From: Sent: To:	b6 5/16/2021 1:27:50 AM Nath, Avindra (NIH/NINDS) [E] [/o=ExchangeLabs/ou=Exchange Adr (FYDIBOHF23SPDLT)/cn=Recipients/cn=b81ca051950b4d458d7403						
CC:	Safavi, Farinaz (NIH/NINDS) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=94807ce146e045d4b61655da26a0c246 b6						
Subject:	Re: Covid-19 Vaccine Reaction	Jaz6a0cz46 D6					
Thank you Best rega b6	u, Dr. Nath, for your quick and kind response.	It meant a great	deal.				
	Virus-free. www.avg.com						
On Tue, Ma	ay 11, 2021 at 7:34 PM Nath, Avindra (NIH/NINDS) [E]	b6	wrote:				
Dear	b6						
	ly sorry to hear of your illness. I have copied Dr. Safavi who patients with vaccine related complications. She will see if		_				
With best v	wishes.						
Avi							
Avindra N	ath MD						
Chief, Sect	tion of Infections of the Nervous System						
Clinical Di	rector,						
National In	nstitute of Neurological Disorders and Stroke						
National In	nstitutes of Health, Bethesda, MD						
b6	(Office)						
b	6						

From: b6 Deter Tuesday, May 11, 2021 at 7:14 PM
Date: Tuesday, May 11, 2021 at 7:14 PM To: Nath, Avindra (NIH/NINDS) [E] b6
Subject: Covid-19 Vaccine Reaction
Hello Dr. Nath,
I was given your information by a few in the NIH study group. I understand you are involved in overseeing current studies on patients experiencing adverse, Covid long haul-like reactions to the vaccines. Allow me to preface the rest with gratitude, thank you. I'm sure you receive several of these emails on the regular at this point, and each represents more questions than answers. Lives that have been disrupted along a spectrum of variability. I'm a
Are there any treatment suggestions for immunomodulation and inflammation control until we figure the root of this out?
Is the study currently accepting new participants?
I look forward to hearing back from you. And want to thank you again, for hearing us. We're kind of floating around hoping the next specialist we see will even believe and take us seriously. Most of us understand the answers are limited.
Kind Regards,
b6

From: Sent: To: Subject:	Safavi, Farinaz (NIH/NINDS) [E] [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=94807CE146E045D4B61655DA26A0C246 b6 b6 5/18/2021 8:39:54 PM				
I am sorry for	I am sorry for your illness. We can schedule a televisit and discuss how we can proceed. I will send you a different email with my availabilities. Best				
Farinaz Safav Division of Ne NINDS, NIH, E	euroimmunology and Neurovirology				
Sent: Tuesdar To: Nath, Avi	6				
Dear Dr. Nat	h,				
l appreciate	your response very much and look forward to speaking with Dr. Safavi.				
Thank you a	gain, and best wishes,				
	36				
	Avindra (NIH/NINDS) [E] b6 /, May 18, 2021 11:00 AM				
То:	b6 Safavi, Farinaz (NIH/NINDS) [E] b6				
Subject: Ke: r	neurological complications of Pfizer vaccine				
	CAUTION: External Sender				
	of your illness. I have copied Dr. Safavi, who is a neurologist working with me. She has kindly agreed to symptoms with you and see what we can do to help. hes.				

Chief, Section of Infections of the Nervous System
Clinical Director,
National Institute of Neurological Disorders and Stroke
National Institutes of Health, Bethesda, MD

(Office)
(cell)

66

From:	b6	
Date: Monday, May 17,	2021 at 8:09 AM	,
То:	b6	Nath, Avindra (NIH/NINDS) [E]
b6		
Subject: neurological co	omplications of Pfizer vaccine	
Dear Drs. Das and Nath	,	
I hope this finds you we	II.	
Investigates: Neurologic places where I have see	cal Complications of COVID-19 van a clear statement* that some	vals of Neurology podcast of March 12, 2021 ("ANA vaccines"). The podcast write-up was one of the few of the symptoms I've been experiencing have been mind my sharing my experience.
the arch of my foot. Fai began to experience vib did not immediately corexperienced them. This and vibrations continue also vibrating for about outstretched, I have not the eye, and sometimes mild pins and needles see	rly quickly the muscle twitches, bration sensations (especially in nect these strange new occurr meant that I ended up getting to this day, b6 later. Of 30 minutes. Since the conditions to slept in a bed for several days they are not. Occasionally, I wensations (though with the height	spasms spread over the whole of my body, and I also my feet but also in a few other places). Unfortunately, ences with the vaccine because no one else I knew had dose 2 of Pfizer on b6 The muscle twitches/spasms and dose 2 of Pfizer on b6 The muscle twitched while is worse when I lie down or when my legs are Sometimes the twitches and sensations are visible to ill also have shooting burning sensations and perhaps the tell whether
the latter are psychosoi	natic or real). My GPthe only	doctor I have seenalso diagnosed b6
b6 Otherwis	se, he said he thinks I am merel	y anxious. I <i>am</i> right
now, but the idea that t	hese symptoms are primarily re	poted in anxiety is rubbish. (Incidentally, I have reported
my symptoms to VAERS	, and I do not pretend that the	are the worst neurological symptoms.)

Besides a general concern about a push to vaccinate young children for what is by no means a "childhood illness" like polio or the measles, I am of course concerned about whether the vaccine has done some sort of

epidemiological study shows that the neurological effects allegedly associated with these vaccines cannot be definitively linked to them because the incidence was no greater than what one would expect to see in the

I understand that correlation is not causation, and in five years, I expect to read that a large-scale

general population, or something to that effect. Again, I do think this is rubbish in some cases.

lasting damage to my body or prompted some horrific autoimmune disease. Unlike some vaccine neurology patients, I do not seem to be in the midst of an emergency, and I have been unable to get an in-network neurology appointment prior to September. I do know that my physical state could change for better or worse quite quickly.

I know that you are both incredibly busy men, so thank you for reading this long note. Any advice or suggestions you have would be most appreciated.

Best, **b6**

*"The most common neurological symptoms included dizziness, headache, pain, muscle spasms, myalgia, and paresthesias, which are expected to occur as acute, transient effects of the vaccination. Rare cases of tremor, diplopia, tinnitus, dysphonia, seizures, and reactivation of herpes zoster have been reported."

b6

	LO.
	[b6
	5/22/2021 2:09:37 AM Noble Aviante (ANN CVI) [5] [7] Such as solve for Such as so Administrative Course
	Nath, Avindra (NIH/NINDS) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group
	(FYDIBOHF23SPDLT)/cn=Recipients/cn=b81ca051950b4d458d74037a6a86ead6; b6
	Safavi, Farinaz (NIH/NINDS) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=94807ce146e045d4b61655da26a0c246 b6
ct:	Re: I am a patient with an adverse neurological reaction to the Pfizer Covid vaccine b6 Hoping for sor
λ.	help
	пер
vou s د	so much for your response. I will definitely share your contact information when I am able to see a
	. I want to get well again as soon as possible.
you a	
rom n	ny iPhone
On	May 21, 2021, at 7:38 PM, Nath, Avindra (NIH/NINDS) [E] b6 wrote:
Dea	ar b6
lan	n terribly sorry to hear of your illness. Your symptoms seem very complex. Certainly neuropathy has
	en seen with the vaccines, but would be hard to diagnose or treat via email/internet. Good that you
	e an appointment with a neurologist who would be the best person to determine the underlying
	se. We would be glad to talk to your doctors if it would help. OK to share my information with them.
	will be glad to share our experience with them.
	h best wishes.
Avi	
	ndra Nath MD
	ef, Section of Infections of the Nervous System
	ical Director,
	ional Institute of Neurological Disorders and Stroke
	ional Institutes of Health, Bethesda, MD
Ivat	b6 (Office)
ــــــــــــــــــــــــــــــــــــــ	
L	<u> </u>
Fro	m: b6
- 10 I	· · · · · · · · · · · · · · · · · · ·
	te: Friday, May 21, 2021 at 7:12 PM
	Nath, Avindra (NIH/NINDS) [E] b6
Suk	pject: I am a patient with an adverse neurological reaction to the Pfizer Covid vaccine b6
<u></u>	b6 Hoping for some help
Dea	ar Dr. Nath,
l se	nt the below email to Dr. Safavi earlier this week. I am physically devastated since I received the first
	er Covid vaccine. I am feeling even worse since I sent her the email. I'm having even more difficulty
	h severe neuropathy, muscle cramps, muscle twitching and pain throughout my body, and walking is
	oming increasingly difficult (poor balance, extreme stiffness, unable to stay on my feet for very
	g.) I was hoping that I might start to improve as now it has been b6 since receiving the vaccine.
163115	en invantigation e algerialisticatori la propriate da nove il 1185 DECIP. DD. SHILE LECEIVIDE LUE VACCIDE.

Today, I was unable to perform my job as	5	b6	Everything
hurts and I have extreme fatigue. I am ha	aving more brain	fog episodes. My loca	al physicians do not
know how to help me. I've seen my prima	ary care doctor, r	medical oncologist, and	d rheumatologist all
since receiving the vaccine.			
I was prescribed b6	for b6	and I am almost to t	he end of this
treatment. Prior to the vaccine, I had	b6	for b6	and I have been stable
for that timeframe and did not medicate			b6 my b6 at
			pelow in the email to Dr.
S. and can send complete labs on reques		;	b6 and
there was b6	y y	<u>,</u>	
C:			
In 2020, I was treated for		b6	I did very
well with the treatment. Pre-vaccine, I w	as fully recovered	d. daily exercising (eith	
miles; indoor cycling for an hour, or 3 mil			b6
	b6		I was enjoying
life and recently	b6	tern tern tern tern tern tern tern tern	which would
require travel, thus based on my doctors		ins and encouragemen	
vaccine.	recommendatio	ins and encodingemen	to do so, i received the
vaccine.			
The rheumatologist prescribed	b6	in assumption tha	at this is b6
b6 prior to	b6		e, those labs are b6
b6			ange in b6 or
b6	!	There is no ch	ange m _i bo joi
L			
Currently, I have no diagnosis. Other than	n that I have an a	dverse reaction to the	vaccine Lam having
extreme difficulties in getting a diagnosis continue to b6			e of treatment or if I'm
supposed to be waiting this out somehow			
is very frightening.	v. ruon tevenu	nuerstand what is hap	pennig in my body and it
is very mignitening.			
Lama waiting to bear book on a neurolog	v referrel and I'm	haning you as Dr Caf	avi cauld consult so that
I am waiting to hear back on a neurolog	y referral and i ii	noping you of Dr. Sai	avi could consult so that
I could receive the proper treatment.			
NA-1:6- baselines to an all and a second sec	:61	91 to a Lla rate a referen	
My life has been turned upside down. I a			
will end up in the ER. This morning I wok			
to explain that) and feeling like I had rub	ber legs but was s	still able to stand and v	walk so I decided to stay
home.			
I have no idea what is happening to me			
nothing of these types of reactions and n	ny rheumatologis	it has said I am in unch	artered waters.
Is there some direction you can offer?			
		hill. I don't want to lo	se my b6 job due
to my current inability to function and ev	entually travel.		
I have multiple questions listed below for	r Dr. Safavi and I I	hope that you might a	lso be able to provide
some answers to my questions.			
I am happy to discuss with you or Dr. Safe			
for answers and a treatment plan to help	me recover so l	can return to how my	life was pre-vaccine.

Thank you for your time and consideration.
Sincerely, b6
Sent from Mail for Windows 10
From: b6 Sent: Thursday, May 20, 2021 12:09 AM
Sent: Thursday, May 20, 2021 12:09 AM To b6
Subject: I am a patient with an adverse neurological reaction to the Pfizer Covid vaccine b6 Hoping for some help
Dear Dr. Safavi,
I recently received information that you have been helpful to other patients suffering from adverse nervous system reactions to the COVID vaccine and I'm hoping you could help steer me in the right direction as I am also in that circumstance.
I received the first Pfizer vaccine on b6 Four hours after the shot, I started to experience side effects consisting of fever, brain fog, muscle aches and pains, difficulty walking, diarrhea, and abdominal pain. The flu-like symptoms lasted 4 days; however, the muscle aches and join pains continued and worsened in my legs, arms, hands and feet. Since receiving the shot, I have suffered for b6 weeks with stiffness, aching, muscle cramping and twitching throughout my body. I have extreme neuropathy in both my hands and feet (burning, stabbing, pins and needles, numbness, and itching). I can't even sleep with a blanket on my hands and feet due to the nerve pain. have difficulty walking due to pain and stiffness in my legs and I have poor balance. I have light sensitivity. I also suffer from fatigue and nausea - sometimes the brain fog returns. If I push myself to do my regular level of daily activities, housework, computer work, etc. the fatigue increases. I have pain, numbness, and tingling in my fingers which makes my job very challenging and exhausting to perform as I spend a significant amount of my day on the computer.
I am definitely not the same person post COVID vaccine. I did not have any of these issues prior to the vaccine. I was a highly functioning person, b6 that incorporated daily exercise into my routine (outdoor cycling 10 to 15 miles each weekend, indoor cycling 10 to 15 miles each weeke
an hour every other day, and 3 mile daily walks).
 Hoping these are pluses: All of my vitals are normal, blood pressure, oxygen rate, and pulse. I still can stand on one leg if necessary but it takes effort and concentration. I can balance on a bike but do no feel well enough to ride it. I tried riding it last week even though I am in pain, but it just exacerbated things and made me feel a lot worse. Bloodwork has b6
• b6
 I wasn't exposed to and I've never had COVID so the severe reaction to vaccine #1 was not due to a prior COVID 19 infection.
I've consulted with my primary care doctor, medical oncologist (I survived b6
b6 hard to swallow that I am b6 but got my butt kicked by the COVID
vaccine), and with a rheumatologist.

The rheumatologist put me on	b6	for	b6
b6 I also take Tylenol to help		_i	e pain.
I have now been referred to a useen. I've also been told that if items due to muscle weakness doctors do not know how to he adverse nervous system reactions.	I experience muscle weak I need to go to the hospital Ip as there is no information	ness where my legs g I. This is a terrifying v	give out or I can't pick up way to live and the local
I am hoping that you could prov no answers.	vide me with some thought	ts to my questions wl	here so far I have received
 Am I in some sort of im see the local neurologis muscle weakness or oth anything else I need to What types of tests shown is b6 Should I be on some oth Can I develop CDIP? Or Do I have some sort of progressive? Is my condition permander is it safe for me to trave my company and I'm neurous system. At this losing my job. I am Is there any protocol I see the see the local management of the see the local management of the see the local management of the local management	mediate danger? Can I safet in a month or two from refer issues like swallowing of watch out for that means I build the neurologist run base helpful or should I stop take her type of medication that would this have already heneuropathy? Did the vaccionent or will this somehow refer I need to travel by car the ervous to be too far from a spoint, I don't even feel we be do some type of exercise of do some type of exercise of the same in	lifficulties and respiral should go to the ER? sed on my symptoms ing it? t can help me? appened? ne cause permanent esolve on its own? to rural communities hospital that could hell enough to travel becover?	self in the meantime for atory distress? Is there? s? nerve damage? Is it in the month of July for handle issues of the ut don't want to risk
	will be exercising in pain, l		
I would appreciate any help that from others like myself that are community to figure out why the helped by our local doctors.	having these reactions. W	Ve are in need of help	o from the medical
I have been advised by my doo me that I am living in this condi			
I also reported my reaction in the anyone on my reports of the ad	(5)	ie Vsafe check ins, I h	naven't heard back from
Thank you for your time.			

Sincerely, **b6**

From:	b6
Sent: To:	5/22/2021 9:37:35 PM Nath, Avindra (NIH/NINDS) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group
10.	(EVDIROHE23SPDLT)/cn=Recipients/cn=h81ca051950b/dd58d74037a6a86ead6
Subject:	Re: URGENT- Vaccine neuro reaction- Referral note needed by the 24th please.
me to a reg don't belie "normal" o I'm gonna appointme I'm with my pl	so much Dr. Nath, the problem is that my PCP from the County Hospital doesn't even want to refer gular cardiologist or neurologist, let along b6 Covid Long Haulers Clinic. The problem is that they we us. They don't want to acknowledge this is a vaccine reaction and the fact that our tests are loesn't help. tell them to reach out to your office if they need more information and see if that helps. My nt is this coming Tuesday finally. 1 hope to get better soon and continue lans. I also had to stop working, which means less money for medical attention too. u so much for taking the time to reply to me even during your weekend! That speaks
volumes a	about the quality of a person.
Best rega	rds,
ţ	06
On Fri, Ma	ay 21, 2021, 8:58 PM Nath, Avindra (NIH/NINDS) [E] b6 wrote:
If they ne	ed a doctor's referral they mean from your PCP.
Will be g	lad to share our experience with your doctors if it will help.
Avi	
To: Nath,	b6 day, May 21, 2021 at 3:14 PM , Avindra (NIH/NINDS) [E] b6 Re: URGENT- Vaccine neuro reaction- Referral note needed by the 24th please. b6
Thank yo	u so much for your reply. I appreciate your time.
They wan	email reply be sufficient for them to accept me in the program at the Covid Long haulers clinic? at a Doctor referral because they only see patients that are or were positive with Covid-19, not people eaction to the vaccine but my doctors don't believe me, they said they haven't seen those reactions vaccine.
Maybe th	ey can call you if they have any questions?

also told me that you were helping people like me by talking to their neurologists. Would you please be so kind to help me if I needed?
Thank you so much, May God bless you for helping us.
b6
On Thu, May 20, 2021, 10:20 PM Nath, Avindra (NIH/NINDS) [E] b6 wrote:
My suggestion would be to see b6 at b6 who is a neurologist and superb neuromuscular specialist. He would be the best person for such symptoms.
Avi
Avindra Nath MD
Chief, Section of Infections of the Nervous System
Clinical Director,
National Institute of Neurological Disorders and Stroke
National Institutes of Health, Bethesda, MD
b6 (Office)
b6
From: b6
Date: Thursday, May 20, 2021 at 11:07 PM To: Nath, Avindra (NIH/NINDS) [E] b6
Subject: RE: URGENT- Vaccine neuro reaction- Referral note needed by the 24th please. b6
Dear Dr. Nath,

situation. These have been the darkest months of my short life.				
b6 gave me your contact information to please ask you as a big favor to help me with a referral note to be accepted at a Covid Long Haulers Clinic (that is our best bet right now?) I urgently need this reference by the 24th please if possible, they called me today with a cancellation. I lied to them telling them I have tested positive just to get in :(b6 Covid Long Haulers Clinic and Covid Long Haulers.				
l'm a b6 Onset of symptoms following Pfizer Covid vaccination. Symptoms manifested within 24 hours. b6 I received both Pfizer vaccines on b6 My first symptom was a movement on my hands similar to trigger finger - tendon inflammation. Has remained chronic to date and it's severe at night.				
A couple of days after my second dose I started feeling numbness and tingling on my hands (especially on the pinky and ring finger) and left foot, weakness in my extremities. Onset of nausea during this time period, continuing to date.				
MRI of brain and cervical b6				
b6				
An orthopedist told me my numbness and tingling could be ulnar nerve neuritis or cervical neuropathy as a vaccine secondary effect, and prescribed b6 b6				
neuropathy as a vaccine secondary effect, and prescribed b6				

against the seat or pillow.

