

Supplementary file S1. Demographic characteristics and history of participants with Long-COVID symptoms.

Characteristics		n	(%)
Demographics			
Sex	Male	396	36.0%
	Female	704	64.0%
	Total	1100	100.0%
Age (years)	0 to 10	1	0.1%
	10 to 20	60	5.5%
	21 to 30	382	34.7%
	31 to 40	372	33.8%
	41 to 50	191	17.4%
	51 to 60	72	6.5%
	61 to 70	15	1.4%
	71 to 80	6	0.5%
	81 to 90	1	0.1%
	Total	1100	100.0%
Ethnicity	Mestizo	1008	91.6%
	White	59	5.4%
	Montubio	15	1.4%
	Indigenous	8	0.7%
	Afro descendants	6	0.5%
	Other	4	0.4%
	Total	1100	100.0%
Marital status	Single	587	53.4%
	Married	405	36.8%
	Divorced	62	5.6%
	Common-law	41	3.7%
	Widowed	5	0.5%
	Total	1100	100.0%
Residence altitude	Above 2500 m.	789	71.7%
	Below 2500 m.	311	28.3%
	Total	1100	100.0%
Occupation	Health care workers	238	21.6%
	Indoor workers	291	26.5%
	Outdoor workers	14	1.3%
	Workers in contact with people	324	29.5%
	Students	184	16.7%
	Unemployment and retired	49	4.5%
	Total	1100	100.0%
Weight (kg)*		66	(47 - 85)
Height (cm)*		163	(151 - 175)
BMI (kg/cm ²)*		24.8	(19.4 - 30.2)
BMI (kg/cm ²)	Underweight (< 18.5)	29	2.5%
	Normal (18.5 - 24.9)	544	49.5%
	Overweight (25.0 - 29.9)	369	33.6%
	Obesity (> 30.0)	158	14.4%
	Total	1100	100.0%

Personal history

Comorbidities history	Yes	247	22.5%
	No	853	77.5%
	Total	1100	100.0%
Comorbidities	Arterial hypertension	66	25.1%
	Overweight	50	19.0%
	Obesity	28	10.6%
	Diabetes type 2	16	6.1%
	Asthma	27	10.3%
	HIV/AIDS	6	2.3%
	Type 1 diabetes	6	2.3%
	Hypothyroidism	43	16.3%
	Cancer	9	3.4%
	Coagulation disorders	6	2.3%
	Hyperthyroidism	6	2.3%
	Total	263	100.0%
Smoke	No	853	77.5%
	Old smoker	140	12.7%
	Yes, less 5 cigarettes a day	92	8.4%
	Yes, between 6 and 20 cigarettes per day	15	1.4%
	Total	1100	100.0%
Alcohol	No	298	27.1%
	Once every 3 months	441	40.1%
	At least once a month	267	24.3%
	At least once a week	86	7.8%
	More than two times a week	8	0.7%
	Total	1100	100.0%
COVID-19 infection history			
Number of infections	Once	827	75.2%
	Twice	239	21.7%
	More than twice	34	3.1%
	Total	1100	100.0%
Diagnostic confirmation	PCR, antigen, or antibody tests	923	83.9%
	Physician confirmation	36	3.3%
	Infected by someone who lived with me	141	12.8%
	Total	1100	100.0%
Clinical management	None	86	7.8%
	Self-medication	160	14.5%
	Medications prescribed by a physician	810	73.6%
	Hospitalization less than 3 days	7	0.6%
	Hospitalization between 3 and 7 days	12	1.1%
	Hospitalization more than 7 days	14	1.3%
	Intensive care unit (ICU) hospitalization	11	1.0%
	Total	1100	100.0%
COVID-19 Vaccination history	No	1	0.1%
	One dose	3	0.3%
	Two doses	173	15.7%
	Two doses and one booster	781	71.0%

	Two doses and two boosters	142	12.9%
	Total	1100	100.0%
Time of infection	Infection before vaccination	561	51.0%
	Infection after vaccination	539	49.0%
	Total	1100	100.0%
Long-term COVID-19 symptoms			
Onset symptoms	Initiated with infection	449	40.8%
	3 to 4 weeks after infection	414	37.6%
	5 to 7 weeks after infection	103	9.4%
	8 to 9 weeks after infection	50	4.5%
	Later than 10 weeks post-infection	84	7.6%
	Total	1100	100.0%
Symptoms duration	Between 1 to 4 weeks	224	20.4%
	Between 4 to 8 weeks	182	16.5%
	Between 8 to 12 weeks	115	10.5%
	Between 3 to 6 months	210	19.1%
	Between 6 to 12 months	131	11.9%
	For more than 13 months	238	21.6%
	Total	1100	100.0%
Frequency of presentation	Once a month	97	8.8%
	Once every two weeks	84	7.6%
	Once a week	216	19.6%
	Over 3 days a week	297	27.0%
	Daily	331	30.1%
	Other	75	6.8%
	Total	1100	100.0%
Symptoms evolution	Has improved	389	35.4%
	Has been consistent	345	31.4%
	Intermittent (appear - disappear)	316	28.7%
	Has gotten worse	50	4.5%
	Total	1100	100.0%
Visited a physician	Yes	492	44.7%
	No	608	55.3%
	Total	1100	100.0%
Medications prescribed by a physician	Yes	335	30.5%
	No	765	69.5%
	Total	1100	100.0%
Self-medication	Yes	367	33.4%
	No	733	66.6%
	Total	1100	100.0%

*: Median and interquartile range (IQR), BMI: body mass index, PCR: polymerase chain reaction.

Supplementary file S2. Self-reported long-COVID symptoms distributed by characteristics of Ecuadorian participants.

