised 2022 Jan 3: 48. https://www.fda.gov/media/153713/download.
- 15. Centers for Disease Control and Prevention. Washington, D.C.: U.S. Department of Health and Human Services. Weekly updates by select demographic and geographic characteristics: provisional death counts for coronavirus disease (COVID-19); [cited 2021 Nov 3]. https://www.cdc.gov/nchs/nvss/vsrr/covid_weekly/index.htm#AgeAndSex.
- U.S. Food and Drug Administration, Vaccines and Related Biological Products Advisory Committee. FDA briefing document: Janssen Ad26.COV2.S vaccine for the prevention of COVID-19. Vaccines and Related Biological Products Advisory Committee Meeting: February 26, 2021. https://www.fda.gov/media/146217/download.
- 17. Pfizer. New York (NY): Pfizer Inc. Comirnaty (COVID-19 vaccine, mRNA) suspension for injection, for intramuscular use; revised 2021 Dec. https://www.fda.gov/media/151707/download.
- U.S. Food and Drug Administration, Vaccines and Related Biological Products Advisory Committee. FDA briefing document: Application for licensure of a booster dose for Comirnaty (COVID-19 Vaccine, mRNA). Vaccines and Related Biological Products Advisory Committee Meeting: September 17, 2021. https://www.fda.gov/media/152176/download.

- 19. Chua GT, Kwan MYW, Chui CSL, Smith RD, Cheung EC, Tian T, Leung MTY, Tsao SSL, Kan E, Ng WKC, Man Chan VC, Tai SM, Yu TC, Lee KP, Wong JSC, Lin YK, Shek CC, Leung ASY, Chow CK, Li KW, Ma J, Fung WY, Lee D, Ng MY, Wong WHS, Tsang HW, Kwok J, Leung D, Chung KL, Chow CB, Chan GCF, Leung WH, To KKW, Yuen KY, Lau YL, Wong ICK, Ip P. Epidemiology of acute myocarditis/pericarditis in Hong Kong adolescents following Comirnaty vaccination. Clin Infect Dis. 2021 Nov 28:ciab989. https://pubmed.ncbi.nlm.nih.gov/34849657.
- Thomas SJ, Moreira ED Jr, Kitchin N, Absalon J, Gurtman A, Lockhart S, Perez JL, Pérez Marc G, Polack FP, Zerbini C, Bailey R, Swanson KA, Xu X, Roychoudhury S, Koury K, Bouguermouh S, Kalina WV, Cooper D, Frenck RW Jr, Hammitt LL, Türeci Ö, Nell H, Schaefer A, Ünal S, Yang Q, Liberator P, Tresnan DB, Mather S, Dormitzer PR, Şahin U, Gruber WC, Jansen KU; C4591001 Clinical Trial Group. Safety and efficacy of the BNT162b2 mRNA covid-19 vaccine through 6 months. N Engl J Med. 2021 Nov 4;385(19):1761-73. https://pubmed.ncbi.nlm.nih.gov/34525277.
- 21. U.S. Food and Drug Administration, Vaccines and Related Biological Products Advisory Committee. FDA briefing document: EUA amendment request for a booster dose for the Janssen COVID-19 vaccine. Vaccines and Related Biological Products Advisory Committee Meeting: October 15, 2021. 21, 39. https://www.fda.gov/media/153037/download.
- 22. U.S. Food and Drug Administration, Vaccines and Related Biological Products Advisory Committee. FDA briefing document: EUA amendment request for a booster dose for the Moderna COVID-19 vaccine. Vaccines and Related Biological Products Advisory Committee Meeting: October 14, 2021. https://www.fda.gov/media/152991/download.
- Horwitz LI, Jones SA, Cerfolio RJ, Francois F, Greco J, Rudy B, Petrilli CM. Trends in COVID-19 risk-adjusted mortality rates. J Hosp Med. 2021 Feb;16(2):90-2. https://www.journalofhospitalmedicine.com/jhospmed/article/230561/hospital-medicine/ trends-covid-19-risk-adjusted-mortality-rates.
- 24. Dennis JM, McGovern AP, Vollmer SJ, Mateen BA. Improving survival of critical care patients with coronavirus disease 2019 in England: a national cohort study, March to June 2020. Crit Care Med. 2021 Feb 1;49(2):209-14. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7803441/.