I was taking	b6	from	b6	to	b6	
I'm currently taking	b6					
Medical records are timeline and before	available for interventions listed the vaccine.	above. Seve	eral lal	bs were	e taken d	uring this
	ciate your time to read my email, ır help. May God bless you!	l can only in	nagine	how b	ousy you	are. Thank
Kind regards,						
h6						

From: b6
Sent: 11/13/2021 1:56:57 PM
To: Nath, Avindra (NIH/NINDS) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=b81ca051950b4d458d74037a6a86ead6| b6

Subject: Neurological symptoms

Dear Dr. Nath:

I would appreciate if you could tell me if NIH, CDC or FDA are seeing any neurological safety signals associated with the vaccines. Looking through VAERS, these reactions are increasing in numbers.

Thank you in advance.

Peace and blessings, **b6**

From:	b6			
Sent: To:	10/30/2021 10:06:59 PM Nath, Avindra (NIH/NINDS) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group			
10.	(FYDIBOHF23SPDLT)/cn=Recipients/cn=b81ca051950b4d458d74037a6a86ead6 b6			
Subject:	RE: Acute and chronic neurological disorders in COVID-19: potential mechanisms of disease [data to support your paper]			
Thank you for	confirming that. Did I misread this:			
Sent: Tuesday	vindra (NIH/NINDS) [E] b6 v, October 26, 2021 11:03 AM b6			
L	cute and chronic neurological disorders in COVID-19: potential mechanisms of disease [data to support			
Typically the r ones to conta Avi	manufacturers of a product are held responsible for any adverse events. Maybe they would be the best ct.			
Who have you alerted about the concern as you're receiving a growing number of reports and we now know the discrepancy and the imperative impact it is having for doctors not believing it exists if the NIH has not updated the information, despite manufacturers confirming reports of neurological adverse events in at higher rates than normal post vaccination? You are higher that me – because your email signature and address says NIH/NINDS, so it does appear you are affiliated.				
	ppy to follow up with whoever you alerted within NIH now that you know what is occurring. Maybe it takes outside the organization plus someone inside who has heard the increasing reports.			
157	vindra (NIH/NINDS) [E] b6 October 29, 2021 6:48:58 PM			
To:	b6 Scute and chronic neurological disorders in COVID-19: potential mechanisms of disease [data to support			
This is not correct! I am not NIH, I just work at NIH. I do not have any authority over NIH websites. Hope this clarifies the situation, Avi				
From:	b6			
Date: Friday,	, October 29, 2021 at 9:19 PM indra (NIH/NINDS) [E] b6			
To: Nath, Av Subject: RE: support your	Acute and chronic neurological disorders in COVID-19: potential mechanisms of disease [data to			
-	information in case anyone else asks after me. e manufacture at 4:30pm PST (Janssen Info line provided on EUA). They confirmed the following:			

REL0000229126

- Yes, they have enough reports of neurological conditions post injection to have updated their EUA Fact Sheet –
 this means they have received reports of neurological events following vaccination at higher rates than normal
 in the population
- I let them know that NIH said NIH has no power over what is on the website, and that I needed to contact the manufacturer because NIH cannot update the content but rather the manufacturer has that power
- They confirmed (by contacting a supervisor) that they do not offer the updated adverse report information voluntarily, but rather it is NIH, CDC, and FDA responsibility to contact the manufacturer to get the updated information for each website that is public facing.
- They state that the content on NIH website is the responsibility of NIH
- As the only info line provided to contact the manufacture (all bring back to this line), they said they could not provide any information, contact, or department to contact to identify the gap in information.

So, my next line is to contact FDA to let them know that this major and serious gap in information is existing and I have had people identify the gap as the failure of NIH, FDA, and CDC to request the information from Janssen, because Janssen will not voluntarily offer this information to update.

But it does seem it is not the manufacturer who has control over NIH content as you thought might be the case. At least we have that cleared up.

The danger of lack of accurate and updated information is the impact it is having on clinician/specialists decision on how they pursue a set of symptoms. With the absence of an update, clinicians and specialists are trusting NIH, CDC, and FDA to present them the most accurate and up to date known information. If it is not there, they believe the post stating none have been reported. If none have been reported, they don't believe diagnoses related to vaccination is possible.

This is a massive gap.

I will let you know what I find, especially now that I know you have been getting an increasing number of reports. It must feel horrible not to know what to say to people who are suffering and hurting and feel like your hands are tied if you have not been given information either, know that reports of sever life-altering events are occurring but feel you are powerless to help get this accurate information out to help others.

But, now that quite a few people are alerted to the gap, I have followed directions from people to go directly to the sources, there will be no reason why the information will not be quickly updated to correct the error.

Sincerely,					
b6					
From: Nath, Avindra (N	IIH/NINDS) [E]				
Sent: Thursday, Octob	er 28, 2021 7:52 AM				
To: b6					
Subject: Re: Acute and	chronic neurological diso	rders in COVID-1	L9: potential mechan	isms of disease [data to support	Ī.
your paper]					
I have not idea who at Avi	NIH handles these issues.	I am just low on	the totem pole.		
From:	b6				
Date: Thursday, Octo	ber 28, 2021 at 2:14 AN	/ I			
To: Nath, Avindra (N	H/NINDS) [E]	b6]		
Subject: Re: Acute ar	nd chronic neurological	disorders in CO		nechanisms of disease [data t	ίO
support your paper]					

that I go back to OCOD to ask for assistance in finding the barriers prohibiting NIH from providing correct information on their own website? Janssen manufacturers are responsible for not providing updated information to NIH and NIH does not report their own knowledge of adverse reactions to vaccinations, but can update adverse reactions to COVID-19 section? From: Nath, Avindra (NIH/NINDS) [E] b₆ Sent: Tuesday, October 26, 2021 11:03 AM Subject: Re: Acute and chronic neurological disorders in COVID-19: potential mechanisms of disease [data to support your paper] Typically the manufacturers of a product are held responsible for any adverse events. Maybe they would be the best Avi Date: Tuesday, October 26, 2021 at 1:05 PM To: Nath, Avindra (NIH/NINDS) [E] b6 NINDSPostCovid19 < nindspostcovid19@ninds.nih.gov> Subject: Re: Acute and chronic neurological disorders in COVID-19: potential mechanisms of disease [data to support your paper Who can I contact? From: Nath, Avindra (NIH/NINDS) [E] Sent: Tuesday, October 26, 2021 5:58:42 AM To: NINDSPostCovid19 < nindspostcovid19@ninds.nih.gov> Subject: Re: Acute and chronic neurological disorders in COVID-19: potential mechanisms of disease [data to support your paper] Thanks for following up. I have no authority over websites or decisions on how research is funded or directed. All the same many researchers have pointed out to me that rare adverse events may be more accurate, if one considers that 100's of millions of people have received the vaccines. Avi From: Date: Tuesday, October 26, 2021 at 12:58 AM To: Nath, Avindra (NIH/NINDS) [E] NINDSPostCovid19 < nindspostcovid19@ninds.nih.gov> Subject: RE: Acute and chronic neurological disorders in COVID-19: potential mechanisms of disease [data to support your paper]

Are you saying NIH has no power or authority over correcting the website representing NIH despite being aware of reports? Considering Janssen lost three of my adverse reaction reports, and I went to OCOD, is your recommendation

1. So far, there doesn't seem to be a research study in place, or a way to participate yet? Is this correct?

Hello Dr. Nath,

I wanted to check in again for two reasons:

2. Coronavirus and the Nervous System National Institute of Neurological Disorders and Stroke (nih.gov) appear to not have been updated for COVID-19 vaccines still, although the other parts of the page have been updated to reflect reported neurological conditions as a result of COVID-19. However, the section on vaccines still says "none have appeared as of yet." And, there is only one mention of "someone" indicating only one case. This is in direct conflict with the Janssen COVID-19 Vaccine - EUA Fact Sheet for Healthcare Providers Administering Vaccine (janssenlabels.com) that provides a range of neurological conditions that have been reported, as well as a growing collection of research literature, in addition to those of use who have alerted you personally. I am aware of b6 case, along with the now thousands of us experience moderate to severe neurological and ditions page 100 to page 100 t
conditions, as well as people from Italy who have 100+ people all with neurological conditions post injection, and another group from Germany.
I am aware that in a message to b6 family that it is not for lack of reporting adverse neurological conditions:
On May 25, 2021, at 10:27 PM, Nath, Avindra (NIH/NINDS) [E] vivote:
Dear b6 Sorry to hear of your daughter's illness. Sounds like she has been through a lot and been investigated extensively. It is hard to make a diagnosis over emails, but if it would help we would be glad to talk to her physicians or the neurologist who took care of her. We have certainly heard of a lot of cases of neurological complications form the vaccine and will be glad to share our experience with them. You are welcome to share my contact information. Best wishes.
My question then, is why does the website still say: "none have appeared as of yet" when a lot of cases of neurological complications have been known and reported?
In addition, I have found for myself that the CICP program is not functional. September 1, 2021, they posted that they have not compensated one claim because no one has been able to meet standard of proof. I asked for the guide, test, of standards used to compare claims with standard of proof in order to deny claims, as burden of proof is on the injured, with no support from experienced legal experts. The vaccines are not included on the Table of Injuries. They could not provide me with any guidelines for standard of proof that they used. So, I established a stronger framework that exceeded what they said would be necessary for standard of proof (quantitative data/biomarker, and peer-reviewed scientific published research). If the program was functional, and the only reason the claims were denied was because the claimants failed to meet standard of proof, the thorough documentation I provided would have provided evidence, am providing a link to OneDrive here so you now have been notified and have access to my medical records as well: https://ldrv.ms/
CDC has access to the document I submitted to CICP on October 1, 2021, so do my clinicians and b6 b6 At this point, it is unreasonable to believe that no reports have appeared as of yet, especially since I have sent a report to OCOD when Janssen lost my adverse report data 3 times. That means FDA and OCOD are also aware of my reports. I have reached out to you myself on more than one occasion, as did b6 on my behalf.
I also reported concerns on "Was this page helpful?" (as included in the screen shot) that the information was out of date, and even included links to published research identifying neurological conditions post injection. That removes the argument that patient reported cannot be trusted and only research supported reports could be acknowledged. I am beginning to become concerned that with the sheer amount of notifications and reports of neurological conditions post

REL0000229126

vaccination, the update of other parts of the website, this was not just a matter of accidental oversight. It is beginning to appear that there is a concerted effort to not acknowledge reports.
My greatest concern here is the now mandated EUA vaccinations for children. I am a b6 I am still b6 The severity and absence of acknowledgement of my case, parents hearing there are no reports of adverse reactions, and pages like this that still say "none have appeared as of yet" are sending conflicting messages to intelligent people who truly are seeking accurate, scientific information. They are coming to me and asking if I think information is being hidden intentionally. I am asking you now to provide me with something logical to explain back. Without me being able to provide a logical explanation, the choice to continue to fail to acknowledge neurological injury is actually fueling conspiracy theory that more is known and it is intentionally being withheld from the public. It is decreasing confidence and trust in the population that is hesitant and on the fence, looking for assurance of authentic, transparent, and accurate reporting.
I have held off for b6 months of checking with every possible avenue to find logical explanations. It is getting harder and harder for me to defend, to make excused for, to say "they probably didn't know until me."
I am asking you once again to help me disconfirm the swirling misinformation and give me solid evidence I can bring back to people to show NIH is taking action, is acknowledging, and is providing accurate, updated information to the general public once they are alerted to what is occurring.
I have also communicated with Xavier Becerra HHS Office of the Secretary, Health & Human Services, Dr. Rochelle P. Walensky Director, Centers for Disease Control and Prevention, Dr. Janet Woodcock Interim Commissioner, Food & Drug Administration, Dr. Peter Marks Director, Center for Biologics Evaluation and Research, Dr. Tom Shimabukuro CDC, COVID-19 Vaccine Task Force. I know I am not the only one who has brought the concerning information to their attention. I am doing my very best to keep combatting misinformation, and keep pointing to the emerging data in peer-reviewed published data. When there is disconnect between sources, it loses unity of messaging, and it opens the door for many people to try to fill the gaps. I am not doing that. I am going to the sources and asking each person I contact to provide accurate information for me to bring back. I have not been given the same respect in return as I have given. This is not a freedom of choice concern for me. I got the vaccine. This is a ethics and data concern for me. This is a concern about clinicians not getting access the most updated information, a way to identify and diagnose MIS post vaccination (even though EUA requires reporting, without guidance for clinicians – or even a formal acknowledgement – how are they able to follow EUA and meet mandatory reporting)?
Thank you, b6

Does the COVID-19 vaccine cause neurological problems?

Almost everyone should get the COVID-19 vaccination, it will help protect you from getting COVID-19. The vaccines are safe and effective and cannot give you the disease. Most side effects of the vaccine may feel like flu and are temporary and go away within a day or two. In early vaccine development, there were extremely rare reports of unexplained neurological illness following COVID-19 vaccination, but regulators found no evidence the vaccines caused the illness. The U.S. Food and Drug Administration (FDA) continues to investigate any report of adverse consequences of the vaccine and none have appeared as of yet. Consult your primary care doctor or specialist if you have concerns regarding any pre-existing known allergic or other severe reactions and vaccine safety. Scientists are studying the risk to benefit ratio of the vaccine in someone who previously developed Guillain Barré syndrome after a vaccination. The general sense is the COVID-19 vaccine is safe in individuals whose Guillain-Barré syndrome was not associated with a previous vaccination.

The U.S. Centers for Disease Control and Prevention (CDC) site offers information on vaccine resources. The National Institutes of Health (NIH) has information on vaccines for the coronavirus.

Was this page helpfu	l? ○ Yes	○ No	Next
Form Approved OMB# 9925-9648 E	xg, Date 96/2024	l	***************************************

b6

Date: Monday, August 30, 2021 at 8:19 PM

To: Nath, Avindra (NIH/NINDS) [E]

Sent from Mail for Windows

From:

From: b₆ Sent: Tuesday, August 31, 2021 1:00 PM To: Nath, Avindra (NIH/NINDS) [E] NINDSPostCovid19 **b6** Subject: RE: Acute and chronic neurological disorders in COVID-19: potential mechanisms of disease [data to support your paper] Thank you. I appreciate it. Het them know that I'm in contact with a group with over 2000 people post vaccine and another with over 900 people post vaccine. I can help get the word out for the survey when it is ready. b₆ From: Nath, Avindra (NIH/NINDS) [E] Sent: Monday, August 30, 2021 7:12 PM NINDSPostCovid19 Subject: Re: Acute and chronic neurological disorders in COVID-19: potential mechanisms of disease [data to support your paper] Thanks for your interest in participating in our research study. I have copied our research team who can guide you on how to participate in our online research study. We are gathering information at the moment. Best wishes. Avi