Symptoms	Sex n (%)				Comorbidities n (%)				Ethnicity n (%)					BMI n (%)					p Value
	Total n	Male	Female	p Value	No	Yes	p Value	Afro	White	Indigeno us	Mestizo	Montubi os	Othe r	p Value	Underweig ht	Normal	Overweig ht	Obesit y	
Alopecia	32	12 (37.5)	20 (62.5)	0.999	22 (68.8)	10 (31.2)	0.237	--	1 (3.1)	--	31 (96.9)	--	--	0.832	1 (3.1)	16 (50)	10 (31.2)	5 (15.6)	0.989
Taste dysfunction	199	56 (28.1)	143 (71.9)	0.013	162 (81.4)	37 (18.6)	0.354	2 (1.0)	10 (5.0)	4 (2.0)	178 (89.5)	4 (2.0)	(0.5)	0.186	7 (3.5)	(59.3)	52 (26.1)	22 (11.1)	0.01
Alterations in glucose	16	7 (43.7)	9 (56.3)	0.697	8 (50.0)	8 (50.0)	0.011	1 (6.3)	--	1 (6.3)	13 (81.2)	1 (6.2)	--	1		4 (25)	10 (62.5)	2 (12.5)	0.052
Menstrual cycle alterations	118	0 (0.0)	(100.0)	NA	16 (74.6)	30 (25.4)	0.295	(0.9)	6 (5.1)	1 (0.8)	106 (89.8)	4 (3.4)	--	0.369	3 (2.5)	(53.4)	37 (31.4)	15 (12.7)	0.835
Hallucinations	20	9 (45.0)	11 (55.0)	0.541	(80.0)	4 (20.0)	0.999	--	--	1 (5.0)	18 (90.0)	--	(5.0)	1		9 (45)	9 (45)	2 (10)	0.576
Anxiety	379	111 (29.3)	268 (70.7)	<0.00	293 (77.3)	86 (22.7)	0.449	1 (0.3)	15 (4.0)	2 (0.5)	356 (93.9)	3 (0.8)	(0.5)	0.365	13 (3.4)	(49.9)	119 (31.4)	58 (15.3)	0.466
Brittle hair	111	9 (8.1)	(91.9)	1	81 (73.0)	30 (27.0)	0.149	--	3 (2.7)	--	105 (94.6)	3 (2.7)	--	0.193	4 (3.6)	(53.2)	34 (30.6)	14 (12.6)	0.716
Mood changes	234	80 (34.2)	154 (65.8)	0.566	184 (78.6)	50 (21.4)	0.999	1 (0.4)	19 (8.1)	2 (0.9)	205 (87.6)	5 (2.1)	(0.9)	0.148	7 (3)	117 (50)	83 (35.5)	27 (11.5)	0.543
Tachycardia	184	32 (38.6)	(61.4)	0.473	142 (77.2)	42 (22.8)	0.641	(0.5)	(9.3)	1 (0.5)	161 (87.5)	2 (1.1)	(1.1)	0.075	4 (2.2)	(44.6)	74 (40.2)	24 (13)	0.217
Blood pressure changes	74	22 (43.2)	42 (56.8)	0.223	44 (59.5)	30 (40.5)	<0.00	1 (1.3)	(9.3)	1 (1.3)	62 (87.5)	3 (4.1)	(1.1)	0.075	4 (2.2)	31 (44.6)	26 (74)	26 (13)	<0.00
Confusion	61	22 (36.1)	39 (63.9)	0.999	45 (73.8)	16 (26.2)	1	(1.3)	6 (8.1)	1 (1.3)	53 (83.8)	3 (4.1)	(1.4)	0.095		(41.9)	17 (23)	(35.1)	1
Diarrhea	56	11 (19.6)	39 (63.9)	0.999	45 (73.8)	16 (26.2)	0.416	--	4 (6.6)	1 (1.6)	53 (86.9)	2 (3.3)	(1.6)	0.225	1 (1.6)	27 (44.3)	21 (34.4)	12 (19.7)	0.598
Difficulty concentrating	387	113 (29.2)	274 (70.8)	0.013	298 (77.0)	89 (23.0)	0.418	1 (1.8)	2 (3.6)	1 (1.8)	50 (89.2)	2 (3.6)	--	0.281	2 (3.6)	30 (53.6)	15 (26.8)	9 (16.1)	0.724
Speech disturbance	241	77 (31.9)	164 (68.1)	<0.00	191 (77.0)	50 (23.0)	0.34	3 (0.8)	13 (3.4)	1 (0.2)	362 (93.5)	5 (1.3)	(0.8)	0.078	8 (2.1)	191 (49.4)	63 (125)	63 (16.3)	0.468
Decreased visual acuity	147	42 (28.6)	105 (71.4)	0.159	114 (79.3)	33 (20.7)	0.891	1 (0.4)	9 (3.7)	1 (0.4)	133 (94.3)	1 (0.4)	(0.8)	0.292	7 (2.9)	(47.3)	79 (32.8)	41 (17)	0.586
Loss of muscle strength	170	68 (40.0)	102 (60.0)	0.054	129 (77.6)	41 (22.4)	0.791	1 (0.7)	7 (4.7)	1 (0.7)	145 (90.5)	3 (2.0)	(1.4)	0.368	5 (3.4)	(46.9)	43 (29.3)	30 (20.4)	0.119
Decreased libido/sexual desire	115	44 (38.3)	71 (61.7)	0.274	129 (75.9)	41 (24.1)	0.376	(0.6)	(10.6)	2 (1.2)	145 (85.3)	3 (1.7)	(0.6)	0.032	5 (2.9)	(36.5)	79 (46.5)	24 (14.1)	0.001
Abdominal pain	70	18 (25.7)	52 (74.3)	0.666	89 (77.4)	26 (22.6)	0.802	(0.9)	(10.4)	3 (2.6)	95 (82.6)	4 (3.5)	--	0.001	2 (1.7)	(40.9)	50 (43.5)	16 (13.9)	0.106
Headache	354	97 (27.4)	257 (72.6)	0.084	279 (77.1)	75 (22.9)	0.854	--	3 (4.3)	1 (1.4)	63 (90.0)	2 (2.9)	(1.4)		0.377	35 (50)	27 (38.6)	8 (11.4)	0.625
Chest pain	187	71 (38.0)	116 (62.0)	<0.00	279 (78.8)	75 (21.2)	0.999	4 (1.1)	20 (5.7)	3 (0.8)	318 (89.9)	5 (1.4)	(1.1)	0.033	8 (2.3)	(51.4)	117 (33.1)	47 (13.3)	0.764
Burning sensation in any part of the body	75	25 (33.3)	50 (66.7)	0.595	157 (84.0)	30 (16.0)	0.068	(0.5)	(10.2)	2 (1.1)	162 (86.6)	1 (0.5)	(1.1)	0.011	3 (1.6)	(50.8)	68 (36.4)	21 (11.2)	0.381
Unusual muscle aches	109	44 (40.4)	65 (59.6)	0.708	80 (73.3)	29 (26.7)	0.301	(2.7)	5 (6.7)	1 (1.3)	95 (88.0)	--	(1.3)	0.052		(37.3)	29 (38.7)	17 (24)	0.018
Usual muscle aches	164	54 (32.9)	110 (67.1)	0.37	123 (73.4)	41 (26.6)	0.191	(0.9)	9 (8.3)	2 (1.8)	151 (87.2)	2 (1.8)	--	0.321	1 (0.9)	(40.4)	47 (43.1)	31 (15.6)	0.078
Shaking chills	45	11 (24.4)	34 (75.6)	0.423	37 (75.0)	8 (25.0)	0.246	--	7 (4.3)	2 (1.2)	40 (92.1)	3 (1.8)	(0.6)	0.792	3 (1.8)	(40.2)	64 (39)	5 (18.9)	0.041
Sneezing	92	31 (33.7)	61 (66.3)	0.136	80 (82.2)	12 (17.8)	0.689	(2.2)	1 (2.2)	--	83 (89.0)	2 (4.4)	(2.2)	0.026		(57.8)	14 (31.1)	5 (11.1)	0.598
Fatigue or tiredness	652	221 (33.9)	431 (66.1)	0.713	500 (87.0)	152 (13.0)	0.059	(1.1)	4 (4.3)	2 (2.2)	585 (90.2)	2 (2.2)	--	0.391	2 (2.2)	(54.3)	27 (29.3)	94 (14.1)	0.777
Tingling in extremities	137	50 (36.5)	87 (63.5)	0.091	106 (77.0)	31 (23.0)	0.054	(0.6)	(6.4)	7 (1.1)	113 (89.7)	11 (1.7)	(0.5)	0.129	12 (1.8)	(49.8)	221 (33.9)	25 (14.4)	0.266
Insomnia	342	107 (31.3)	235 (68.7)	0.972	259 (77.4)	83 (22.6)	0.762	--	(11.7)	4 (2.9)	312 (82.5)	2 (1.4)	(1.5)	1	2 (1.5)	(34.3)	63 (46.0)	53 (18.2)	0.001
Heat intolerance	20	7 (35.0)	13 (65.0)	0.972	259 (75.7)	83 (24.3)	0.12	3 (0.9)	(5.6)	--	312 (91.2)	6 (1.7)	(0.6)	0.693	8 (2.3)	(49.7)	111 (32.5)	53 (15.5)	0.851
Cold intolerance	92	28 (30.4)	64 (69.6)	0.294	74 (80.4)	18 (19.6)	0.073	--	1 (5.0)	--	89 (95.0)	--	--	0.999		7 (35)	9 (45)	4 (20)	0.361
Nausea	68	10 (14.7)	58 (85.3)	0.776	52 (76.5)	16 (23.5)	0.776	--	3 (3.2)	--	62 (96.8)	--	--	0.448	2 (2.2)	(44.6)	34 (37)	41 (16.3)	0.758
Neuritis	96	22 (22.9)	74 (77.1)	<0.00	65 (76.5)	31 (23.5)	0.752	1 (1.5)	2 (2.9)	1 (1.5)	87 (91.2)	2 (2.9)	--	0.434	1 (1.5)	(60.3)	20 (29.4)	6 (8.8)	0.259
				0.007	65 (67.7)	31 (32.3)	0.008	2 (2.1)	5 (5.2)	1 (1.0)	87 (90.7)	1 (1.0)	--	0.31	2 (2.1)	(38.5)	38 (39.6)	19 (19.8)	0.113

