

Supplementary file 1. Self-reported long-COVID symptoms distributed by characteristics of Ecuadorian participants.

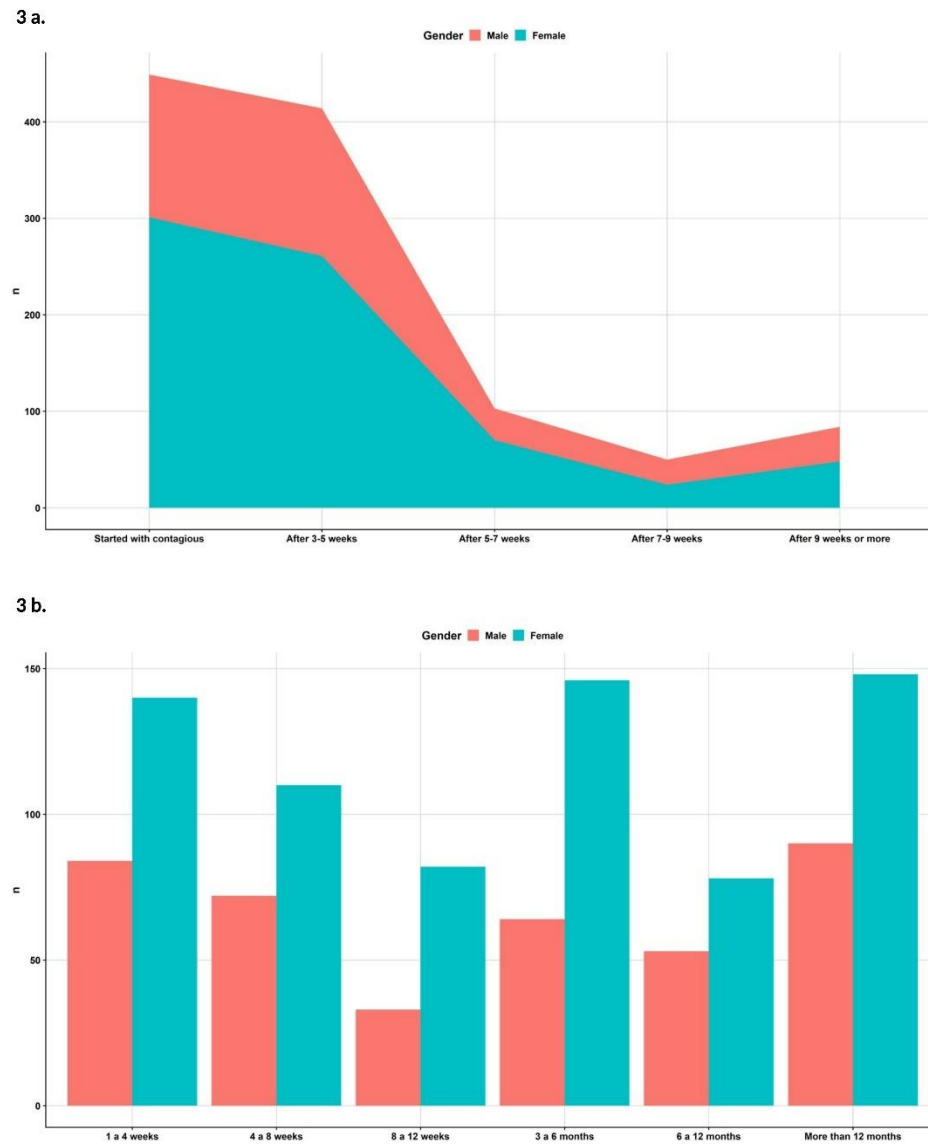
Symptoms	Sex n (%)			Comorbidities n (%)				Ethnicity n (%)					BMI n (%)						
	Total n	Male	Female	p Value	No	Yes	p Value	Afro	White	Indigeno us	Mestizo	Montub io	Othe r	p Value	Underweig ht	Normal	Overweig ht	Obesit y	p Value
Alopecia	32	12 (37.5)	20 (62.5)	0.999	22 (68.8)	10 (31.2)	0.237	--	1 (3.1)	--	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	1 (1.0)	5 (5.0)	4 (2.0)	178 (89.5)	4 (2.0)	1 (0.5)	0.186	7 (3.5)	118 (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)	--	<0.001		4 (25)	10 (62.5)	2 (12.5)	0.052
Menstrual cycle alterations	118	0 (0.0)	118 (100.0)	NA	88 (74.6)	30 (25.4)	0.295	1 (0.9)	6 (5.1)	1 (0.8)	106 (89.8)	4 (3.4)	--	0.369	3 (2.5)	63 (53.4)	37 (31.4)	15 (12.7)	0.835
Hallucinations	20	9 (45.0)	11 (55.0)	0.541	11 (80.0)	4 (20.0)	0.999	--	--	1 (5.0)	9 (90.0)	--	1 (5.0)	<0.001		9 (45)	9 (45)	2 (10)	0.576
Anxiety	379	111 (29.3)	268 (70.7)	<0.001	293 (77.3)	86 (22.7)	0.449	1 (0.3)	15 (4.0)	2 (0.5)	356 (93.9)	3 (0.8)	2 (0.5)	0.365	13 (3.4)	189 (49.9)	119 (31.4)	58 (15.3)	0.466
Brittle hair	111	9 (8.1)	102 (91.9)	<0.001	81 (73.0)	30 (27.0)	0.149	--	3 (2.7)	--	105 (94.6)	3 (2.7)	--	0.193	4 (3.6)	59 (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)	2 (0.9)	0.148	7 (3)	117 (50)	83 (35.5)	27 (11.5)	0.543
Tachycardia	184	71 (38.6)	113 (61.4)	0.473	142 (77.2)	42 (22.8)	0.641	1 (0.5)	17 (9.3)	1 (0.5)	161 (87.5)	2 (1.1)	2 (1.1)	0.075	4 (2.2)	82 (44.6)	74 (40.2)	24 (13)	0.217
Blood pressure changes	74	32 (43.2)	42 (56.8)	0.223	44 (59.5)	30 (40.5)	<0.001	1 (1.3)	6 (8.1)	1 (1.3)	62 (83.8)	3 (4.1)	1 (1.4)	0.095		31 (41.9)	17 (23)	26 (35.1)	<0.001
Confusion	61	22 (36.1)	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 (1.6)	0.225	1 (1.6)	27 (44.3)	21 (34.4)	12 (19.7)	0.598
Diarrhea	56	11 (19.6)	45 (80.4)	0.013	47 (83.9)	9 (16.1)	0.418	1 (1.8)	3 (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
Difficulty concentrating	387	113 (29.2)	274 (70.8)	<0.001	298 (77.0)	89 (23.0)	0.34	3 (0.8)	13 (3.4)	1 (0.2)	362 (93.5)	5 (1.3)	3 (0.8)	0.078	8 (2.1)	191 (49.4)	125 (32.3)	63 (16.3)	0.468
Speech disturbance	241	77 (31.9)	164 (68.1)	0.159	191 (79.3)	50 (20.7)	0.891	1 (0.4)	1 (3.7)	1 (0.4)	227 (94.3)	1 (0.4)	2 (0.8)	0.292	7 (2.9)	114 (47.3)	79 (32.8)	41 (17)	0.586
Decreased visual acuity	147	42 (28.6)	105 (71.4)	0.054	114 (77.6)	33 (22.4)	0.791	1 (0.7)	1 (4.7)	1 (0.7)	133 (90.5)	3 (2.0)	2 (1.4)	0.368	5 (3.4)	69 (46.9)	43 (29.3)	30 (20.4)	0.119