Date last modified: Thu, 2021-09-02 16:19

b6
Subject: RE: Acute and chronic neurological disorders in COVID-19: potential mechanisms of disease [data to
support your paper]
Thank you for the reply. I saw your quote in this article that you didn't have access to data to study: <u>Federal vaccine</u>
court hasn't helped those whose lives were altered by COVID-19 shots (yahoo.com)
My offer still holds. I have all the data, and I have the links now between the vaccine and my injuries. Now that I know
ou are interested in studying that but just missing the data, I am offering again.
was also wondering why the NIH website still says there were not other reports of neurological symptoms after
vaccination, since there are now.
Thanks for the work you are doing to advance science knowledge!
b6
From: Nath, Avindra (NIH/NINDS) [E]
Sent: Friday, August 27, 2021 8:21 PM
Го: b6
Subject: Re: Acute and chronic neurological disorders in COVID-19: potential mechanisms of disease [data to support
our paper]
Dear b6
Sorry to hear of your illness. Thanks for your interest in our review paper and for sharing your ideas and insight with us.
Nith best wishes.
Avi
Avi
Avi From: b6
From: b6 Date: Thursday, August 26, 2021 at 3:40 PM
Avi From: b6
From: b6 Date: Thursday, August 26, 2021 at 3:40 PM To: b6
From: b6 Date: Thursday, August 26, 2021 at 3:40 PM To: b6 Cc: Nath, Avindra (NIH/NINDS) [E] b6
From: b6 Date: Thursday, August 26, 2021 at 3:40 PM To: b6 Cc: Nath, Avindra (NIH/NINDS) [E] b6 Subject: Acute and chronic neurological disorders in COVID-19: potential mechanisms of disease [data to
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From: b6 Date: Thursday, August 26, 2021 at 3:40 PM Fo: b6 Cc: Nath, Avindra (NIH/NINDS) [E] b6 Subject: Acute and chronic neurological disorders in COVID-19: potential mechanisms of disease [data to support your paper]
From: b6 Date: Thursday, August 26, 2021 at 3:40 PM To: b6 Cc: Nath, Avindra (NIH/NINDS) [E] b6 Subject: Acute and chronic neurological disorders in COVID-19: potential mechanisms of disease [data to
From: b6 Date: Thursday, August 26, 2021 at 3:40 PM Fo: b6 Cc: Nath, Avindra (NIH/NINDS) [E] b6 Subject: Acute and chronic neurological disorders in COVID-19: potential mechanisms of disease [data to support your paper] Hello Dr. Power and Dr. Nath,
From: b6 Date: Thursday, August 26, 2021 at 3:40 PM Fo: b6 Cc: Nath, Avindra (NIH/NINDS) [E] b6 Subject: Acute and chronic neurological disorders in COVID-19: potential mechanisms of disease [data to support your paper]
From: b6 Date: Thursday, August 26, 2021 at 3:40 PM To: b6 Cc: Nath, Avindra (NIH/NINDS) [E] b6 Subject: Acute and chronic neurological disorders in COVID-19: potential mechanisms of disease [data to support your paper] Hello Dr. Power and Dr. Nath, A colleague just forwarded me a link to your paper — titled in the subject.
From: b6 Date: Thursday, August 26, 2021 at 3:40 PM Fo: b6 Cc: Nath, Avindra (NIH/NINDS) [E] b6 Subject: Acute and chronic neurological disorders in COVID-19: potential mechanisms of disease [data to support your paper] Hello Dr. Power and Dr. Nath,
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From:
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From: b6 Date: Thursday, August 26, 2021 at 3:40 PM Fo: b6 Cc: Nath, Avindra (NIH/NINDS) [E] b6 Subject: Acute and chronic neurological disorders in COVID-19: potential mechanisms of disease [data to support your paper] Hello Dr. Power and Dr. Nath, A colleague just forwarded me a link to your paper – titled in the subject. want to thank you for doing this work. have data that may help support your work further. I want to help in any way I can. While I am not a medical doctor, b6 That work gave me the foundation to keep searching for answers. I was specifically focused on how to study phenomena that did not have standards or precedent in existence to base my work
From:
From:
From:
From:

identified in clinical trials, seeking more information.				
I have been keeping substantial documentation since my Johnson and Johnson COVID-19 Vaccination on b6				
last week, I gathered a collection of research between screen shots of my medical labs, clinician notes, and links to research papers surrounding the latest on SARS-CoV-2, mechanisms and other supporting literature to provide a bigger picture of parallels in COVID-19 as a vascular disease and the parallel symptoms I experienced following injection in the absence of viral load.				
The hope is, much like neurological research looking at lesion studies to understand, comparing parallel injury post vaccination (in the absence of viral load) and injury in the presence of viral load (natural SARS-CoV-2) there might be a chance to narrow down more efficiently the mechanisms as part of viral impact vs impact of spike protein, localized inflammation and epithelial cells that go beyond the brain.				
I have been in contact with Dr. Cynthia Magro (<u>COVID-19 Research Pathology & Laboratory Medicine (cornell.edu)</u>) and Dr. Bruce Patterson (<u>https://covidlonghaulers.com/</u>).				
While I was b6 and I have what amounts to baselines of blood work that show b6 and my antibody test b6 and b6 and b6 have been ruled out across b6 extensive testing, Dr. Patterson's blood work labs resulted in showing b6				
b6				
I also believe I have been able to narrow down mechanisms of injury based on what is already know (ranging from injectable adjuvants, to the ingredient in Janssen's adjuvant hydroxypropyl-β-cyclodextrin, to what is known about adenovirus vaccines pre COVID-19, and soluble spike protein, and autopsy studies finding spike in absence of viral load). I have found research on known vaccine-induced encephalomyelitis with parallel symptoms to what is proposed as a methyl-group assault during SARS-CoV-2 (and I suspect there is similar mechanism), where I believe it is possible to explain a constellation of symptoms that may seem unrelated on the surface once the mechanism is narrowed down. While it appears a tangled mess on the surface and incredibly difficulty to separate out mediating variables, I am an				
atypical case that may be able to help do just that – with baseline data				
b6 that may be able to provide clues or puzzle pieces.				
There has been consideration surrounding PEG and Polysorbate 80 as mechanisms of injury in COVID-19 vaccines (both by Dr. Patterson and Dr. Magro), but I have labs that show b6 This is relevant because b6 I have parallel neurological symptoms (as well as other symptoms outside of neurological parallel to acute SARS-				
CoV-2). We have been able to rule out actual virus from SARS-CoV-2 and PEG/Polysorbate 80 from the vaccines. I have, however, not yet been able to rule out spike protein as a mechanism. In fact, I am seeing hints of that support spike as possibly the primary mechanism of neurological in the absence of the other potential mechanisms. My quantitative spike protein antibodies Description				
know now elevated sCD40L has implications for blood-brain barrier. Autopsy studies have found little to no viral load and spike protein in the brain.				
My neurological symptoms have presented as parallel to those with acute SARS-CoV-2 b6 and continually testing b6 but there seems to be corroborating evidence that may help narrow down the mechanisms of injury as I have far fewer mediating variables than many clinical subjects and with more prior data than most even in clinical trials. I even have MRI b6 pre and post. Complete bloodwork pre and post. Endocrine pre and post.				

I also wrote NIH/NINDS twice asking if there was information as a web page noted rare neurological events were

No underlying health conditions				
No prescriptions/medications/drugs (before or during)				
Never taken/used any form of birth control (removes the question of increased risk of stroke from birth control)				
Never smoked				
No alcohol, coffee, caffeinated drinks				
Mediterranean diet (vegetarian)				
I was a dancer/dance instructor (runner/weights) as a baseline for physical and vestibular ability				
Published author and public speaker (videos/records) as a baseline for cognitive (my CV is here)				
Background in				
Background in b6 helped in my data collection even while I was the most sick (sometimes that was all I could do in a day, but I made sure to document symptoms)				
If I am going to have to experience the severity of this suffering, I am not willing to let it go to waste. I want to help solve at least some of the complexities of the neurological aspects in this war against COVID that are the enigma machine of SARS-CoV-2 as mutations continue like the unbreakable code that took Allen Turing to create a machine.				
Dr. Patterson has made major strides in using Machine Learning. Dr. Magro is investigating skin for nuances machine learning can't identify in a way a trained researcher can. I believe there is strong corroborating data across their work, and I am physically a puzzle piece that can help rule out and narrow down mechanisms to then help define questions and narrow down a focus sooner.				
Why?				
Because this is absolutely crucial and urgent:				
Established diagnostic tools are limited by a lack of clearly defined COVID-19 specific neurological syndromes. Future interventions will require delineation of specific neurological syndromes, diagnostic algorithm development, and uncovering the underlying disease mechanisms that will guide effective therapies.				
It is impacting insurance company denials of health coverage and disability. It is impacting clinicians who don't know what to do. It is impacting the social and emotional well being of people who are becoming suicidal because they are not being believed, have lost their jobs to debilitating impact, and it is taking people like me out of the front lines of where I am needed during COVID-19.				
Sincerely,				
b6				
From: b6 Sent: Wednesday, July 14, 2021 7:53 AM To: b6 Subject: FW: long-term neurologic sequellae from vaccine				

FYI...

Sounds like asking our Congressional reps to apportion funding to NINDS to study COVID might be a good idea
b6
From: Nath, Avindra (NIH/NINDS) [E] b6
Sent: Tuesday, July 13, 2021 10:01 PM
To: b6 Patterson, Amy (NIH/NHLBI) [E] b6 Wright, Clinton
(NIH/NINDS) [E] b6
Subject: Re: long-term neurologic sequellae from vaccine
Dear b6 I am terribly sorry to her of these illnesses. Unfortunately, the intramural program at NINDS has not received any funding for COVID research. I have copied Drs. Patterson and Wright who are managing the portfolio and would be in a better position to respond to your concerns. With best wishes. Avi Avindra Nath MD Chief, Section of Infections of the Nervous System Clinical Director, National Institute of Neurological Disorders and Stroke National Institutes of Health, Bethesda, MD
From: b6 Date: Tuesday, July 13, 2021 at 2:56 PM To: Nath, Avindra (NIH/NINDS) [E] b6 Subject: long-term neurologic sequellae from vaccine
Dear Dr. Nath –
Hello! I'm a b6 and have two acquaintances who have had persistent and
debilitating neurologic symptoms that seem to be in response to the COVID-19 vaccine. Apparently there are many
others out there with similar symptoms and folks have started forming groups, such as
https://www.vaxlonghaulers.com/. The symptoms seem to be similar to those of Long COVID, with the exception of
respiratory symptoms. As a b6 I am well aware that many of these symptoms can be due to depression,
anxiety, and a whole host of other causes, both organic and non, but I am struck by the case of a colleague, a bright and
highly successful b6 who has been completely debilitated since her vaccination with exhaustion,
weakness, vestibular dysfunction, trouble with word-finding, problem-solving, and memory. She was a true champion
for science and mitigation measures at her school this past year and happily received her vaccine. Unfortunately, not
only has she been debilitated since then, but multiple attempts to seek answers or assistance from V-SAFE, VAERS, FDA,
Janssen, and CDC have been unsuccessful. In fact, it's been a comedy (more of a tragedy) of errors, with lost case
Janssen, and CDC have been unsuccessful. In fact, it's been a comedy (more of a tragedy) of errors, with lost case numbers, disconnected phone calls, CISA consults that were cancelled without her knowledge, and more dead ends and

I'm writing to you today to ask that NIH begin to seriously study these potential neurologic adverse reactions to vaccine. I know you have a lot on your plate, with acute and long-COVID and their neurologic manifestations being very

important, and the meeting the next two days. But these folks are also suffering, and we owe it to them to first recognize and acknowledge what is happening, and then try to figure out why it's occurring and what therapeutics may be useful. We also owe it to medical professionals and citizens to gather good data to help us understand this phenomenon and then communicate about it, so that these poor folks will no longer be dismissed out of hand and told that they're imagining it all.

I would also appreciate any efforts you could make to send the message that the V-SAFE system and other safety measures we've put in place do not seem to be working as intended or as promised to the public.

Thank you so much for all of your excellent work. Good luck with the meeting this week. I'll hope to see some investigation into potential long-term neurologic sequellae of COVID-19 vaccines in the very near future.

Sincerely,

b6

b6

From:	b6
Sent:	10/24/2021 3:13:17 AM
To:	Nath, Avindra (NIH/NINDS) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group
~ 1.* .	(FYDIBOHF23SPDLT)/cn=Recipients/cn=b81ca051950b4d458d74037a6a86ead6 b6
Subject:	Re: Covid vaccine neurological issues
	I'm willing to travel anywhere in the world for someone to help me. I have had a terrible last year and this has te my spirit having all these problems with this vaccine. I can't find anyone in b6 that has any idea how to
Sent from	my iPhone
	o Oct 23, 2021, at 8:48 PM, Nath, Avindra (NIH/NINDS) [E] b6 wrote:
W	here do you live
Fr	om: b6
Da	ate: Saturday, October 23, 2021 at 9:25 PM
To	: Nath, Avindra (NIH/NINDS) [E] b6
Su	bject: Re: Covid vaccine neurological issues
W the	ank you so much for this information. I don't live in New York but will travel anywhere to feel better. ill I be able to get around New York if I haven't been fully vaccinated? I have been advised to not get e second shot. My doctor would give me an exception letter too. Thank you so much for replying! You e a blessing. Have a great weekend!
Re	gards, b6
Se	nt from my iPhone
	On Oct 23, 2021, at 8:12 PM, Nath, Avindra (NIH/NINDS) [E] b6
	wrote:
	Dear b6 Sorry to hear of your illness. If you live in the NY area, I would suggest seeing any of the following:
	b6
	They are all well versed in these complications and will investigate and treat you.
	Avi
	Avindra Nath MD
	Chief, Section of Infections of the Nervous System

Clinical Director,
National Institute of Neurological Disorders and Stroke
National Institutes of Health, Bethesda, MD **b6**

From:	b6		
Date: Friday, Octo	ober 22, 2021 at 11:36	AM	
To: Nath, Avindra	(NIH/NINDS) [E]	b6	
Subject: Covid va	ccine neurological issue	es	

Good morning,

I'm writing to you today out of desperation. I'm looking for anyone who can help me recover after my first Pfizer vaccine. Almost immediately after receiving it I had lightening bolt of pain on the left side of my brain and after that I have had a multitude of symptoms. I felt electrical sensations all over my body with a revved up feeling internally. I had very deep sleep but also was not my normal sleep. I was having lucid nightmares. At one point I almost felt like I was losing my mind when I would go to sleep. That has gotten better but I am still having vivid dreams. I developed diarrhea, tinnitus, sensitivity to sound/light/touch, paresthesias in all limbs and numbness in limbs, headaches unlike any I have ever felt before, brain fog or difficulty concentrating, skin feeling sensitive and burnt but I haven't been in the sun, random areas of intermittent pain on my skin as well. I saw Dr. Thakur as an author of a review in a neurology journal and he mentioned talking with you. I got your email off of the internet. I have reached out to many others as well as Mayo Clinic and come up short. Please help me or point me in a direction of someone that can. I have 3 kids to care for that are b6 Thanks so much.

	L	
Regard	s,	
	b6	

Sent from my iPhone

Γ	h6	ì	
From: Sent:	b6 9/28/2021 1:19:57 PM	j.	
To:	* *	[/o=ExchangeLabs/ou=Exchange Adr	ministrative Group
		ients/cn=b81ca051950b4d458d7403	
cc.		b6	
CC: Subject:	PE: Nourological complication	s from COVID-19 Moderna vaccine	
Subject:	RE. Neurological complications	s from COVID-19 Woderna vaccine	
family that the The family is b6 I wanted and are a greated believe that again for you again for you again for you best regards, b6 From: Nath, Again Sent: Tuesda To: Cc: Subject: Re: I Dear b6 Thanks for the the investigated b6 She is rewished with the step with the investigated by the section of the control of the	much for all your time and enere is b6 for very grateful for the care from to express their appreciation at encouragement. b6 will feel better and bear time and consultation. Avindra (NIH/NINDS) [E] y, September 28, 2021 8:48 A b6 Neurological complications from the detailed information. tions and the plan for care. The eceiving the best care possibles shes. MD n of Infections of the Nervous	b6 Dr. Nath's for your kindness, sincere caring, tetter, as she is working with the beautier, as she is working with the beautier. b6 MM om COVID-19 Moderna vaccine b6 Pand I have communicated the investigations have been very the and am sure she will continue to system System rs and Stroke	consultation. On behalf of
From:	b6		
i	ay, September 28, 2021 at	4:59 AM	
To:		th, Avindra (NIH/NINDS) [E]	b6
Cc:		b6	
i	Neurological complication	s from COVID-19 Moderna vac	cine
ngers 2			he
Thanks you fo	or this information. As we sta		b6
l	b	9	We will review this information with

Dr Nath, and anyone else that the family wants to involve. I am confident in her recovery. Avi, if you want to talk off-line, I am happy to do so.





b6

b6

b6

From: b6

Sent: Monday, September 27, 2021 10:22 PM

To: Cc: Nath, Avindra (NIH/NINDS) [E] b6

Cc: b6

Subject: FW: Neurological complications from COVID-19 Moderna vaccine

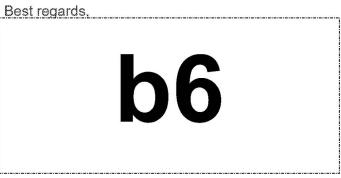
External Email - Use Caution

Dear Drs. and Nath,
I would like to express the gratitude on behalf of b6 family to both of you for providing guidance and
support for b6 treatment. We had a very productive conference call with b6 to discuss b6 diagnosis and treatment plan, involving b6 and friends at b6 The family felt very relieved and confident in b6 after talking to b6 today.
diagnosis and treatment plan, involving b6 and friends at b6 The family felt very
relieved and confident in b6 jafter talking to b6 jtoday .
I am writing to address one of the concerns that the family are still having. They would like to rule out
b6
First, please allow me to provide some background information about b6 health status, as some information may not be on file. I have copied b6 in this email so that she could correct me if any of the statement is not accurate. (1) Brief description of events before and after the Moderna vaccine shots
b6 has received a number of injections of vaccines or immunity enhancing agents listed as bellow:
a. SinoVac (Chinese COVID-19 vaccine, inactivated virus, received in China),
https://www.who.int/news-room/feature-stories/detail/the-sinovac-covid-19-vaccine-what-you-need-to-know
2 shots, on b6 respectively.
b. b6
c. Moderna COVID-19 vaccine, 1 st shot on b6 2 nd shot on b6
(2) Reactions to Moderna COVID vaccine After the 1 st shot, high fever for 2 days, hives on skin; After the 2 nd shot b6 b6
It would be extremely helpful if she could focus on treatment b6
b6

b6 I understand that there may have been some tests that have been done which may help to address these issues.

It is highly appreciated if you could review the information stated above, and advise if further immunological tests will help to address the concerns on potential immunological abnormality, which may worsen or retain the neurological complication.

Please let me know if you need more information. I appreciate your time and effort to address these issues that the family are worrying about.