- 25. Ioannidis, JPA. Reconciling estimates of global spread and infection fatality rates of COVID- 19: an overview of systematic evaluations. Eur J Clin Invest. 2021;51:e13554. https://onlinelibrary.wiley.com/doi/epdf/10.1111/eci.13554.
- 26. Physicians for Informed Consent. COVID-19 Disease Information Statement (DIS). Aug 2021. https:// physiciansforinformedconsent.org/covid-19/.
- 27. C19early.com. COVID-19 early treatment: real-time analysis of 1,298 studies; [cited 2022 Jan 11]. https://c19early.com/.
- 28. Regeneron. Tarrytown, (NY): Regeneron Pharmaceuticals, Inc. Fact sheet for health care providers: emergency use authorization (EUA) of REGEN-COV (casirivimab and imdevimab); revised 2021 Dec. https://www.regeneron.com/downloads/ treatment-covid19-eua-fact-sheet-for-hcp.pdf.
- 29. Lilly. Indianapolis (IN): Eli Lilly and Company. Neutralizing antibodies for COVID-19; [cited 2022 Feb 9]. https://www.lilly.com/ news/media/media-kits/bamlanivimab-covid19.
- GSK. London (UK): GlaxoSmithKline plc. GSK and Vir Biotechnology announce United States government agreement to purchase additional supply of sotrovimab, authorised for the early treatment of COVID-19; 2022 Jan 11 [cited 2022 Feb 9]. https://www.gsk.com/en-gb/media/press-releases/gsk-and-vir-biotechnology-announce-united-states-governmentagreement-to-purchase-additional-supply-of-sotrovimab.
- 31. C19early.com. COVID-19 studies: ivermectin; [cited 2022 Feb 12]. https://c19ivermectin.com.
- 32. Bryant A, Lawrie TA, Dowswell T, Fordham EJ, Mitchell S, Hill SR, Tham TC. Ivermectin for prevention and treatment of COVID-19 infection: a systematic review, meta-analysis, and trial sequential analysis to inform clinical guidelines. Am J Ther. 2021 Jun 21;28(4):e434-60. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8248252/.
- 33. C19early.com. COVID-19 studies: vitamin D; [cited 2022 Feb 12]. https://c19vitamind.com.
- 34. Ilie PC, Stefanescu S, Smith L. The role of vitamin D in the prevention of coronavirus disease 2019 infection and mortality. Aging Clin Exp Res. 2020 Jul;32(7):1195-8. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7202265/.
- 35. C19early.com. HCQ for COVID-19: real-time meta analysis of 303 studies; [cited 2022 Jan 10]. https://hcqmeta.com.
- 36. U.S. Food and Drug Administration, Vaccines and Related Biological Products Advisory Committee. FDA briefing document: Janssen Ad26.COV2.S vaccine for the prevention of COVID-19. Vaccines and Related Biological Products Advisory Committee Meeting: February 26, 2021. Table 14: vaccine efficacy of first occurrence of moderate to severe/critical COVID-19, including non-centrally confirmed cases, with onset at least 14 or at least 28 days after vaccination, by baseline SARS-CoV-2 status, per protocol set; 30. https://www.fda.gov/media/146217/download.
- 37. El Sahly HM, Baden LR, Essink B, Doblecki-Lewis S, Martin JM, Anderson EJ, Campbell TB, Clark J, Jackson LA, Fichtenbaum CJ, Zervos M, Rankin B, Eder F, Feldman G, Kennelly C, Han-Conrad L, Levin M, Neuzil KM, Corey L, Gilbert P, Janes H, Follmann D, Marovich M, Polakowski L, Mascola JR, Ledgerwood JE, Graham BS, August A, Clouting H, Deng W, Han S, Leav B, Manzo D, Pajon R, Schödel F, Tomassini JE, Zhou H, Miller J; COVE Study Group. Efficacy of the mRNA-1273 SARS-CoV-2 vaccine at completion of blinded phase. N Engl J Med. 2021 Nov 4;385(19):1774-85. Suppl appendix; 36-7. https://www.nejm.org/doi/suppl/10.1056/NEJMoa2113017/suppl_file/nejmoa2113017_appendix.pdf.

These statements are intended for informational purposes only and should not be construed as personal medical advice.