Loss of muscle strength	170	68 (40.0)	102 (60.0)	0.274	129 (75.9)	41 (24.1)	0.376	1 (0.6)	18 (10.6)	2 (1.2)	145 (85.3)	3 (1.7)	1 (0.6)	0.032	5 (2.9)	62 (36.5)	79 (46.5)	24 (14.1)	0.001
Decreased libido/sexual desire	115	44 (38.3)	71 (61.7)	0.666	89 (77.4)	26 (22.6)	0.802	1 (0.9)	12 (10.4)	3 (2.6)	95 (82.6)	4 (3.5)	--	0.001	2 (1.7)	47 (40.9)	50 (43.5)	16 (13.9)	0.106
Abdominal pain	70	18 (25.7)	52 (74.3)	0.084	54 (77.1)	16 (22.9)	0.854	--	3 (4.3)	1 (1.4)	63 (90.0)	2 (2.9)	1 (1.4)		0.377	182 (35)	27 (38.6)	8 (11.4)	0.625
Headache	354	97 (27.4)	257 (72.6)	<0.001	279 (78.8)	75 (21.2)	0.999	4 (1.1)	20 (5.7)	3 (0.8)	318 (89.9)	5 (1.4)	4 (1.1)	0.033	8 (2.3)	182 (51.4)	117 (33.1)	47 (13.3)	0.764
Chest pain	187	71 (38.0)	116 (62.0)	0.595	157 (84.0)	30 (16.0)	0.068	1 (0.5)	19 (10.2)	2 (1.1)	162 (86.6)	1 (0.5)	2 (1.1)	0.011	3 (1.6)	95 (50.8)	68 (36.4)	21 (11.2)	0.381
Burning sensation in any part of the body	75	25 (33.3)	50 (66.7)	0.708	55 (73.3)	20 (26.7)	0.301	2 (2.7)	5 (6.7)	1 (1.3)	66 (88.0)	--	1 (1.3)	0.052		28 (37.3)	29 (38.7)	18 (24)	0.018
Unusual muscle aches	109	44 (40.4)	65 (59.6)	0.37	80 (73.4)	29 (26.6)	0.191	1 (0.9)	1 (8.3)	2 (1.8)	95 (87.2)	2 (1.8)	--	0.321	1 (0.9)	44 (40.4)	47 (43.1)	17 (15.6)	0.078
Usual muscle aches	164	54 (32.9)	110 (67.1)	0.423	123 (75.0)	41 (25.0)	0.246	--	7 (4.3)	2 (1.2)	151 (92.1)	3 (1.8)	1 (0.6)	0.792	3 (1.8)	66 (40.2)	64 (39)	31 (18.9)	0.041
Shaking chills	45	11 (24.4)	34 (75.6)	0.136	37 (82.2)	8 (17.8)	0.689	1 (2.2)	1 (2.2)	--	40 (89.0)	2 (4.4)	1 (2.2)	0.026		26 (57.8)	14 (31.1)	5 (11.1)	0.598
Sneezing	92	31 (33.7)	61 (66.3)	0.713	80 (87.0)	12 (13.0)	0.059	1 (1.1)	4 (4.3)	2 (2.2)	83 (90.2)	2 (2.2)	--	0.391	2 (2.2)	50 (54.3)	27 (29.3)	13 (14.1)	0.777
Fatigue or tiredness	652	221 (33.9)	431 (66.1)	0.091	500 (77.0)	152 (23.0)	0.054	4 (0.6)	42 (6.4)	7 (1.1)	585 (89.7)	11 (1.7)	3 (0.5)	0.129	12 (1.8)	325 (49.8)	221 (33.9)	94 (14.4)	0.266
Tingling in extremities	137	50 (36.5)	87 (63.5)	0.972	106 (77.4)	31 (22.6)	0.762	--	16 (11.7)	4 (2.9)	113 (82.5)	2 (1.4)	2 (1.5)	<0.001	2 (1.5)	47 (34.3)	63 (46.0)	25 (18.2)	0.001
Insomnia	342	107 (31.3)	235 (68.7)	0.034	259 (75.7)	83 (24.3)	0.12	3 (0.9)	19 (5.6)	--	312 (91.2)	6 (1.7)	2 (0.6)	0.693	8 (2.3)	170 (49.7)	111 (32.5)	53 (15.5)	0.851
Heat intolerance	20	7 (35.0)	13 (65.0)	0.999	12 (60.0)	8 (40.0)	0.073	--	1 (5.0)	--	19 (95.0)	--	--	0.999		7 (35)	9 (45)	4 (20)	0.361
Cold intolerance	92	28 (30.4)	64 (69.6)	0.294	74 (80.4)	18 (19.6)	0.776	--	3 (3.2)	--	89 (96.8)	--	--	0.448	2 (2.2)	41 (44.6)	34 (37)	15 (16.3)	0.758
Nausea	68	10 (14.7)	58 (85.3)	<0.001	52 (76.5)	16 (23.5)	0.752	1 (1.5)	2 (2.9)	1 (1.5)	62 (91.2)	2 (2.9)	--	0.434	1 (1.5)	41 (60.3)	20 (29.4)	6 (8.8)	0.259