From: Nath,	, Avindra	(NIH/NIND	S) [E]	b6				
Sent: Mond	ay, Septe	mber 27, 2	021 7:48 PM					
То:	b6							
Cc: Moir, Su	ısan (NIH/	NIAID) [E]	b6	Smith, B	ryan (NIH/NINDS) [E]		b6	
			lications from COV			L		
Dear b	6							
Glad to hear	r that.	b6	is the best of the l	best! You are lu	ucky to have him. We	know each	other wel	I. I am always
delighted to	talk to h	im						
Avi								

From:	b6	
Sent:	9/12/2021 8:50:17 PM	
То:	Nath, Avindra (NIH/NINDS) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=b81ca051950b4d458d74037a6a86ead6 b6	
Subject:	Re: Cardiologist from b6	
Thank you v	very much dr Nath.	
Have a great	t Sunday.	
Regards		
b6		
On Sat, Sep	11, 2021, 11:15 PM Nath, Avindra (NIH/NINDS) [E] b6 wrote:	
OK. I will	be glad to talk to him.	
Avi		
From:	rday, September 11, 2021 at 10:00 PM	
	Avindra (NIH/NINDS) [E] b6	
	ardiologist from b6	
0	ain a da atau Nath	
Good eve	ning doctor Nath,	
	<u></u>	
I hope you	u are doing well. I had to travel to b6 to look for treatment options and I met b6 He would like to	
possibly ta	b6 from the b6 He would like to alk to you about a treatment plan for me and he is also very interested in starting a	
	about people that develop dysautonomia post vaccination. He is b6	
	b6 and has written multiple research papers as well. He will publish my	
; (also gave me a letter that advises not to get a third vaccination or booster after developing	
b6	post vaccination.	
I have given him your contact information, as you suggested in one of your emails that you would		
gladly talk to our doctors to offer advice, which I really appreciate.		
Thank you	ı very much,	
•		
b6		
	i	

From:	b6
Sent:	8/19/2021 3:21:18 AM
То:	Nath, Avindra (NIH/NINDS) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=b81ca051950b4d458d74037a6a86ead6 b6
Subject:	Re: Please Help-Covid Vaccine Reaction
Thank you	, Dr. Nath.
Thank you	,
b6	
Sent from	my iPhone
Or	n Aug 18, 2021, at 11:02 PM, Nath, Avindra (NIH/NINDS) [E] b6 wrote:
De	ear b6
So	erry to hear of your illness. We did see a few patients, but have not been able to add much to what the
	cal neurologists can do. My suggestion would be to continue to work with them. This is all very new to
	of us, so really none of us can claim to be experts.
	est wishes.
Av	
Av	rindra Nath MD
	nief, Section of Infections of the Nervous System
	inical Director,
Na	ational Institute of Neurological Disorders and Stroke
Na 	ational Institutes of Health, Bethesda, MD
	b6
İ	
Fr	om: b6
	ate: Wednesday, August 18, 2021 at 12:48 AM
	: Nath, Avindra (NIH/NINDS) [E] b6
	ibject: Please Help-Covid Vaccine Reaction
Hi	Dr. Nath,
l h	ope you are having a great day so far! I read the LA Times article about how you are studying people
	no've had rare reactions to the Covid-19 shot. My experience was similar to b6 after I got
	e Pfizer shot b6 I'm currently b6 because I broke out in hives, been having
	ımbness and tingling, and have an accelerated heart rate. My lymph count b6
<u>[</u>	b6 My doctors cannot figure out what's causing my reaction and I believe it could
be	mast cell activation syndrome. I'm currently located in b6 but I would love to speak with you bout it and hopefully get answers. I'm b6 and was b6 so this experience
ha	s been awful.
Th	ank vou.

Sent from my iPhone

200000000000000000000000000000000000000				
From:	b6			
Sent:	9/9/2021 2:58:25 PM			
To:	Nath, Avindra (NIH/NINDS) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group			
	(FYDIBOHF23SPDLT)/cn=Recipients/cn=b81ca051950b4d458d74037a6a86ead6 b6			
Subject:	COVID-19 vaccine reaction b6			
Attachments:	b6			
Hi,				
My name is	b6 I am a b6 in b6 I have been in touch with b6 about my			
confirmed ca	b6 I am a b6 in b6 I have been in touch with b6 about my se of b6 immediately post COVID-19 Moderna vaccine in b6 now with b6			
b6	I would really like to know in addition to the support of my neurologists if this is meaningful. I would			
	have some help with guidance. Maybe some other specialists that can help me with this specific b6			
•	re other cases like this?			
Are the	re other cases like this?			
į				
I am a	b6 and need help. I am b6			
b6 I am	on a dangerous path and was told you may be of some guidance.			
I have attache	ed my records.			
Kind regards,				
	106			
	b6			

























000000000000000000000000000000000000000	
From:	b6
Sent:	8/20/2021 12:03:50 AM
To:	Nath, Avindra (NIH/NINDS) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group
C. I. i	(FYDIBOHF23SPDLT)/cn=Recipients/cn=b81ca051950b4d458d74037a6a86ead6 b6
Subject:	Re: Covid vaccine and rare neurological response
Thank y	ou so much for responding.
We are	getting an MRI in early September but cannot get into a neurologist until November.
If NIH is	ever looking to study rare vaccine reaction, are offering experimental treatment or even have guidance on what
	th to take, I would love to submit b6 in hopes we can find someway to treat her symptoms. Her quality
	so low at this moment.
Thank y	ou so much for even taking the time for your kind reply.
Warmly !	<u>', </u>
	06
_	
<u> </u>	
	On Aug 19, 2021, at 2:33 PM, Nath, Avindra (NIH/NINDS) [E] b6 wrote:
	Dear b6
	Sorry to hear of b6 illness. Is it possible to have her seen by a neurologist who can do some
	investigations? They might be able to treat the tremors etc.
	Avi
	From: b6
	Date: Thursday, August 19, 2021 at 1:00 AM
	To: Nath, Avindra (NIH/NINDS) [E] b6
	Subject: Covid vaccine and rare neurological response
	Dear Dr. Natha,
	I found your contact information from tan LA Times article about rare Covid vaccine injury. b6
	has been experiencing ever-increasing neurological distress since receiving the
j	first dose of the Pfizer vaccine in b6
	<u>I a constantina de la constantina del constantina de la constantina del constantina de la constantina</u>
	It began with drastic fatigue, brain fog, inability to track print so she can no longer read, light sensitivity,
	decreased appetite and trouble focusing. Since then, the symptoms and deterioration has progressed
	into a 15lb weight loss - she's now only 100lbs - instability that has caused a fall, tremors in her hands,
Ĺ	massive anxiety and decreased cognitive function. Her blood pressure and resting HR have b6
Ĺ.	in only weeks since receiving the shot.

She has been in the ER six times in less than seven weeks, but with no rea	al "diagnosable p	roblem," she is
always sent home. I'm trying to get her into a neurologist - we are based	b6	but no one
can see her before November. I have her signed up for	b6	
b6 which took more than three months to get	an appointment	- but I'm near
always sent home. I'm trying to get her into a neurologist - we are based can see her before November. I have her signed up for which took more than three months to get certain they won't even consider her case as b6		
I am desperate to find help for her as she was a fully functioning woman her entire life wonderfully until getting vaccinated. She is now a shell of hour care and is hardly recognizable to her b6	who lived alone a	and managed
I suffer tremendous guilt as she was very reluctant to get the vaccine - I $\ensuremath{\text{p}}$	oushed it as I felt	it was very
important but she always felt her sensitive system would react negatively	y.	
I would never consider reaching out if I was getting anywhere with the maccess now. But I'm afraid b6 before we ever figure. I'm so hopeful you might be able to even point me in a helpful direction.	edical care I'm at ure out what's wi	ttempting to rong.
Thank you for all you do.		
Sincerely, b6		
b6		

From: Sent: To: Subject:	(FYDIBOHF23SPDLT)/cn=Rec	E] [/o=ExchangeLabs/ou=Exipients/cn=b81ca051950b4	change Administrative Group d458d74037a6a86ead6 b6 ers in COVID-19: potential mechanism	ns of disease [data to
My b6	has been extended		b6	
		b6		
		b6		I took the Johnson
and Johnson	vaccine on b6	and have been expe	riencing severe adverse reactio	ns since. Doctors
have ruled o	ut		b6	
b6				
I appreciate	your patience as recovery	y from vaccination is tal	king far longer than anticipated	l.
		b6		

From:	b6
Sent:	8/17/2021 6:08:59 PM
То:	Nath, Avindra (NIH/NINDS) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=b81ca051950b4d458d74037a6a86ead6 b6
Subject:	Re: Possible vaccine reaction
b6 to can let you kn Thank you for	the prompt response. I will continue to work with our local physicians. I am currently waiting to hear if b6 b6 will see her. I've also reached out to b6 see if they will see her. I am just waiting to see who will respond first. If it turns out to be vaccine related, I low. Just for your own curiosity I suppose. If you'd want to know. responding. It means so much to know you took time out of your schedule to respond. I know you can't diagnosis but it is helpful to know that it could be a possible vaccine reaction.
Sent from my	iPhone
Dear Terrib Thank althou email an acc alread Best v Avi Avin Chief Clini Bldg 10 Ce	b6 ly sorry to hear of b6 illness. I am sure this is hard on you and the rest of the family. It is for reaching out for advice. From what you describe, it could very well be vaccine related, ugh I do not know of others with similar symptoms. Hard for me to make clinical diagnosis over and internet. I would suggest that you continue to seek care form your local physicians, if needed ademic center might have more resources for investigations so might be worth considering if not dy. wishes. dra Nath MD Section of Infections of the Nervous System cal Director, NINDS, NIH 10; Rm 7C-103 enter Drive esda, MD 20892 b6
To: N	: b6 : Tuesday, August 17, 2021 at 11:47 AM ath, Avindra (NIH/NINDS) [E] b6 ect: Possible vaccine reaction
	this email finds you well. I will get right to the point. b6

from b6	that weekend. The	y pumped her full of fluids	and she still couldn't
urinate. Long story short, I have to now straight cath her twice a day. She is unable to feel the sensation			
to urinate nor does she have	the full sensation either. She	e cannot relax her sphinct	er to urinate and can
only eliminate her urine by e	either physically pushing on h	er bladder or by me cathi	ng her. Other
complaints she has since k	6 include kidney pain, hea	daches,fatigue, lightheade	ed, and dizziness. She
has had blood tests and and	MRI of her head and CT and	MRI of her abdomen.	b6
b6 The only thing that	b6		after her symptoms
began and b6 that	is being treated now. She has	s seen a urologist and a ne	eurologist. The
neurologist said b (and recommended	d she see a neuro-urologis	st. The urologist thinks
that maybe this happened b	ecause b6	But the pro	blem with that is 1.
	She had not been in school a		
April through May).			
Currently, I am trying to rule	out depression or psych con	ditions, any urological cor	nditions, any
neurological conditions, and	have even sought out a Chin	ese medicine doctor. I ha	d always wondered if
this could be a side effect fro	om the vaccine. What are you	ır thoughts and how do ا و	go about the process
to report it to the cdc if it is.	I just don't know what else t	o do. It has us all devastat	ed and exhausted.
Thank you,			
b6			

Sent from my iPhone

From:	b6
Sent:	7/23/2021 7:31:28 PM Nath, Avindra (NIH/NINDS) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group
То:	(FYDIBOHF23SPDLT)/cn=Recipients/cn=b81ca051950b4d458d74037a6a86ead6 b6
CC:	NINDSPostCovid19 [/o=ExchangeLabs/ou=Exchange Administrative Group
	(FYDIBOHF23SPDLT)/cn=Recipients/cn=7288bc48d86f4f5fb796620bda298e7f-nindspostco]
Subject:	Re: Somewhat unusual vaccine side effect
Hi Dr Nath	
	d to hear you are collecting this information. I know more than a dozen people who are experiencing
_	al side effects from the vaccines, particularly people with pre-existing ME/CFS. Should I have all of
them write	Angelique?
Do you hav	re a link to the protocol I can publicly share?
red 1	
Thanks,	
b6	
On Fri Jul	23, 2021, 1:40 AM Nath, Avindra (NIH/NINDS) [E] b6 wrote:
On I II, Jui	25, 2021, 1.40 Mil Main, Milata (Millim 195) [L]
Dear	h6
Dear	
Sorry to he	ear of your illness. At the moment we are collecting data of patients who are having neurological
	s from the vaccine. If you would like to help us with that, we would be most appreciative. I have
	ar team on this email and they can collect the information.
copica pot	it team on this eman and they can concer the information.
Wishing v	ou all the best.
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Avi	
From:	b6
L	ay, July 23, 2021 at 12:27 AM
	Avindra (NIH/NINDS) [E] b6 Somewhat unusual vaccine side effect
Subject: S	somewhat unusual vaccine side effect
Hi Dr Natl	
III DI INau	1-
I caw you	mentioned neurological side effects seen after Covid vaccines on a Body Politic webinar. I was
•	g if you knew any researchers looking into other types of side effects? I've had a low-grade fever
	2 many days) since I had the first Pfizer jab b6 ago. My body temperature had previously
run 10w (ty	pically under 97) for at least a decade.
I howan't h	ad a second shot as my doctors recommended I not get the second shot. I have mot several other
	ad a second shot as my doctors recommended I not get the second shot. I have met several other
people wn	o have had multi-month fevers after getting vaccinated, although that of course seems rare. I also

now have b6		but I am not
as sure it coincided with getting vaccinated as I didn't do a lea	an test right beforehand.	
Is there anyone at NIH that you think would be interested in the	his issue? I tried b6	
b6 but haven't tried the much longer course an immun		
but haven't tried the much longer course an immun	lologist I know suggested.	
Thanks,		
LO		
<u>b6</u>		

From: b6 Sent: 7/20/2021 3:54:07 AM Nath, Avindra (NIH/NINDS) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=b81ca051950b4d458d74037a6a86ead6 Brown, Warren (NIH/NINDS) [C] [/o=ExchangeLabs/ou=Exchange Administrative Group CC: (FYDIBOHF23SPDLT)/cn=Recipients/cn=bef0730648434bb69542199fca79f67e Subject: Re: Ongoing health issues post Pfizer Covid vaccine Hi Dr. Nath, Thank you so much for responding so quickly to my email, I am very grateful and am looking forward to chatting with you. Thank you again, b6 On Mon, Jul 19, 2021 at 9:49 PM Nath, Avindra (NIH/NINDS) [E] b₆ wrote: Dear b6 I am terribly sorry to hear of your illness. I will be glad to talk to you. I have copied Warren who maintains my calendar and can help set it up. Best wishes. Avi Avindra Nath MD Chief, Section of Infections of the Nervous System Clinical Director, National Institute of Neurological Disorders and Stroke National Institutes of Health, Bethesda, MD b6

From: b6
Date: Monday, July 19, 2021 at 4:51 PM
To: Nath, Avindra (NIH/NINDS) [E] b6 Subject: Ongoing health issues next Reference Covid yearing
Subject: Ongoing health issues post Pfizer Covid vaccine
Hi Dr.Nath,
I received your email from b6 of whom was helped immensely from her treatment at the NIH, as I have been having difficulty reaching out to Dr.Safavi and she thought you may be able to help me. Below is the email that I sent Dr.Safavi of which I have not received a response. Any advice or recommendations that you could provide me with would be greatly appreciated.
Thank you,
h6
b6
Forwarded message
From: b6
Date: Fri, Jul 9, 2021 at 1:05 AM Subject: Ongoing health issues post Pfizer Covid vaccine
To:
Cc: b6
Hi Dr.Safavi,
My name is b6 and I'm a b6
b6 I have been suffering from an ongoing Pfizer vaccine reaction since b6 I was
previously healthy and never missed time off work before the vaccine. I can't seem to recover from my vaccine
induced illness and I wanted to reach out to you to see if you could potentially help me. I received your
information from b6 of whom you have helped immensely, and I hope you don't mind me
reaching out.
Here is my story: I received the second dose of Pfizer on b6 13 hours after receiving the
vaccine, I started with flu like symptoms (HA, neck pain, body aches, fever, restless, nausea, vomiting). 36
hours post-vaccine, I had profound fatigue, still felt feverish, scattered hives, headache and neck pain, and had
intermittent dizziness. Day 3 and until this day I have had vertigo. That first week I had chest pain and dyspnea
that would come and go, lasting until 2-3 weeks (ish) post-vaccine before seemingly resolving (more on this
later). I was hospitalized b6, had extensive testing, and was diagnosed with b6 from
the vaccine. Headache and neck pain lasted through b6 The weekend of b6 I had
paresthesias of my hands, feet, L forearm and L cheek that seemingly resolved. The vertigo was the main
symptom (with the exception of hives that would occur nightly on my chest/back/neck for about 30 minutes
(ish) and would self resolve) from b6 The vertigo slowly improved over this time b6
(ish) and would self resolve) from b6 The vertigo slowly improved over this time b6 My husband and I would notice that I had issues with short term memory and
(ish) and would self resolve) from b6 The vertigo slowly improved over this time b6

b6 I don't know if this	is important o	r not, but I
b6 I don't know if this started having hair loss in b6 and my menstrual cycles were irregular for	b6	In
things unexpectedly progressed.		
Early b6 I started with tinnitus which is still present to this day. b6 I suparesthesias, this time ascending, starting from hands/feet that progressed up my entibilaterally. I also developed weakness in my legs and arms where it was difficult to g hair. I saw my pcp, had b6 neuro exam, and was referred to neurology. I also he this day which was largely ignored in my appt with my pcp and starting having issues fog. I saw neurology on b6 The weakness was coming and going, not frequently persisted. I had a b6 EMG on b6 and was diagnosed with further work up or medications recommended by my neurologist. Since b6 I' of muscle weakness where walking any significant distance/up steps is difficult as no day to 48 hours when it comes. The paresthesias have been persistent since b6 hands/feet, forearms, and mid shins. Intensity waxes and wanes, sometimes I can't sle burning sensation. Sometimes I have issues where my hands feel clumsy such as with procedures I perform at work.	re arms and less of upstairs and a return of swith intermity, but the part b6 ve had 4 discreted above, last lit's mainly bep due to the	egs I brush my I chest pain Ittent brain Testhesias I No Treet episodes Sting half a in my Intense
b6 I again had another progression of symptoms while at work. I had worsening first, followed by intense chest pain with intermittent dyspnea, and later in the afternoon having intermittent chest pain since b6 but this was worse than I had even was having intermittent palpitations/tachycardia. I blew off the issue until I went how 120s for an hour while at rest. The tachycardia at rest did normalize after that hour. We intermittent tachycardia with standing/short walking and persistent frequent episodic with exertion, long episodes (rare that I don't have pain), worse with exertion. Have be since this started. I woke up Sunday around 4am with intense chest pain and rapid HI lasted for a few minutes before I went back to sleep. Sunday daytime I had to stop in steps due to chest pain and dyspnea which is unusual for me. b6 I was essentialled due to feeling unwell/lightheaded/weak with any light activity (such as walking from kitchen). Today my symptoms were slightly better, I was able to go to work for 3 hou again worsening symptoms with activity. I did see my pcp today, have a b6 echocardiogram to be scheduled.	pon brain fog. wer had, and I he and found what I've had	I had been also noted I my HR 100-since then is that rest and lly fatigued on, I think it a flight of my couch om to the
I'm not sure if you have the availability to help me, if I'm too late in asking for help of potential treatments, or if I'm not sick enough to be considered. I've been praying t and working with my local physicians for months now and I'm still not doing well. M sort of smoldering demyelinating illness that would explain my ongoing and progress just a guess. I thank you for reading my email and for your time and consideration.	hat this would by fear is that	d all go away I have some
Sincerely,		
b6		
L.C		
b6		

b6

b6

From: Sent: To:	Google Calendar [calendar-notification@google.com] 7/30/2021 2:34:35 PM Nath, Avindra (NIH/NINDS) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=b81ca051950b4d458d74037a6a86ead6 b6	
Subject:	Accepted: Meeting b6 to discuss COVID Vaccine Allergic Rea @ Fri Jul 30, 2021 11am - 11:30am (EDT)	
Attachments: Location:	(Nath, Avindra (NIH/NINDS) [E]) invite.ics Zoom	
Start: End: Show Time As:	7/30/2021 3:00:00 PM 7/30/2021 3:30:00 PM Tentative	
Recurrence:	(none)	
Meeting	has accepted this invitation. b6 to discuss COVID Vaccine Allergic Reaction	000000000000000000000000000000000000000
When	Fri Jul 30, 2021 11am – 11:30am Eastern Time - New York	
Where Calendar	Zoom (<u>map</u>) Nath, Avindra (NIH/NINDS) [E]	
Who	Nath, Avindra (NIH/NINDS) [E] - organizer Nath, Avindra (NIH/NINDS) [E] - organizer	
,,,,,	: b6	
	ng b6 to discuss COVID Vaccine Allergic Reaction , 2021 11:00 AM Eastern Time (US and Canada)	
Join ZoomG	ov Meeting b6	
11(100.711111.20	<u>onigov.somp</u>	Madalanan
Meeting ID: Passcode: One tap mot +166925452 +164682876	52 h6 US (San Jose)	
+1 646 828 7 +1 551 285 7 +1 669 216 7 Meeting ID: Passcode	5252 US (San Jose) 7666 US (New York)	

Invitation from Google Calendar
You are receiving this courtesy email at the account b6 because you are an attendee of this event.
To stop receiving future updates for this event, decline this event. Alternatively you can sign up for a Google account at https://calendar.google.com/calendar/ and control your notification settings for your entire calendar.
Forwarding this invitation could allow any recipient to send a response to the organizer and be added to the guest list, or invite others regardless of their own invitation status, or to modify your RSVP. Learn More.