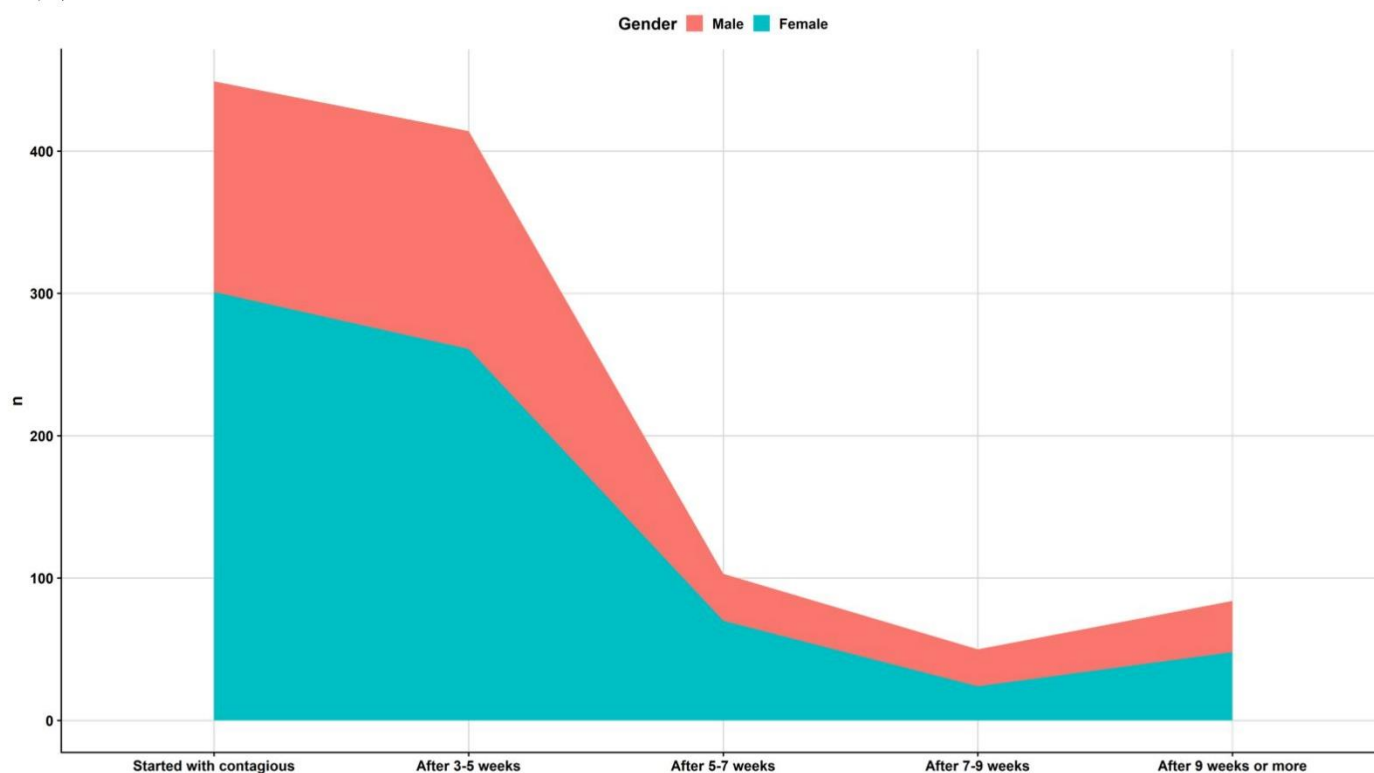
Palpitations	182	59 (32.4)	123 (67.6)	0.308	139 (76.4)	43 (23.6)	0.453	1 (0.6)	8 (4.4)	3 (1.7)	163 (89.4)	4 (2.2)	3 (1.7)	0.015	2 (1.1)	83 (45.6)	69 (37.9)	28 (15.4)	0.261
Facial paralysis	7	4 (57.1)	3 (42.9)	0.438	6 (85.7)	1 (14.3)	0.999	--	--	1 (14.3)	6 (85.7)	--	--	0.056		3 (42.9)		4 (57.1)	0.08
Loss of appetite	55	16 (23.6)	42 (76.4)	0.069	35 (83.6)	14 (16.4)	0.457	--	2 (3.6)	1 (1.8)	49 (89.1)	3 (5.5)	--	0.039		32 (58.2)	20 (36.4)	3 (5.5)	0.129
Hearing loss	49	16 (32.6)	33 (67.4)	0.728	35 (71.4)	14 (28.6)	0.272	--	2 (4.1)	1 (2.0)	45 (91.9)	1 (2.0)	--	0.675	1 (2)	18 (36.7)	20 (40.8)	10 (20.4)	0.277
Hair loss	391	75 (19.2)	316 (80.8)	<0.001	303 (77.5)	88 (22.5)	0.506	2 (0.5)	23 (5.9)	2 (0.5)	353 (90.2)	10 (2.6)	1 (0.3)	0.195	16 (4.1)	198 (50.6)	123 (31.5)	54 (13.8)	0.113
Loss of taste	172	59 (34.3)	113 (65.7)	0.675	135 (78.5)	37 (21.5)	0.999	1 (0.6)	9 (5.2)	--	155 (90.1)	6 (3.5)	1 (0.6)	0.134	9 (5.2)	89 (51.7)	54 (31.4)	20 (11.6)	0.079
Memory deficits	287	84 (29.3)	203 (70.7)	0.007	229 (79.8)	58 (20.2)	0.668	2 (0.7)	13 (4.5)	1 (0.4)	267 (93.0)	2 (0.7)	2 (0.7)	0.554	10 (3.5)	130 (45.3)	101 (35.2)	46 (16)	0.323
Muscle loss	97	48 (49.5)	49 (50.5)	0.005	77 (79.4)	20 (20.6)	0.972	2 (2.1)	7 (7.3)	1 (1.0)	86 (88.6)	1 (1.0)	--	0.242	2 (2.1)	44 (45.4)	34 (35.1)	17 (17.5)	0.728
Loss of smell	263	90 (34.2)	173 (65.8)	0.538	203 (77.2)	60 (22.8)	0.539	1 (0.4)	11 (4.2)	2 (0.8)	243 (92.3)	5 (1.9)	1 (0.4)	0.871	9 (3.4)	144 (54.8)	80 (30.4)	30 (11.4)	0.117
Body hair loss	14	7 (50.0)	7 (50.0)	0.413	8 (57.1)	6 (42.9)	0.097	--	--	--	14 (100.0)	--	--	<0.001		10 (71.4)	2 (14.3)	2 (14.3)	0.238
Pruritus (itching)	114	40 (35.1)	74 (64.9)	0.911	88 (77.2)	26 (22.8)	0.763	2 (1.8)	10 (8.8)	3 (2.6)	96 (84.1)	2 (1.8)	1 (0.9)	0.013	2 (1.8)	61 (53.5)	33 (28.9)	18 (15.8)	0.619
Gastroesophageal reflux	87	35 (40.2)	52 (59.8)	0.459	65 (74.7)	22 (25.3)	0.413	1 (1.2)	12 (13.8)	1 (1.2)	73 (83.8)	--	--	0.003		30 (34.5)	41 (47.1)	16 (18.4)	0.006
Skin dryness	139	22 (15.8)	117 (84.2)	1	100 (71.9)	39 (28.1)	0.047	1 (0.7)	1 (6.4.3)	--	128 (92.1)	4 (2.9)	--	0.384	1 (0.7)	73 (52.5)	45 (32.4)	20 (14.4)	0.46
Thirst	77	32 (41.6)	45 (58.4)	0.352	65 (84.4)	12 (15.6)	0.263	1 (1.3)	12 (15.6)	1 (1.3)	60 (77.9)	2 (2.6)	1 (1.3)	<0.001	1 (1.3)	37 (48.1)	30 (39)	9 (11.7)	0.629
Easy crying	202	43 (21.3)	159 (78.7)	<0.001	159 (78.7)	43 (21.3)	0.999	2 (1.0)	2 (7.3.5)	2 (1.0)	186 (92.0)	4 (2.0)	1 (0.5)	0.607	4 (2)	1 (95.47)	76 (37.6)	27 (13.4)	0.552
Excessive sweating	90	30 (33.3)	60 (66.7)	0.663	59 (65.6)	31 (34.4)	0.002	--	--	--	87 (96.7)	2 (2.2)	1 (1.1)	0.42		1 (36.40)	35 (38.9)	19 (21.1)	0.063
Tremor of the extremities	90	23 (25.6)	67 (74.4)	0.041	63 (70.0)	27 (30.0)	0.048	2 (2.2)	2 (2.2)	3 (3.3)	81 (90.1)	1 (1.1)	1 (1.1)	0.003	1 (1.1)	46 (51.1)	36 (40)	7 (7.8)	0.164
Persistent cough	245	85 (34.7)	160 (65.3)	0.683	196 (80.0)	49 (20.0)	0.643	2 (0.8)	22 (9.0)	2 (0.8)	218 (89.0)	1 (0.4)	--	0.033	5 (2)	127 (51.8)	86 (35.1)	14 (27.11)	0.325
Brittle nails	113	105 (8.7.1)	105 (92.9)	<0.001	94 (83.2)	19 (16.8)	0.271	--	4 (3.5)	--	106 (93.8)	3 (2.7)	--	0.313	2 (1.8)	64 (56.6)	33 (29.2)	14 (12.4)	0.436
Vomit	25	6 (24.0)	19 (76.0)	0.292	18 (72.0)	7 (28.0)	0.559	--	--	1 (4.0)	23 (92)	1 (4.0)	--	0.097		18 (72)	5 (20)	2 (8)	0.099
Total	7746	2341	5405		5974	1772		56	448	74	6984	136	48		178	3760	2669	1139	

Supplementary file S3. Distribution of self-reported long-COVID symptoms by age group among 1100 patients.

