Figure SF1. Cumulative Incidence Plots for Suicide Attempts and Other Self-Directed Violence for COVID-19 and Matched Comparator Groups and Stratified by Sex

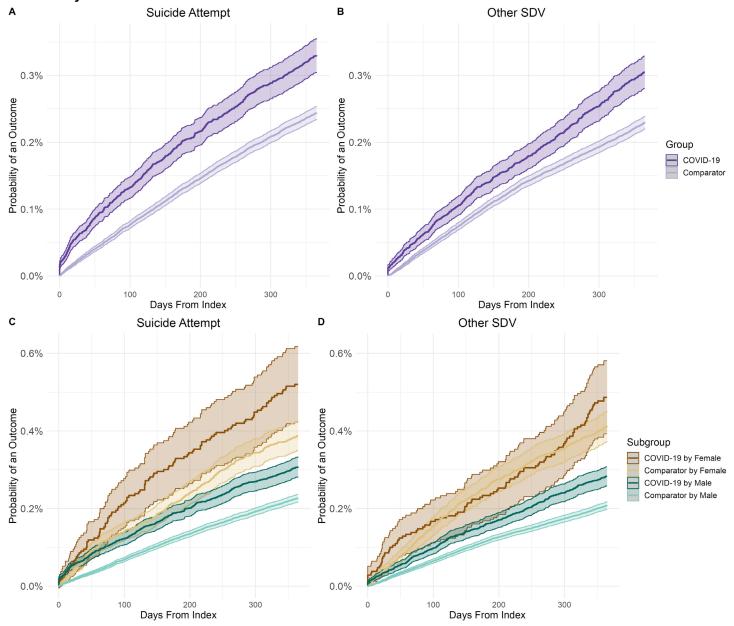


Figure SF1 Footnote: Cumulative Incidence Plots of the COVID-19 and Matched Comparator Groups for (A) Suicide Attempts, (B) Other Self-Directed Violence, (C) Suicide Attempts stratified by sex, and (D) Other Self-Directed Violence stratified by sex.

Figure SF2. Cumulative Incidence Plots for Suicide Attempts and Other Self-Directed Violence Stratified by Prior Suicide Attempt or Other SDV Event and by Prior Mental Health Visits in Two Years Prior to Index

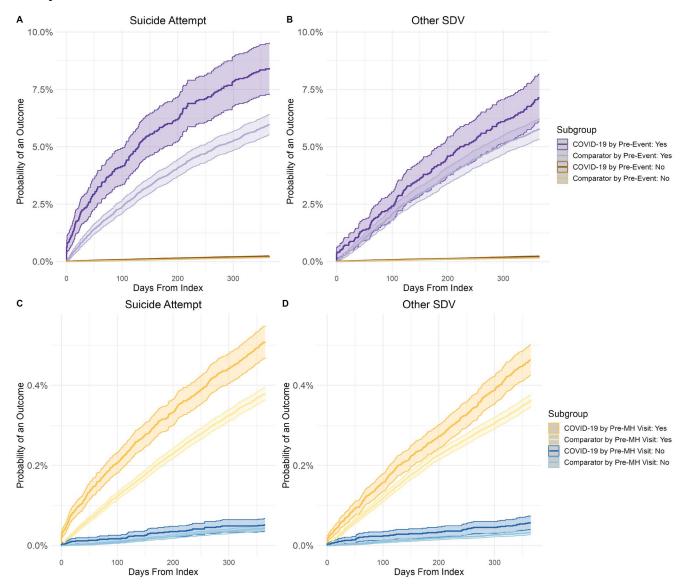


Figure SF2 Footnote: Cumulative Incidence Plots of the COVID-19 and Matched Comparator Groups for (A) Suicide Attempts stratified by prior suicide attempt or other SDV event, (B) Other Self-Directed Violence stratified by prior suicide attempt or other SDV event (C), Suicide Attempts stratified by prior mental health visits, and (D) Other Self-Directed Violence stratified by prior mental health visits. Vertical scale for probability of outcome differs between A/B and C/D. Abbreviations: MH: mental health.

Figure SF3: Cumulative Incidence Plots for Suicide Attempts and Other Self-Directed Violence Stratified by Race and by Ethnicity

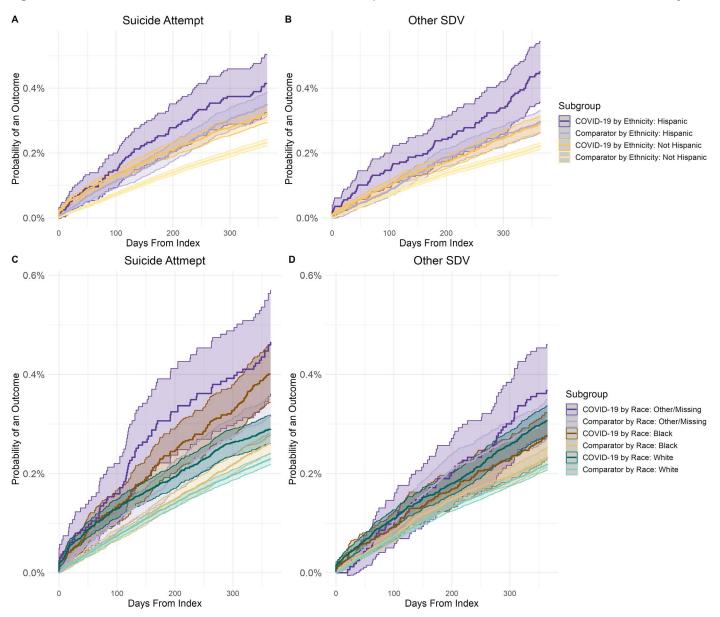


Figure SF3 Footnote: Cumulative Incidence Plots of the COVID-19 and Matched Comparator Groups for (A) Suicide Attempts stratified ethnicity, (B) Other Self-Directed Violence stratified by race, and (D) Other Self-Directed Violence stratified by race.

Table ST1. Specification of the Target Trial and Its Emulation

	Unethical Target Trial	Emulation
Goal	To test the effect of individual infection with SARS-CoV-2 on Suicide Attempts and other Self-Directed Violence	Same
Setting	VA nationwide system	Same
Inclusion Criteria	Veterans aged 18 and above in care in the VHA with an assigned primary care team for at least two years on randomization date, or who had at least one VHA primary care clinic visit in that period	Same
Exclusion Criteria	Previous SARS-CoV-2 Infection Address outside of DC or 50 States	Previous documented SARS-CoV-2 Infection in National Surveillance tool or Medicare-documented COVID-19 diagnosis or related diagnostic codes (ICD-10: B97.29, U07.1, J12.82, 179 Z86.16) listed in fee-for-service Medicare claims
		Address outside of DC or 50 States
		Missing or invalid key matching variables: CAN score, age, height, weight, ZIP code
		No suitable matches between SARS-CoV-2 infected patients and Comparator
Enrollment Period	March 1, 2020-March 31, 2021	Same
"Treatment" Strategies	Inoculum of SARS-CoV-2 sufficient to guarantee SARS- CoV-2 infection	SARS-CoV-2 Infection with a confirmatory PCR test for SARS-CoV-2 in VA National Surveillance Tool

Comparator Double-blinded inoculum of placebo Best matched Veteran with neither documented SARS-CoV-2 Infection in National Surveillance tool nor Medicare-documented COVID-19 diagnosis through
the month at which matched as a comparator
Approach to balancing confounders 1:1 Randomization Up to 5:1 (Comparator : COVID-19 group) Matching on 5 exact criteria and 37 propensity score criteria from VA data
Primary Outcome and Follow-up Patient reported suicide attempts or self-directed violence violence during days 1-30, 31- 365, and one year after the index date Suicide attempt or self-directed violence reported by patients to their VHA provider and recorded in the VA Office of Mental Health and Suicide Prevention (OMHSP) and electronic health records
Follow-up Period 1 year from inoculation SARS-CoV-2 infection; comparators began surveillance for outcomes from the same date ("index date", the emulated equivalent of "randomization and inoculation date") as that of their individually matched COVID-19 patient and were followed for 1 year
Planned 5 age groups, 2 sexes Same Subgroup Analyses
Causal Contrast Primary Analysis: Intention-to- Treat (ITT) without censoring Primary Analysis: ITT without censoring
Sensitivity analyses: Observational analog of the per-protocol effect, using multiple approaches given the 5:1 match rather than 1:1 in the Target Trial: PP1, which excludes individual Comparators at the follow-up moment when that comparator develops an infection; PP2, which excludes the matched

		strata at the moment of first infection in any of the matched Comparators in that strata.
Statistical analysis	Cox regression model to estimate the time to event. Stratification analysis for subgroups.	Same

Table ST1 Footnote: Abbreviations: VHA Veterans Health Administration; SARS-CoV-2 Severe acute respiratory syndrome coronavirus version 2; PCR polymerase chain reaction; COVID-19 Coronavirus disease 2019; ICD-10 International classification of disease tenth edition clinical modification; CAN Care Assessment Need Score; OMHSP Office of Mental Health and Suicide Prevention; ITT Intent to treat; PP Per protocol