Organizer:	Nath, Avindra (NIH/NINDS) [E] D6
Subject:	Meeting b6 to discuss COVID Vaccine Allergic Reaction
Location:	Zoom
Start Time:	2021-07-30T15:00:00Z
End Time:	2021-07-30T15:30:00Z
Attendees:	b6
Time: Jul 30, 2021 11:0	to discuss COVID Vaccine Allergic Reaction O AM Eastern Time (US and Canada)
https://nih.zoomgov.cor	m/j/ b6
Meeting ID: b6 Passcode b6	
Dial by your location +1 669 254 5252 U +1 646 828 7666 U +1 551 285 1373 U +1 669 216 1590 U	JS (New York) JS

From: Sent:	7/27/2021 5:36:11 AM
To:	Nath, Avindra (NIH/NINDS) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group
CC:	(FYDIBOHF23SPDLT)/cn=Recipients/cn=b81ca051950b4d458d74037a6a86ead6 b6 Brown, Warren (NIH/NINDS) [C] [/o=ExchangeLabs/ou=Exchange Administrative Group
	(FYDIBOHF23SPDLT)/cn=Recipients/cn=bef0730648434bb69542199fca79f67e b6 b6
Subject:	Re: COVID Vaccine Allergic Reaction - Paresthesias
Hi Dr. Nath	and Mr. Brown,
know when	for your response and for offering to talk to us about this. I am copying b6 here. Please let us a good time to meet would be. pare a timeline of symptoms and diagnostics to send to you to inform our discussion.
Thank you,	
b6	
On Mon, Ju	1 26, 2021 at 11:07 PM Nath, Avindra (NIH/NINDS) [E] b6 wrote:
Dear	b6
	to hear of b6 illness. I would be willing to talk to her to see what we can do to assist. I have rren who can help schedule a meeting.
Avi	
Avindra Na	ath MD
Chief, Sect	ion of Infections of the Nervous System
Clinical Di	rector,
National In	astitute of Neurological Disorders and Stroke
National In	astitutes of Health, Bethesda, MD
L	.
	6

From: b6	7		
Date: Monday, July 26, 2021 at 8:20 AM	!		
To: Nath, Avindra (NIH/NINDS) [E]	b6		
Subject: COVID Vaccine Allergic Reaction -			
Subject. COVID Vaccine Intergre reaction	r ar estricsias		
Hi Dr. Nath,			
,			
	₋		
My name is b6 and I'm b6	whose	b6	has been suffering from
paresthesias in arms and legs and face and has			
polyethylene glycol in one dose of the Pfizer C			Since then, we have been
working with her PCP, allergist and neurologis	t to try to diagnose	and treat h	er symptoms through many
diagnostic tests, with little success so far.			
We have found support aroung online for other	maanla wha haya	had aimilar	reactions and trouble setting
We have found support groups online for other sufficient care from their providers due to the r			
experimental vaccine. We heard your and Dr. S			
•			ns. She suggested that I contact
you.	and surreining simm	iai sympton	is. She suggested that I contact
you.			
b6 and I have been wondering if you wou	ld be willing to off	fer any supp	ort or advice to us, or possibly
offer guidance to her providers for her treatmen	nt, given your expe	ertise in neu	roimmunology. Please let us
know either way. If so, I can write up a more d	etailed timeline of	b6 s	ymptoms. Thank you for taking
the time to read this - we look forward to hearing	ng from you.		
Dogt			
Best,			
b6			

000000000000000000000000000000000000000				000000000000000000000000000000000000000	
F	b6				
From: Sent:	7/14/2021 2:53:00 PM				
To:	Nath, Avindra (NIH/NINDS) [E]] [/o=Exchangel abs/ou	=Exchange Administra	ative Group	
	(FYDIBOHF23SPDLT)/cn=Recip				
Subject:	RE: long-term neurologic sequ			(
Dear Avi –					
Thank you	so much.				
Best,					
N	,				
İ					
	, Avindra (NIH/NINDS) [E]	b6			
	day, July 13, 2021 10:01 PM				
То:	b6	Patterson, Amy (N	IIH/NHLBI) [E]	b6	Wright, Clinton
(NIH/NINDS	· · · L				
Subject: Re	: long-term neurologic sequell	ae from vaccine			
n !					
Dear	b6			, NUNDO I	
	y sorry to her of these illnesses				
	COVID research. I have copied		vright who are mar	naging the portio	illo and would be in a
	tion to respond to your concer	ns.			
With best v	visnes.				
Aviadra Na	+				
Avindra Na	on of Infections of the Nervous	c Systom			
Clinical Dire		s system			
	stitute of Neurological Disorde	rs and Stroke			
	stitutes of Health, Bethesda, M				
[
	6				
l					
From:	b6				
L		i			
	sday, July 13, 2021 at 2:56 Pl				
-	Avindra (NIH/NINDS) [E]	b6			
Subject: Ic	ong-term neurologic sequella	ae from vaccine			
Daar Dr. Mr	**				
Dear Dr. Na	atn –				
Hollal I'm	a b6	and have t	wo acquaintances v	uha haya had na	rejetant and
Hello! I'm	a: neurologic symptoms that see				
-	there with similar symptoms a	·			iy ulere are maliy
	<u>w.vaxlonghaulers.com/</u> . The s				h the exception of
	symptoms. As a b6 13				
copilatory					to acpicasion,
anxiety and	d a whole host of other causes	, both organic and no	n, but I am struck h	v the case of a c	olleague, a bright and

weakness, vestibular dysfunction, trouble with word-finding, problem-solving, and memory. She was a true champion for science and mitigation measures at her school this past year and happily received her vaccine. Unfortunately, not only has she been debilitated since then, but multiple attempts to seek answers or assistance from V-SAFE, VAERS, FDA, Janssen, and CDC have been unsuccessful. In fact, it's been a comedy (more of a tragedy) of errors, with lost case numbers, disconnected phone calls, CISA consults that were cancelled without her knowledge, and more dead ends and frustration than you can imagine.

I'm writing to you today to ask that NIH begin to seriously study these potential neurologic adverse reactions to vaccine. I know you have a lot on your plate, with acute and long-COVID and their neurologic manifestations being very important, and the meeting the next two days. But these folks are also suffering, and we owe it to them to first recognize and acknowledge what is happening, and then try to figure out why it's occurring and what therapeutics may be useful. We also owe it to medical professionals and citizens to gather good data to help us understand this phenomenon and then communicate about it, so that these poor folks will no longer be dismissed out of hand and told that they're imagining it all.

I would also appreciate any efforts you could make to send the message that the V-SAFE system and other safety measures we've put in place do not seem to be working as intended or as promised to the public.

Thank you so much for all of your excellent work. Good luck with the meeting this week. I'll hope to see some investigation into potential long-term neurologic sequellae of COVID-19 vaccines in the very near future.

Sincerely,

b6

b6

500000000000000000000000000000000000000	p
From:	12/40/2020 42-27-54 PM
Sent: To:	12/18/2020 12:27:51 PM Nath, Avindra (NIH/NINDS) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group
10.	(FYDIBOHF23SPDLT)/cn=Recipients/cn=b81ca051950b4d458d74037a6a86ead6 b6
Subject:	Re: update on the vaccine
No. Just a	heavy sensation. They going to give me b6
b	6
Sent: Friday To:	, Avindra (NIH/NINDS) [E] b6 y, December 18, 2020 8:15 AM b6 : update on the vaccine
Sorry, any s Avi	ign of a Bell's palsy?
From:	b6 ay, December 18, 2020 at 6:46 AM
	Avindra (NIH/NINDS) [E]" b6
	e: Re: update on the vaccine
Jubject. III	e. Ne. apaate on the vaccine
Dear Avi,	
	eaction after the vaccine. Eye and lip swelling and left side of face paresthesias and heavy sensation. Came to
ER and I'm i	in observation. Feeling a little better although concern.
Best,	
b6	
b	6
From: Nath	, Avindra (NIH/NINDS) [E] b6
	day, December 17, 2020 7:56 PM

To: b6	
Subject: Re:	
Terrific!	
No vaccine is available at NIH yet. But can't wait to	get it.
All the best.	
Avi	
F b6	
From: b6	
Date: Thursday, December 17, 2020 at 6:55 PM	1
To: "Nath, Avindra (NIH/NINDS) [E]"	Db
Subject: <no subject=""></no>	
Dear Avi,	
Got the vaccine b6	
Got yours?	
Best,	
b6	
_	
b6	

From:	b6
Sent:	6/11/2021 9:31:40 PM
То:	Nath, Avindra (NIH/NINDS) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=b81ca051950b4d458d74037a6a86ead6 b6
Subject:	Concerns of a Study Participant
Attachments:	Nath NIH CC 6_11_21.pdf
Dr. Nath,	
Please see the	attached letter.
Thank you,	b6

Avindra Nath, MD Clinical Director Office of Clinical Services National Institute of Neurological Disorders and Stroke, NIH

Dear Dr. Nath:

I am writing to express concerns about my research participation and interactions with members of one of your research teams. This letter provides a non-exhaustive summary highlighting some of my experiences and perspectives.

Background:

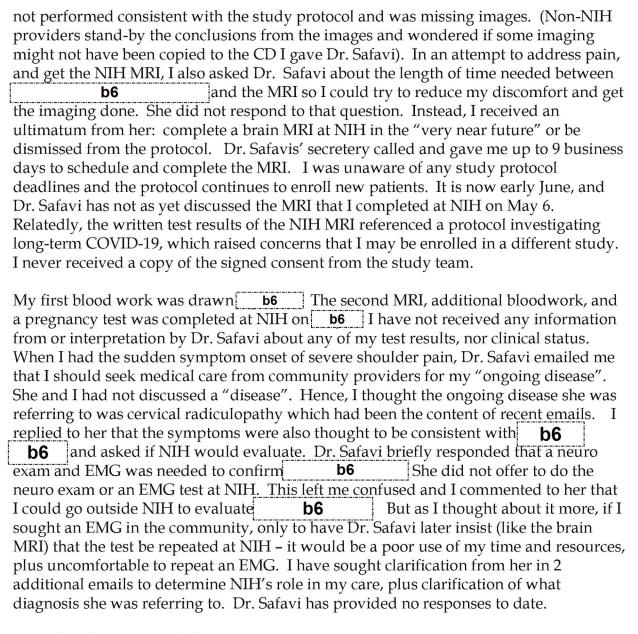
Within 2 hours after receiving a first dose of the Pfizer COVID-19 vaccine, I developed neurological symptoms. Dr. Mark Hallett heard of some of the symptoms, contacted me, and invited me to NIH for an assessment. I was subsequently enrolled into an NINDS protocol entitled Diagnosis and Natural History Protocol for Patients with Different Neurological Conditions (PI: Mark Hallet). During that assessment on **b6** a previous NIH fellow (Dr. Farinaz Safavi) was in attendance. Dr. Safavi, in consultation with Dr. Hallett, suggested that I switch to a different study protocol that addresses covid vaccine reactions. There was no mention of the exact protocol. Dr. Safavi did the latter portion of my physical assessment during that visit and advised at that time that I find a general neurologist in the community for her to communicate with. I thereafter met with 2 non-NIH neurologists, in-person, based on that recommendation. On March 24, Dr. Safavi contacted me by phone and I specifically asked for the study protocol, which I assumed would include the informed consent. Dr. Safavi replied that it was being worked on. A few weeks passed and I did not receive a copy, and the afternoon prior to my in-person visit scheduled with Drs. Nath and Safavi, when the Research Coordinator (RC) called for covid screening, I asked for the protocol. While on the phone, the RC sent it in an encrypted email and informed her I was unable to open the email.

I attended the intake visit on **b6** when you performed the informed consent process. The meeting did not start until 9:20-9:25am (after the intake nurse had gone through questions and measurements) and you seemed a bit rushed. I had the impression you may have thought I had already seen the consent form, although that was not the case. I nonetheless signed the consent form, in part because Dr. Savafi had assured me in previous emails that all study procedures were entirely voluntary. A signed copy of the consent form for the study was not provided to me at the time I signed the original. The next day, I called the RC and requested she send an unencrypted copy. Upon receiving an unsigned copy of the form, Natural History of

Inflammatory and Infectious Disease of the Nervous System (PI: Dr. Avindra Nath), via email, I noticed that certain procedures, including a lumbar puncture, are not optional for study participants. I immediately called back the RC for clarification, and the RC confirmed that the LP and various other procedures were mandatory. I soon thereafter emailed my concerns about the consenting process to Dr. Safavi, her previous claims that nothing was mandatory, and explained I would need to withdraw if the LP was indeed a protocol requirement. She replied that I had been sent the protocol 3 times, but did not say in what manner. Her email ended conveying that you had determined I should not have a LP based on my medical history. I responded that I had no motivation to tell her anything other than what I experienced, and as an investigator, I would want to know if study participants were not receiving materials. I had, by the way, received Dr. Hallett's protocol materials with no issues.

At the same visit on after you left the examination room, Dr. Safavi informed
me that she would now be my primary neurologist. Dr. Safavi advised me to "slow
down", in reference to my outside care. She specifically advised me to discontinue
other therapeutic procedures I had scheduled, namely b6
scheduled with a non-NIH anesthesiologist later that week to reduce the nerve pain in
my lower extremities. I canceled the b6 at Dr Safavi's request, although
regretted I had to tolerate pain and limited mobility for an unknown period of time. Dr.
Safavi also informed me of what treatments she was planning for me: b6
b6
b6 She commented that left untreated, inflammation could flare in the future,
and added that she preferred the efficacy of an IV.
Prior to the b6 appointment, I woke one day with peripheral diplopia and
headaches that prompted non-NIH providers to recommend a brain MRI. I contacted
Dr. Safavi and she encouraged me to get a MRI at NIH, and said if I did so and enrolled
in the study, NIH could treat me. She hoped to have the MRI done b6 but no
appointments were available, and as it turned out, it would be another week beyond
then before I could be tested at NIH. A non-NIH imaging facility was able to do the
MRI within a week of my cranial symptoms' onset. b6
b6 I informed her that I had received the MRI outside,
yet expressed I was willing to do a brain MRI at NIH.

Days after my visit with you and Dr. Safavi, I developed uncharacteristic, severe shoulder pain that was suggestive of either cervical radiculopathy, and later -- brachial neuritis. Non-NIH providers documented the extent of my discomfort. Because the symptoms prevented me from lying in a supine position, I asked Dr. Safavi if she could accept the brain MRI completed in the community (several other study participants were participating by telehealth and have brain MRIs completed in the community.) Or, postpone the 75+ minute NIH MRI until late May or early June, reflecting what my pain management anesthesiologist predicted for my recovery and personal circumstances. Dr. Safavi responded that the brain MRI done in the community was



Some Conclusions and Other Noteworthy Issues:

I was not properly or accurately informed of the protocol prior to consent. This became a larger issue because Dr. Safavi previously emailed that "absolutely nothing is mandatory" and I signed a consent form believing that to be true, only to discover the opposite. It alarmed me and concerned my non-NIH providers about a LP requirement, and was unsettling that she had provided me with contradictory information prior to the consent. This seemed avoidable had she been truthful, and I received an advance copy of the form.

I had already agreed, via email, to repeat the brain MRI at NIH. With no known deadlines or urgency for the MRI, she nonetheless had a knee-jerk reaction to my having a repositioned shoulder and scapula, and intense pain. The demand to rush completion of the imaging while I was in pain or be expelled from the protocol if I could not tolerate the haste, seemed harsh.

Dr. Safavi stated in writing and verbally that I could be treated by NIH, with one offer seemingly hinged to my doing a brain MRI at NIH. The only reason I got a repeat brain MRI at NIH, and while in pain, was because I was led to believe if I did so, I would have the option of receiving treatment at NIH. Why would I otherwise have repeated a test that I was certain would not reveal the cause of **b6** symptoms? As a study participant, I feel I was coerced into participation, only for Dr. Safavi to (seemingly) withdraw the intent by ceasing communication with me.

After reading the signed consent provided to me in the past week, I realized a side effect I experienced from the NIH brain MRI is not mentioned in the consent form: tinnitus. The covid vaccine instigated tinnitus in my left ear, yet it was tolerable. After the lengthy brain MRI in the robust NIH machine, my left ear worsened... now sounding like an angry train whistle blowing in my head. It is difficult to sleep. My right ear developed tinnitus for the first time ever the day after the NIH MRI. It is unfortunate the MRI's potential for worsening tinnitus, given my post-vaccine medical symptoms, was not noted or recognized. I reported to you during the intake interview that I did not have hearing loss since the vaccine. But I did report tinnitus. I hope the potential side effect of tinnitus is noted on your consent form in the future to inform and help guide future decisions.