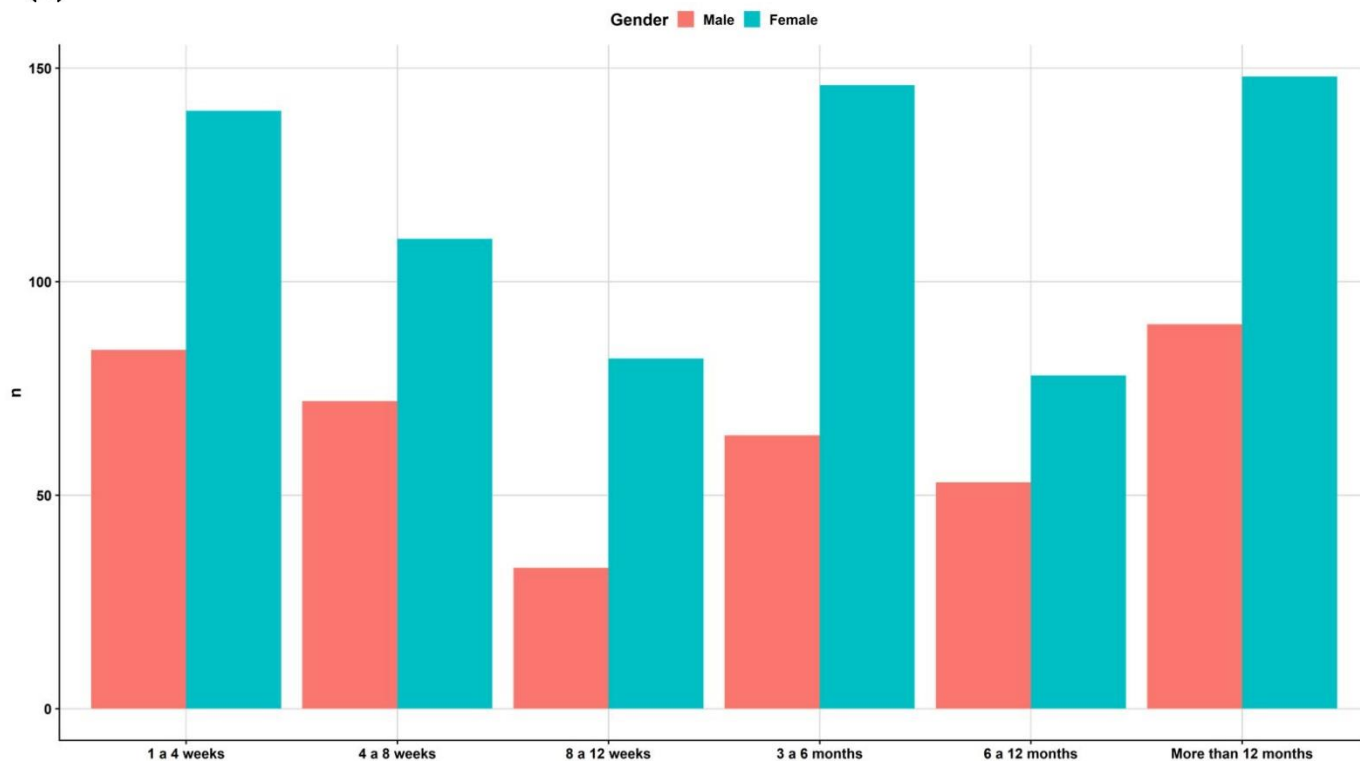
Symptom	Total n	0 to 10	10 to 20	20 to 30	30 to 40	40 to 50	50 to 60	60 to 70	70 to 80	80 to 90	p Value
		n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	
Alopecia	32	--	--	13 (40.6)	11 (34.4)	5 (15.6)	3 (9.4)	--	--	--	0.908
Taste dysfunction	199	--	22 (11.1)	84 (42.2)	52 (26.1)	30 (15.1)	8 (4.0)	1 (0.5)	2 (1.0)	--	<0.001
Alterations in glucose	16	--	1 (6.3)	3 (18.8)	4 (25.0)	5 (31.3)	2 (12.5)	--	1 (6.3)	--	0.017
Menstrual cycle alterations	118	--	6 (5.1)	40 (33.9)	47 (39.8)	23 (19.5)	2 (1.7)	--	--	--	0.172
Hallucinations	20	--	--	6 (30.0)	11 (55.0)	1 (5.0)	1 (5.0)	1 (5.0)	--	--	0.185
Anxiety	379	--	27 (7.1)	141 (37.2)	119 (31.4)	65 (17.2)	22 (5.8)	3 (0.8)	2 (0.5)	--	0.334
Brittle hair	111	--	8 (7.2)	44 (39.6)	40 (36.0)	10 (9.0)	8 (7.2)	1 (0.9)	--	--	0.227
Mood changes	234	1 (0.43)	15 (6.4)	92 (39.3)	76 (32.5)	39 (16.7)	9 (3.9)	2 (0.9)	--	--	0.122
Tachycardia	184	--	16 (8.7)	54 (29.4)	70 (38.0)	28 (15.2)	11 (6.0)	4 (2.2)	1 (0.5)	--	0.173
Blood pressure changes	74	--	5 (6.8)	20 (27.0)	17 (23.0)	21 (28.4)	7 (9.5)	4 (5.4)	--	--	0.001
Confusion	61	--	3 (4.9)	15 (24.6)	28 (45.9)	10 (16.4)	2 (3.3)	3 (4.9)	--	--	0.039
Diarrhea	56	--	4 (7.1)	12 (21.4)	26 (46.4)	11 (19.6)	3 (5.4)	--	--	--	0.182
Difficulty concentrating	387	--	28 (7.2)	152 (39.3)	131 (33.9)	53 (13.7)	21 (5.4)	2 (0.5)	--	--	0.007
Speech disturbance	241	--	8 (3.3)	78 (32.4)	98 (40.7)	38 (15.8)	16 (6.6)	3 (1.2)	--	--	0.169
Decreased visual acuity	147	--	6 (4.1)	36 (24.5)	47 (32.0)	39 (26.5)	14 (9.5)	5 (3.4)	--	--	<0.001
Loss of muscle strength	170	--	7 (4.1)	51 (30.0)	65 (38.2)	23 (13.5)	16 (9.4)	5 (2.9)	3 (1.8)	--	0.011
Decreased libido/sexual desire	115	--	1 (0.9)	33 (28.7)	45 (39.1)	27 (23.5)	8 (7.0)	1 (0.9)	--	--	0.067
Abdominal pain	70	--	6 (8.6)	27 (38.6)	21 (30.0)	7 (10.0)	6 (8.6)	2 (2.9)	1 (1.4)	--	0.316
Headache	354	--	23 (6.5)	134 (37.9)	119 (33.6)	55 (15.5)	19 (5.4)	4 (1.1)	--	--	0.442
Chest pain	187	--	15 (8.0)	59 (31.6)	73 (39.0)	22 (11.8)	15 (8.0)	2 (1.1)	--	1 (0.5)	0.021
Burning sensation in any part of the body	75	--	4 (5.3)	21 (28.0)	23 (30.7)	15 (20.0)	9 (12.0)	3 (4.0)	--	--	0.098
Unusual muscle aches	109	--	6 (5.5)	26 (23.9)	36 (33.0)	24 (22.0)	13 (11.9)	3 (2.8)	1 (0.9)	--	0.043
Usual muscle aches	164	--	12 (7.3)	40 (24.4)	65 (39.6)	26 (15.9)	16 (9.8)	4 (2.4)	1 (0.6)	--	0.029
Shaking chills	45	--	10 (22.2)	14 (31.1)	13 (28.9)	4 (8.9)	4 (8.9)	--	--	--	<0.001
Sneezing	92	--	10 (10.9)	33 (35.9)	30 (32.6)	11 (12.0)	6 (6.5)	1 (1.09)	--	1 (1.1)	0.006
Fatigue or tiredness	652	1 (0.15)	35 (5.4)	237 (36.4)	209 (32.1)	112 (17.2)	40 (6.1)	11 (1.7)	6 (0.9)	1 (0.2)	0.274
Tingling in extremities	137	--	8 (5.8)	29 (21.2)	58 (42.3)	21 (15.3)	16 (11.7)	3 (2.2)	2 (1.5)	--	0.001
Insomnia	342	--	24 (7.0)	113 (33.0)	112 (32.8)	59 (17.3)	28 (8.2)	4 (1.2)	1 (0.3)	1 (0.3)	0.353
Heat intolerance	20	--	--	9 (45.0)	6 (30.0)	--	4 (20.0)	1 (5.0)	--	--	0.154
Cold intolerance	92	--	6 (6.5)	30 (32.6)	28 (30.4)	18 (19.6)	8 (8.7)	2 (2.17)	--	--	0.831
Nausea	68	--	9 (13.2)	31 (45.6)	19 (27.9)	4 (5.9)	3 (4.4)	--	2 (2.9)	--	<0.001
Neuritis	96	--	1 (1.0)	18 (18.8)	33 (34.4)	26 (27.1)	15 (15.6)	2 (2.1)	1 (1.0)	--	<0.001
Palpitations	182	--	8 (4.4)	55 (30.2)	70 (38.5)	31 (17.0)	14 (7.7)	3 (1.7)	1 (0.6)	--	0.719
Facial paralysis	7	--	--	2 (28.6)	2 (28.6)	2 (28.6)	--	1 (14.3)	--	--	0.046
Loss of appetite	55	--	11 (20.0)	18 (32.7)	17 (30.9)	5 (9.1)	2 (3.6)	--	1 (1.8)	1 (1.8)	<0.001
Hearing loss	49	--	2 (4.1)	13 (26.5)	15 (30.6)	10 (20.4)	8 (16.3)	1 (2.0)	--	--	0.101
Hair loss	391	--	25 (6.4)	140 (35.8)	129 (33.0)	68 (17.4)	24 (6.1)	5 (1.3)	--	--	0.918
Loss of taste	172	--	22 (12.8)	60 (34.9)	46 (26.7)	27 (15.7)	12 (7.0)	3 (1.7)	2 (1.2)	--	<0.001
Memory deficits	287	--	10 (3.5)	90 (31.4)	121 (42.2)	43 (15.0)	21 (7.3)	2 (0.7)	--	--	0.011
Muscle loss	97	--	6 (6.2)	33 (34.0)	33 (34.0)	15 (15.5)	6 (6.2)	3 (3.1)	1 (1.0)	--	0.789
Loss of smell	263	--	28 (10.7)	98 (37.3)	75 (28.5)	40 (15.2)	17 (6.5)	5 (1.9)	--	--	<0.001
Body hair loss	14	--	--	5 (35.7)	6 (42.9)	2 (14.3)	1 (7.1)	--	--	--	0.957
Pruritus (itching)	114	--	6 (5.3)	26 (22.8)	42 (36.8)	28 (24.6)	8 (7.0)	4 (3.5)	--	--	0.018
Gastroesophageal reflux	87	--	2 (2.3)	24 (27.6)	36 (41.4)	16 (18.4)	7 (8.1)	2 (2.3)	--	--	0.341