Table ST2. Cox Regression Models for Suicide Attempts & Other Self-Directed Violence: Comparing Intent to Treat and Per Protocol Models with Additional Censoring

		N.I.	N. D.	D. L.	No. Persons	No. Persons			
	Group	No. Persons	No. Persons with Events (%)	Rate per 100,000 PY	Censored for Any Death (%)	Censored for Crossover (%)	Hazard Ratio	HR CI	P-Value
Short-Term Outcon	nes								
Suicide Attempts									
Intent to Treat	COVID-19	198,938	127 (0.06)	798	9,147 (4.60)	-	2.54	(2.05, 3.15)	<0.001
mont to ricat	Comparator	992,036	255 (0.03)	313	3,657 (0.37)	-	2.04	(2.00, 0.10)	10.001
Per Protocol 1	COVID-19	198,938	127 (0.06)	798	9,147 (4.60)	-	2.54	(2.05, 3.15)	<0.001
1 611 1010001 1	Comparator	992,036	255 (0.03)	314	3,583 (0.36)	3,312 (0.33)	2.04	(2.00, 0.10)	10.001
Per Protocol 2	COVID-19	198,938	126 (0.063)	797	6,791 (3.41)	3,206 (1.61)	2.52	(2.03, 3.13)	<0.001
1 611 10100012	Comparator	992,036	255 (0.026)	315	2,732 (0.28)	16,892 (1.70)	2.02	(2.00, 0.10)	10.001
Other SDV									
Intent to Treat	COVID-19	198,938	85 (0.04)	534	9,147 (4.60)	-	1.94	(1.51, 2.49)	<0.001
mont to mout	Comparator	992,036	224 (0.02)	275	3,657 (0.37)	-	1.01	(1.01, 2.10)	-0.001
Per Protocol 1	COVID-19	198,938	85 (0.04)	534	9,147 (4.60)	-	1.95	(1.51, 2.50)	<0.001
1 01 1 1010001 1	Comparator	992,036	223 (0.02)	274	3,583 (0.36)	3,311 (0.33)	1.00	(1.01, 2.00)	10.001
Per Protocol 2	COVID-19	198,938	85 (0.04)	537	6,790 (3.41)	3,206 (1.61)	1.95	(1.51, 2.5)	<0.001
	Comparator	992,036	223 (0.02)	276	2,732 (0.28)	16,897 (1.70)	1.00	(1.01, 2.0)	-0.001
Long-Term Outcom	nes								
Suicide Attempts									
Intent to Treat	COVID-19	198,938	555 (0.28)	328	17,347 (8.72)	-	1.30	(1.19, 1.43)	<0.001
intent to Treat	Comparator	992,036	2,223 (0.22)	250	42,894 (4.32)	-	1.50	(1.19, 1.43)	\0.001
Per Protocol 1	COVID-19	198,938	555 (0.28)	328	17,347 (8.72)	-	1.28	(1.16, 1.40)	<0.001
1 611 1010001 1	Comparator	992,036	2,212 (0.22)	256	39,430 (3.98)	50,728 (5.11)	1.20	(1.10, 1.40)	\0.001
Per Protocol 2	COVID-19	198,938	495 (0.249)	332	12,840 (6.45)	43,037 (21.63)	1.34	(1.21, 1.48)	<0.001
1 61 1 1010001 2	Comparator	992,036	1,930 (0.195)	247	30,818 (3.11)	225,458 (22.73)	1.04	(1.21, 1.40)	10.001
Other SDV									
Intent to Treat	COVID-19	198,938	534 (0.27)	315	17,344 (8.72)	-	1.32	(1.20, 1.45)	<0.001
intont to froat	Comparator	992,036	2,102 (0.21)	237	42,907 (4.33)	-	1.02	(1.20, 1.70)	-0.001
Per Protocol 1	COVID-19	198,938	534 (0.27)	315	17,344 (8.72)	-	1.29	(1.17, 1.42)	<0.001
. 5	Comparator	992,036	2,095 (0.21)	242	39,439 (3.98)	50,750 (45.12)	1.20	(1.17, 1.7 <i>L)</i>	.0.001

	Group	No. Persons	No. Persons with Events (%)	Rate per 100,000 PY	No. Persons Censored for Any Death (%)	No. Persons Censored for Crossover (%)	Hazard Ratio	HR CI	P-Value
Per Protocol 2	COVID-19	198,938	465 (0.23)	312	12,455 (6.26)	37,447 (18.82)	1.33	(1.2, 1.47)	<0.001
One-Year Outcome	Comparator es	992,036	1,815 (0.18)	232	28,234 (2.85)	196,080 (19.77)			
Suicide Attempts									
Intent to Treat	COVID-19 Comparator	198,938 992,036	657 (0.33) 2,421 (0.24)	355 250	17,337 (8.72) 42,885 (4.32)	- -	1.41	(1.30, 1.54)	<0.001
Per Protocol 1	COVID-19 Comparator	198,938 992,036	657 (0.33) 2,410 (0.24)	355 255	17,321 (8.71) 39,311 (3.96)	- 53,855 (5.43)	1.39	(1.27, 1.52)	<0.001
Per Protocol 2	COVID-19 Comparator	198,938 992,036	600 (0.302) 2,134 (0.215)	364 248	12,834 (6.45) 30,810 (3.11)	43,010 (21.62) 225,403 (22.72)	1.47	(1.34, 1.61)	<0.001
Other SDV	· · · · · · · · · · · · · · · · ·	,,,,,,	_, (, ,			, (,			
Intent to Treat	COVID-19 Comparator	198,938 992,036	606 (0.31) 2,281 (0.23)	327 235	17,325 (8.71) 42,778 (4.31)	- -	1.38	(1.26, 1.51)	<0.001
Per Protocol 1	COVID-19 Comparator	198,938 992,036	606 (0.31) 2,273 (0.23)	327 240	17,325 (8.71) 39,326 (3.96)	- 53,874 (5.43)	1.35	(1.23, 1.48)	<0.001
Per Protocol 2	COVID-19 Comparator	198,938 992,036	537 (0.27) 2,002 (0.20)	326 232	12,835 (6.45) 30,821 (3.11)	43,015 (21.62) 225,431 (22.72)	1.39	(1.26, 1.53)	<0.001

Table ST2 Footnote: Abbreviations: PY: Person Years; HR: Hazard Ratio; CI: 95% confidence interval; SDV: Other Self-Directed Violence.

Table ST3. Cox Regression Models for Suicide Attempts & Other Self-Directed Violence: Comparing Age Subgroups

	Age Subgroup (years)	Group	No. Persons	No. Persons with Events (%)	Rate per 100,00 0 PY	Rate CI	No. Persons Censored for Any Death	No. Persons Censored for Crossover	Hazard Ratio	HR CI	P-Value
Short-	Short-Term Outcomes (Days 1-30)										
Suicid	le Attempts										
	18-45	COVID-19 Comparator	39,539 209,935	54 (0.137) 135 (0.064)	1,664 783	(1221, 2108) (651, 915)	55 48	-	2.13	(1.55, 2.92)	<0.001
reat	46-59	COVID-19 Comparator	44,561 195,558	27 (0.061) 60 (0.031)	740 374	(461, 1019) (279, 468)	305 188	- -	1.98	(1.25, 3.13)	<0.001
Intent to Treat	60-64	COVID-19 Comparator	20,632 100,122	24 (0.116) 28 (0.028)	1,431 341	(859, 2004) (214, 467)	436 215	-	4.20	(2.46, 7.16)	<0.001
Inter	65-74	COVID-19 Comparator	53,087 279,642	13 (0.024) 25 (0.009)	307 109	(140, 474) (66, 152)	2,805 1,146	- -	2.80	(1.42, 5.52)	<0.001
	75-110	COVID-19 Comparator	41,119 206,779	<11 <11	289 41	(100, 478) (11, 72)	5,546 2,060	-	6.73	(2.51, 18.09)	<0.001
	18-45	COVID-19 Comparator	39,539 209,935	54 (0.137) 135 (0.064)	1,664 784	(1221, 2108) (652, 916)	55 47	- 761	2.12	(1.54, 2.92)	<0.001
ol 1	46-59	COVID-19 Comparator	44,561 195,558	27 (0.061) 60 (0.031)	740 374	(461, 1019) (279, 469)	305 182	- 800	1.98	(1.25, 3.12)	<0.001
Per Protocol	60-64	COVID-19 Comparator	20,632 100,122	24 (0.116) 28 (0.028)	1,431 341	(859, 2004) (215, 468)	436 208	- 382	4.19	(2.46, 7.15)	<0.001
Per	65-74	COVID-19 Comparator	53,087 279,642	13 (0.024) 25 (0.009)	307 109	(140, 474) (66, 152)	2,805 1,130	- 862	2.80	(1.42, 5.52)	<0.001
	75-110	COVID-19 Comparator	41,119 206,779	<11 <11	289 41	(100, 478) (11, 72)	5,546 2,016	- 507	6.73	(2.51, 18.08)	<0.001
Other	SDV										
ŧ	18-45	COVID-19 Comparator	39,539 209,935	39 (0.099) 114 (0.054)	1,202 661	(825, 1579) (540, 782)	55 48	-	1.82	(1.26, 2.62)	<0.001
Intent to Treat	46-59	COVID-19 Comparator	44,561 195,558	17 (0.038) 53 (0.027)	466 330	(244, 688) (241, 419)	305 188	-	1.41	(0.80, 2.48)	0.23
ntent t	60-64	COVID-19 Comparator	20,632 100,122	12 (0.058) 20 (0.020)	715 243	(311, 1120) (137, 350)	436 215	-	2.94	(1.37, 6.33)	0.01
<u> =</u>	65-74	COVID-19 Comparator	53,087 279,642	<11 32 (0.011)	189 140	(58, 320) (91, 188)	2,805 1,146	-	1.35	(0.62, 2.96)	0.45