Currently I am seeking treatment for tinnitus and incurring the costs for medical care to address an issue that a NIH test provoked. Ironically, the medical care I am receiving is from a clinician who provides treatment at the NIH CC, to outpatients on NIH protocols. He advised me to have my NIH physician send him a note to start treatment with him at NIH. I had to inform him my NIH physician does not respond to my emails. I am now being treated in his private practice at my expense.

Dr. Safavi's changing her mind -- two, maybe three times -- about who should be my primary neurologist has been problematic. The day she announced she would be my primary neurologist, I told her she had a scheduled appointment with a new neurologist that very afternoon and she shrugged. It could not be cancelled on such short notice. During my appointment with him, I could not encourage him to provide care for me as Dr. Safavi had declared that role. Now Dr. Safavi is "ghosting" me and not clarifying which "ongoing disease" she has referred to and how I fit in the NIH protocol. And I have little to provide non-NIH clinicians in terms of information from my time spent as a study participant at NIH.

Since I brought the consent process and her contradictory claims about the study requirements to Dr. Safavi's attention, she has been disrespectful, and seems hostile towards me. A small yet perhaps telling example... the schedule for my last MRI and bloodwork stated, "... go to phlebotomy to have your non-fasting labs drawn." After I arrived at the Phlebotomy Department, the lab technician said I had to provide a urine sample for a pregnancy test. I had just voided — ready only for bloodwork and then onto the MRI. The laboratory technician advised me not to strain to provide a urine sample. I asked the Phlebotomy Lab to call Dr. Safavi to request clarification about the pregnancy test. Dr. Safavi, the physician who said nothing was mandatory, firmly replied that pregnancy test was a protocol requirement. She was unrelenting. The protocol requires "a urine pregnancy test for women and girls who are able to get pregnant." Her clinical judgement about who is able to get pregnant is questionable. I drank water to provide a urine sample, and subsequently was even more uncomfortable during the 75+ minutes of MRI imaging.

I planned to report my experiences with Dr. Safa	avi to other sources, but some senior
staff at NIH, plus the CC, encouraged me to wri	te directly to you. b6
b6	
b6	With this background, it is an
understatement to express that my being a stud	y participant with a physician in your
group went horribly wrong. And from chatter of	on social media, it appears Dr. Safavi is
confusing other future and current study partici	pants she interacts with, but those are
their tales to tell.	

Thank you for your attention to this matter. Hearing from you about any of the foregoing would be helpful and appreciated – particularly my test results and clinical status, role in the study protocol, and NIH's intent to treat me. Please advise if I can answer any questions or provide additional information.

h6

Sincerely,

From:	b6
Sent:	12/30/2021 6:22:41 PM
То:	Nath, Avindra (NIH/NINDS) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=b81ca051950b4d458d74037a6a86ead6 b6
Subject:	Re: [EXTERNAL] Re: Covid vaccine neurological issues
Attachments:	A Possible Role for Anti-idiotype Antibodies in SARS-CoV-2 Infection and Vaccination NEJM.pdf
	s email originated from outside of the organization. Do not click links or open attachments unless you recognize the e confident the content is safe.
	this theory? It is from the nejm from November. I have been in contact with Dr Murphy and they see more research after the holidays.
b6)
Sent from n	iy iPhone
On I	Dec 26, 2021, at 9:20 AM, b6 wrote:
	Nath,
	y to keep bothering you. I hope your holiday season is well. I am wondering if you have any
	vers as to why my symptoms are worse in the morning upon waking and are mostly if not all
	way gone by evening? I read that inflammation can be worst upon waking due to the body's
	adian rhythm. Is this a possible answer? I really need to get better. My own PCP and one of
	neurologists I saw won't do anything to treat symptoms unless there are studies that prove
	ething works. I asked about IVIG, plasmaphoresis, high does vitamin C and other things. I N I said I'm so I can seek whatever treatment I may
	ble to get. I'm hoping you and b6 will be able to help me.
be a	iwill be able to help file.
Reo	ards,
105	b6
i	<u></u>
Sent	from my iPhone
	On Dec 21, 2021, at 8:26 AM, Nath, Avindra (NIH/NINDS) [E] b6 wrote:
	Yes, I will be glad to talk to b6 should be fine. I do not see any
	reasons for concern.
	Avi
	From: b6
	Date: Tuesday, December 21, 2021 at 9:23 AM
	To: Nath, Avindra (NIH/NINDS) [E] <u>b6</u>
	Subject: [EXTERNAL] Re: Covid vaccine neurological issues

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and are confident the content is safe.

Dr. Nath,	
I am going to be seeing	b6 The
immunologist I saw there had said that b6	
and b6 could collaborate on a care plan	for me? I'm desperate to get back to a
normal life with my family. Also, I was	b6 when I got the shot on
recommendation by CDC, ACOG, SMFM. Also	o b6 approved etc. I
asked many providers when I was having an	abnormal response to the vaccine if I
asked many providers when I was having an should b6 and all said	b6 so we have been. Is b6
going to have issues from this then? I'm real	ly worried about this whole situation. I did
have EMG done recently and it was b6	Thanks. Happy holidays.
Regards,	
b6	
Sent from my iPhone	
On Nov 15, 2021, at 9:08 PM, Nath,	Avindra (NIH/NINDS) [E]
b6 wrote:	
Dear b6	
Sorry, that you have not been able t	o got adoguato caro
Avi	o get adequate care.
AVI	
F	
From: b6	
Date: Monday, November 15, 20	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
To: Nath, Avindra (NIH/NINDS) [E	~ Li
Subject: Re: Covid vaccine neuro	logical issues
D. NH.	
Dr. Nath,	
I contacted the doctors whom you n	
one (the male doctor) responded an	
these reactions. I see on your profile	
the nih. I am begging and pleading for further. I have been in contact from	
had the same symptoms I have had	he last answers. My
neurologist wants to label me with don't buy that for one second. I am	b6 and I
have b6 I am	giving you a link to an online forum
so you can read these people's post	
into this and to not give this Pfizer sl	
these neurological issues are happen	
you quoted in it regarding a reaction	
were in trials and it was a concern the	
about this or the United States for the	
about this of the officed states for th	iat matter:
https://vestibular.org/forum/sympt	oms/tingling-numhness-in-

body/paged/54/

Please help us.

Regards,	
b6	

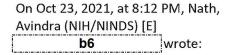
Sent from my iPhone

On Oct 23, 2021,	at 8:25 PM	b6
b6	wrote	•

Thank you so much for this information. I don't live in New York but will travel anywhere to feel better. Will I be able to get around New York if I haven't been fully vaccinated? I have been advised to not get the second shot. My doctor would give me an exception letter too. Thank you so much for replying! You are a blessing. Have a great weekend!

Regards,	
	:
b6	

Sent from my iPhone



Dear **b6**Sorry to hear of your illness. If you live in the NY area, I would suggest seeing

any of the following:



They are all well versed in these complications and will investigate and treat you.

Avi
Avindra Nath MD
Chief, Section of Infections of the
Nervous System
Clinical Director,
National Institute of Neurological
Disorders and Stroke
National Institutes of Health, Bethesda,
MD

From: b6
b6
Date: Friday, October 33, 2031 at

Date: Friday, October 22, 2021 at

11:36 AM

To: Nath, Avindra (NIH/NINDS) [E]

b6

Subject: Covid vaccine neurological

issues

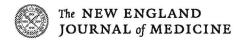
Good morning,

I'm writing to you today out of desperation. I'm looking for anyone who can help me recover after my first Pfizer vaccine. Almost immediately after receiving it I had lightening bolt of pain on the left side of my brain and after that I have had a multitude of symptoms. I felt electrical sensations all over my body with a revved up feeling internally. I had very deep sleep but also was not my normal sleep. I was having lucid nightmares. At one point I almost felt like I was losing my mind when I would go to sleep. That has gotten better but I am still having vivid dreams. I developed diarrhea, tinnitus, sensitivity to sound/light/touch, paresthesias in all limbs and numbness in limbs, headaches unlike any I have ever felt before, brain fog or difficulty concentrating, skin feeling sensitive and burnt but I haven't been in the sun, random areas of intermittent pain on my skin as well. I saw Dr. Thakur as an author of a review in a neurology journal and he mentioned talking with you. I got your email off of the internet. I have reached out to many others as well as Mayo Clinic and come up short. Please help me or point me in a direction of someone that can. I have 3 kids to care for that are b6 b6 Thanks so

much.

Regards,
b6

Sent from my iPhone





CLINICAL IMPLICATIONS OF BASIC RESEARCH BASIC IMPLICATIONS OF CLINICAL OBSERVATIONS

A Possible Role for Anti-idiotype Antibodies in SARS-CoV-2 Infection and Vaccination

William J. Murphy, Ph.D., and Dan L. Longo, M.D.

November 24, 2021

Editors

DOI: 10.1056/NEJMcibr2113694

Mary Beth Hamel, M.D., M.P.H., Editor

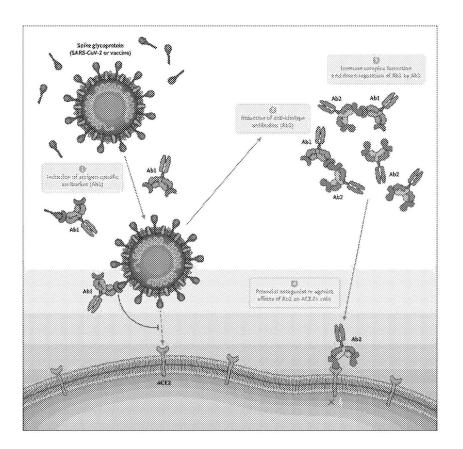
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11 References		

Article

The Clinical Implications of Basic Research series has focused on highlighting laboratory research that could lead to advances in clinical therapeutics. However, the path between the laboratory and the bedside runs both ways: clinical observations often pose new questions for laboratory investigations that then lead back to the clinic. One of a series of occasional articles drawing attention to the bedside-to-bench flow of information is presented here, under the Basic Implications of Clinical Observations rubric. We hope our readers will enjoy these stories of discovery, and we invite them to submit their own examples of clinical findings that have led to insights in basic science.

(SARS-CoV-2) infection is incompletely understood, with its effects on multiple organ systems¹ and the syndrome of "long Covid" occurring long after the resolution of infection.² The development of multiple efficacious vaccines has been critical in the control of the pandemic, but their efficacy has been limited by the appearance of viral variants, and the vaccines can be associated with rare off-target or toxic effects, including allergic reactions, myocarditis, and immune-mediated thrombosis and thrombocytopenia in some healthy adults. Many of these phenomena are likely to be immune-mediated.³ How can we understand this diversity in immune responses in different persons?

Figure 1.



Anti-idiotype Antibodies and SARS-CoV-2.

One way of thinking about the complexity of the immune response is through the lens of antiidiotype immune responses. The Network Hypothesis, formulated in 1974 by Niels Jerne, described a mechanism by which the antibody responses to an antigen themselves induced

downstream antibody responses against the antigen-specific antibody. Every antibody that is induced and specific for an antigen (termed "Ab1" antibody) has immunogenic regions, particularly in their variable-region antigen-binding domains, that are unique as a result of genetic recombination of immunoglobulin variable, diversity, and joining (VDJ) genes; VDJ recombination results in new and therefore immunogenic amino acid sequences called idiotopes, which are then capable of inducing specific antibodies against Ab1 antibodies as a form of downregulation. A similar paradigm has been proposed for T cells. However, these regulatory immune responses are also capable of doing much more. The paratopes, or antigen-binding domains, of some of the resulting anti-idiotype (or "Ab2") antibodies that are specific for Ab1 can structurally resemble that of the original antigens themselves. Thus, the Ab2 antigen-binding region can potentially represent an exact mirror image of the initial targeted antigen in the Ab1 response, and Ab2 antibodies have even been examined for potential use as a surrogate for the antigen in vaccine studies. However, as a result of this mimicry, Ab2 antibodies also have the potential to bind the same receptor that the original antigen was targeting (Figure 1). Ab2 antibodies binding to the original receptor on normal cells therefore have the potential to mediate profound effects on the cell that could result in pathologic changes, particularly in the long term — long after the original antigen itself has disappeared.

This aspect of regulation of immune-cell responses was postulated by Plotz in 1983 as a possible cause of autoimmunity arising after viral infection⁵ and has since been supported experimentally by direct transfer of anti-idiotype antibodies. Ab2 antibodies generated against the enterovirus coxsackievirus B3 in mice can bind myocyte antigens, resulting in autoimmune myocarditis,⁶ and anti-idiotype responses can act as acetylcholine receptor agonists, leading to myasthenia gravis symptoms in rabbits.⁷ In addition, by displaying the mirror image of the viral antigen, Ab2 alone can even mimic the deleterious effects of the virus particle itself, as has been shown with bovine viral diarrhea virus antigen.⁸

For SARS-CoV-2 infection, attention centers on the spike (S) protein and its critical use of the angiotensin-converting—enzyme 2 (ACE2) receptor to gain entry into the cell. Given its critical role in regulating angiotensin responses, many physiological effects can be influenced by ACE2 engagement. The S protein itself has a direct effect on suppressing ACE2 signaling by a variety of mechanisms and can also directly trigger toll-like receptors and induce inflammatory cytokines. Anti-idiotype responses may affect ACE2 function, resulting in similar effects. However, preclinical and clinical assessments of antibody responses to SARS-CoV-2 vaccines have focused solely on Ab1 responses and virus-neutralizing efficacy. The delineation of potential anti-idiotype

responses has inherent difficulties because of the polyclonal nature of responses, dynamic kinetics, and the concurrent presence of both Ab1 and Ab2 antibodies. Furthermore, ACE2 expression within cells and tissues can be variable. The different vaccine constructs (RNA, DNA, adenoviral, and protein) are also likely to have differential effects on Ab2 induction or in the mediation of vaccine effects that differ from responses to infection. Some off-target effects may not be directly linked to Ab2 responses. The association of thrombotic events with some SARS-CoV-2 vaccines in young women and the etiologic role of anti–platelet factor 4–polyanion antibodies may be the result of the adenoviral vector. However, the reported occurrence of myocarditis after vaccine administration bears striking similarities to the myocarditis associated with Ab2 antibodies induced after some viral infections. Ab2 antibodies could also mediate neurologic effects of SARS-CoV-2 infection or vaccines, given the expression of ACE2 on neuronal tissues, the specific neuropathologic effects of SARS-CoV-2 infection, and the similarity of these effects to Ab2-mediated neurologic effects observed in other viral models.

It would therefore be prudent to fully characterize all antibody and T-cell responses to the virus and the vaccines, including Ab2 responses over time. Using huACE2 transgenic mice and crossing them with strains that are predisposed to autoimmunity or other human pathologic conditions can also provide important insights. An understanding of potential Ab2 responses may also provide insights into Ab1 maintenance and efficacy and into the application of antibody-based therapeutic agents. However, much more basic science research is needed to determine the potential role idiotype-based immunoregulation of both humoral and cell-mediated responses may play both in antiviral efficacy and in unwanted side effects of both SARS-CoV-2 infection and the vaccines that protect us from it.

Funding and Disclosures

Disclosure forms provided by the authors are available at NEJM.org.

This article was published on November 24, 2021, at NEJM.org.

Author Affiliations



From the Departments of Dermatology and Internal Medicine, Division of Hematology and Oncology,

6.