Neuritis	96	22 (22.9)	74 (77.1)	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)	37 (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)	45 (89.1)	3 (5.5)	--	0.039		18 (58.2)	20 (36.4)	3 (5.5)	0.129
Hearing loss	49	75 (32.6)	33 (67.4)	0.728	303 (71.4)	88 (28.6)	0.272	--	2 (4.1)	1 (2.0)	353 (91.9)	1 (2.0)	--	0.675	1 (2)	198 (36.7)	20 (40.8)	10 (20.4)	0.277
Hair loss	391	59 (19.2)	316 (80.8)	<0.001	135 (77.5)	37 (22.5)	0.506	(0.5)	(5.9)	2 (0.5)	155 (90.2)	10 (2.6)	(0.3)	0.195	16 (4.1)	89 (50.6)	123 (31.5)	20 (13.8)	0.113
Loss of taste	172	84 (34.3)	203 (65.7)	0.675	229 (78.5)	58 (21.5)	0.999	(0.6)	9 (5.2)	--	267 (90.1)	6 (3.5)	(0.6)	0.134	9 (5.2)	130 (51.7)	54 (31.4)	11 (11.6)	0.079
Memory deficits	287	48 (29.3)	203 (70.7)	0.007	77 (79.8)	20 (20.2)	0.668	(0.7)	(4.5)	1 (0.4)	86 (93.0)	2 (0.7)	(0.7)	0.554	10 (3.5)	44 (45.3)	101 (35.2)	17 (46.16)	0.323
Muscle loss	97	90 (49.5)	173 (50.5)	0.005	203 (79.4)	60 (20.6)	0.972	(2.1)	7 (7.3)	1 (1.0)	243 (88.6)	1 (1.0)	--	0.242	2 (2.1)	144 (45.4)	34 (35.1)	30 (17.5)	0.728
Loss of smell	263	14 (34.2)	7 (65.8)	0.538	88 (77.2)	26 (22.8)	0.539	(0.4)	(4.2)	2 (0.8)	96 (100.0)	5 (1.9)	(0.4)	0.871	9 (3.4)	61 (54.8)	80 (30.4)	2 (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	(1.8)	(8.8)	3 (2.6)	96 (84.1)	2 (1.8)	(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	(1.2)	(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)	<0.001	100 (71.9)	39 (28.1)	0.047	(0.7)	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	(1.3)	(15.6)	1 (1.3)	60 (77.9)	2 (2.6)	(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	(1.0)	7 (3.5)	2 (1.0)	186 (92.0)	4 (2.0)	(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)	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)	3 (3.3)	81 (90.1)	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	(0.8)	(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 (8.71)	94 (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 2. Distribution of self-reported long-COVID symptoms by age group among 1100 patients.

Symptom	Total n	0 to 10 n (%)	10 to 20 n (%)	20 to 30 n (%)	30 to 40 n (%)	40 to 50 n (%)	50 to 60 n (%)	60 to 70 n (%)	70 to 80 n (%)	80 to 90 n (%)	p Value
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	



Supplementary file 3. Behavior of long-COVID symptoms according to sex. **3a.** Shows the frequency regarding the time of onset of self-referred symptoms from the onset of infection until after 9 weeks of infection. **3b.** Shows the frequency regarding the duration of symptoms

Supplementary file 4. Distribution of COVID-19 long-COVID symptom characteristics according to the characteristics of Ecuadorian participants.

Symptoms	Onset time n (%)					Symptoms duration n (%)							Frequency of presentation n (%)					Symptoms evolution n (%)							
	Initiate d 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 V al ue	Between n 1 to 4 weeks	Between n 4 to 8 weeks	Between n 8 to 12 weeks	Between n 3 to 6 months	Between 6 to 12 months	> 12 mon ths	p V al ue	Da ily	> 3 days a week	Onc e a wee k	Once every two weeks	Onc e a mon th	No ap ply	p V al ue	Intermittent (appear - disappear)	Gott en wors e	Im proved	Has been consist ent	p V al ue
Alopecia	8 (25)	15 (46.9)	1 (3.1)	4 (12.5)	4 (12.5)	0.044	2 (6.2)	4 (12.5)	4 (12.5)	7 (21.9)	5 (15.6)	10 (31.2)	0.346	9 (28)	13 (40.6)	5 (15.6)	--	4 (12.5)	1 (3.1)	0.512	9 (28.1)	5 (15.6)	1 (3.1)	9 (28.1)	0.023
Taste dysfunction	98 (49.2)	57 (28.6)	19 (9.5)	10 (5)	15 (7.5)	0.048	23 (11.6)	29 (14.6)	14 (7.0)	36 (18.1)	35 (17.6)	62 (31.2)	<0.001	62 (31.2)	71 (35)	42 (20.1)	19 (9.5)	14 (7)	13 (6.5)	0.171	52 (26.1)	6 (3)	2 (2)	53 (26.6)	0.03
Alterations in glucose	5 (31.2)	5 (31.2)	4 (25)	--	2 (12.5)	0.171	2 (12.5)	4 (25)	1 (6.2)	4 (25)	2 (12.5)	3 (18.8)	0.871	6 (37)	4 (21.1)	4 (25)	--	--	2 (12.5)	0.88	2 (12.5)	1 (6.2)	10 (62)	3 (18.8)	0.121
Menstrual cycle alterations	51 (43.2)	46 (39)	12 (10.2)	3 (2.5)	6 (5.1)	0.62	17 (14.4)	14 (11.9)	18 (15.3)	34 (28.8)	12 (10.2)	23 (19.5)	0.014	30 (25)	33 (28)	30 (25.4)	10 (8.5)	10 (8.5)	5 (4.2)	0.455	38 (32.2)	3 (2.5)	38 (32)	39 (33.1)	0.528
Hallucinations	8 (40)	6 (30)	2 (10)	2 (10)	2 (10)	0.77	2 (10)	5 (25)	3 (15)	2 (10)	3 (15)	5 (25)	0.622	6 (25)	32 (99)	5 (25)	2 (10)	--	2 (10)	0.999	45 (114)	8 (20)	4 (20)	5 (25)	0.059
Anxiety	146 (38.5)	150 (39.6)	46 (12.1)	13 (3.4)	24 (6.3)	0.062	69 (18.2)	53 (14)	49 (12.9)	74 (19.5)	46 (12.1)	23 (23.2)	0.17	24 (106)	106 (28)	26 (26.1)	27 (7.1)	32 (8.4)	5 (5.5)	0.001	116 (30.6)	20 (5.3)	1 (1)	129 (34)	0.063
Brittle hair	42 (37.8)	44 (39.6)	14 (12.6)	4 (3.6)	7 (6.3)	0.677	10 (9)	15 (13.5)	20 (18)	27 (24.3)	16 (14.4)	23 (20.7)	0.003	32 (28)	32 (28.8)	32 (22.5)	10 (9)	11 (9.9)	0.911	0.182	38 (34.2)	8 (7.2)	3 (3)	38 (34.2)	0.05
Mood changes	92 (39.3)	94 (40.2)	30 (12.8)	6 (2.6)	12 (5.1)	0.05	52 (22.2)	38 (16.2)	25 (10.7)	35 (15)	26 (11.1)	58 (24.8)	0.451	24 (70)	70 (29.9)	61 (26.1)	17 (7.3)	17 (7.3)	4 (4.7)	0.025	76 (32.5)	16 (6.8)	27 (8)	77 (32.9)	0.019
Tachycardia	72 (39.1)	80 (43.5)	18 (9.8)	7 (3.8)	7 (3.8)	0.151	27 (14.7)	30 (16.3)	14 (7.6)	40 (21.7)	25 (13.6)	48 (26.1)	0.126	22 (57)	57 (31)	53 (28.8)	11 (6)	15 (8.2)	3 (3.3)	0.001	67 (36.4)	10 (5.4)	28 (8)	54 (29.3)	0.048
Blood pressure changes	27 (36.5)	29 (39.2)	6 (8.1)	7 (9.5)	5 (6.8)	0.303	10 (13.5)	13 (17.6)	9 (12.2)	15 (20.3)	8 (10.8)	19 (25.7)	0.725	19 (25)	24 (32.4)	17 (23)	5 (6.8)	5 (6.8)	4 (5.4)	0.773	23 (31.1)	3 (4.1)	32 (4)	24 (32.4)	0.936
Confusion	28 (45.9)	19 (31.1)	9 (14.8)	1 (1.6)	4 (6.6)	0.35	10 (16.4)	7 (11.5)	6 (9.8)	9 (14.8)	5 (8.2)	24 (39.3)	0.031	19 (26)	19 (31.1)	17 (27.9)	5 (8.2)	4 (6.6)	--	0.584	16 (26.2)	6 (9.8)	20 (8)	19 (31.1)	0.236
Diarrhea	32 (57.1)	14 (25)	8 (14.3)	1 (1.8)	1 (1.8)	0.021	13 (23.2)	4 (7.1)	4 (7.1)	10 (17.9)	13 (23.2)	12 (21.4)	0.064	12 (26)	12 (21.4)	12 (21.4)	3 (5.4)	11 (19.6)	3 (5.4)	0.093	19 (33.9)	5 (8.9)	1 (1)	14 (25)	0.263
Difficulty concentrating	161 (41.6)	145 (37.5)	45 (11.6)	11 (2.8)	25 (6.5)	0.082	61 (15.8)	51 (13.2)	43 (11.1)	82 (21.2)	48 (12.4)	102 (26.4)	0.002	108 (27)	116 (30)	80 (20.7)	37 (9.6)	31 (8)	15 (3.9)	0.014	118 (30.5)	22 (5.7)	129 (33)	118 (30.5)	0.362
Speech disturbance	98 (40.7)	90 (37.3)	28 (11.6)	7 (2.9)	18 (7.5)	0.474	29 (12)	31 (12.9)	30 (12.4)	53 (22)	34 (14.1)	64 (26.6)	0.001	25 (7)	83 (34.4)	48 (19.9)	26 (10.8)	11 (4.6)	4 (4.6)	0.001	81 (33.6)	14 (5.8)	30 (7)	72 (29.9)	0.124
Decreased visual acuity	53 (36.1)	56 (38.1)	22 (15)	6 (4.1)	10 (6.8)	0.142	13 (8.8)	13 (8.8)	12 (8.2)	30 (20.4)	24 (16.3)	55 (37.4)	<0.001	42 (28)	41 (27.9)	40 (27.2)	9 (6.1)	9 (6.1)	4 (4.1)	0.112	52 (35.4)	10 (6.8)	25 (2)	48 (32.7)	0.022
Loss of muscle strength	69 (40.6)	72 (42.4)	16 (9.4)	5 (2.9)	8 (4.7)	0.331	20 (11.8)	36 (21.2)	21 (12.4)	31 (18.2)	19 (11.2)	43 (25.3)	0.034	20 (50)	50 (29.4)	47 (27.6)	15 (8.8)	14 (8.2)	9 (5.3)	0.015	67 (39.4)	8 (4.7)	28 (2)	47 (27.6)	0.008
Decreased libido/sexual desire	38 (33)	55 (47.8)	9 (7.8)	6 (5.2)	7 (6.1)	0.177	16 (13.9)	19 (16.5)	16 (13.9)	20 (17.4)	16 (13.9)	28 (24.3)	0.396	22 (34)	34 (29.6)	35 (30.4)	8 (7)	10 (8.7)	2 (1.7)	0.009	46 (40)	4 (3.5)	31 (27)	34 (29.6)	0.033
Abdominal pain	30 (42.9)	24 (34.3)	6 (8.6)	3 (4.3)	7 (10)	0.923	16 (22.9)	7 (10)	11 (15.7)	13 (18.6)	6 (8.6)	17 (24.3)	0.404	17 (17)	22 (31.4)	22 (31.4)	3 (4.3)	6 (8.6)	7 (7.1)	0.049	28 (40)	2 (2.9)	32 (9)	17 (24.3)	0.164
Headache	161 (45.5)	118 (33.3)	35 (9.9)	15 (4.2)	25 (7.1)	0.211	79 (22.3)	61 (17.2)	36 (10.2)	68 (19.2)	37 (10.5)	73 (20.6)	0.798	20 (56)	107 (30.2)	85 (24)	29 (8.2)	39 (11)	20 (5.6)	0.001	106 (29.9)	22 (6.2)	118 (33)	108 (30.5)	0.24
Chest pain	75 (40.1)	82 (43.9)	15 (8)	6 (3.2)	9 (4.8)	0.198	30 (16)	43 (23)	22 (11.8)	41 (21.9)	19 (10.2)	32 (17.1)	0.001	21 (51)	51 (29.9)	29 (29.9)	12 (6.4)	17 (9.1)	5 (5.3)	0.002	66 (35.3)	14 (7.5)	28 (3)	54 (28.9)	0.01
Burning sensation in any part of the body	33 (44)	29 (38.7)	9 (12)	1 (1.3)	3 (4)	0.401	13 (17.3)	6 (8)	9 (12)	18 (24)	8 (10.7)	21 (28.0)	0.241	16 (21)	26 (34.7)	19 (25.3)	7 (9.3)	5 (6.7)	2 (2.7)	0.162	24 (32)	6 (8)	21 (28)	24 (32)	0.301
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 (26.6)	0.359	23 (33)	33 (30.3)	22 (22.9)	14 (12.8)	7 (6.4)	3 (3.7)	0.088	43 (39.4)	5 (4.6)	25 (7)	33 (30.3)	0.044
Usual muscle aches	59 (36)	60 (36.6)	20 (12.2)	10 (6.1)	15 (9.1)	0.353	33 (20.1)	28 (17.1)	17 (10.4)	29 (17.7)	23 (14)	34 (20.7)	0.959	58 (35.4)	58 (35.4)	21 (21.3)	18 (11)	12 (7.3)	4 (4.9)	0.006	50 (30.5)	13 (7.9)	32 (9)	47 (28.7)	0.12
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)	0.044	20 (11)	11 (24.4)	11 (22.2)	4 (8.9)	8 (17.8)	6 (6.7)	0.284	17 (37.8)	2 (4.4)	33 (3)	11 (24.4)	0.549
Sneezing	47 (51.1)	34 (37)	9 (9.8)	--	2 (2.2)	0.108	24 (26.1)	15 (16.3)	11 (12)	10 (10.9)	14 (15.2)	18 (19.6)	0.259	18 (20)	20 (21.7)	20 (33.7)	6 (6.5)	9 (9.8)	9 (9.8)	0.004	33 (35.9)	4 (4.3)	28 (3)	29 (31.5)	0.358

Fatigue or tiredness	271 (41.6)	250 (38.3)	69 (10.6)	21 (3.2)	41 (6.3)	0.0 11	143 (21.9)	112 (17.2)	75 (11.5)	130 (19.9)	70 (10.7)	122 (18.7)) 40	0.0 25	174 (26 .7) (29.4)	192 (19.9)) 42	130 (19.9)) 42	63 (9.7)	38 (5.8)) 11	0.0 193 (29.6)	34 (5.2)	225 (34.5)) 5	200 (30.7)	0.4 61	
Tingling in extremities	45 (32.8)	65 (47.4)	13 (9.5)	8 (5.8)	6 (4.4)	0.0 56	16 (11.7)	19 (13.9)	13 (9.5)	26 (19)	23 (16.8)	40 (29.2)) 85	0.0 16	39 (30.7 .9) (28.5)	30 (30.7)) 66	16 (11.7)) 27	4 (2.9)	4 (4.4)) 1	0.0 48 (35)	7 (5.1)	44 (27.7)) 111	44 (32.1)	0.1 81	
Insomnia	136 (39.8)	139 (40.6)	29 (8.5)	12 (3.5)	26 (7.6)	0.5 72	62 (18.1)	46 (13.5)	35 (10.2)	68 (19.9)	46 (13.5)	24 (24.9)) 9	0.1 77	108 (31.6) .4 (31.6)	108 (19.3)) 66	22 (6.4)) 27	27 (7.9)	27 (4.4)) 86	0.0 91 (26.6)	22 (6.4)	118 (32.5)) 5	118 (34.5)	0.0 59	
Heat intolerance	8 (40)	7 (35)	3 (15)	1 (5)	1 (5)	0.9 2	2 (10)	1 (5)	3 (15)	4 (20)	1 (5)	40 (45.0)) 27	0.1 05	20 (20) .2 (22.8)	5 (25)) 21	2 (10)) 4	1 (5)) 2	--) 2	0.6 5	9 (45)	1 (5)	4 (20)) 31	6 (30)	0.3 53
Cold intolerance	38 (41.3)	30 (32.6)	13 (14.1)	1 (1.1)	10 (10.9)	0.1 29	14 (15.2)	9 (9.8)	4 (4.3)	22 (23.9)	16 (17.4)	27 (29.3)) 17	0.0 14	35 (22.8 .7) (38)	35 (22.8)) 20	4 (4.3)) 10 (10.9)	4 (4.3)) 2	4 (2.2)) 2	0.0 14	27 (29.3)	7 (7.6)	27 (29.3)) 26	27 (29.3)	0.5 13
Nausea	34 (50)	25 (36.8)	6 (8.8)	--	3 (4.4)	0.5 19	12 (17.6)	8 (11.8)	10 (14.7)	10 (14.7)	11 (16.2)	17 (25.0)) 28	0.4 49	15 (22.1) .5 (22.1)	15 (29.4)) 19	4 (5.9)) 9	9 (13.2)	2 (2.9)) 3	0.1 56	21 (30.9)	2 (2.9)	19 (38.8)) 2	19 (27.9)	0.8 09
Neuritis	36 (37.5)	39 (40.6)	13 (13.5)	3 (3.1)	5 (5.2)	0.4 37	12 (12.5)	18 (18.8)	8 (8.3)	20 (20.8)	10 (10.4)	28 (29.2)) 40	0.2 15	32 (33.3) .1 (33.3)	32 (19.8)) 43	9 (9.4)) 15	6 (6.2)	3 (3.1)) 15	0.4 15	27 (28.1)	7 (7.3)	32 (33.3)) 2	32 (33.3)	0.4 95
Palpitations	71 (39)	72 (39.6)	15 (8.2)	7 (3.8)	17 (9.3)	0.7 82	29 (15.9)	32 (17.6)	21 (11.5)	36 (19.8)	24 (13.2)	40 (22.2)) 4	0.7 22	55 (30.2) .7 (30.2)	55 (23.6)) 2	14 (7.7)) 2	15 (8.2)	15 (5.5)) 1	0.3 76	64 (35.2)	14 (7.7)) 3	47 (31.3)) 3	47 (25.8)	0.0 11
Facial paralysis	3 (42.9)	3 (42.9)	--	--	1 (14.3)	0.8 75	2 (28.6)	1 (14.3)	--	--	--	57 (57.1)) 12	0.5 09	1 (14.3) .9 (14.3)	1 (28.6)) 1	--	--	3 (14.3)) 3	0.7 52	2 (28.6)	--	2 (28.6)) 9	2 (28.6)	0.9 46
Loss of appetite	32 (58.2)	19 (34.5)	2 (3.6)	1 (1.8)	1 (1.8)	0.0 41	11 (20)	6 (10.9)	9 (16.4)	12 (21.8)	5 (9.1)	12 (21.8)) 17	0.5 99	15 (27.3) .1 (27.3)	11 (20)) 13	3 (5.5)) 3	4 (7.3)) 9	10 (10.8)) 54	0.8 17	17 (30.9)	3 (5.5)	18 (30.9)) 14	18 (32.7)	0.9 05
Hearing loss	18 (36.7)	21 (42.9)	7 (14.3)	--	3 (6.1)	0.6 01	4 (8.2)	3 (6.1)	7 (14.3)	13 (26.5)	5 (10.2)	34 (34.7)) 101	0.0 19	13 (26.5) .6 (26.5)	13 (26.5)) 87	6 (12.2)) 1	1 (2)) 2	1 (2)) 15	0.2 15	15 (30.6)	2 (4.1)	18 (28.8)) 6	18 (36.7)	0.7 46
Hair loss	146 (37.3)	154 (39.4)	40 (10.2)	19 (4.9)	32 (8.2)	0.5 33	53 (13.6)	52 (13.3)	48 (12.3)	83 (21.2)	54 (13.8)	101 (25.8)) 57	0.0 1	108 (27.6) .4 (27.6)	108 (22.3)) 35	31 (7.9)) 31	34 (8.7)	34 (6.1)) 23	0.5 115 (29.4)	14 (3.6)	137 (35)) 125 (32)	137 (35)	0.6 98	
Loss of taste	92 (53.5)	49 (28.5)	18 (10.5)	4 (2.3)	9 (5.2)	0.0 02	24 (14)	22 (12.8)	20 (11.6)	21 (12.2)	28 (16.3)	82 (33.1)) 1	0.0 1	40 (23.3) .4 (23.3)	40 (20.3)) 1	11 (6.4)) 11	16 (9.3)) 9	16 (9.3)) 17	0.6 50 (29.1)	8 (4.7)	48 (38.8)) 4	48 (27.9)	0.7 26	
Memory deficits	113 (39.4)	103 (35.9)	33 (11.5)	13 (4.5)	25 (8.7)	0.5 59	30 (10.5)	40 (13.9)	31 (10.8)	59 (20.6)	45 (15.7)	82 (28.6)) 31	0.0 1	102 (35.5) .4 (35.5)	60 (20.9)) 22	27 (9.4)) 16	16 (5.6)) 6	12 (4.2)) 1	0.0 91 (31.7)	14 (4.9)	86 (30)) 37	86 (30)	0.5 85	
Muscle loss	47 (48.5)	35 (36.1)	10 (10.3)	2 (2.1)	3 (3.1)	0.1 98	10 (10.3)	10 (10.3)	10 (10.3)	20 (20.6)	16 (16.5)	32 (32.0)) 79	0.1 1	35 (36.1) .7 (36.1)	35 (22.7)) 52	8 (8.2)) 8	2 (2.1)) 25	2 (6.2)) 65	0.0 31 (32)	7 (7.2)	22 (38.2)) 1	22 (22.7)	0.1 83	
Loss of smell	135 (51.3)	76 (28.9)	27 (10.3)	8 (3)	17 (6.5)	0.0 1	46 (17.5)	29 (11)	26 (9.9)	43 (16.3)	40 (15.2)	30 (30.0)) 6	0.0 1	65 (24.7) .9 (24.7)	65 (19.8)) 1	18 (6.8)) 18	19 (7.2)	19 (9.5)) 0.3	67 (25.5)	12 (4.6)	113 (43)) 1	71 (27)	0.0 28	
Body hair loss	4 (28.6)	6 (42.9)	2 (14.3)	--	2 (14.3)	0.6 36	2 (14.3)	2 (14.3)	2 (14.3)	1 (7.1)	1 (7.1)	42 (42.9)) 29	0.4 43	8 (57.1) .4 (57.1)	1 (7.1)) 26	--) 4	2 (14.3)) 3	--) 4	0.1 3	4 (21.4)	1 (7.1)	9 (64.3)) 25	9 (64.3)	0.0 36
Pruritus (itching)	45 (39.5)	47 (41.2)	12 (10.5)	5 (4.4)	5 (4.4)	0.6 54	14 (12.3)	19 (16.7)	13 (11.4)	24 (21.1)	15 (13.2)	25 (25.4)) 19	0.3 61	34 (22.8 .4) (29.8)	34 (22.8)) 28	11 (9.6)) 11	11 (9.6)) 3	2 (2.6)) 3	0.3 46 (40.4)	10 (8.8)	33 (21.3)) 9	33 (28.9)	0.0 1	
Gastroesophag eal reflux	30 (34.5)	40 (46)	6 (6.9)	2 (2.3)	9 (10.3)	0.2 62	16 (18.4)	21 (24.1)	3 (3.4)	15 (17.2)	12 (13.8)	20 (23)) 26	0.1 33	27 (31) .8 (31)	27 (32.2)) 27	4 (4.6)) 4	6 (6.9)) 4	6 (3.4)) 4	0.0 19	34 (39.1)	1 (1.1)	24 (27.6)) 33	24 (27.6)	0.0 85
Skin dryness	63 (45.3)	46 (33.1)	15 (10.8)	3 (2.2)	12 (8.6)	0.3 78	23 (16.5)	17 (12.2)	19 (13.7)	32 (23)	22 (15.8)	14 (18.7)) 14	0.1 32	46 (33.1) .2 (33.1)	46 (19.4)) 29	15 (10.8)) 15	16 (11.5)) 1	2 (2.9)) 1	0.0 29	50 (36)	9 (6.5)	47 (23.8)) 7	47 (33.8)	0.0 14
Thirst	31 (40.3)	30 (39)	7 (9.1)	5 (6.5)	4 (5.2)	0.8 46	14 (18.2)	20 (26)	9 (11.7)	14 (18.2)	6 (7.8)	18 (18.2)) 51	0.2 66	18 (23.4) .3 (23.4)	18 (37.7)) 53	9 (11.7)) 5	5 (6.5)) 1	1 (1.3)) 1	0.0 34 (44.2)	3 (3.9)	20 (26)) 60	20 (26)	0.0 21	
Easy crying	79 (39.1)	80 (39.6)	26 (12.9)	3 (1.5)	14 (6.9)	0.0 62	35 (17.3)	29 (14.4)	30 (14.9)	33 (16.3)	24 (11.9)	25 (25.2)) 21	0.1 13	62 (30.7) .8 (30.7)	62 (26.2)) 14	15 (8.9)) 18	15 (7.4)) 4	8 (4)) 4	0.0 09	75 (37.1)	12 (5.9)	55 (29.5)) 7	55 (27.2)	0.0 13
Excessive sweating	41 (45.6)	32 (35.6)	8 (8.9)	4 (4.4)	5 (5.6)	0.8 72	11 (12.2)	16 (17.8)	10 (11.1)	23 (25.6)	9 (10)	23 (23.3)) 25	0.3 16	29 (32.2) .1 (32.2)	29 (15.6)) 21	6 (6.7)) 6	9 (10)) 9	4 (4.4)) 0.7	25 (27.8)	2 (2.2)	26 (41.2)) 1	26 (28.9)	0.5 12	
Tremor of the extremities	33 (36.7)	40 (44.4)	7 (7.8)	4 (4.4)	6 (6.7)	0.7 34	15 (16.7)	11 (12.2)	13 (14.4)	13 (14.4)	13 (14.4)	25 (27.8)) 29	0.2 51	31 (34.4) .2 (34.4)	31 (23.3)) 21	8 (8.9)) 8	8 (8.9)) 8	4 (4.4)) 13	0.2 18	28 (31.1)	11 (12.2)	26 (8)) 83	26 (28.9)	0.0 02
Persistent cough	127 (51.8)	86 (35.1)	13 (5.3)	6 (2.4)	13 (5.3)	0.0 1	70 (28.6)	57 (23.3)	28 (11.4)	40 (16.3)	21 (8.6)	11 (11.8)) 22	0.0 1	63 (25.7) .3 (25.7)	54 (22)) 54	15 (6.1)) 17	17 (6.9)) 5	3 (5.3)) 5	0.3 81 (33.1)	13 (5.3)	68 (33.3)) 9	68 (27.8)	0.2 64	
Brittle nails	56 (49.6)	36 (31.9)	12 (10.6)	4 (3.5)	5 (4.4)	0.2 25	18 (15.9)	13 (11.5)	21 (18.6)	24 (21.2)	15 (13.3)	22 (19.5)) 4	0.0 36	29 (25.7) .1 (25.7)	29 (21.2)) 4	6 (5.3)) 6	15 (13.3)) 1	15 (4.4)) 11	0.4 39 (34.5)	5 (4.4)	41 (24.8)) 8	41 (36.3)	0.0 92	
Vomit	15 (60)	5 (20)	4 (16)	--	1 (4)	0.1 24	6 (24)	2 (8)	4 (16)	4 (16)	5 (20)	4 (16)) 4	0.5 55	16 (16)) 4	9 (36)) 9	1 (4)) 1	6 (24)) 1	1 (4)) 0.0	8 (32)) 17	--	9 (36)	8 (32)	0.9 78	
Total	3257	2911	808	268	502		1297	1156	889	1503	1002	1899		2003	2284	1815	626	632	386	2486	433	2481	2346	

Supplementary file 5. Distribution of long-COVID symptoms characteristics according to the characteristics of Ecuadorian participants.

Characteristics		Sex n (%)			Comorbidities n (%)			Ethnicity n (%)						p Value	No	1 dose	2 doses	Vaccine 2 doses + 1 booster	2 doses + 2 boosters	p Value	
		Total n	Male	Female	p Value	No	Yes	p Value	Afro	White	Indigenous	Mestizo	Montubio								Other
Onset time	Initiated with infection	449	148 (33.0)	301 (67.0)	0.093	359 (80.0)	90 (20.0)	0.452	3 (0.7)	27 (6.0)	6 (1.3)	406 (90.4)	5 (1.1)	2 (0.5)	0.382		2 (0.5)	68 (15.1)	323 (71.9)	56 (12.5)	0.753
	3 to 5 weeks after infection	414	153 (37.0)	261 (63.0)	0.654	320 (77.3)	94 (22.7)	0.409	2 (0.5)	26 (6.3)	1 (0.2)	382 (92.3)	2 (0.5)	1 (0.2)	0.198			63 (15.2)	296 (71.5)	55 (13.3)	0.906
	5 to 7 weeks after infection	103	33 (32.0)	70 (68.0)	0.44	83 (80.6)	20 (19.4)	0.721	1 (1.0)	1 (1.0)		98 (95.2)	3 (2.9)		0.088	1 (0.97)	1 (1.0)	15 (14.6)	69 (67.0)	17 (16.5)	0.01
	7 to 9 weeks after infection	50	26 (52.0)	24 (48.0)	0.023	41 (82.0)	9 (18.0)	0.688		1 (2.0)		46 (92.0)	2 (4.0)	1 (2.0)	0.056			15 (30.0)	32 (64.0)	3 (6.0)	0.01
	After 9 weeks of infection	84	36 (42.9)	48 (57.1)	0.213	63 (75.0)	21 (25.0)	0.465		4 (4.8)	1 (1.2)	76 (90.5)	3 (3.6)		0.314			12 (14.3)	61 (72.6)	11 (13.1)	0.926
Symptoms duration	Between 1 to 4 weeks	224	84 (37.5)	140 (62.5)	0.656	174 (77.7)	50 (22.3)	0.735	1 (0.5)	12 (5.4)	3 (1.3)	207 (92.4)	1 (0.5)		0.518			29 (13.0)	167 (74.6)	28 (12.5)	0.385
	Between 4 to 8 weeks	182	72 (39.6)	110 (60.4)	0.312	152 (83.5)	30 (16.5)	0.103	1 (0.6)	17 (9.3)	2 (1.1)	160 (87.9)	1 (0.6)	1 (0.6)	0.133	1 (0.55)		31 (17.0)	124 (68.1)	26 (14.3)	0.119
	Between 8 to 12 weeks	115	33 (28.7)	82 (71.3)	0.105	91 (79.1)	24 (20.9)	0.999		6 (5.2)		108 (93.9)	1 (0.9)		0.874			16 (13.9)	85 (73.9)	14 (12.2)	0.789
	Between 3 to 6 months	210	64 (30.5)	146 (69.5)	0.076	161 (76.7)	49 (23.3)	0.473	1 (0.5)	9 (4.3)		197 (93.8)	2 (1.0)	1 (0.5)	0.892		1 (0.5)	27 (12.9)	154 (73.3)	28 (13.3)	0.575
	Between 6 to 12 months	131	53 (40.5)	78 (59.5)	0.301	105 (80.2)	26 (19.9)	0.755		6 (4.6)	1 (0.8)	119 (90.8)	2 (3.1)	1 (0.8)	0.416			23 (17.6)	92 (70.2)	16 (12.2)	0.826
Frequency of presentation	More than 12 months	238	90 (37.8)	148 (62.2)	0.56	183 (76.9)	55 (23.1)	0.489	3 (1.3)	9 (3.8)	2 (0.8)	217 (91.2)	4 (2.5)	1 (0.4)	0.197		2 (0.8)	47 (19.8)	159 (66.8)	30 (12.6)	0.058
	Once a month	97	40 (41.2)	57 (58.8)	0.31	76 (78.4)	21 (21.7)	0.999		4 (4.1)		91 (93.8)	2 (2.1)		0.704			15 (15.5)	68 (70.1)	14 (14.4)	0.902
	Once every two weeks	84	30 (35.7)	54 (64.3)	0.999	70 (83.3)	14 (16.7)	0.349	1 (1.2)	6 (7.1)	1 (1.2)	75 (89.3)	1 (1.2)		0.815		1 (1.2)	12 (14.3)	60 (71.4)	11 (13.1)	0.402
	Once a week	216	80 (37.0)	136 (63.0)	0.783	180 (83.3)	36 (16.7)	0.079		12 (5.6)	2 (0.9)	198 (91.7)	3 (1.4)	1 (0.5)	0.994		1 (0.5)	32 (14.8)	164 (75.9)	19 (8.8)	0.177
	Over 3 days a week	297	108 (36.4)	189 (63.6)	0.935	234 (78.8)	63 (21.2)	0.999	3 (1.0)	13 (4.4)		273 (91.9)	5 (1.7)	3 (1.0)	0.122			55 (18.5)	203 (68.4)	39 (13.1)	0.297
	Daily	331	110 (33.2)	221 (66.8)	0.235	242 (73.1)	89 (26.9)	0.003	2 (0.6)	19 (5.7)	2 (0.6)	304 (91.8)	4 (1.2)		0.988	1 (0.3)		47 (14.2)	236 (71.3)	47 (14.2)	0.304
	No apply	75	28 (37.3)	47 (62.7)	0.901	64 (85.3)	11 (14.7)	0.193		5 (6.7)	3 (4.0)	67 (89.3)			0.002		1 (1.3)	12 (16.0)	50 (66.7)	12 (16.0)	0.248
Total		3300	1188	2112		2598	702		18	177	24	3024	45	12		3	9	519	2343	426	

Supplementary file 6. 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 7. 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