Skin dryness	139	--	10 (7.2)	38 (27.3)	55 (39.6)	20 (14.4)	13 (9.4)	2 (1.4)	1 (0.7)	--	0.257
Thirst	77	--	12 (15.6)	24 (31.2)	34 (44.2)	6 (7.8)	1 (1.3)	--	--	--	<0.001
Easy crying	202	1 (0.5)	19 (9.4)	73 (36.1)	70 (34.7)	27 (13.4)	11 (5.5)	1 (0.5)	--	--	0.015
Excessive sweating	90	--	7 (7.8)	16 (17.8)	32 (35.6)	26 (28.9)	7 (7.8)	2 (2.2)	--	--	0.004
Tremor of the extremities	90	--	9 (10.0)	30 (33.3)	31 (34.4)	10 (11.1)	9 (10.0)	1 (1.1)	--	--	0.169
Persistent cough	245	1 (0.41)	13 (5.3)	94 (38.4)	89 (36.3)	34 (13.9)	11 (4.5)	--	2 (0.8)	1 (0.4)	0.066
Brittle nails	113	--	13 (11.5)	35 (31.0)	32 (28.3)	20 (17.7)	10 (8.9)	2 (1.8)	1 (0.9)	--	0.074
Vomit	25	--	5 (20.0)	12 (48.0)	8 (32.0)	--	--	--	--	--	0.036
Total	7746	4	534	2581	2675	1262	537	114	33	6	

(A)



(B)



Supplementary file S4. Behavior of long-COVID symptoms according to sex. **(A).** Shows the frequency regarding the time of onset of self-referred symptoms from the onset of infection until after 9 weeks of infection. **(B).** Shows the frequency regarding the duration of symptoms.

Supplementary file S5. Distribution of COVID-19 post-acute symptom characteristics according to the characteristics of Ecuadorian participants.

Symptoms	Onset time n (%)					Symptoms duration n (%)										Frequency of presentation n (%)										Symptoms evolution n (%)				
	Initiated with infection	3 to 5 weeks after infection	5 to 7 weeks after infection	7 to 9 weeks after infection	> 9 weeks of infection	p Value	Between 1 to 4 weeks	Between 4 to 8 weeks	Between 8 to 12 weeks	Between 12 to 16 months	Between 16 to 24 months	> 24 months	p Value	Days away from daily life	Once every two weeks	Once every month	Once every 15 days	Once every 10 days	Once every 7 days	Once every 5 days	Once every 3 days	Intermittent (appear-disappear)	Got better	Improved	Has been consistent	p Value				
Alopecia	8 (25)	15 (46.9)	1 (3.1)	4 (12.5)	4 (12.5)	0.4	2 (6.2)	4 (12.5)	4 (12.5)	7 (21.9)	5 (15.6)	10 (31.4)	0.3	2 (6.1)	5 (15)	--	4 (12.5)	3 (9)	1 (3)	1 (3)	1 (3)	9 (28.1)	5 (15.6)	9 (27.9)	9 (28.1)	0.3				
Taste dysfunction	98 (49.2)	57 (28.6)	19 (9.5)	10 (5)	15 (7.5)	0.8	23 (11.6)	29 (14.6)	14 (7)	36 (18.1)	35 (17.6)	62 (31)	0.5	21 (10.5)	40 (20)	19 (9.5)	14 (7)	14 (7)	14 (7)	14 (7)	14 (7)	52 (26.1)	6 (3)	4 (2)	53 (26.6)	0.3				
Alterations in glucose	5 (31.2)	5 (31.2)	4 (25)	--	2 (12.5)	0.1	2 (12.5)	4 (25)	1 (6.2)	4 (25)	2 (12.5)	3 (18.8)	0.8	3 (25)	4 (25)	--	--	--	--	--	--	2 (12.5)	1 (6.2)	1 (6.2)	3 (18.8)	0.1				
Menstrual cycle alterations	51 (43.2)	46 (39)	12 (10.2)	3 (2.5)	6 (5.1)	0.6	17 (14.4)	14 (11.9)	18 (15.3)	34 (28.8)	12 (10.2)	23 (19.4)	0.5	33 (28)	30 (25.4)	10 (8.5)	10 (8.5)	10 (8.5)	10 (8.5)	10 (8.5)	38 (32.2)	3 (2.5)	2 (2)	39 (33.1)	0.5					
Hallucinations	8 (40)	6 (30)	2 (10)	2 (10)	2 (10)	0.7	2 (10)	5 (25)	3 (15)	2 (10)	3 (15)	5 (25)	0.2	6 (30)	5 (25)	--	--	--	--	--	--	8 (40)	3 (15)	4 (20)	5 (25)	0.9				
Anxiety	146 (38.5)	150 (39.6)	46 (12.1)	13 (3.4)	24 (6.3)	0.6	69 (18.2)	53 (14)	49 (12.9)	74 (19.5)	46 (12.1)	88 (23.2)	0.4	106 (28)	99 (25.1)	27 (7.1)	32 (8.4)	32 (8.4)	32 (8.4)	32 (8.4)	116 (30.6)	20 (5.3)	3 (1)	129 (34)	0.6					
Brittle hair	42 (37.8)	44 (39.6)	14 (12.6)	4 (3.6)	7 (6.3)	0.7	10 (9)	15 (13.5)	20 (18)	27 (24.3)	16 (14.4)	23 (20.7)	0.8	32 (28)	25 (22.5)	10 (9)	11 (9.9)	11 (9.9)	11 (9.9)	11 (9.9)	38 (34.2)	8 (7.4)	2 (3)	38 (34.2)	0.5					
Mood changes	92 (39.3)	94 (40.2)	30 (12.8)	6 (2.6)	12 (5.1)	0.5	52 (22.2)	38 (16.2)	25 (10.7)	35 (15)	26 (11.1)	58 (24.8)	0.4	70 (29.9)	61 (26.1)	17 (7.3)	17 (7.3)	17 (7.3)	17 (7.3)	17 (7.3)	76 (32.5)	16 (6.8)	7 (8)	77 (32.9)	0.9					
Tachycardia	72 (39.1)	80 (43.5)	18 (9.8)	7 (3.8)	7 (3.8)	0.1	27 (14.7)	30 (16.3)	14 (7.6)	40 (21.7)	25 (13.6)	48 (26.2)	0.2	57 (31)	53 (28.8)	11 (6)	15 (8.2)	15 (8.2)	15 (8.2)	15 (8.2)	67 (36.4)	10 (5.8)	2 (4)	54 (29.3)	0.4					
Blood pressure changes	27 (36.5)	29 (39.2)	6 (8.1)	7 (9.5)	5 (6.8)	0.3	10 (13.5)	13 (17.6)	9 (12.2)	15 (20.3)	8 (10.8)	19 (25.7)	0.9	24 (32)	17 (23)	5 (6.8)	5 (6.8)	5 (6.8)	5 (6.8)	5 (6.8)	23 (31.1)	3 (4)	2 (4)	24 (32.4)	0.6					
Confusion	28 (45.9)	19 (31.1)	9 (14.8)	1 (1.6)	4 (6.6)	0.3	10 (16.4)	7 (11.5)	6 (9.8)	9 (14.8)	5 (8.2)	24 (39.3)	0.6	19 (31)	17 (27.9)	5 (8.2)	4 (6)	4 (6)	4 (6)	4 (6)	16 (26.2)	6 (9.2)	3 (8)	19 (31.1)	0.3					
Diarrhea	32 (57.1)	14 (25)	8 (14.3)	1 (1.8)	1 (1.8)	0.2	13 (23.2)	4 (7.1)	4 (7.1)	10 (17.9)	13 (23.2)	12 (21.4)	0.5	12 (21.4)	12 (21.4)	3 (5.4)	11 (19.6)	11 (19.6)	11 (19.6)	11 (19.6)	19 (33.9)	5 (8.2)	2 (9)	14 (25)	0.6					
Difficulty concentrating	161 (41.6)	145 (37.5)	45 (11.6)	11 (2.8)	25 (6.5)	0.8	61 (15.8)	51 (13.2)	43 (11.1)	82 (21.2)	48 (12.4)	102 (26.4)	0.7	116 (30)	80 (20.7)	37 (9.6)	31 (8)	31 (8)	31 (8)	31 (8)	118 (30.5)	22 (5.7)	3 (7)	118 (30.5)	0.3					
Speech disturbance	98 (40.7)	90 (37.3)	28 (11.6)	7 (2.9)	18 (7.5)	0.4	29 (12)	31 (12.9)	30 (12.4)	53 (22)	34 (14.1)	64 (26.6)	0.5	83 (34.9)	48 (19.9)	26 (10.8)	11 (4.6)	11 (4.6)	11 (4.6)	11 (4.6)	81 (33.6)	14 (5.8)	7 (8)	72 (29.9)	0.1					
Decreased visual acuity	53 (36.1)	56 (38.1)	22 (15)	6 (4.1)	10 (6.8)	0.1	13 (8.8)	13 (8.8)	12 (8.2)	30 (20.4)	24 (16.3)	55 (37.4)	0.2	41 (27.9)	40 (27.2)	9 (6.1)	9 (6.1)	9 (6.1)	9 (6.1)	9 (6.1)	52 (35.4)	10 (6.8)	2 (2)	48 (32.7)	0.2					
Loss of muscle strength	69 (40.6)	72 (42.4)	16 (9.4)	5 (2.9)	8 (4.7)	0.3	20 (11.8)	36 (21.2)	21 (12.4)	31 (18.2)	19 (11.2)	43 (25.3)	0.5	50 (29.4)	47 (27.6)	15 (8.8)	14 (8.2)	14 (8.2)	14 (8.2)	14 (8.2)	67 (39.4)	8 (4.8)	2 (7)	47 (27.6)	0.8					
Decreased libido/sexual desire	38 (33)	55 (47.8)	9 (7.8)	6 (5.2)	7 (6.1)	0.1	16 (13.9)	19 (16.5)	16 (13.9)	20 (17.4)	16 (13.9)	28 (24.3)	0.6	34 (30.6)	35 (30.4)	10 (8.7)	10 (8.7)	10 (8.7)	10 (8.7)	10 (8.7)	46 (40)	4 (5)	3 (7)	34 (29.6)	0.3					
Abdominal pain	30 (42.9)	24 (34.3)	6 (8.6)	3 (4.3)	7 (10)	0.9	16 (22.9)	7 (10)	11 (15.7)	13 (18.6)	6 (8.6)	17 (24.3)	0.4	22 (31)	22 (31.4)	3 (4.3)	6 (8.6)	6 (8.6)	6 (8.6)	6 (8.6)	28 (40)	2 (2.9)	2 (9)	17 (24.3)	0.6					
Headache	161 (45.5)	118 (33.3)	35 (9.9)	15 (4.2)	25 (7.1)	0.2	79 (22.3)	61 (17.2)	36 (10.2)	68 (19.2)	37 (10.5)	73 (20.6)	0.7	107 (30.2)	85 (24)	29 (8.2)	39 (11)	39 (11)	39 (11)	39 (11)	106 (29.9)	22 (6.3)	3 (2)	108 (30.5)	0.2					
Chest pain	75 (40.1)	82 (43.9)	15 (8)	6 (3.2)	9 (4.8)	0.1	30 (16)	43 (23)	22 (11.8)	41 (21.9)	19 (10.2)	32 (17.1)	0.2	51 (27.3)	56 (29.9)	12 (6.4)	17 (9.1)	17 (9.1)	17 (9.1)	17 (9.1)	66 (35.3)	14 (7.8)	3 (5)	54 (28.9)	0.0					
Burning sensation in any part of the body	33 (44)	29 (38.7)	9 (12)	1 (1.3)	3 (4)	0.4	13 (17.3)	6 (8)	9 (12)	18 (24)	8 (10.7)	21 (28.0)	0.6	26 (34.7)	19 (25.3)	7 (9.3)	5 (6.7)	5 (6.7)	5 (6.7)	5 (6.7)	24 (32)	6 (8)	2 (8)	24 (32)	0.1					

Unusual muscle aches	48 (44)	38 (34.9)	11 (10.1)	4 (3.7)	8 (7.3)	0.932	20 (18.3)	11 (10.1)	12 (11)	21 (19.3)	16 (14.7)	29 (26.5)	0.339	2 (2.9)	6 (30.3)	25 (22.9)	14 (12.8)	7 (6.4)	4 (3.7)	0.088	43 (39.4)	5 (4.6)	28 (2.7)	33 (30.3)	0.444
						0.335	33 (20.1)	28 (17.1)	17 (10.4)	29 (17.7)	23 (14)	34 (20.7)	0.957	2 (2.4)	33 (35.4)	35 (21.3)	18 (11)	12 (7.3)	8 (.9)	0.066	50 (30.5)	13 (7.9)	54 (3.2)	47 (28.7)	0.121
Usual muscle aches	59 (36)	60 (36.6)	20 (12.2)	10 (6.1)	15 (9.1)	0.172	12 (26.7)	4 (8.9)	10 (22.2)	4 (8.9)	5 (11.1)	10 (22.2)	0.094	2 (2.0)	58 (35.4)	35 (21.3)	18 (11)	12 (7.3)	8 (.9)	0.066	50 (30.5)	13 (7.9)	54 (3.2)	47 (28.7)	0.121
Shaking chills	27 (60)	14 (31.1)	4 (8.9)	--	--	0.172	12 (26.7)	4 (8.9)	10 (22.2)	4 (8.9)	5 (11.1)	10 (22.2)	0.094	2 (2.0)	58 (35.4)	35 (21.3)	18 (11)	12 (7.3)	8 (.9)	0.066	50 (30.5)	13 (7.9)	54 (3.2)	47 (28.7)	0.121
Sneezing	47 (51.1)	34 (37)	9 (9.8)	--	2 (2.2)	0.178	24 (26.1)	15 (16.3)	11 (12)	10 (10.9)	14 (15.2)	18 (19.5)	0.259	1 (1.5)	20 (21.7)	31 (33.7)	6 (6.5)	9 (9.8)	9 (.8)	0.044	33 (35.9)	4 (4.3)	26 (2.8)	29 (31.5)	0.358
Fatigue or tiredness	271 (41.6)	250 (38.3)	69 (10.6)	21 (3.2)	41 (6.3)	0.171	143 (21.9)	112 (17.2)	75 (11.5)	130 (19.9)	70 (10.7)	12 (18.7)	0.257	2 (2.7)	192 (29.4)	13 (19.9)	55 (8.4)	63 (9.7)	8 (5.0)	0.111	193 (29.6)	34 (5.2)	22 (3.5)	200 (30.7)	0.461
Tingling in extremities	45 (32.8)	65 (47.4)	13 (9.5)	8 (5.8)	6 (4.4)	0.156	16 (11.7)	19 (13.9)	13 (9.5)	26 (19)	23 (16.8)	40 (29.2)	0.169	2 (2.1)	39 (39.5)	42 (30.7)	16 (11.7)	4 (2.9)	6 (4.9)	0.011	48 (35)	7 (5.1)	38 (2.7)	44 (32.1)	0.181
Insomnia	136 (39.8)	139 (40.6)	29 (8.5)	12 (3.5)	26 (7.6)	0.157	62 (18.1)	46 (13.5)	35 (10.2)	68 (19.9)	46 (13.5)	85 (24.9)	0.170	1 (1.4)	108 (31.6)	66 (19.3)	22 (6.4)	27 (7.9)	4 (0.6)	0.066	91 (26.6)	22 (6.4)	11 (3.5)	118 (34.5)	0.095
Heat intolerance	8 (40)	7 (35)	3 (15)	1 (5)	1 (5)	0.192	2 (10)	1 (5)	3 (15)	4 (20)	1 (5)	9 (45.0)	0.150	2 (2.0)	8 (40)	5 (25)	2 (10)	1 (5)	--	0.559	9 (45)	1 (5)	4 (0)	6 (30)	0.353
Cold intolerance	38 (41.3)	30 (32.6)	13 (14.1)	1 (1.1)	10 (10.9)	0.112	14 (15.2)	9 (9.8)	4 (4.3)	22 (23.9)	16 (17.4)	27 (29.3)	0.145	1 (1.7)	35 (38)	21 (22.8)	10 (10.9)	4 (4.3)	2 (0.2)	0.127	27 (29.3)	7 (7.6)	3 (3.7)	27 (29.3)	0.131
Nausea	34 (50)	25 (36.8)	6 (8.8)	--	3 (4.4)	0.159	12 (17.6)	8 (11.8)	10 (14.7)	10 (14.7)	11 (16.2)	17 (25.0)	0.849	2 (2.5)	15 (22.1)	20 (29.4)	4 (5.9)	9 (13.2)	2 (0.9)	0.666	21 (30.9)	2 (2.9)	26 (8.2)	19 (27.9)	0.890
Neuritis	36 (37.5)	39 (40.6)	13 (13.5)	3 (3.1)	5 (5.2)	0.437	12 (12.5)	18 (18.8)	8 (8.3)	20 (20.8)	10 (10.4)	28 (29.2)	0.251	2 (2.5)	33 (33.3)	19 (9.8)	9 (9.4)	6 (6.2)	1 (0.1)	0.527	27 (28.1)	7 (7.3)	30 (3.2)	32 (33.3)	0.495
Palpitations	71 (39)	72 (39.6)	15 (8.2)	7 (3.8)	17 (9.3)	0.728	29 (15.9)	32 (17.6)	21 (11.5)	36 (19.8)	24 (13.2)	40 (22.2)	0.522	2 (2.7)	55 (30.2)	43 (23.6)	14 (7.7)	15 (8.2)	5 (0.5)	0.764	64 (35.2)	14 (7.1)	57 (3.3)	47 (25.8)	0.011
Facial paralysis	3 (42.9)	3 (42.9)	--	--	1 (14.3)	0.875	2 (28.6)	1 (14.3)	--	--	--	4 (57.1)	0.599	4 (2.9)	14 (3.3)	2 (0.6)	--	--	4 (0.3)	0.522	2 (28.6)	--	2 (9)	2 (28.6)	0.464
Loss of appetite	32 (58.2)	19 (34.5)	2 (3.6)	1 (1.8)	1 (1.8)	0.041	11 (20)	6 (10.9)	9 (16.4)	12 (21.8)	5 (9.1)	12 (21.8)	0.599	2 (2.1)	15 (27.3)	11 (20.3)	3 (5.5)	4 (7.3)	6 (0.9)	0.817	17 (30.9)	3 (5.0)	3 (3.9)	18 (32.7)	0.950
Hearing loss	18 (36.7)	21 (42.9)	7 (14.3)	--	3 (6.1)	0.601	4 (8.2)	3 (6.1)	7 (14.3)	13 (26.5)	5 (10.2)	17 (34.7)	0.319	3 (3.6)	13 (26.5)	13 (26.5)	6 (12.2)	1 (2)	1 (0.2)	0.255	15 (30.6)	2 (4.1)	14 (8.6)	18 (36.7)	0.746
Hair loss	146 (37.3)	154 (39.4)	40 (10.2)	19 (4.9)	32 (8.2)	0.533	53 (13.6)	52 (13.3)	48 (12.3)	83 (21.2)	54 (13.8)	10 (25.8)	0.701	2 (2.4)	108 (27.6)	87 (22.3)	31 (7.9)	34 (8.7)	1 (0.1)	0.5115	115 (29.4)	14 (3.6)	13 (3.5)	125 (32)	0.698
Loss of taste	92 (53.5)	49 (28.5)	18 (10.5)	4 (2.3)	9 (5.2)	0.002	24 (14)	22 (12.8)	20 (11.6)	21 (12.2)	28 (16.3)	57 (33.1)	0.311	3 (3.4)	40 (23.3)	35 (20.3)	11 (6.4)	16 (9.3)	6 (0.3)	0.750	50 (29.1)	8 (7.4)	66 (3.8)	48 (27.9)	0.726
Memory deficits	113 (39.4)	103 (35.9)	33 (11.5)	13 (4.5)	25 (8.7)	0.559	30 (10.5)	40 (13.9)	31 (10.8)	59 (20.6)	45 (15.7)	82 (28.6)	0.041	2 (2.4)	102 (35.9)	60 (20.9)	27 (9.4)	16 (5.6)	4 (0.2)	0.011	91 (31.7)	14 (4.3)	96 (3.3)	86 (30)	0.585
Muscle loss	47 (48.5)	35 (36.1)	10 (10.3)	2 (2.1)	3 (3.1)	0.198	10 (10.3)	10 (10.3)	10 (10.3)	20 (20.6)	16 (16.5)	31 (32.0)	0.201	1 (1.7)	35 (36.1)	22 (7.7)	8 (8.2)	2 (1)	6 (0.2)	0.0531	31 (32)	7 (2)	37 (3.1)	22 (22.7)	0.183
Loss of smell	135 (51.3)	76 (28.9)	27 (10.3)	8 (3)	17 (6.5)	0.011	46 (17.5)	29 (11)	26 (9.9)	43 (16.3)	40 (15.2)	79 (30.0)	0.311	3 (3.9)	65 (24.8)	52 (19.8)	18 (6.8)	19 (7.2)	5 (0.5)	0.305	67 (25.5)	12 (4.6)	11 (3.3)	71 (27)	0.088
Body hair loss	4 (28.6)	6 (42.9)	2 (14.3)	--	2 (14.3)	0.636	2 (14.3)	2 (14.3)	2 (14.3)	1 (7.1)	1 (7.1)	6 (42.9)	0.434	2 (2.4)	8 (57.1)	1 (7.1)	--	2 (14.3)	0.14	3 (21.4)	1 (7.1)	1 (0.1)	9 (64.3)	0.036	
Pruritus (itching)	45 (39.5)	47 (41.2)	12 (10.5)	5 (4.4)	5 (4.4)	0.654	14 (12.3)	19 (16.7)	13 (11.4)	24 (21.1)	15 (13.2)	29 (25.4)	0.961	2 (2.4)	34 (29.8)	26 (22.8)	11 (9.6)	11 (9.6)	3 (0.6)	0.746	46 (40.4)	10 (8.1)	25 (2.9)	33 (28.9)	0.010
Gastroesophageal reflux	30 (34.5)	40 (46)	6 (6.9)	2 (2.3)	9 (10.3)	0.266	16 (18.4)	21 (24.1)	3 (3.4)	15 (17.2)	12 (13.8)	20 (23.3)	0.131	2 (2.8)	27 (31)	28 (2.2)	4 (4.6)	6 (6.9)	3 (0.4)	0.019	34 (39.1)	1 (1.2)	3 (3.2)	24 (27.6)	0.085
Skin dryness	63 (45.3)	46 (33.1)	15 (10.8)	3 (2.2)	12 (8.6)	0.378	23 (16.5)	17 (12.2)	19 (13.7)	32 (23)	22 (15.8)	26 (18.7)	0.122	2 (2.3)	46 (33.1)	27 (19.4)	15 (10.8)	16 (11.5)	4 (0.9)	0.299	50 (36)	9 (6.5)	33 (3.7)	47 (33.8)	0.144
Thirst	31 (40.3)	30 (39)	7 (9.1)	5 (6.5)	4 (5.2)	0.846	14 (18.2)	20 (26)	9 (11.7)	14 (18.2)	6 (7.8)	14 (18.2)	0.526	2 (2.6)	18 (23.3)	29 (37.7)	9 (11.7)	5 (6.5)	1 (0.3)	0.011	34 (44.2)	3 (3.9)	20 (6)	20 (26)	0.221

Easy crying	79 (39.1)	80 (39.6)	26 (12.9)	3 (1.5)	14 (6.9)	0.0 (2.2)	35 (17.3)	29 (14.4)	30 (14.9)	33 (16.3)	24 (11.9)	51 (25.2)	0.1 (2.3)	4.6 (2.8)	62 (30.7)	53 (26.2)	18 (8.9)	15 (7.4)	8 (4.0)	0.0 (0.9)	75 (37.1)	12 (5.9)	60 (2.9)	55 (27.2)	0.0 (1.3)
Excessive sweating	41 (45.6)	32 (35.6)	8 (8.9)	4 (4.4)	5 (5.6)	0.7 (2.2)	11 (12.2)	16 (17.8)	10 (11.1)	23 (25.6)	9 (10)	21 (23.3)	0.3 (1.1)	8.3 (3.1)	29 (32.2)	14 (15.6)	6 (6.7)	9 (10.4)	4 (4.4)	0.7 (0.9)	25 (27.8)	2 (2.2)	37 (4.1)	26 (28.9)	0.5 (1.2)
Tremor of the extremities	33 (36.7)	40 (44.4)	7 (7.8)	4 (4.4)	6 (6.7)	0.3 (4.4)	15 (16.7)	11 (12.2)	13 (14.4)	13 (14.4)	13 (14.4)	25 (27.8)	0.1 (2.5)	1.8 (0.4)	31 (34.4)	21 (23.3)	8 (8.9)	8 (8.9)	4 (4.4)	0.2 (1.8)	28 (31.1)	11 (12.2)	25 (2.7)	26 (28.9)	0.0 (2.2)
Persistent cough	127 (51.8)	86 (35.1)	13 (5.3)	6 (2.4)	13 (5.3)	0.0 (28.6)	70 (23.3)	57 (11.4)	28 (16.3)	40 (8.6)	21 (8.6)	29 (11.8)	0.3 (3.1)	3.9 (9.7)	63 (25.7)	54 (22.1)	15 (6.1)	17 (9.9)	5 (5.3)	0.3 (3.7)	81 (33.1)	13 (5.3)	83 (3.9)	68 (27.8)	0.6 (4.4)
Brittle nails	56 (49.6)	36 (31.9)	12 (10.6)	4 (3.5)	5 (4.4)	0.2 (2.5)	18 (15.9)	13 (11.5)	21 (18.6)	24 (21.2)	15 (13.3)	22 (19.3)	0.4 (3.1)	3.0 (6.1)	29 (25.7)	24 (21.2)	6 (5.3)	15 (13.3)	5 (4.4)	0.4 (1.1)	39 (34.5)	5 (4.4)	28 (2.8)	41 (36.3)	0.9 (2.2)
Vomit	15 (60)	5 (20)	4 (16)	--	1 (4)	0.1 (2.4)	6 (24)	2 (8)	4 (16)	4 (16)	5 (20)	4 (16.5)	0.5 (1.6)	4.6 (6.2)	9 (16.4)	9 (36.1)	1 (4)	6 (24.4)	1 (4.4)	0.1 (1.7)	8 (32)	--	9 (3.6)	8 (32)	0.7 (8.8)
Total	3257	2911	808	268	502	1297	1156	889	1503	1002	1899	0.3	228	18	626	632	38	2486	43	81	2346				

Supplementary file S6. Distribution of long-COVID symptoms characteristics according to the characteristics of Ecuadorian participants.

Characteristics		Comorbidities n (%)																			Ethnicity n (%)					Vaccine					2 doses + 2 boosters		p Va lue
		To tal n	Sex n (%)			p Va lue	No	Yes	p Va lue	Af ro	W hit e	Indi geno us	Mes tizo	Mo ntu bio	Ot he r	p Va lue	No	1 do se	2 dos es	2 doses + 1 booster	2 doses + 2 boosters	p Va lue											
			Mal e	Fe mal e	p Va lue																												
Onset time	Initiated with infection	44 (33.9)	148 (67.0)	301 (67.0)	0.0 (93.0)	359 (80.0)	90 (20.0)	0.4 (52.7)	3 (0.6)	27 (6.0)	6 (1.3)	406 (90.4)	5 (1.1)	2 (0.5)	0.3 (82.0)	2 (0.5)	2 (0.5)	68 (15.1)	323 (71.9)	56 (12.5)	0.7 (53.0)												
	3 to 5 weeks after infection	41 (37.4)	153 (63.0)	261 (63.0)	0.6 (54.3)	320 (77.3)	94 (22.7)	0.4 (09.5)	1 (0.3)	26 (3.3)	1 (0.2)	382 (92.3)	2 (0.5)	1 (0.2)	0.1 (98.0)	1 (97.0)	1 (15.2)	296 (71.5)	55 (13.3)	0.9 (06.0)													
	5 to 7 weeks after infection	10 (32.3)	33 (68.0)	70 (68.0)	0.4 (4.6)	83 (80.4)	20 (19.4)	0.7 (21.0)	1 (1.0)	1 (0.0)	1 (0.0)	98 (95.2)	3 (2.9)	0.0 (0.0)	0.0 (88.97)	0.0 (1.0)	1 (14.6)	69 (67.0)	17 (16.5)	0.0 (1.1)													
	7 to 9 weeks after infection	50 (52.0)	26 (48.0)	24 (48.0)	0.0 (23.0)	82 (82.0)	18 (18.0)	0.6 (88.0)	0 (0.0)	2 (0.0)	0 (0.0)	92 (92.0)	4 (4.0)	2 (2.0)	0.0 (56.0)	0.0 (0.0)	0 (30.0)	32 (64.0)	3 (6.0)	0.0 (1.1)													
	After 9 weeks of infection	84 (42.9)	36 (57.1)	48 (57.1)	0.2 (13.0)	75 (75.0)	25 (25.0)	0.4 (65.0)	4 (4.8)	1 (1.2)	1 (1.2)	90 (90.5)	3 (3.6)	0.3 (0.3)	0.3 (14.14)	0.3 (14.14)	12 (14.3)	61 (72.6)	11 (13.1)	0.9 (26.0)													
	Symptoms duration	84 (37.4)	84 (62.5)	140 (62.5)	0.6 (56.7)	174 (77.3)	50 (22.3)	0.7 (35.7)	1 (0.5)	12 (5.4)	3 (1.3)	207 (92.4)	1 (0.5)	0.5 (0.18)	0.5 (0.18)	0.5 (0.18)	1 (13.0)	167 (74.6)	28 (12.5)	0.3 (85.0)													
	Between 1 to 4 weeks	22 (37.4)	18 (39.6)	57 (60.4)	0.3 (12.5)	76 (83.5)	21 (22.5)	0.1 (03.5)	0 (0.0)	3 (3.3)	2 (2.2)	87 (93.9)	0.6 (0.9)	0.0 (0.6)	0.1 (0.33)	0.0 (0.55)	1 (17.0)	124 (68.1)	26 (14.3)	0.1 (19.0)													
	Between 4 to 8 weeks	2 (39.6)	6 (60.4)	4 (40.0)	0.0 (0.0)	5 (55.6)	0 (0.0)	0.0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	93 (93.0)	0.9 (0.9)	0.8 (0.8)	0.8 (0.8)	0.8 (0.8)	74 (92.5)	85 (73.9)	14 (12.2)	0.7 (89.0)													
Frequency of presentation	Between 8 to 12 weeks	11 (28.5)	33 (71.5)	82 (71.5)	0.1 (05.1)	91 (79.1)	24 (20.9)	0.9 (99.9)	0.0 (0.0)	1 (1.0)	9 (9.0)	197 (93.8)	2 (1.0)	1 (0.5)	0.0 (0.0)	0.0 (0.0)	1 (12.5)	154 (73.3)	28 (13.3)	0.5 (75.0)													
	Between 3 to 6 months	21 (30.0)	64 (69.0)	146 (69.0)	0.0 (76.7)	161 (76.3)	49 (23.3)	0.4 (73.5)	0 (0.0)	4 (4.4)	3 (3.3)	119 (90.8)	4 (3.1)	1 (0.8)	0.4 (0.16)	0.4 (0.16)	23 (17.6)	92 (70.2)	16 (12.2)	0.8 (26.0)													
	Between 6 to 12 months	13 (40.0)	5 (50.0)	59 (59.0)	0.3 (01.2)	80 (85.5)	19 (20.9)	0.7 (55.5)	0.0 (0.0)	4 (4.4)	6 (6.6)	90 (89.8)	3 (3.1)	0.0 (0.8)	0.4 (0.16)	0.4 (0.16)	17 (16.6)	92 (70.2)	16 (12.2)	0.8 (26.0)													
	More than 12 months	23 (37.8)	90 (62.2)	148 (62.2)	0.5 (6.9)	183 (76.3)	55 (23.3)	0.4 (89.1)	0.0 (0.0)	1 (1.3)	3 (3.8)	2 (2.6)	217 (91.2)	6 (2.5)	1 (0.4)	0.1 (0.97)	0.1 (0.97)	2 (24.8)	159 (66.8)	30 (12.6)	0.0 (58.0)												
	Once a month	97 (41.2)	40 (58.8)	57 (58.8)	0.3 (1.4)	76 (78.7)	21 (21.7)	0.9 (99.7)	0.0 (0.0)	4 (4.1)	4 (4.1)	91 (93.8)	2 (2.1)	0.7 (0.4)	0.7 (0.4)	0.7 (0.4)	15 (15.5)	68 (70.1)	14 (14.4)	0.9 (02.0)													
	Once every two weeks	84 (35.7)	30 (35.7)	64 (64.3)	0.9 (99.3)	83 (83.3)	16 (16.7)	0.3 (49.7)	0.0 (0.0)	1 (1.2)	7 (7.1)	1 (1.2)	89 (91.3)	1 (1.2)	0.8 (0.15)	0.8 (0.15)	0.8 (0.15)	1 (12.2)	60 (71.4)	11 (13.1)	0.4 (02.0)												
	Once a week	21 (37.0)	80 (63.0)	136 (63.0)	0.7 (83.3)	180 (83.3)	36 (16.7)	0.0 (79.7)	0.0 (0.0)	5 (5.6)	6 (6.7)	2 (2.2)	198 (91.7)	3 (1.4)	1 (0.5)	0.9 (0.94)	0.9 (0.94)	1 (12.5)	164 (75.9)	19 (8.8)	0.1 (77.0)												
	Over 3 days a week	29 (36.4)	108 (63.6)	189 (63.6)	0.9 (35.8)	234 (78.2)	63 (21.2)	0.9 (99.0)	0.0 (0.0)	1 (1.1)	4 (4.4)	3 (3.3)	273 (91.9)	5 (1.7)	0.0 (0.0)	0.1 (0.22)	0.1 (0.22)	55 (47.47)	203 (68.4)	39 (13.1)	0.2 (97.0)												
No apply	Daily	33 (33.3)	22 (66.7)	66 (66.7)	0.2 (35.1)	73 (73.0)	26 (26.0)	0.0 (03.0)	0 (0.0)	5 (5.6)	7 (7.7)	2 (2.2)	91 (89.8)	1 (1.2)	0.9 (0.88)	0.9 (0.88)	0.9 (0.88)	1 (12.2)	236 (71.3)	47 (14.2)	0.3 (04.0)												
		28 (37.3)	47 (62.7)	64 (62.7)	0.9 (01.3)	85 (85.3)	11 (14.7)	0.1 (93.7)	0.0 (0.0)	6 (6.6)	3 (3.3)	89 (89.3)	3 (3.3)	0.0 (0.02)	0.0 (0.02)	0.0 (0.02)	1 (1.3)	50 (66.7)	12 (16.0)	0.2 (48.0)													
		75 (37.3)	28 (37.3)	47 (62.7)	0.9 (01.3)	85 (85.3)	11 (14.7)	0.1 (93.7)	0.0 (0.0)	6 (6.6)	7 (7.7)	3 (3.3)	89 (89.3)	3 (3.3)	0.0 (0.02)	0.0 (0.02)	0.0 (0.02)	1 (1.3)	50 (66.7)	12 (16.0)	0.2 (48.0)												

Total	33 00	118 8	211 2	259 8	702	18	17 7	24	302 4	45	12	3	9	519	2343	426
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Supplementary file S7. Risk of long-COVID symptoms lasting more than 6 months according to the number of COVID-19 infections.

		1 Infection		> 1 Infection		RR	Probability	P value	95% CI
		n	(%)	n	(%)				
Symptoms duration	< 6 Months (<i>ref.</i>)	576	69.6%	155	56.8%				
	> 6 Months	251	30.4%	118	43.2%	1.296	29.6%	0.006	1.076 - 1.560
	Total	827	100.0%	273	100.0%	N/A		N/A	

RR: relative risk

Supplementary file S8. Risk of long-COVID symptoms lasting longer than 12 months according to the number of COVID-19 infections.

		1 Infection		> 1 Infection		RR	Probability	P value	95% CI
		n	(%)	n	(%)				
Symptoms duration	1 Month (<i>ref.</i>)	187	22.6%	37	13.6%	0.647	-35.3%	0.009	0.4658 - 0.8993
	2-3 Months (<i>ref.</i>)	224	27.1%	73	26.7%	0.989	-1.0%	0.085	0.7830 - 1.2516
	3-11 Months (<i>ref.</i>)	254	30.7%	87	31.9%	1.028	2.8%	0.795	0.8318 - 1.2717
	> 12 Months	162	19.6%	76	27.8%	1.329	32.9%	0.022	1.0420 - 1.6962
	Total	827	100.0%	273	100.0%	N/A		N/A	

RR: relative risk