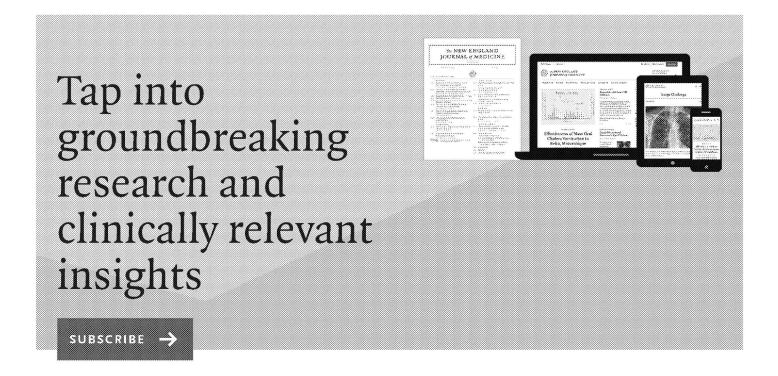
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Mor	e from the week of December 23, 2021 $\leftarrow \rightarrow$
Mor	e about infectious disease vaccines viral infections
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From: Sent:		DS) [E] [/O=EXCHANGELABS/OU=EX I=RECIPIENTS/CN=B81CA051950B4F		,,, , , , , , , , , , , , ,
To:	b6			
Subject:	Re: Ongoing health issue	es post Pfizer Covid vaccine		
()	able with immune there			ats patients with MS, he should be bringing you to NIH. I will let you
From:	b6			
Date: Friday	y, July 23, 2021 at 7:04	4 PM		
	vindra (NIH/NINDS) [E	\		
Subject: Re:	: Ongoing health issue	es post Pfizer Covid vaccine		
Dear Dr.Nath	١.			
		de to you for spending the time t	to chat with me	today and discuss potential
		ed for others. It was a very enco	uraging and upli	
information f		I have seen twice this year:	1.1 6 .1	b6
with Monday	b6			d of my initial email to you to aid in fog, profound fatigue, chest pain
-		pasis. I had another episode of m		
				re activity that I do and seem to be
slowly worse	ning since b6 I ha	ave struggled greatly working	b6 this w	eek to the point where it affected
		, 106 1		This past Monday
had a	b6	I have a cardiac MRI sch	neduled for early	
i		<u></u>	neva monatives on a topic of an are	· se roll come sure come
Thank you ag	gain,			
b6				
On Mon, Jul 1	19, 2021 at 9:49 PM Na	th, Avindra (NIH/NINDS) [E]	b6	wrote:
Dear	b6			
I am terribly and can help		Iness. I will be glad to talk to you	ı. I have copied \	Warren who maintains my calenda
Best wishes.				
Avi				
Avindra Nat				
Chief, Section	:h MD			
•	th MD on of Infections of the N	lervous System		

National Institute of Neurological Disorders and Stroke
National Institutes of Health, Bethesda, MD
he (Office)
b6
From: b6
Date: Monday, July 19, 2021 at 4:51 PM
To: Nath, Avindra (NIH/NINDS) [E] b6 Subject: Ongoing health issues post Pfizer Covid vaccine
Hi Dr.Nath,
I received your email from b6 of whom was helped immensely from her treatment at the NIH, as I have been having difficulty reaching out to Dr.Safavi and she thought you may be able to help me. Below is the email that I sent Dr.Safavi of which I have not received a response. Any advice or recommendations that you could provide me with would be greatly appreciated.
Thank you,
b6
Forwarded message
From b6 Date: Fri, Jul 9, 2021 at 1:05 AM
Subject: Ongoing health issues post Pfizer Covid vaccine
To: b6
Hi Dr.Safavi,
My name is b6 and I'm a b6
b6 I have been suffering from an ongoing Pfizer vaccine reaction since b6 I was previously healthy and never missed time off work before the vaccine. I can't seem to recover from my vaccine induced illness and I wanted to

you have helped immensely, and I hope you don't mind me reaching out.
Here is my story: I received the second dose of Pfizer on b6 13 hours after receiving the vaccine, I started with flu like symptoms (HA, neck pain, body aches, fever, restless, nausea, vomiting). 36 hours post-vaccine, I had profound fatigue, still felt feverish, scattered hives, headache and neck pain, and had intermittent dizziness. Day 3 and until this day I have had vertigo. That first week I had chest pain and dyspnea that would come and go, lasting until 2-3 weeks (ish) post-vaccine before seemingly resolving (more on this later). I was hospitalized b6 had extensive testing, and was diagnosed with b6 from the vaccine. Headache and neck pain lasted through b6 The weekend of b6 I had paresthesias of my hands, feet, L forearm and L cheek that seemingly resolved. The vertigo was the main symptom (with the exception of hives that would occur nightly on my chest/back/neck for about 30 minutes (ish) and would self resolve) from b6 The vertigo slowly improved over this time b6 My husband and I would notice that I had issues with short term memory and word finding at times, with making easy decisions, and crowds would flare up all symptoms. PT reported that b6 don't know if this is important or not, but I started having hair loss in b6 and my menstrual cycles were irregular for b6 In b6 things unexpectedly progressed.
b6 I started with tinnitus which is still present to this day. b6 I suddenly had a return of paresthesias, this time ascending, starting from hands/feet that progressed up my entire arms and legs bilaterally. I also developed weakness in my legs and arms where it was difficult to go upstairs and brush my hair. I saw my pcp, had b6 neuro exam, and was referred to neurology. I also had a return of chest pain this day which was largely ignored in my appt with my pcp and starting having issues with intermittent brain fog. I saw neurology on b6 The weakness was coming and going, not frequently, but the paresthesias persisted. I had a b6 EMG on b6 and was diagnosed with b6 No further work up or medications recommended by my neurologist. Since b6 I've had 4 discreet episodes of muscle weakness where walking any significant distance/up steps is difficult as noted above, lasting half a day to 48 hours when it comes. The paresthesias have been persistent since b6 It's mainly in my hands/feet, forearms, and mid shins. Intensity waxes and wanes, sometimes I can't sleep due to the intense burning sensation. Sometimes I have issues where my hands feel clumsy such as with texting or some of the procedures I perform at work.
b6 I again had another progression of symptoms while at work. I had worsening vertigo and paresthesia first, followed by intense chest pain with intermittent dyspnea, and later in the afternoon brain fog. I had been having intermittent chest pain since the b6 but this was worse than I had ever had, and I also noted I was having intermittent palpitations/tachycardia. I blew off the issue until I went home and found my HR 100-120s for an hour while at rest. The tachycardia at rest did normalize after that hour. What I've had since then is intermittent tachycardia with standing/short walking and persistent frequent episodic chest pain both at rest and with exertion, long episodes (rare that I don't have pain), worse with exertion. Have been profoundly fatigued since this started. I woke up Sunday around 4am with intense chest pain and rapid HR and confusion, I think it lasted for a few minutes before I went back to sleep. Sunday daytime I had to stop in the middle of a flight of steps due to chest pain and dyspnea which is unusual for me b6 was essentially confined to my couch due to feeling unwell/lightheaded/weak with any light activity (such as walking from the living room to the kitchen). Today my symptoms were slightly better, I was able to go to work for 3 hours administratively but again worsening symptoms with activity. I did see my pcp today, have a b6 and an echocardiogram to be scheduled.
I'm not sure if you have the availability to help me, if I'm too late in asking for help in terms of effectiveness of potential treatments, or if I'm not sick enough to be considered. I've been praying that this would all go away and working with my local physicians for months now and I'm still not doing well. My fear is that I have some sort of smoldering demyelinating illness that would explain my ongoing and progressive symptoms but this is just a guess. I

thank you for reading my email and for your time and consideration.

Sincerely,

b6

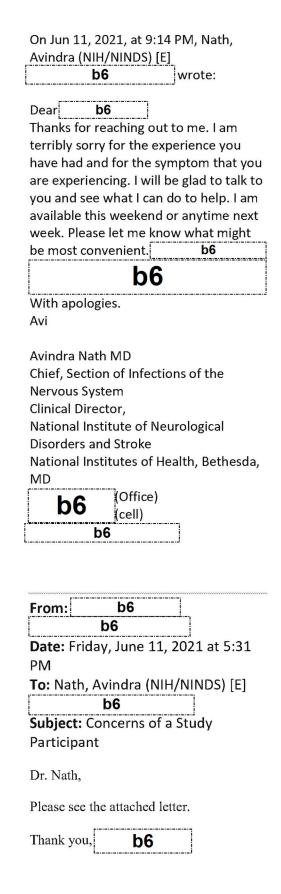
b6

b6

Sent: To: Subject:	C/15/2021 1.50.10 ANA
	6/15/2021 1:58:18 AM
Subject:	Re: Concerns of a Study Participant
	Re: Concerns of a Study Participant
Thanks.	
Avi	
t	b6
	ay, June 14, 2021 at 9:47 PM
	rindra (NIH/NINDS) [E] b6
Subject: Re:	Concerns of a Study Participant
Hello Dr. Nath	ı,
This may be m	nore information than you need.
I had never pro NIH.	eviously had tinnitus in my right ear. Tinnitus started in my right ear on b6 the day after my brain MRI at
Left ear tinnitu began to increa b6 If that he	us was noticeable the second week after my J&J shot on b6 After the brain MRI at NIH, it gradually ase in intensity to the high level it is now. I started to call for treatment appointments for the left ear the end of elps.
Thank you for Center.	the consult request. Kymani contacted me today and I have a ENT consult this Wednesday at the Clinical
Best, b6	
On Ju	ın 14, 2021, at 9:09 PM, Nath, Avindra (NIH/NINDS) [E] b6 wrote:
Door	he i
Deari You m	b6; nay have mentioned it but I cannot recall when did you notice the increase in tinnitus after the
	I need to include this information in the AE report. The ENT consult request has been placed.
Thank	
Avi	
AVI	
AVI	
From	n: b6
From	n: b6 : Sunday, June 13, 2021 at 4:58 PM
From Date:	: Sunday, June 13, 2021 at 4:58 PM
From Date: To: N	: Sunday, June 13, 2021 at 4:58 PM
From Date: To: N	s: Sunday, June 13, 2021 at 4:58 PM Nath, Avindra (NIH/NINDS) [E] b6 ect: Re: Concerns of a Study Participant
From Date: To: N Subje	s: Sunday, June 13, 2021 at 4:58 PM Nath, Avindra (NIH/NINDS) [E] b6 ect: Re: Concerns of a Study Participant
From Date: To: N Subje	s: Sunday, June 13, 2021 at 4:58 PM Nath, Avindra (NIH/NINDS) [E] b6 ect: Re: Concerns of a Study Participant k you.

Dear b6
It was a pleasure to talk to you. Thank you for your understanding. I am summarizing
our action plan below. Hope I did not miss anything.
1. We will request an ENT consult for tinnitus
2. We will report the tinnitus to the IRB as an adverse reaction to MRI and seek
their guidance about amending our consent form accordingly.
3. With regards to ongoing neurological symptoms you will seek help from your
outside neurologist and PCP
4. If and when we publish our research findings we will share them with you.
With best wishes.
Avi
From: b6
Date: Saturday, June 12, 2021 at 10:49 AM To: Nath, Avindra (NIH/NINDS) [E] b6
To: Nath, Avindra (NIH/NINDS) [E] b6
Subject: Re: Concerns of a Study Participant
Will plan to call your cell today at 3pm. I look forward to talking with you then.
will plan to can your con today at 5pin. I look forward to taiking with you then.
Thanks, b6

On Jun 12, 2021, at 7:22 AM, Nath, Avindra (NIH/NINDS) [E]
b6 wrote:
P=====================================
Let's talk at 3 pm today. My cell is b6
Thanks
Avi
On him 11, 2021, at 11,18 DNA h6
On Jun 11, 2021, at 11:18 PM, b6 wrote:
iwrote.
Dr. Nath,
I appreciate your prompt and empathetic response. I'm
available Saturday and Sunday this weekend anytime after
2pm, or next week. For example, Monday or Tuesday
between 10am and 1pm, or Wednesday afternoon or Thursday morning. Please let me know if any of those days
or times might work for you.
of times might work for you.
Am sorry to hear of b6 I
Am sorry to hear of b6 I emailed her April 29 and 30, and June 1 with questions.
Thank you, b6
1



From:	Nath, Avindra (NIH/NINDS) [E] [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=B81CA051950B4D458D74037A6A86EAD6 b6
Sent:	7/30/2021 3:40:32 PM
То:	b6
CC:	
Subject:	Re: COVID Vaccine Allergic Reaction - Paresthesias
Dear b6	
It was good to	meet you. Sorry to hear of your illness. Hopefully, I was able to address the issues. If there are any
	estions for me, please feel to contact me again.
With best wis	hes
Avi	
From:	b6
	day, July 29, 2021 at 4:58 PM
,	indra (NIH/NINDS) [E] b6
Cc:	b6
Subject: Re:	COVID Vaccine Allergic Reaction - Paresthesias
Hi Dr. Nath,	
Thank you aga	ain for agreeing to talk to us about b6 symptoms. I have copied b6 here, in case she wants to
0	e HPI/timeline below of her reaction to her only dose of the Pfizer vaccine:
Pfizer vacci	ne administered on b6 Started to experience near-syncope, swelling near eyes
after 30 min	ns. On b6 several episodes of near-syncope, paresthesias in arms and legs, leg
	u <u>ritcaria in</u> bilateral legs - went to ER via ambulance to b6 The visit was very
	or b6 reason for visit listed as only anxiety, likely due to paramedics giving
	HPI and no sufficient intake interview with b6 despite us telling paramedics that this
	rgic reaction to C19 vaccine. Incident with RNs who refused to take off blood pressure
cuii on ieit a	arm when b6 pleaded for them to stop due to extreme pain. CMP showed b6 of like her
	tarting to buckle when asked to stand, and the resident MD had a hard time getting ankle
•	r DTRs (Her PCP also had a hard time getting lower limb DTRs at her follow up 3 days
later). Only	given water by mouth and prescribed b6 and discharged same night. She
had to be se	ent out in a wheelchair out of the ED. It was five days later that b6 doctor prescribed
	At this time, her
	still included paresthesias in arms/legs, leg weakness, involuntary vibrations in her hands
	pens them after being closed, shakiness in her legs, and fatigue. In addition, she was
naving irou	ble sleeping through the night and started to have occasional night sweats.
We also fou	and that polyethylene glycol was in the Pfizer vaccine - she had a severe reaction to
	b6 and did not tolerate b6 afterwards. I deeply regret that I did
	the ingredients of the <u>Pfizer vaccine</u> beforehand, as I would have noticed that PEG was
	would have prevented b6 from taking the vaccine and she would not have been
sunering like	e this for the past four months.
During this	time, b6 consulted with PCP, which made referral to neurology, and established care
	t MD at b6 who has been working with her on figuring out b6

b6 Allergist labs on b6 show	wed b6	
	b6	
	neurologist at <u>b6</u> at initial telehealth interview cuff from ED visit. Head MRI/MRV ordered,	v the neurologist b6
swelling, and b6 took a few of started to feel that her heart was t	peating harder than normal, when at rest, and was art beat and palpitations- PCP notified. b6 experienced jitteriness and palpitation	also s sometimes was suggested
b6 Allergist ordered	b6	
b6		
b6 Completed PCP ordered	b6	
b6	i Do	j
Throughout these two months, all	blood labs. b6	
b 6	which left b6 at home with caretaker, and we do not have family closeby that	b6
tingling b6 Since her pares starting to get more concerned the dismissive of her leg weakness, a strongly for her to get her symptor informed by dentist that she will not b6 Upon co reaction b6 was told that we surgery can be undertaken. When to think about this being issues wi	nsultation with periodontist and informing him about need to diagnose and resolve the neurological is we informed the neurologist of this new urgency, the autonomic nervous system and small fiber neurologist at office, due to assigned neurologist not be twith assigned neurologist about concerns for GB	er face, we were eurologist. He was a advocate was also but this vaccine sues before he finally started ropathy.
reaction and symptoms as b6 were several cases of patients be were confirmed to have GBS wee b6 saw in the office this day, GBS, but needs EMG and nerve s MRI. Blood tests, including b6 Around this same week, b6 s	after getting the COVID Vaccine. In this supporting told that they didn't have GBS due to "no clinic ks/months later after getting a spinal tap. The new after giving her a physical exam, told her that she studies to test her autonomic nervous system, as b6 started to wake up early each morning (around 4a arily to the roof of her mouth, and her tongue sligh	t group, there cal signs" but then irologist that e does not have well as cervical m on average)

b6 Allergist suggested b6
b6 She has only been able to
tolerate one daytime dose per day since then. When we tried a nighttime dose, she woke up
repeatedly in the night. The b6 has only slightly decreased her tongue swelling and paresthesias,
but has not treated her tongue thrusting at all. We are still working with allergist to titrate b6 and
when to fold in b6 In addition, we are working with him to possibly rule out Mast Cell
Activation Syndrome. b6 We are instructed to try to do a
repeat 24hr urine test during a "flare up" to see if any biomarkers there suggest MCAS.
b6 Since the EMG and nerve studies could only be scheduled as early as August 18, and since
b6 symptoms were progressively getting worse, neurologist performed b6
b6 He doesn't think she has
b6 and but told her to keep August 18 appointment as a consultation
appointment. Blood tests, including b6
LC
b6
b6
<u></u>
her tongue thrusting has felt much more severe, and her paresthesias
have felt worse as well, despite taking b6
We are considering keeping cervical MRI test date. We got a reschedule of her ANS tests to August
12 - table test, QSART, deep breathing, and one other test that I cannot recall at this point.
Throughout these four months, b6 has tried to take at least one 30min-1hour walk per day,
despite how challenging it is with her symptoms.
I made simple if this is made a detail the property made but I the could be be belowed to see a second of the
l apologize if this is more detail than you need, but I thought it would be helpful to get a sense of the
progression of her symptoms, because of your neuroimmunology expertise, and to help guide our
discussion tomorrow.
Management of the cold of the form of the cold of the
We are very thankful that you are taking time out of your busy schedule to meet with us on Friday
morning on Zoom. We look forward to speaking with you.
Thank way
Thank you,
b6
On Mon, Jul 26, 2021 at 11:07 PM Nath, Avindra (NIH/NINDS) [E] b6 wrote:
off Work, Sur 20, 2021 at 11.07 TW Water, Avrilara (Willy Wildows) [2]
Dear b6
I am sorry to hear of b6 illness. I would be willing to talk to her to see what we can do to assist. I have copied
Warren who can help schedule a meeting.
0.
Avi

Avindra Nath MD
Chief, Section of Infections of the Nervous System
Clinical Director,
National Institute of Neurological Disorders and Stroke
National Institutes of Health, Bethesda, MD
b6
From: b6
Date: Monday, July 26, 2021 at 8:20 AM
To: Nath, Avindra (NIH/NINDS) [E] b6 Subject: COVID Vaccine Allergic Reaction - Paresthesias
Hi Dr. Nath,
My name is b6 and I'm b6 whose b6 has been suffering from paresthesias in arms and legs and face and has been not doing well overall since having an allergic reaction to polyethylene glycol in one dose of the Pfizer COVID vaccine, given b6 Since then, we have been working with her PCP, allergist and neurologist to try to diagnose and treat her symptoms through many diagnostic tests, with little success so far.
We have found support groups online for other people who have had similar reactions and trouble getting sufficient care from their providers due to the newness and complexity of their symptoms caused by the experimental vaccine. We heard your and Dr. Safavi's name from the NIH from b6 in one of the groups who is also suffering similar symptoms. She suggested that I contact you.
b6 and I have been wondering if you would be willing to offer any support or advice to us, or possibly offer guidance to her providers for her treatment, given your expertise in neuroimmunology. Please let us know either way. If so, I can write up a more detailed timeline of b6 symptoms. Thank you for taking the time to read this - we look forward to hearing from you.
Best,

From:		/O=EXCHANGELABS/OU=EXCHAN		
		ENTS/CN=B81CA051950B4D458D	74037A6A86EAD6 b6	
Sent:	12/30/2021 8:00:36 PM			
To:	b6 Re: [EXTERNAL] Re: Covid vaccin			
Subject:	Re. [EXTERNAL] Re. COVID VACCIII	ie fieurological issues		
It is just a h	nypothesis not a theory!			
From:	b6			
	rsday, December 30, 2021 at 1			
	Avindra (NIH/NINDS) [E]			
Subject: R	le: [EXTERNAL] Re: Covid vacci	ne neurological issues		
	his email originated from outside of are confident the content is safe.	the organization. Do not click linl	ks or open attachments unless you recog	nize the
	this theory? It is from the nejm to research after the holidays.	from November. I have been i	n contact with Dr Murphy and they m	nay do
b6 Sent from I				
On	Dec 26, 2021, at 9:20 AM,	b6	wrote:	
Dr	. Nath,			
Sor as eve a p an pla	rry to keep bothering you. I hope to why my symptoms are worse ening? I read that inflammation obssible answer? I really need to gything to treat symptoms unless asmaphoresis, high does vitamin to	in the morning upon waking a can be worst upon waking due get better. My own PCP and o there are studies that prove so C and other things. I know I sa	am wondering if you have any answe nd are mostly if not all the way gone to the body's circadian rhythm. Is thi ne of the neurologists I saw won't do omething works. I asked about IVIG, id I'm b6 'm hoping you and b6 will be abl	by is
Re	gards, b6			
Sei	nt from my iPhone			
	On Dec 21, 2021, at 8:26 AN wrote:	M, Nath, Avindra (NIH/NINDS)	[E] b6	
	Yes, I will be glad to talk to reasons for concern.	b6 should	be fine. I do not see any	