	75-110	COVID-19 Comparator	41,119 206,779	<11 <11	289 30	(100, 478) (4, 55)	5,546 2,060	-	9.65	(3.25, 28.70)	<0.001
	18-45	COVID-19 Comparator	39,539 209,935	39 (0.099) 114 (0.054)	1,202 662	(825, 1579) (540, 783)	55 47	- 760	2.12	(1.54, 2.92)	<0.001
100	46-59	COVID-19 Comparator	44,561 195,558	17 (0.038) 53 (0.027)	466 330	(244, 688) (241, 419)	305 182	- 800	1.98	(1.25, 3.12)	<0.001
Per Protocol	60-64	COVID-19 Comparator	20,632 100,122	12 (0.058) 20 (0.020)	715 244	(311, 1120) (137, 351)	436 208	- 382	4.19	(2.46, 7.15)	<0.001
Per	65-74	COVID-19 Comparator	53,087 279,642	<11 32 (0.011)	189 140	(58, 320) (91, 188)	2,805 1,130	- 862	2.80	(1.42, 5.52)	<0.001
	75-110	COVID-19 Comparator	41,119 206,779	<11 <11	289 24	(100, 478) (0, 47)	5,546 2,016	- 507	6.73	(2.51, 18.08)	<0.001
Long-	Term Outcomes	(Days 31-365)									
Suicio	de Attempts										
	18-45	COVID-19 Comparator	39,539 209,935	254 (0.642) 1,069 (0.509)	704 557	(618, 791) (524, 591)	178 749	-	1.26	(1.10, 1.45)	<0.001
eat	46-59	COVID-19 Comparator	44,561 195,558	151 (0.339) 523 (0.267)	375 293	(315, 434) (268, 319)	705 2,104	-	1.28	(1.06, 1.54)	0.01
Intent to Treat	60-64	COVID-19 Comparator	20,632 100,122	64 (0.310) 270 (0.270)	351 299	(265, 437) (263, 334)	956 2,744	-	1.18	(0.89, 1.55)	0.25
Inten	65-74	COVID-19 Comparator	53,087 279,642	71 (0.134) 278 (0.099)	159 111	(122, 196) (98, 124)	5,442 13,684	-	1.43	(1.09, 1.87)	0.01
	75-110	COVID-19 Comparator	41,119 206,779	15 (0.036) 83 (0.040)	50 47	(25, 75) (37, 57)	10,066 23,613	-	1.43	(0.61, 1.87)	0.82
	18-45	COVID-19 Comparator	39,539 209,935	254 (0.642) 1,069 (0.509)	704 572	(618, 791) (538, 607)	178 700	- 12,295	1.23	(1.07, 1.42)	<0.001
1	46-59	COVID-19 Comparator	44,561 195,558	151 (0.339) 523 (0.267)	375 301	(315, 434) (275, 327)	705 1,887	12,693	1.25	(1.04, 1.5)	0.02
Per Protocol 1	60-64	COVID-19 Comparator	20,632 100,122	64 (0.310) 270 (0.270)	351 304	(265, 437) (267, 340)	956 2,473	- 5,856	1.16	(0.88, 1.53)	0.29
Per F	65-74	COVID-19 Comparator	53,087 279,642	71 (0.134) 278 (0.099)	159 113	(122, 196) (99, 126)	5,442 12,472	- 14,190	1.41	(1.08, 1.84)	0.01
	75-110	COVID-19 Comparator	41,119 206,779	15 (0.036) 83 (0.040)	50 47	(25, 75) (37, 57)	10,066 21,898	9,164	1.06	(0.61, 1.86)	0.84
Other	SDV		,	()		(- , -)	,				
Intent	18-45	COVID-19 Comparator	39,539 209,935	246 (0.622) 1,048 (0.499)	682 546	(597, 767) (513, 579)	175 746	-	1.25	(1.08, 1.44)	<0.001
<u>=</u>	46-59	COVID-19	44,561	152 (0.341)	377	(317, 437)	704	-	1.29	(1.07, 1.55)	0.01

		Comparator	195,558	522 (0.267)	293	(268, 318)	2,105	-			
	60-64	COVID-19	20,632	56 (0.271)	307	(227, 388)	958	-	1.34	(0.99, 1.81)	0.05
		Comparator	100,122	207 (0.207)	229	(198, 260)	2,746	-	1.34	(0.99, 1.01)	0.03
	65-74	COVID-19	53,087	60 (0.113)	134	(100, 168)	5,441	-	1.34	(1.01, 1.78)	0.04
		Comparator	279,642	251 (0.090)	100	(88, 113)	13,686	-	1.54	(1.01, 1.70)	0.04
	75-110	COVID-19	41,119	20 (0.049)	66	(37, 96)	10,066	-	1.60	(0.97, 2.63)	0.06
		Comparator	206,779	74 (0.036)	42	(32, 51)	23,624	-	1.00	(0.91, 2.03)	0.00
	18-45	COVID-19	39,539	246 (0.622)	682	(597, 767)	175	-	1.22	(1.06, 1.40)	0.01
		Comparator	209,935	1,048 (0.499)	561	(527, 595)	697	12,256	1.22	(1.00, 1.40)	0.01
_	46-59	COVID-19	44,561	152 (0.341)	377	(317, 437)	704	-	1.26	(1.04, 1.51)	0.02
8		Comparator	195,558	522 (0.267)	301	(275, 326)	1,888	12,487	1.20	(1.01, 1.01)	0.02
Per Protocol	60-64	COVID-19	20,632	56 (0.271)	307	(227, 388)	958	<u>-</u>	1.31	(0.97, 1.78)	0.08
P.		Comparator	100,122	207 (0.207)	234	(202, 266)	2,473	5,586		(5.51, 1.1.5)	
)er	65-74	COVID-19	53,087	60 (0.113)	134	(100, 168)	5,441	-	1.32	(0.99, 1.75)	0.06
		Comparator	279,642	251 (0.090)	102	(89, 115)	12,473	12,975		(, -,	
	75-110	COVID-19	41,119	20 (0.049)	66	(37, 96)	10,066	-	1.56	(0.95, 2.57)	0.08
		Comparator	206,779	74 (0.036)	42	(33, 52)	21,908	7,446			
One-	Year Outcomes										
Suicio	de Attempts										
	40.45	00)///0 40	20 520	005 (0.740)	754	(000 007)	477				
	18-45	COVID-19	39,539	295 (0.746)	751 504	(666, 837)	177	-	1.34	(1.18, 1.52)	< 0.001
	40.50	Comparator	209,935	1,173 (0.559)	561	(529, 594)	747	-			
at	46-59	COVID-19	44,561	174 (0.390)	396	(337, 455)	704	-	1.35	(1.14, 1.61)	<0.001
Tre	00.04	Comparator	195,558	568 (0.290)	292	(268, 317)	2,102	-		, ,	
Intent to Treat	60-64	COVID-19	20,632	82 (0.397)	413	(323, 502)	954	-	1.39	(1.09, 1.77)	0.01
int		Comparator	100,122	293 (0.293)	297	(263, 331)	2,742	-		, ,	
Inte	65-74	COVID-19	53,087	82 (0.154)	168	(131, 204)	5,439	-	1.53	(1.19, 1.97)	<0.001
		Comparator	279,642	298 (0.107)	109	(97, 122)	13,683	-		(, ,	
	75-110	COVID-19	41,119	24 (0.058)	72	(43, 101)	10,063	-	1.57	(0.99, 2.47)	0.05
		Comparator	206,779	89 (0.043)	46	(36, 55)	23,611	-		(0.00, 2.17)	
	18-45	COVID-19	39,539	295 (0.746)	751	(666, 837)	177	-	1.31	(1.15, 1.49)	<0.001
		Comparator	209,935	1,173 (0.559)	575	(542, 608)	698	12,240	1.01	(1.10, 1.40)	10.001
0	46-59	COVID-19	44,561	174 (0.390)	396	(337, 455)	704	-	1.33	(1.11, 1.58)	<0.001
00		Comparator	195,558	568 (0.290)	299	(275, 324)	1,885	12,473	1.00	(1.11, 1.00)	0.001
Per Protocol 1	60-64	COVID-19	20,632	82 (0.397)	413	(323, 502)	954	-	1.37	(1.07, 1.75)	0.01
٦. ٦		Comparator	100,122	293 (0.293)	302	(267, 336)	2,471	5,582	1.07	(1.07, 1.70)	0.01
Pe	65-74	COVID-19	53,087	82 (0.154)	168	(131, 204)	5,439	-	1.52	(1.18, 1.95)	<0.001
		Comparator	279,642	298 (0.107)	111	(98, 123)	12,471	12,976		,	
1	75-110	COVID-19	41,119	24 (0.058)	72	(43, 101)	10,063	-	1.56	(0.98, 2.47)	0.06

		Comparator	206,779	89 (0.043)	46	(36, 56)	21,896	7,448			
Other	SDV										
	18-45	COVID-19 Comparator	39,539 209,935	280 (0.708) 1,144 (0.545)	713 547	(629, 796) (516, 579)	175 742	-	1.30	(1.14, 1.49)	<0.001
	46-59	COVID-19 Comparator	44,561 195,558	167 (0.375) 560 (0.286)	380 288	(322, 438) (264, 312)	703 2,098	-	1.32	(1.10, 1.57)	<0.001
at	60-64	COVID-19 Comparator	20,632	63 (0.305) 219 (0.219)	317 222	(239, 395) (193, 251)	957 2,735	-	1.43	(1.07, 1.90)	0.01
to Treat	65-74	COVID-19	53,087	68 (0.128)	139	(106, 172)	5,434	-	1.36	(1.04, 1.78)	0.02
Intent to	75-110	Comparator COVID-19	279,642 41,119	279 (0.100) 28 (0.068)	102 84	(90, 114) (53, 116)	13,645 10,056	-	2.07	(1.34, 3.20)	<0.001
_=	40.45	Comparator	206,779	79 (0.038)	41	(32, 49)	23,558	-		(1.01, 0.20)	0.001
	18-45	COVID-19 Comparator	39,539 209,935	280 (0.708) 1,144 (0.545)	713 561	(629, 796) (528, 593)	175 693	- 12,213	1.27	(1.12, 1.45)	<0.001
<u>-</u>	46-59	COVID-19 Comparator	44,561 195,558	167 (0.375) 560 (0.286)	380 295	(322, 438) (271, 320)	703 1,882	- 12,623	1.29	(1.08, 1.54)	<0.001
rotoc	60-64	COVID-19 Comparator	20,632 100,122	63 (0.305) 219 (0.219)	317 227	(239, 395) (197, 257)	957 2,464	- 5,826	1.40	(1.05, 1.86)	0.02
Per Protocol	65-74	COVID-19	53,087 279,642	68 (0.128) 279 (0.100)	139 104	(106, 172)	5,434 12,437	-	1.34	(1.02, 1.75)	0.03
	75-110	Comparator COVID-19	41,119	28 (0.068)	84	(92, 116) (53, 116)	10,056	14,101	2.06	(1.33, 3.18)	<0.001
		Comparator	206,779	79 (0.038)	41	(32, 50)	21,850	9,111			

Table ST3 Footnote: Abbreviations: PY: Person Years; CI: 95% confidence interval; HR: Hazard Ratio; SDV: Other Self-Directed Violence

Table ST4. Cox Regression Models for Suicide Attempts & Other Self-Directed Violence: Comparing Sex Subgroups

	Subgroup	Group	No. Persons	No. Persons with Events (%)	Rate per 100,00 0 PY	Rate CI	No. Persons Censored for Any Death	No. Persons Censored for Crossover	Hazard Ratio	HR CI	P-Value
Short-	Term Outcomes	(Days 1-30)									
Suicide	e Attempts										
it to	Female	COVID-19 Comparator	20,962 104,294	17 (0.081) 55 (0.053)	992 642	(520, 1464) (472, 812)	185 89	-	1.57	(0.91, 2.72)	0.11
Intent to Treat	Male	COVID-19 Comparator	177,976 887,742	110 (0.062) 200 (0.023)	774 275	(630, 919) (237, 313)	8,962 3,568	-	2.84	(2.25, 3.59)	<0.001
1 100	Female	COVID-19 Comparator	20,962 104,294	17 (0.081) 55 (0.053)	992 643	(520, 1464) (473, 813)	185 87	- 403	1.57	(0.91, 2.72)	0.11
Per Protocol 1	Male	COVID-19 Comparator	177,976 887,742	110 (0.062) 200 (0.023)	774 275	(630, 919) (237, 313)	8,962 3,496	- 2,909	2.84	(2.24, 3.59)	<0.001
	Female	COVID-19 Comparator	20,962 104,294	17 (0.081) 55 (0.053)	999 647	(524, 1474) (476, 818)	129 66	400 1,989	1.57	(0.91, 2.72)	0.11
Per Protocol	Male	COVID-19 Comparator	177,976 887,742	110 (0.062) 200 (0.023)	772 277	(627, 917) (238, 315)	6,662 2,666	2,806 14,903	2.81	(2.22, 3.56)	<0.001
Other	SDV										
t to	Female	COVID-19 Comparator	20,962 104,294	18 (0.086) 50 (0.048)	1,050 584	(565, 1536) (422, 745)	185 89	-	1.84	(1.07, 3.15)	0.03
Intent Treat	Male	COVID-19 Comparator	177,976 887,742	67 (0.038) 174 (0.020)	472 239	(359, 585) (203, 274)	8,962 3,568	-	1.98	(1.49, 2.63)	<0.001
lood	Female	COVID-19 Comparator	20,962 104,294	18 (0.086) 50 (0.048)	1,050 585	(565, 1536) (423, 747)	185 89	- 402	1.83	(1.07, 3.14)	0.03
Per Protocol	Male	COVID-19 Comparator	177,976 887,742	67 (0.038) 174 (0.020)	472 238	(359, 585) (202, 273)	8,962 3,562	- 2,909	1.99	(1.50, 2.64)	<0.001
looc	Female	COVID-19 Comparator	20,962 104,294	18 (0.086) 50 (0.048)	1,058 576	(569, 1547) (415, 737)	129 66	400 1,990	1.88	(1.09, 3.22)	0.02
Per Protocol	Male	COVID-19 Comparator	177,976 887,742	67 (0.038) 174 (0.020)	475 241	(361, 588) (205, 276)	6,661 2,666	2,806 14,907	1.98	(1.49, 2.63)	<0.001
	erm Outcomes	(Days 31 -365))								
Suicide	e Attempts										

to to	Female	COVID-19	20,962	94 (0.448)	497	(397, 598)	403	-	1.31	(1.04, 1.65)	0.02
nt t		Comparator	104,294	366 (0.351)	385	(346, 425)	1,064	-		(- , ,	
Intent Treat	Male	COVID-19	177,976	461 (0.259)	306	(279, 334)	16,944	-	1.30	(1.18, 1.45)	<0.001
= -		Comparator	887,742	1,857 (0.209)	234	(223, 245)	41,830	-	1.00	(1110, 1110)	0.001
_	Female	COVID-19	20,962	94 (0.448)	497	(397, 598)	403	-	1.28	(1.02, 1.61)	0.03
		Comparator	104,294	366 (0.351)	394	(354, 435)	965	6,345	1.20	(1.02, 1.01)	0.00
Per Protocol	Male	COVID-19	177,976	461 (0.259)	306	(279, 334)	16,944	-	1.28	(1.15, 1.42)	<0.001
а а		Comparator	887,742	1,857 (0.209)	239	(228, 250)	38,465	44,383	1.20	(1.10, 1.42)	10.001
_	Female	COVID-19	20,962	94 (0.448)	499	(391, 607)	289	5,476	1.35	(1.05, 1.72)	0.02
Per Protocol		Comparator	104,294	366 (0.351)	377	(335, 418)	710	27,597	1.00	(1.00, 1.72)	0.02
e er	Male	COVID-19	177,976	461 (0.259)	312	(282, 342)	12,551	37,561	1.34	(1.20, 1.50)	<0.001
J		Comparator	887,742	1,857 (0.209)	232	(220, 243)	30,108	197,861	1.04	(1.20, 1.00)	١٥.٥٥١
Other	SDV										
	Female	COVID-19	20,962	87 (0.415)	460	(363, 556)	401	-	1.13	(0.90, 1.44)	0.29
+ t		Comparator	104,294	390 (0.374)	411	(370, 451)	1,064	-	1.13	(0.90, 1.44)	0.29
Intent to Treat	Male	COVID-19	177,976	447 (0.251)	297	(270, 325)	16,943	-	4.00	(4.00.4.54)	-0.001
⊆ ⊢		Comparator	887,742	1,712 (0.193)	216	(206, 226)	41,843	-	1.36	(1.22, 1.51)	<0.001
	Female	COVID-19	20,962	87 (0.415)	460	(363, 556)	401	-	4.44	(0.07.4.40)	0.40
Per Protocol		Comparator	104,294	390 (0.374)	420	(378, 462)	1,064	6,337	1.11	(0.87, 1.40)	0.40
er otc	Male	COVID-19	177,976	447 (0.251)	297	(270, 325)	16,943	-	4.00	(4.00.4.40)	-0.004
9 9		Comparator	887,742	1,712 (0.193)	221	(210, 231)	41,845	44,413	1.33	(1.20, 1.48)	<0.001
_	Female	COVID-19	20,962	87 (0.415)	438	(337, 539)	288	5,477	4.00	(0.04.4.40)	0.55
Per Protocol		Comparator	104,294	390 (0.374)	411	(367, 454)	709	27,582	1.08	(0.84, 1.40)	0.55
ᇦᇕ	Male	COVID-19	177,976	447 (0.251)	297	(267, 326)	12,550	37,555	4.00	(4.04.4.55)	10.001
مّ م		Comparator	887,742	1,712 (0.193)	211	(200, 222)	30,114	197,908	1.39	(1.24, 1.55)	<0.001
One-Y	ear Outcomes (Days 1-365)		, and the second		,					
Suicid	le Attempts										
	Female	COVID-19	20,962	109 (0.520)	529	(430, 628)	403	-	4.0=	(4.44.4.76)	0.004
t		Comparator	104,294	404 (0.387)	390	(352, 428)	1,062	_	1.37	(1.11, 1.70)	<0.001
ent	Male	COVID-19	177,976	548 (0.308)	333	(305, 361)	16,918	-			
Intent to Treat		Comparator	887,742	2,017 (0.227)	233	(223, 243)	41,698	_	1.43	(1.30, 1.57)	<0.001
	Female	COVID-19	20,962	109 (0.520)	529	(430, 628)	403	-			
Per Protocol		Comparator	104,294	404 (0.387)	399	(360, 438)	963	6,298	1.35	(1.09, 1.67)	0.01
r g	Male	COVID-19	177,976	548 (0.308)	333	(305, 361)	16,918	-			
Pe	iviaic	Comparator	887,742	2,017 (0.227)	237	(227, 248)	38,348	44,087	1.40	(1.28, 1.54)	<0.001
	Female	COVID-19	20,962	109 (0.520)	535	(429, 642)	289	5,475			
r Pe	Female	Comparator	104,294	404 (0.387)	385	(345, 426)	709	27,585	1.41	(1.12, 1.76)	<0.001
1 -		Comparator	104,294	404 (0.307)	300	(343, 420)	109	21,303			

	Male	COVID-19 Comparator	177,976 887,742	548 (0.308) 2,017 (0.227)	343 231	(313, 373) (221, 242)	12,545 30,101	37,535 197,818	1.48	(1.34, 1.64)	<0.001
Other S	SDV										
t t	Female	COVID-19 Comparator	20,962 104,294	102 (0.487) 430 (0.412)	495 415	(399, 591) (376, 455)	401 1,063	-	1.21	(0.97, 1.50)	0.09
Intent Treat	Male	COVID-19 Comparator	177,976 887,742	504 (0.283) 1,851 (0.209)	306 214	(280, 333) (204, 224)	16,924 41,715	-	1.42	(1.28, 1.57)	<0.001
000	Female	COVID-19 Comparator	20,962 104,294	102 (0.487) 430 (0.412)	495 424	(399, 591) (384, 465)	401 1,063	- 6,288	1.18	(0.95, 1.47)	0.14
Per Protocol	Male	COVID-19 Comparator	177,976 887,742	504 (0.283) 1,851 (0.209)	306 218	(280, 333) (208, 228)	16,924 41,733	- 44,116	1.39	(1.26, 1.54)	<0.001
looc	Female	COVID-19 Comparator	20,962 104,294	102 (0.487) 430 (0.412)	480 418	(379, 580) (376, 460)	288 708	5,474 27,565	1.16	(0.92, 1.47)	0.21
Per Protocol	Male	COVID-19 Comparator	177,976 887,742	504 (0.283) 1,851 (0.209)	307 210	(279, 335) (200, 221)	12,547 30,113	37,541 197,866	1.45	(1.30, 1.61)	<0.001

Table ST4 Footnote: Abbreviations: PY: Person Years; CI: 95% confidence interval; HR: Hazard Ratio; SDV: Other Self-Directed Violence

Table ST5. Cox Regression Models for Suicide Attempts & Other Self-Directed Violence: Comparing Combined Prior Suicide Attempt or Other SDV Events in Two Years Prior to Index

	Subgroup	Group	No. Persons	No. Persons with Events (%)	Rate per 100,00 0 PY	Rate CI	No. Persons Censored for Any Death	No. Persons Censored for Crossover	Hazard Ratio	HR CI	P-Value
Short-	Term Outcomes	(Days 1-30)									
Suicide	e Attempts										
	SA /SDV Before Index	COVID-19	2,396	54 (2.254)	28,055	(20,572, 35,538)	32	-	2.47	(1.77, 3.44)	<0.001
Q		Comparator	11,015	102 (0.926)	11,341	(9,140, 13,542)	39	-		(,,	
Intent t Treat	No SA /SDV Before Index	COVID-19	196,542	73 (0.037)	464	(358, 571)	9,115	-	2.43	(1.84, 3.22)	<0.001
를 를	Boloro maox	Comparator	981,021	153 (0.016)	190	(160, 220)	3,618	-	2.40	(1.04, 0.22)	10.001
00	SA /SDV Before Index	COVID-19	2,396	21 (0.876)	28,055	(20,572, 35,538)	32	-	2.47	(1.77, 3.43)	<0.001
oto	N. 04 (0D)	Comparator	11,015	66 (0.599)	11,362	(9,157, 13,566)	39	40			
Per Protocol	No SA /SDV Before Index	COVID-19	196,542	64 (0.033)	464	(358, 571)	9,115	-	2.43	(1.83, 3.21)	<0.001
J		Comparator	981,021	157 (0.016)	190	(160, 221)	3,544	3,584	-	, , , ,	
Other	SDV										
	SA /SDV Before Index	COVID-19	2,396	21 (0.876)	939	(537, 1,340)	32	-	1.48	(0.90, 2.42)	0.12
0		Comparator	11,015	66 (0.599)	629	(477, 781)	39	-		(===, == =,	****
Intent to Treat	No SA /SDV Before Index	COVID-19	196,542	64 (0.033)	35	(26, 44)	9,115	-	2.07	(1.54, 2.78)	<0.001
ΞĽ		Comparator	981,021	158 (0.016)	16	(14, 19)	3,618	-		(- , - ,	
<u> </u>	SA /SDV Before Index	COVID-19	2,396	21 (0.876)	939	(537, 1,340)	32	-	1.47	(0.90, 2.42)	0.12
otoc		Comparator	11,015	66 (0.599)	649	(493, 806)	39	41		(0.00, 2.12)	0.12
Per Protocol	No SA /SDV Before Index	COVID-19	196,542	64 (0.033)	35	(26, 44)	9,115	-	2.08	(1.55, 2.8)	<0.001
	231010 11140/	Comparator	981,021	157 (0.016)	17	(14, 19)	3,544	3,589		(1.00, 2.0)	10.001
Long-1	Term Outcomes	(Days 31-365)									
Suicide	e Attempts										

	SA /SDV Before Index	COVID-19	2,396	163 (6.803)	7,967	(6,744, 9,190)	97	-	1.29	(1.08, 1.54)	<0.001
o.		Comparator	11,015	593 (5.384)	6,155	(5,660, 6,651)	306	-	1.20	(1.00, 1.01)	0.001
Intent to Treat	No SA /SDV Before Index	COVID-19	196,542	392 (0.199)	234	(211, 258)	17,250	-	1.26	(1.13, 1.41)	<0.001
声片		Comparator	981,021	1,630 (0.166)	186	(177, 195)	42,588	-		(,	0.00.
<u>0</u>	SA /SDV Before Index	COVID-19	2,396	163 (6.803)	7,967	(6,744, 9,190)	97	-	1.26	(1.05, 1.50)	0.01
oto		Comparator	11,015	592 (5.374)	6,363	(5,850, 6,875)	306	785		, ,	
Per Protocol	No SA /SDV Before Index	COVID-19	196,542	392 (0.199)	234	(211, 258)	17,250	-	1.24	(1.11, 1.39)	<0.001
		Comparator	981,021	1,620 (0.165)	189	(180, 198)	42,594	53,494		, ,	
Other S	SDV										
	SA /SDV Before Index	COVID-19	2,396	157 (6.553)	7,018	(5,920, 8,116)	95	-	1.24	(1.04, 1.48)	0.02
o l		Comparator	11,015	592 (5.374)	5,641	(5,186, 6,095)	311	-		(1101, 1110)	0.02
Intent to Treat	No SA /SDV Before Index	COVID-19	196,542	377 (0.192)	206	(185, 227)	17,249	-	1.31	(1.17, 1.47)	<0.001
드는		Comparator	981,021	1,510 (0.154)	157	(150, 165)	42,596	-			
00	SA /SDV Before Index	COVID-19	2,396	157 (6.553)	7,018	(5,920, 8,116)	95	-	1.21	(1.01, 1.44)	0.04
oto	N. 04 (05) (Comparator	11,015	591 (5.3765	5,814	(5,346, 6,283)	311	798		,	
Per Protocol	No SA /SDV Before Index	COVID-19	196,542	377 (0.192)	206	(185, 227)	17,249	-	1.28	(1.15, 1.44)	<0.001
₽ ←		Comparator	981,021	1,504 (0.153)	161	(152, 169)	42,598	53,512			
One-Y	ear Outcomes										
Suicide	e Attempts										
	SA /SDV Before Index	COVID-19	2,396	202 (8.431)	9,188	(7,921, 10,455)	95	-	1 46	(4.04. 4.74)	<0.001
0	Delore index	Comparator	11,015	658 (5.974)	6,288	(5,807, 6,768)	301	-	1.46	(1.24, 1.71)	<0.001
Intent to Treat	No SA /SDV Before Index	COVID-19	196,542	455 (0.232)	249	(226, 272)	17,242	-	1.35	(1.22, 1.50)	<0.001
를	Boloro maox	Comparator	981,021	1,763 (0.180)	184	(175, 192)	42,584	-	1.00	(1.22, 1.00)	10.001
00	SA /SDV Before Index	COVID-19	2,396	171 (7.137)	9,188	(7,921, 10,455)	95	-	1.42	(1.21, 1.68)	<0.001
otoc		Comparator	11,015	636 (5.774)	6,482	(5,986, 6,977)	282	785		(,)	3.30
Per Protocol	No SA /SDV Before Index	COVID-19	196,542	435 (0.221)	249	(226, 272)	17,242	-	1.33	(1.20, 1.48)	<0.001
		Comparator	981,021	1,637 (0.167)	187	(178, 196)	39,049	53,494		(-,,	
Other S	SDV										

	SA /SDV Before Index	COVID-19	2,396	171 (7.137)	7,644	(6,498, 8,789)	95	-	1.26	(1.06, 1.49)	0.01
9		Comparator	11,015	637 (5.783)	6,070	(5,598, 6,541)	310	-		,	
Intent t Treat	No SA /SDV Before Index	COVID-19	196,542	435 (0.221)	238	(215, 260)	17,246	-	1.39	(1.25, 1.54)	<0.001
≟≒		Comparator	981,021	1,644 (0.168)	171	(163, 180)	42,594	-		(-, - ,	
00	SA /SDV Before Index	COVID-19	2,396	171 (7.137)	7,644	(6,498, 8,789)	95	-	1.23	(1.03, 1.46)	0.02
Protocol		Comparator	11,015	636 (5.774)	6,257	(5,771, 6,743)	291	794		(,,	
Per Pro	No SA /SDV Before Index	COVID-19	196,542	435 (0.221)	238	(215, 260)	17,246	-	1.36	(1.22, 1.52)	<0.001
₫ ←		Comparator	981,021	1,637 (0.167)	175	(166, 183)	39,056	53,504		, ,	

Table ST5 Footnote: One or more events (suicide attempt or other self-directed violence) in the two years prior to index date; Abbreviations: PY: Person Years; CI: 95% confidence interval; HR: Hazard Ratio; SA: Suicide Attempt; SDV: Other Self-Directed Violence

Table ST6. Cox Regression Models for Suicide Attempts & Other Self-Directed Violence: Comparing Mental Health Visits in Two Years Prior to Index

	Subgroup	Group	No. Persons	No. Persons with Events (%)	Rate per 100,00 0 PY	Rate CI	No. Persons Censored for Any Death	No. Persons Censored for Crossover	Hazard Ratio	HR CI	P-Value
Short-	Term Outcomes	(Days 1-30)									
Suicide	e Attempts										
	MH Visit Before Index	COVID-19	121,309	118 (0.097)	1,213	(994, 1,432)	5,168	-	2.38	(1.91, 2.96)	<0.001
£	NI. MILLYCOL	Comparator	592,437	247 (0.042)	508	(445, 572)	2,245	-			
Intent 1 Treat	No MH Visit Before Index	COVID-19	77,629	<11	145	(50, 240)	3,979	-	5.91	(2.15, 16.27)	<0.001
ī Ţ		Comparator	399,599	<11	24	(7, 41)	1,412	-	0.01	(2.10, 10.21)	0.001
<u>0</u>	MH Visit Before Index	COVID-19	121,309	118 (0.097)	1,213	(994, 1,432)	5,168	-	2.38	(1.91, 2.96)	<0.001
Protocol		Comparator	592,437	247 (0.042)	509	(446, 573)	2,207	2,498	2.00	(1.01, 2.00)	0.001
Per Pr	No MH Visit Before Index	COVID-19	77,629	<11	145	(50, 240)	3,979	-	5.91	(2.14, 16.26)	<0.001
		Comparator	399,599	<11	24	(8, 41)	1,376	1,132		, , , ,	
Other	SDV										
	MH Visit Before Index	COVID-19	121,309	76 (0.063)	67	(52, 82)	5,167	-	1.76	(1.35, 2.30)	<0.001
Q.		Comparator	592,437	215 (0.036)	37	(32, 42)	2,245	-			
Intent to Treat	No MH Visit Before Index	COVID-19	77,629	<11	13	(4, 21)	3,980	-	5.27	(1.82, 15.28)	<0.001
声片		Comparator	399,599	<11	2	(1, 4)	1,412	-	<u> </u>	(1.02, 10.20)	0.001
<u> </u>	MH Visit Before Index	COVID-19	121,309	76 (0.063)	67	(52, 82)	5,167	-	1.77	(1.36, 2.31)	<0.001
otoc		Comparator	592,437	214 (0.036)	38	(33, 43)	2,207	2,498		(1100, 2101)	0.00
Per Protocol	No MH Visit Before Index	COVID-19	77,629	<11	13	(4, 21)	3,980	-	5.27	(1.82, 15.27)	<0.001
₫ ←		Comparator	399,599	<11	2	(1, 4)	1,376	1,132		, ,	
Long-1	Term Outcomes	(Days 31-365)									
Suicide	e Attempts										
Int	MH Visit Before Index	COVID-19	121,309	523 (0.431)	505	(462, 548)	10,197	-	1.30	(1.18, 1.43)	<0.001

		Comparator	592,437	2,059 (0.348)	388	(372, 405)	25,065	-			
	No MH Visit Before Index	COVID-19	77,629	32 (0.041)	49	(32, 66)	7,150	-	1.06	(0.72, 1.56)	0.76
		Comparator	399,599	164 (0.041)	46	(39, 53)	17,829	-	1.00	(0.72, 1.00)	0.70
00	MH Visit Before Index	COVID-19	121,309	523 (0.431)	505	(462, 548)	10,197	-	1.27	(1.15, 1.40)	<0.001
otoc		Comparator	592,437	2,049 (0.346)	398	(381, 415)	25,070	37,319	,	(1110, 1110)	0.001
Per Protocol	No MH Visit Before Index	COVID-19	77,629	32 (0.041)	49	(32, 66)	7,150	-	1.05	(0.71, 1.54)	0.81
J		Comparator	399,599	163 (0.041)	46	(39, 54)	17,830	16,969	1.00	(0.71, 1.04)	0.01
Other	SDV										
	MH Visit Before Index	COVID-19	121,309	497 (0.410)	439	(400, 477)	10,194	-	1.29	(1.16, 1.42)	<0.001
٩		Comparator	592,437	1,978 (0.334)	342	(327, 357)	25,078	-		(-, ,	
Intent to Treat	No MH Visit Before Index	COVID-19	77,629	37 (0.048)	51	(35, 68)	7,150	-	1.62	(1.12, 2.35)	0.01
를 투		Comparator	399,599	124 (0.031)	32	(26, 37)	17,829	-	1.02	(1.12, 2.00)	0.01
0	MH Visit Before Index	COVID-19	121,309	497 (0.410)	439	(400, 477)	10,194	-	1.25	(1.14, 1.39)	<0.001
otoc		Comparator	592,437	1,972 (0.333)	350	(335, 366)	25,079	37,342	0	(,)	0.00
Per Protocol	No MH Visit Before Index	COVID-19	77,629	37 (0.048)	51	(35, 68)	7,150	-	1.60	(1.11, 2.32)	0.01
~ ←		Comparator	399,599	123 (0.033)	32	(26, 38)	17,830	16,968	1.00	(1111, 2.02)	0.01
One-Y	ear Outcomes										
Suicide	e Attempts										
	MH Visit Before Index	COVID-19	121,309	617 (0.509)	545	(502, 588)	10,189	-	1.40	(1.28, 1.53)	<0.001
0		Comparator	592,437	2,249 (0.380)	389	(373, 405)	25,056	-	1.10	(1.20, 1.00)	10.001
Intent to Treat	No MH Visit Before Index	COVID-19	77,629	40 (0.052)	56	(38, 73)	7,148	-	1.26	(0.89, 1.79)	0.19
‡ =		Comparator	399,599	172 (0.043)	44	(37, 51)	17,829	-	1.20	(0.09, 1.79)	0.19
00	MH Visit Before Index	COVID-19	121,309	617 (0.509)	545	(502, 588)	10,189	-	1.37	(1.25, 1.50)	<0.001
otoc		Comparator	592,437	2,239 (0.378)	398	(381, 414)	22,818	37,310		(1.20, 1.00)	0.001
Per Protocol	No MH Visit Before Index	COVID-19	77,629	40 (0.052)	56	(38, 73)	7,148	-	1.25	(0.88, 1.77)	0.22
1		Comparator	399,599	171 (0.043)	45	(38, 51)	16,513	16,969	20	(0.00, 1.77)	V.22
Other	SDV										

	MH Visit Before Index	COVID-19	121,309	562 (0.463)	496	(455, 537)	10,193	-	1.34	(1.22, 1.47)	<0.001
Q		Comparator	592,437	2,148 (0.363)	371	(356, 387)	25,075	-		(,,	
Intent to	No MH Visit Before Index	COVID-19	77,629	44 (0.057)	61	(43, 79)	7,148	-	1.79	(1.27, 2.53)	<0.001
트뉴		Comparator	399,599	133 (0.033)	34	(28, 40)	17,829	-		, , ,	
los	MH Visit Before Index	COVID-19	121,309	562 (0.463)	496	(455, 537)	10,193	-	1.31	(1.19, 1.44)	<0.001
Protocol		Comparator	592,437	2,141 (0.361)	380	(364, 396)	22,834	37,330		, ,	
	No MH Visit Before Index	COVID-19	77,629	44 (0.057)	61	(43, 79)	7,148	-	1.78	(1.26, 2.51)	<0.001
Per 1		Comparator	399,599	132 (0.033)	34	(29, 40)	16,513	16,968		, , , ,	

Table ST6 Footnote: One or more mental health visits in the two years prior to index date; Abbreviations: PY: Person Years; CI: 95% confidence interval; HR: Hazard Ratio; MH: mental health; SDV: Other Self-Directed Violence

Table ST7. Cox Regression for Suicide Attempts & Other Self-Directed Violence Comparing Race

	Subgroup	Group	No. Persons	No. Persons with Events (%)	Rate per 100,00 0 PY	Rate CI	No. Persons Censored for Any Death	No. Persons Censored for Crossover	Hazard Ratio	HR CI	P-Value
Short-	Term Outcomes	(Days 1-30)									
Suicid	e Attempts										
eat	Black	COVID-19 Comparator	46,177 230,866	25 (0.054) 58 (0.025)	674 306	(410, 938) (227, 385)	1,813 684	-	2.19	(1.37, 3.51)	<0.001
Intent to Treat	Other/Missing	COVID-19 Comparator	16,322 77,893	13 (0.080) 28 (0.036)	987 438	(451, 1,524) (276, 600)	530 155	-	2.25	(1.14, 4.43)	0.02
Inten	White	COVID-19 Comparator	136,439 683,277	89 (0.065) 169 (0.025)	817 302	(648, 987) (256, 347)	6,804 2,818	- -	2.70	(2.08, 3.49)	<0.001
col 1	Black	COVID-19 Comparator	46,177 230,866	25 (0.054) 58 (0.025)	674 307	(410, 938) (228, 385)	1,813 669	- 871	2.19	(1.37, 3.50)	<0.001
Per Protocol	Other/Missing	COVID-19 Comparator	16,322 77,893	13 (0.080) 28 (0.036)	987 439	(451, 1,524) (276, 601)	530 151	- 313	2.24	(1.14, 4.43)	0.02
	White	COVID-19 Comparator	136,439 683,277	89 (0.065) 169 (0.025)	817 302	(648, 987) (256, 348)	6,804 2,763	- 2,446	2.69	(2.08, 3.49)	<0.001
Other	SDV										
reat	Black	COVID-19 Comparator	46,177 230,866	21 (0.045) 59 (0.026)	48 26	(28, 69) (19, 33)	1,812 684	- -	1.82	(1.10, 3.00)	0.02
Intent to Treat	Other/Missing	COVID-19 Comparator	16,322 77,893	<11 21 (0.027)	13 27	(-5, 31) (16, 39)	531 155	-	0.46	(0.11, 1.97)	0.30
Inter	White	COVID-19 Comparator	136,439 683,277	62 (0.045) 144 (0.021)	49 22	(37, 61) (18, 25)	6,804 2,818	-	2.21	(1.63, 3.00)	<0.001
1 10	Black	COVID-19 Comparator	46,177 230,866	21 (0.045) 59 (0.026)	48 27	(28, 69) (20, 34)	1,812 669	- 871	1.81	(1.10, 3.00)	0.02
Per Protocol	Other/Missing	COVID-19 Comparator	16,322 77,893	<11 21 (0.027)	13 28	(-5, 31) (16, 40)	531 151	- 313	0.46	(0.11, 1.97)	0.30
Per	White	COVID-19 Comparator	136,439 683,277	62 (0.045) 143 (0.021)	49 22	(37, 61) (18, 26)	6,804 2,763	- 2,446	2.22	(1.64, 3.02)	<0.001
	Term Outcomes	(Days 31-365)									
Suicid	e Attempts										

at	Black	COVID-19	46,177	163 (0.353)	411	(348, 474)	3,481	-	1.53	(1.28, 1.83)	<0.001
<u>ë</u>	O41/N41 i	Comparator	230,866	557 (0.241)	268	(246, 291)	7,894	-		,	
Intent to Treat	Other/Missing	COVID-19	16,322	66 (0.404)	464	(352, 576)	913	-	1.43	(1.08, 1.90)	0.01
i i	\	Comparator	77,893	228 (0.293)	324	(282, 366)	2,037	-		,	
lte	White	COVID-19	136,439	326 (0.239)	283	(252, 313)	12,953	-	1.20	(1.06, 1.35)	< 0.001
_	Disale	Comparator	683,277	1,438 (0.210)	236	(224, 248)	32,963	-			
_	Black	COVID-19	46,177	163 (0.353)	411	(348, 474)	3,481	-	1.50	(1.26, 1.79)	<0.001
Protocol 1	Other/Missing	Comparator COVID-19	230,866	554 (0.240)	274 464	(251, 297)	7,896 913	13,210		,	
lotc	Officialisting	COVID-19 Comparator	16,322 77,893	66 (0.404) 226 (0.290)	330	(352, 576) (287, 373)	2,038	- 4,451	1.41	(1.06, 1.87)	0.02
l <u>r</u>	White	COMParator	136,439	326 (0.239)	283	(252, 313)	12,953	4,451			
Per	VVIIIC	Comparator	683,277	1,432 (0.210)	241	(228, 253)	32,966	36,627	1.18	(1.04, 1.33)	0.01
Other	SDV	Comparator	000,211	1,432 (0.210)	271	(220, 200)	32,900	30,027			
0 11101											
	Black	COVID-19	46,177	108 (0.234)	249	(202, 296)	3,478	-	4.45	(0.04.4.40)	0.40
eat		Comparator	230,866	489 (0.212)	216	(197, 235)	7,894	_	1.15	(0.94, 1.43)	0.18
<u> </u>	Other/Missing	COVID-19	16,322	58 (0.355)	373	(277, 469)	913	-	4.00	(0.00, 4.70)	0.00
t t		Comparator	77,893	223 (0.286)	290	(252, 329)	2,041	-	1.29	(0.96, 1.72)	0.09
Intent to Treat	White	COVID-19	136,439	368 (0.270)	292	(262, 321)	12,953	-	1.40	(1.05. 1.57)	~ 0.001
드		Comparator	683,277	1,390 (0.203)	209	(198, 220)	32,972	-	1.40	(1.25, 1.57)	<0.001
_	Black	COVID-19	46,177	108 (0.234)	249	(202, 296)	3,478	-	1.13	(0.91, 1.39)	0.26
Per Protocol 1		Comparator	230,866	448 (0.211)	221	(201, 240)	7,894	13,221	1.13	(0.91, 1.39)	0.20
l be	Other/Missing	COVID-19	16,322	85 (0.355)	373	(277, 469)	913	-	1.26	(0.94, 1.69)	0.12
Pro		Comparator	77,893	222 (0.285)	296	(257, 335)	2,041	4,444	1.20	(0.94, 1.09)	0.12
e	White	COVID-19	136,439	368 (0.270)	292	(262, 321)	12,953	-	1.37	(1.22, 1.54)	<0.001
ш.		Comparator	683,277	1,385 (0.203)	213	(202, 224)	32,974	36,645		(1.22, 1.01)	0.001
One-\	ear Outcomes										
Suicid	le Attempts										
	Black	COVID-19	46,177	185 (0.401)	426	(365, 488)	3,479				
ä	Diack	Comparator	230,866	602 (0.261)	266	(244, 287)	7,893	_	1.60	(1.36, 1.89)	<0.001
T _{re}	Other/Missing	COVID-19	16,322	76 (0.466)	489	(379, 599)	911	_			
\$	Other/Missing	Comparator	77,893	247 (0.317)	322	(282, 362)	2,037	_	1.52	(1.17, 1.98)	<0.001
Intent to Treat	White	COVID-19	136,439	396 (0.290)	314	(283, 345)	12,947				
l tr	VVIIILE	Comparator	683,277	1,572 (0.230)	236	(224, 248)	32,955	_	1.33	(1.19, 1.48)	<0.001
	Black	COVID-19	46,177	185 (0.401)	426	(365, 488)	3,479	_			
Per Protocol	Diaok	Comparator	230,866	599 (0.259)	271	(249, 293)	7,206	13,208	1.57	(1.33, 1.86)	<0.001
oto	Other/Missing	COVID-19	16,322	76 (0.466)	489	(379, 599)	911	-			
P. P.	3	Comparator	77,893	245 (0.315)	327	(286, 368)	1,823	4,450	1.50	(1.15, 1.95)	<0.001
I		2 2	,555	5 (3.5.5)		(===, ===)	.,5=0	.,			

	White	COVID-19 Comparator	136,439 683,277	396 (0.290) 1,566 (0.229)	314 241	(283, 345) (229, 253)	12,947 30,302	- 36,621	1.31	(1.17, 1.46)	<0.001
Other	SDV										
reat	Black	COVID-19 Comparator	46,177 230,866	127 (0.275) 539 (0.233)	292 238	(242, 343) (218, 258)	3,477 7,894	-	1.23	(1.01, 1.49)	0.04
to T	Other/Missing	COVID-19 Comparator	16,322 77,893	60 (0.368) 243 (0.312)	386 316	(288, 483) (277, 356)	913 2,041	-	1.22	(0.92, 1.62)	0.17
Intent	White	COVID-19 Comparator	136,439 683,277	419 (0.307) 1,499 (0.219)	332 225	(300, 364) (214, 236)	12,951 32,969	-	1.47	(1.32, 1.65)	<0.001
_	Black	COVID-19 Comparator	46,177 230,866	127 (0.275) 538 (0.233)	292 244	(242, 343) (223, 264)	3,477 7,205	- 13,218	1.20	(0.99, 1.46)	0.06
Protocol	Other/Missing	COVID-19 Comparator	16,322 77,893	60 (0.368) 242 (0.311)	386 323	(288, 483) (282, 364)	913 1,826	4,443	1.20	(0.90, 1.59)	0.22
Per P	White	COVID-19 Comparator	136,439 683,277	419 (0.307) 1,493 (0.219)	332 229	(300, 364) (218, 241)	12,951 30,316	36,637	1.45	(1.30, 1.62)	<0.001

Table ST7 Footnote: The Other/Missing race subgroup includes people who identified as American Indian/Alaska Native, Asian, Native Hawaiian/ other Pacific Islander, Native Hawaiian/Other Pacific Islander, more than one race, or their race was missing. Abbreviations: PY: Person Years; CI: 95% confidence interval; HR: Hazard Ratio; SDV: Other Self-Directed Violence

Table ST8. Cox Regression Models for Suicide Attempts & Other Self-Directed Violence: Comparing Ethnicity

	Subgroup	Group	No. Persons	No. Persons with Events (%)	Rate per 100,00 0 PY	Rate CI	No. Persons Censored for Any Death	No. Persons Censored for Crossover	Hazard Ratio	HR CI	P-Value
Short-	Term Outcomes	(Days 1-30)									
Suicid	e Attempts										
t to	Hispanic	COVID-19 Comparator	19,770 96,476	13 (0.066) 39 (0.040)	815 493	(372, 1,257) (338, 647)	657 229	-	1.65	(0.87, 3.12)	0.12
Intent to Treat	Non-Hispanic	COVID-19 Comparator	179,168 895,560	114 (0.064) 216 (0.024)	796 294	(650, 942) (255, 333)	8,490 3,428	-	2.69	(2.15, 3.39)	<0.001
lood	Hispanic	COVID-19 Comparator	19,770 96,476	13 (0.066) 39 (0.040)	815 493	(372, 1,257) (339, 648)	657 219	- 464	1.65	(0.87, 3.11)	0.12
Per Protocol	Non-Hispanic	COVID-19 Comparator	179,168 895,560	114 (0.064) 216 (0.024)	796 294	(650, 942) (255, 334)	8,490 3,364	- 3,166	2.69	(2.14, 3.38)	<0.001
Other	SDV										
t to	Hispanic	COVID-19 Comparator	19,770 96,476	12 (0.061) 26 (0.027)	64 27	(28, 100) (17, 38)	658 229	-	2.29	(1.16, 4.53)	0.02
Intent to Treat	Non-Hispanic	COVID-19 Comparator	179,168 895,560	73 (0.041) 198 (0.022)	44 23	(34, 54) (19, 26)	8,489 3,428	-	1.89	(1.44, 2.48)	<0.001
lood	Hispanic	COVID-19 Comparator	19,770 96,476	12 (0.061) 26 (0.027)	64 28	(28, 100) (17, 39)	658 219	- 464	2.29	(1.16, 4.52)	0.02
Per Protocol	Non-Hispanic	COVID-19 Comparator	179,168 895,560	73 (0.041) 197 (0.022)	44 23	(34, 54) (20, 26)	8,489 3,364	- 3,166	1.89	(1.44, 2.49)	<0.001
Long-	Term Outcomes	(Days 31-365)									
Suicid	e Attempts										
t to	Hispanic	COVID-19 Comparator	19,770 96,476	71 (0.359) 306 (0.317)	412 351	(316, 508) (312, 390)	1,105 2,339	-	1.17	(0.90, 1.53)	0.23
Intent to Treat	Non-Hispanic	COVID-19 Comparator	179,168 895,560	484 (0.270) 1,917 (0.214)	318 239	(290, 347) (229, 250)	16,242 40,555	-	1.33	(1.20, 1.47)	<0.001
looc	Hispanic	COVID-19 Comparator	19,770 96,476	71 (0.359) 306 (0.317)	412 362	(316, 508) (322, 403)	1,105 2,339	- 6,302	1.14	(0.87, 1.48)	0.33
Per Protocol	Non-Hispanic	COVID-19 Comparator	179,168 895,560	484 (0.270) 1,906 (0.213)	318 244	(290, 347) (233, 255)	16,242 40,561	- 47,986	1.31	(1.18, 1.45)	<0.001

Other	SDV										
t 2	Hispanic	COVID-19	19,770 96,476	78 (0.395) 264 (0.274)	414 278	(322, 506) (244, 311)	11,06 2,345	-	1.50	(1.16, 1.93)	<0.001
Intent to Treat	Non-Hispanic	Comparator COVID-19 Comparator	179,168 895,560	456 (0.255) 1,838 (0.205)	274 210	(249, 299) (201, 220)	16,238 40,562	- - -	1.31	(1.18, 1.45)	<0.001
	Hispanic	COVID-19 Comparator	19,770 96,476	78 (0.395) 264 (0.274)	414 286	(322, 506) (251, 320)	1106 2,345	- 6,294	1.45	(1.13, 1.87)	<0.001
Per Protocol	Non-Hispanic	COVID-19 Comparator	179,168 895,560	456 (0.255) 1,831 (0.204)	274 214	(249, 299) (205, 224)	16,238 40,564	- 48,016	1.28	(1.15, 1.42)	<0.001
One-Y	ear Outcomes			· ·							
Suicide	e Attempts										
to to	Hispanic	COVID-19 Comparator	19,770 96,476	82 (0.415) 338 (0.350)	436 355	(341, 530) (318, 393)	1,103 2,339	-	1.22	(0.96, 1.57)	0.11
Intent to Treat	Non-Hispanic	COVID-19 Comparator	179,168 895,560	575 (0.321) 2,083 (0.233)	346 238	(317, 374) (228, 249)	16,234 40,546	-	1.45	(1.32, 1.59)	<0.001
lood	Hispanic	COVID-19 Comparator	19,770 96,476	82 (0.415) 338 (0.350)	436 366	(341, 530) (327, 405)	1,103 2,039	- 6,299	1.19	(0.93, 1.53)	0.16
Per Protocol	Non-Hispanic	COVID-19 Comparator	179,168 895,560	575 (0.321) 2,072 (0.231)	346 243	(317, 374) (232, 253)	16,234 37,292	- 47,980	1.43	(1.30, 1.57)	<0.001
Other	SDV										
t t	Hispanic	COVID-19 Comparator	19,770 96,476	89 (0.450) 287 (0.297)	473 302	(375, 571) (267, 337)	1106 2345	-	1.57	(1.24, 1.99)	<0.001
Intent to Treat	Non-Hispanic	COVID-19 Comparator	179,168 895,560	517 (0.289) 1,994 (0.223)	311 228	(284, 338) (218, 238)	16,235 40,559	-	1.36	(1.23, 1.50)	<0.001
lood	Hispanic	COVID-19 Comparator	19,770 96,476	89 (0.450) 287 (0.297)	473 311	(375, 571) (275, 347)	1,106 2,045	- 6292	1.52	(1.20, 1.93)	<0.001
Per Protocol	Non-Hispanic	COVID-19 Comparator	179,168 895,560	517 (0.289) 1,986 (0.222)	311 232	(284, 338) (222, 243)	16,235 37,302	- 48,006	1.34	(1.21, 1.48)	<0.001

Table ST8 Footnote: Abbreviations: PY: Person Years; CI: 95% confidence interval; HR: Hazard Ratio; SDV: Other Self-Directed Violence