**Supplemental Table 1:** Baseline characteristics between those who reported receiving a diagnosis of Long Covid and those who reported no diagnosis of Long Covid.

		<b>Overall</b> n=1,125	<b>No Long Covid</b> n=1031 (91.6%)	<b>Long Covid</b> n=94 (8.4%)
Aae. r	median (IQR)	45.0 (37.0 to 54.0)	45.0 (37.0 to 55.0)	45.0 (38.0 to 51.0)
Fema		631 (56.1)	561 (54.4)	70 (74.5)
Pregn		44 (3.9)	41 (4.0)	3 (3.2)
	Native American	24 (2.1)	21 (2.0)	3 (3.2)
	Asian	42 (3.7)	39 (3.8)	3 (3.2)
	Hawaiian / Pacific Islander	7 (0.6)	6 (0.6)	1 (1.1)
Race	Black	83 (7.4)	72 (7.0)	11 (11.7)
	White	932 (82.8)	855 (82.9)	77 (81.9)
	Other and unknown	70 (6.2)	68 (6.6)	2 (2.1)
Hispa	anic or Latino *	142 (12.7)	133 (13.0)	9 (9.7)
-	al history	= ( .= )		C (C.)
	nedian (IQR)	29.8 (27.0 to 34.2)	29.7 (26.8 to 33.9)	31.0 (27.5 to 36.0)
	$= 30 \text{ kg/m}^2$	548 (48.7)	497 (48.2)	51 (54.3)
	ovascular Disease	285 (25.3)	263 (25.5)	22 (23.4)
Diabe		17 (1.5)	17 (1.6)	0 (0.0)
Prima	ry vaccine before enrollment	618 (54.9)	577 (56.0)	41 (43.6)
Vaccir	ne booster before enrollment	57 (5.1)	56 (5.4)	1 (1.1)
Any V	accine after enrollment	160 (14.2)	144 (14.0)	16 (17.0)
	of symptoms before study nitiation, median (IQR)*	5 (4 to 6)	5 (4 to 6)	5 (4 to 6)
-	ays with Symptoms*	518 (46.8)	480 (47.4)	38 (40.4)
Variar	nt period			
	Alpha (before 6/19/ 2021)	63 (5.6)	58 (5.6)	5 (5.3)
	Delta (6/19 – 12/12/2021)	800 (71.1)	733 (71.1)	67 (71.3)
	Omicron (after 12/12/2021)	262 (23.3)	240 (23.3)	22 (23.4)
Insura	ance status	()		
	Private	703 (63.4)	651 (64.1)	52 (55.9)
	Medicare	79 (7.1)	70 (6.9)	9 (9.7)
	Medicaid	172 (15.5)	152 (15.0)	20 (21.5)
-	No insurance	154 (13.9)	142 (14.0) 520 (51.3)	12 (12.9)
	omized to metformin	564 (50.1)	529 (51.3)	35 (37.2)
	omized to ivermectin	377 (33.5)	347 (33.7)	30 (31.9)
Rande	omized to fluvoxamine	298 (26.5)	268 (26.0)	30 (31.9)

Values are n (%), median (interquartile range), or mean (<u>+</u>Standard Deviation).

Abbreviations: BMI = body mass index; IQR=inter-quartile range;

Cardiovascular disease defined as: hypertension, hyperlipidemia, coronary artery disease, past myocardial infarction, congestive heart failure, pacemaker, arrhythmias, or pulmonary hypertension.

\*missing n=18 for symptom duration; missing n=9 of Hispanic ethnicity

Supplemental Table 2. Cumulative incidence of Long Covid diagnoses.

Day	Blinded Control 29/361 (8.0%)	lvermectin 30/377 (8.0%)	Ivermectin Absolute Risk Reduction	Blinded Control 22/297 (7.4%)	Fluvoxamine 30/298 (10.1%)	Fluvoxamine Absolute Risk Reduction
60	1.9%	1.3%	0.6%	1.7%	1.0%	0.7%
00	(0.5% to 3.4%)	(0.2% to 2.5%)	(2.4% to -1.2%)	(0.2% to 3.1%)	(0.0% to 2.1%)	(2.5% to -1.2%)
120	3.9%	3.4%	0.4%	4.0%	3.0%	1.0%
120	(1.9% to 5.8%)	(1.6% to 5.3%)	(3.1% to -2.3%)	(1.8% to 6.3%)	(1.1% to 4.9%)	(4.0% to -1.9%)
180	5.5%	6.1%	-0.6%	5.4%	8.7%	-3.3%
100	(3.2% to 7.9%)	(3.7% to 8.5%)	(2.8% to -3.9%)	(2.8% to 7.9%)	(5.5% to 11.9%)	(0.8% to -7.4%)
040	7.5%	7.2%	0.3%	7.1%	9.4%	-2.3%
240	(4.7% to 10.2%)	(4.5% to 9.8%)	(4.1% to -3.4%)	(4.1% to 10.0%)	(6.0% to 12.7%)	(2.1% to -6.7%)
200	7.5%	8.0%	0.1%	7.5%	10.1%	-2.6%
300	(4.7% to 10.2%)	(5.2% to 10.8%)	(4.1% to -3.8%)	(4.4% to 10.5%)	(6.6% to 13.5%)	(1.9% to -7.2%)
	Hazard Ra	tio = 0.986 (0.592 t	o 1.643)	Hazard	Ratio= 1.360 (0.785 t	o 2.358)

Participants were randomized to ivermectin, fluvoxamine, or identical matched placebo. Ivermectin was dosed at 390 to 470 µg per kilogram per day for 3 days (median 430 µg/kg/day), and fluvoxamine dosed at 50 mg twice daily for 14 days.

## Supplemental Table 3.

## **Outcome Ascertainment**

Below is the question asked in monthly surveys for 9 months after completion of the acute phase of the trial (9 months after Day 28 of the trial). The questions, answer options with branching logic, that were analyzed for this manuscript are presented.

## We have a few questions about your health since you enrolled in the study:

1) Has a medical provider told you that you have "Long Covid" Yes/No

- If yes: "Approximately when? \_\_\_\_(month)"
- If yes: "Who Told you?"
  - My primary care provider;
  - A provider who specializes in Long Covid;
  - A specialist; then branching logic for: cardiologist; neurologist; pulmonologist; other:\_\_\_\_\_
  - A chiropractor;
  - Other:\_\_\_\_\_

## Supplemental Table 4.

## Overview of changes to the Protocol for adding assessments of Long Covid

# Overview of changes to the Protocol for adding assessments of Long Covid with links to clinicaltrials.gov

- The protocol version dates on the front page of each protocol.
- Only the first and final protocols were published with the first outcomes paper.
- We submit links to each version of the protocol after Long Covid was added:
  - April, 2021, <u>Version 3.1</u>: Long Covid / PASC was added as an outcome (section 3.1), initially under primary outcomes.
  - July, 2021, <u>Version 3.2</u>: Long Covid / PASC questionnaire was added as a protocol addendum
  - Sept, 2021, Version 3.3: small protocol changes, not related to PASC
  - Dec 8, 2021, <u>Version 3.4</u>: moved PASC down to secondary outcomes. This final version of the protocol was published on clinicaltrials.gov in January 20, 2022 while enrollment was still ongoing.
    - Text in protocol version 3.4:
      - "Portion of participants with Post-Acute Sequelae of SARS-CoV-2 Infection (PASC)
      - a. PASC assessment monthly after enrollment for 6 months to 12 months with the "Questionnaire to characterize long COVID." (Appendix G).<sup>62</sup>"

### **Statistical Analysis Plan**

- No changes to the Statistical Analysis Plan have been made since unblinding.
- The SAP was emailed to the DSMB on Feb 14, 2022, before unblinding to the primary outcome on Feb 15, 2022.
- The outcome assessors, patients, care providers and all investigators except the unblinded statistician and graduate student assistant still remain blinded to individual treatment allocation
- PASC is listed as an efficacy outcome in the SAP in section 5.1
- Section 6.4 gives details about how PASC will be analyzed

## **Overview changes regarding Long Covid or PASC on Clinical Trials.gov:**

1. On clinicaltrials.gov on May 3, 2021, this had been added to the study description:

"5. To understand if any of the active treatment arms prevent long-covid syndrome, PASC (post-acute sequelae of SARS-CoV-2 infection)."

2. On <u>clinicaltrials.gov</u> on <u>May 17, 2021</u> it had been added under primary outcome measures:

"Post-Acute Sequelae of SARS-CoV-2 Infection (PASC) Questionnaire [ Time Frame: 6 and 12 months ]

PASC assessment will be conducted monthly after enrollment for 6 months to 12 months with the Questionnaire to characterize long COVID. Outcome is reported as the percent of participants who report PASC any symptoms."

**3.** On clinical trials.gov on <u>Sept 30, 2021</u>, it had been moved down to secondary outcome measures:

"Post-Acute Sequelae of SARS-CoV-2 Infection (PASC) Questionnaire [ Time Frame: 6 and 12 months ]

PASC assessment will be conducted monthly after enrollment for 6 months to 12 months with the Questionnaire to characterize long COVID. Outcome is reported as the percent of participants who report PASC any symptoms."

**4.** On Clinical trials.gov on <u>Jan 20, 2022</u> (before enrollment finished), it was still in the study description and still a secondary outcome. The protocol was also uploaded to clinicaltrials.gov in Jan 2022 before enrollment was complete:

"Portion of participants with Post-Acute Sequelae of SARS-CoV-2 infection (PASC) [Time Frame: 6 and 12 months] PASC assessment will be conducted monthly after oncolliment for approximately 9 mor

PASC assessment will be conducted monthly after enrollment for approximately 9 months with the Questionnaire to characterize long COVID."

### Supplemental Table 5.

### **COVID-OUT Study Team**

Name	Institute	Location
Blake Anderson	Emory	Atlanta, GA
Riannon C Atwater	University of Colorado	Aurora, CO
Nandini Avula	University of Minnesota	Minneapolis, MN
Kenny B Beckman	University of Minnesota	Minneapolis, MN
Hrishikesh K Belani	Olive View - UCLA	Sylmar, CA
David R Boulware	University of Minnesota	Minneapolis, MN
Carolyn T Bramante	University of Minnesota	Minneapolis, MN
Jannis Brea	Northwestern University	Chicago, IL
Courtney A Broedlow	University of Minnesota	Minneapolis, MN
John B Buse	University of North Carolina	Chapel Hill, NC
Paula Campora	University of Minnesota	Minneapolis, MN
Anup Challa	Vanderbilt University	Nashville, TN
Jill Charles	University of Minnesota	Minneapolis, MN
Grace Christensen	University of Minnesota	Minneapolis, MN
Theresa Christiansen	M Health Fairview	Minneapolis, MN
Ken Cohen	Optum	Minnetonka, MN
Bo Connelly	University of Minnesota	Minneapolis, MN
Srijani Datta	University of Minnesota	Minneapolis, MN
Nikita Deng	University of Colorado	Aurora, CO
Alex T Dunn	Hennepin Healthcare	Minneapolis, MN
Spencer M Erickson	University of Minnesota	Minneapolis, MN
Faith M Fairbairn	University of Minnesota	Minneapolis, MN
Sarah L Fenno	University of Minnesota	Minneapolis, MN
Daniel J Fraser	University of Minnesota	Minneapolis, MN

**Regina D Fricton** Gwen Griffiths Aubrey A Hagen Katrina M Hartman Audrey F Hendrickson Jared D Huling Nicholas E Ingraham Arthur C Jeng Darrell M Johnson Amy B Karger Nichole R Klatt Erik A Kuehl Derek D LaBar Samuel Lee David M Liebovitz Sarah Lindberg Darlette G Luke Rosario Machicado Zeinab Mohamud Thomas A Murray Rumbidzai Ngonyama Jacinda M Nicklas David J Odde Elliott Parrens Daniela Parra Barkha Patel Jennifer L Proper Matthew F Pullen Michael A Puskarich Via Rao Neha V Reddy Naveen Reddy Katelyn J Rypka Hanna G Saveraid Paula Seloadji Arman Shahriar Nancy Sherwood Jamie L Siegart Lianne K Siegel

Feinberg School of Medicine, Northwestern University of Minnesota University of Minnesota University of Minnesota Hennepin Healthcare University of Minnesota University of Minnesota Olive View - UCLA University of Minnesota University of Minnesota University of Minnesota **M** Health Fairview M Health Fairview Feinberg School of Medicine, Northwestern Feinberg School of Medicine, Northwestern University of Minnesota M Health Fairview Olive View - UCLA University of Minnesota University of Minnesota University of Minnesota University of Colorado University of Minnesota M Health Fairview University of Minnesota University of Minnesota University of Minnesota University of Minnesota Hennepin Healthcare University of Minnesota University of Minnesota Northwestern University University of Minnesota University of Minnesota Olive View - UCLA University of Minnesota University of Minnesota University of Colorado University of Minnesota

Chicago, IL Minneapolis, MN Minneapolis, MN Minneapolis, MN Minneapolis, MN Minneapolis, MN Minneapolis, MN Sylmar, CA Minneapolis, MN Minneapolis, MN Minneapolis, MN Minneapolis, MN Minneapolis, MN Chicago, IL Chicago, IL Minneapolis, MN Minneapolis, MN Sylmar, CA Minneapolis, MN Minneapolis, MN Minneapolis, MN Aurora, CO Minneapolis, MN Chicago, IL Minneapolis, MN Minneapolis, MN Sylmar, CA Minneapolis, MN Minneapolis, MN Aurora, CO Minneapolis, MN

Lucas Simmons	University of Minnesota	Minneapolis, MN
Isabella Sinelli	University of Colorado	Aurora, CO
Palak Singh	University of Minnesota	Minneapolis, MN
Andrew Snyder	M Health Fairview	Minneapolis, MN
Maxwell T Stauffer	St. Olaf College	Northfield, MN
Jennifer Thompson	Vanderbilt University	Nashville, TN
Christopher J Tignanelli	University of Minnesota	Minneapolis, MN
Tannon L Tople	University of Minnesota	Minneapolis, MN
Walker J Tordsen	Hennepin Healthcare	Minneapolis, MN
Ray HB Watson	University of Minnesota	Minneapolis, MN
Beiqing Wu	University of Minnesota	Minneapolis, MN
Adnin Zaman	University of Colorado	Aurora, CO
Madeline R Zolik	M Health Fairview	Minneapolis, MN
Lena Zinkl	M Health Fairview	Minneapolis, MN