From: b6
Date: Tuesday, December 21, 2021 at 9:23 AM
To: Nath, Avindra (NIH/NINDS) [E] b6
Subject: [EXTERNAL] Re: Covid vaccine neurological issues
CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and are confident the content is safe.
Dr. Nath,
I am going to be seeing b6 The
immunologist I saw there had said that b6 is familiar with you. Is there any way you and b6 could collaborate on a care plan for me? I'm desperate to get back to a normal life with my family. Also, I was b6 when I got the shot on
recommendation by CDC, ACOG, SMFM. Also b6 approved etc. I
asked many providers when I was having an abnormal response to the vaccine if I
should b6 and all said b6 so we have been. Is b6
going to have issues from this then? I'm really worried about this whole situation. I die
have EMG done recently and it was b6 Thanks. Happy holidays.
Regards,
b6
Sent from my iPhone
On Nov 15, 2021, at 0:09 DM, Noth Avindra (NILL/NINDS) [5]
On Nov 15, 2021, at 9:08 PM, Nath, Avindra (NIH/NINDS) [E] b6
j
Dear b6
Sorry, that you have not been able to get adequate care. Avi
From: b6
Date: Monday, November 15, 2021 at 2:25 PM
To: Nath, Avindra (NIH/NINDS) [E] b6
Subject: Re: Covid vaccine neurological issues
Dr. Nath,
I contacted the doctors whom you mentioned. Most didn't reply and
one (the male doctor) responded and didn't seem to know much about
these reactions. I see on your profile you are a neuro-immunologist for
the nih. I am begging and pleading for these issues to be researched
further. I have been in contact from others around the world who have
had the same symptoms I have had and no one has answers. My neurologist wants to label me with b6 I
neurologist wants to label me with b6 land I don't buy that for one second. I am b6 land I
b6 I am giving you a link to an online forum
so you can read these people's posts. I'm begging for anyone to look
into this and to not give this Pfizer shot to kids! We need to know why
these neurological issues are happening. I read an online article with
you quoted in it regarding a reaction that was similar when these shots

were in trials and it was a concern then. What does the nih plan to do about this or the United States for that matter?

https://vestibular.org/forum/symptoms/tingling-numbness-in-body/paged/54/

Please help us.

Regards, **b6**

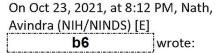
Sent from my iPhone

On Oct 23, 2021, at 8:25 PM	b6
b6 w	rote:

Thank you so much for this information. I don't live in New York but will travel anywhere to feel better. Will I be able to get around New York if I haven't been fully vaccinated? I have been advised to not get the second shot. My doctor would give me an exception letter too. Thank you so much for replying! You are a blessing. Have a great weekend!

Rega	rde
nege	11 43,
[
i	b6 :

Sent from my iPhone



Dear b6
Sorry to hear of your illness. If you live in the NY area, I would suggest seeing any of the following:



They are all well versed in these complications and will investigate and treat you.

Avi Avindra Nath MD Chief, Section of Infections of the Nervous System Clinical Director, National Institute of Neurological Disorders and Stroke National Institutes of Health, Bethesda, MD

b6

From: b6

Date: Friday, October 22, 2021 at

11:36 AM

To: Nath, Avindra (NIH/NINDS) [E]

b6

Subject: Covid vaccine neurological

issues

Good morning,

I'm writing to you today out of desperation. I'm looking for anyone who can help me recover after my first Pfizer vaccine. Almost immediately after receiving it I had lightening bolt of pain on the left side of my brain and after that I have had a multitude of symptoms. I felt electrical sensations all over my body with a revved up feeling internally. I had very deep sleep but also was not my normal sleep. I was having lucid nightmares. At one point I almost felt like I was losing my mind when I would go to sleep. That has gotten better but I am still having vivid dreams. I developed diarrhea, tinnitus, sensitivity to sound/light/touch, paresthesias in all limbs and numbness in limbs, headaches unlike any I have ever felt before, brain fog or difficulty concentrating, skin feeling sensitive and burnt but I haven't been in the sun, random areas of intermittent pain on my skin as well. I saw Dr. Thakur as an author of a review in a neurology journal and he mentioned talking with you. I got your email off of the internet. I have reached out to many others as well as Mayo Clinic and come up short. Please help me or point me in a direction of someone that can. I have 3

kids to care for that are	b6
b6	Thanks so
much.	
Regards,	
b6	

Sent from my iPhone

From: Sent: To: Subject:	Safavi, Farinaz (NIH/NINDS) [E] [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=94807CE146E045D4B61655DA26A0C246 b6 12/19/2021 12:25:11 PM b6 Re: [EXTERNAL] Re b6	
b6 please let m	hear that.You need to discuss b6 with your PCP or by presenting in local ED. e know if I can be any help to discuss it with your health care providers. el better soon.	
Farinaz		
To: Safavi, Fa	b6 , December 19, 2021 5:54:52 AM rinaz (NIH/NINDS) [E] b6 EXTERNAL] Re: b6	
	email originated from outside of the organization. Do not click links or open attachments unless you recognize the confident the content is safe.	
Hi Dr. Safav myalgias and Thanks b6	b6 I have the predicted symptoms of cough, low grade fever, congestion, headached arthralgias. Would you be able to refer me to b6	>,
https://www	te 13, 2021 at 6:21 PM b6 wrote: v.fda.gov/news-events/press-announcements/coronavirus-covid-19-update-fda-authorizes-new-monoclonal-antibodies-pre-exposure	
Another lin	k	
On Mon, D Hi, Here is the	ec 13, 2021 at 6:08 PM b6 wrote:	
https://ww individuals	w.empr.com/home/news/evusheld-authorized-for-pre-exposure-prophylaxis-of-covid-19-in-certains/	<u>1-</u>
b6		
Hi b6	Dec 13, 2021 at 6:04 PM Safavi, Farinaz (NIH/NINDS) [E] b6 wrote: please send me the original information and FDA link about this statement.	

Sarinaz Sarinaz Sarinaz Sarinaz Sarinaz Sarinaz Sarinaz Sarinaz Sarinaz Sarinaz Sarinaz Sarinaz Sarinaz Sarina
rom: b6
ent: Monday, December 13, 2021 5:55:45 PM
o: Safavi, Farinaz (NIH/NINDS) [E] b6
ubject: [EXTERNAL] Re: b6
AUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize t ender and are confident the content is safe.
Or. Safavi, On December 8th the FDA authorized new long acting monoclonal antibodies for pre exposure prevention on covid 19 for people with severe adverse reactions to the covid 19 vaccine.
On Fri, Nov 26, 2021 at 10:10 PM Safavi, Farinaz (NIH/NINDS) [E] b6 wrote: Hi b6 Based on discussions among our team,the consensus is not taking the booster shot since you had adverse
events after the vaccine. Of course, we defer the final decision to you since our suggestion is based on anecdotal experience and there is no solid epidemiological data. I cc Dr.Nath for further comments. Hope it helps. Farinaz
From: b6 Sent: Friday, November 26, 2021 9:06:07 PM To: Safavi, Farinaz (NIH/NINDS) [E] b6 Subject: b6
Hi, Dr. Safavi, I hope you had a great Thanksgiving. I have a question for you concerning if I should get a booster shot fo Covid considering my previous reaction. Should I attempt to get a pediatric dose? What are your thoughts' Feel free to call me to discuss. Thank you.
b6

From: Sent: To: Subject:	Safavi, Farinaz (NIH/NINDS) [E] [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=94807CE146E045D4B61655DA26A0C246 b6 5/19/2021 1:56:43 AM b6 Re: neurological complications of Pfizer vaccine	
Perfect! I will send yo Best Farinaz	ou MS teams link shortly.	
To: Safavi, Far	b6 7, May 18, 2021 5:09:37 PM rinaz (NIH/NINDS) [E] b6 eurological complications of Pfizer vaccine	
Dr. Safavi,		
Yes, I can do Sunday at 2-3 EST. Just let me know how we are to meet.		
Best, b6		
k	06	
	Farinaz (NIH/NINDS) [E] b6 y, May 18, 2021 3:42 PM	
То:	b6 eurological complications of Pfizer vaccine	
***************************************	CAUTION: External Sender	
Hi, Do you think s weekday next Best	Sunday works for you.I am flexible about time. Best will be 2-3pm ET?If not we can find a different week.	

Farinaz Safavi MD, PhD Division of Neuroimmunology and Neurovirology NINDS, NIH, Bethesda, MD

From: b6		
Sent: Tuesday, May 18, 2021 4:36 PM		
To: Nath, Avindra (NIH/NINDS) [E]; Safavi, Farinaz (NIH/NINDS) [E]		
Subject: Re: neurological complications of Pfizer vaccine		
Dear Dr. Nath,		
I appreciate your response very much and look forward to speaking with Dr. Safavi.		
Thank you again, and best wishes, b6		
b6		
From: Nath, Avindra (NIH/NINDS) [E] b6		
Sent: Tuesday, May 18, 2021 11:00 AM		
To: b6 Safavi, Farinaz (NIH/NINDS) [E] b6		
Subject: Re: neurological complications of Pfizer vaccine		
CAUTION: External Sender		
Dear b6		
Sorry to hear of your illness. I have copied Dr. Safavi, who is a neurologist working with me. She has kindly agreed to		
discuss your symptoms with you and see what we can do to help.		
With best wishes.		
Avi		
Avindra Nath MD		
Chief, Section of Infections of the Nervous System		
Clinical Director,		
National Institute of Neurological Disorders and Stroke		
National Institutes of Health, Bethesda, MD		
b6 (Office)		
Lauren (CCII)		
b6		
_ hc		
From: b6		
Date: Monday, May 17, 2021 at 8:09 AM		
To: Nath, Avindra (NIH/NINDS) [E]		
,		
b6		
,, ,.		
b6 Subject: neurological complications of Pfizer vaccine		
b6		
b6 Subject: neurological complications of Pfizer vaccine		

I write to you because of your connection with the <i>Annals of Neurology</i> podcast of March 12, 2021 ("ANA Investigates: Neurological Complications of COVID-19 Vaccines"). The podcast write-up was one of the few places where I have seen a clear statement* that some of the symptoms I've been experiencing have been associated with the vaccines. I hope that you will not mind my sharing my experience.
I received dose 1 of the Pfizer vaccine on b6 On b6 I began experiencing muscle twitching in the arch of my foot. Fairly quickly the muscle twitches/spasms spread over the whole of my body, and I also began to experience vibration sensations (especially in my feet but also in a few other places). Unfortunately, I did not immediately connect these strange new occurrences with the vaccine because no one else I knew had experienced them. This meant that I ended up getting dose 2 of Pfizer on b6 The muscle twitches/spasms and vibrations continue to this day, b6 One day last week, one of my big toes twitched while also vibrating for about 30 minutes. Since the condition is worse when I lie down or when my legs are outstretched, I have not slept in a bed for several days. Sometimes the twitches and sensations are visible to the eye, and sometimes they are not. Occasionally, I will also have shooting burning sensations and perhaps mild pins and needles sensations (though with the heightened awareness of my body it is hard to tell whether the latter are psychosomatic or real). My GP—the only doctor I have seen—also diagnosed b6 right now, but the idea that these symptoms are primarily rooted in anxiety is rubbish. (Incidentally, I have reported my symptoms to VAERS, and I do not pretend that they are the worst neurological symptoms.)
I understand that correlation is not causation, and in five years, I expect to read that a large-scale epidemiological study shows that the neurological effects allegedly associated with these vaccines cannot be definitively linked to them because the incidence was no greater than what one would expect to see in the general population, or something to that effect. Again, I do think this is rubbish in some cases.
Besides a general concern about a push to vaccinate young children for what is by no means a "childhood illness" like polio or the measles, I am of course concerned about whether the vaccine has done some sort of lasting damage to my body or prompted some horrific autoimmune disease. Unlike some vaccine neurology patients, I do not seem to be in the midst of an emergency, and I have been unable to get an in-network neurology appointment prior to September. I do know that my physical state could change for better or worse quite quickly.
I know that you are both incredibly busy men, so thank you for reading this long note. Any advice or suggestions you have would be most appreciated.
Best, b6
*"The most common neurological symptoms included dizziness, headache, pain, muscle spasms, myalgia, and paresthesias, which are expected to occur as acute, transient effects of the vaccination. Rare cases of tremor, diplopia, tinnitus, dysphonia, seizures, and reactivation of herpes zoster have been reported."
b6

b6

From:			LABS/OU=EXCHANGE ADMINISTRATIVE GROUP 17CE146E045D4B61655DA26A0C246 b6
Sent:	11/27/2021 3:05:58 AM		lanca and and and and and
То:	b6		
Subject:	Re: b6		
From:	b6		
Sent: Friday	, November 26, 2021 9:06	07 PM	
To: Safavi, F	arinaz (NIH/NINDS) [E]	b6	
Subject:	b6		-
Hi, Dr. Saf	Pavi,		
I hope you	had a great Thanksgiving	g. I have a question	on for you concerning if I should get a booster shot for
Covid cons	sidering my previous read	ction. Should I att	empt to get a pediatric dose? What are your thoughts? Feel
free to call	me to discuss.		
Thank you	•		

b6

From:	D6			
Sent:	3/9/2021 8:59:31 AM			
То:	Safavi, Farinaz (NIH/NINDS) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=94807ce146e045d4b61655da26a0c246 b6			
Subject:	ResponseSummary.pdf			
Attachments:	ResponseSummary.pdf			
	xtensive questionnaire listing some medical history of pre-exiting conditions as well as ration of my ongoing symptoms. This data may or may not be of use to you.			

















































































































From:	b6
Sent:	3/9/2021 7:32:42 AM Safavi, Farinaz (NIH/NINDS) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group
То:	(FYDIBOHF23SPDLT)/cn=Recipients/cn=94807ce146e045d4b61655da26a0c246 b6
Subject:	Re: 1 Year Covid Long Hauler
Dr Safavi,	
Here are screenshots of work-ups from the 5 ER visits, 2 urgent care visits, as well as labs from my various providers. These may come in several emails. I will include a .pdf of a symptom questionnaire I filled out last night for your reference.	
possibilities be an ear ache in fearful/bad fe shortness of be worsened and because she was not admittir. I was not admittir. I was not admittire. I would extreme exhalof months lat sensations compound in the continued such and frontal lottime. I would extreme exhalof months lat sensations compound in the continued such as the c	on the course of my illness is as follows. I am not certain where I was exposed to the virus. I suspect several but am not certain. I first felt symptoms on b6 It began with a sore throat on the right side with the right ear accompanied with a fever for several days. I felt massive all-body muscle pain and a reling. Those symptoms subsided and b6 It began feeling b6 Symptoms week. I was swabbed at an urgent care on b6 Symptoms of I went to the ER on b6 That doctor did not swab me again, but informed me that she didn't need to was convinced symptomatically that b6 Looking at my blood work and from her patients she had an an an an an an an an an an an an an
My primary residual symptoms after 1 year post Covid is massive chronic fatigue. Brain fog, not being able to focus on simple tasks.	
I received the Pfizer vaccine. 1st dose on b6 2nd dose b6 24 hours following I spiked a 102 fever with sweating, dizziness and headache. The sensations in the brain came back worse and with a vengeance coupled with the seizure like activity. The myoclonic like jolts go down all limbs, and now include a jerking of the head to the right. I feel these episodes before they happen from an increased sensation in the brain. Movements include full body at its worst. Most of time lately it involves only the left arm and leg along with the head jerking to the right. These episodes last anywhere from 8-20 hours. I tried getting help from the ER. They did not have access to an EEG. The MRI showed b6 This has been going on since b6 I took b6 and saw symptoms reduce the past few days with b6	
This is not a complete account of all of my symptoms, as it is extensive and a good place to start.	
I look forward to our visit tomorrow.	
b6	



> On Mar 6, 2021, at 9:08 PM,	b6	wrote:	
>		<u>.</u>	
> Dr. Safavi,			
>			
> Thank you for your correspondence. Tha	t time will work for me.		
>			
> I will collect my medical records for you	to review.		
>			
> b6			
>			
>> On Mar 5, 2021, at 7:43 PM, Safavi, Fa	rinaz (NIH/NINDS) [E]	b6	wrote:
>>	L		

From:	b 6	
Sent:	3/9/2021 8:24:08 AM	
То:	Safavi, Farinaz (NIH/NINDS) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=94807ce146e045d4b61655da26a0c246 b6	
Subject:	Re: 1 Year Covid Long Hauler	

Re: 1 Year Covid Long Hauler

Attachments cont.



> On Mar 6, 2021, at 9:08 PM,	b6	wrote:	
>			
> Dr. Safavi,			
>			
> Thank you for your correspondence. Th	at time will work for me.		
>			
> I will collect my medical records for you	u to review.		
>			
> b6			
>			
>> On Mar 5, 2021, at 7:43 PM, Safavi, F	arinaz (NIH/NINDS) [E]	b6	wrote:
>>			

From: **b6**Sent: 3/9/2021 8:55:23 AM

To: Safavi, Farinaz (NIH/NINDS) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=94807ce146e045d4b61655da26a0c246

b6

Subject: Re: 1 Year Covid Long Hauler

Attachments cont.



From:	b6
Sent:	3/9/2021 7:43:14 AM

To: Safavi, Farinaz (NIH/NINDS) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=94807ce146e045d4b61655da26a0c246 **b6**

Subject: Re: 1 Year Covid Long Hauler

Attachments cont.



> On Mar 6, 2021, at 9:08 PM, **b6** wrote: