

Long COVID symptoms among Japanese adults by pre-existing medical conditions.

Long COVID symptoms	Psychological disorder			Lung disease			Seasonal allergies		
	No, n (%)	Yes, n (%)	HR (95% CI)	No, n (%)	Yes, n (%)	HR (95% CI)	No, n (%)	Yes, n (%)	HR (95% CI)
Fever	144 (11.3)	36 (15.9)	-	175 (12.2)	5 (8.2)	-	92 (11.2)	88 (13.1)	-
Chills	97 (7.6)	35 (15.4)	2.02 (1.37-2.97)	124 (8.6)	8 (13.1)	-	65 (7.9)	67 (10.0)	-
Cough	427 (33.6)	107 (47.1)	1.45 (1.17-1.79)	508 (35.4)	26 (42.6)	-	259 (31.4)	275 (40.9)	1.40 (1.18-1.66)
Fatigue	445 (35.0)	129 (56.8)	1.98 (1.62-2.41)	538 (37.5)	36 (59.0)	2.02 (1.44-2.83)	285 (34.6)	289 (42.9)	1.39 (1.18-1.63)
Shortness of breath	99 (7.8)	38 (16.7)	2.18 (1.50-3.18)	119 (8.3)	18 (29.5)	4.15 (2.53-6.82)	59 (7.2)	78 (11.6)	1.71 (1.22-2.40)
Headache	321 (25.3)	103 (45.4)	2.05 (1.64-2.56)	396 (27.6)	28 (45.9)	2.14 (1.46-3.14)	194 (23.5)	230 (34.2)	1.64 (1.35-1.98)
Dizziness	139 (10.9)	47 (20.7)	1.91 (1.37-2.66)	169 (11.8)	17 (27.9)	2.77 (1.68-4.57)	87 (10.6)	99 (14.7)	1.50 (1.12-2.00)
Eye sore	101 (8.0)	45 (19.8)	2.54 (1.79-3.61)	133 (9.3)	13 (21.3)	2.40 (1.35-4.24)	68 (8.3)	78 (11.6)	-
Blurry vision	194 (15.3)	56 (24.7)	1.66 (1.23-2.23)	236 (16.4)	14 (23.0)	-	122 (14.8)	128 (19.0)	-
Aches & pains	197 (15.5)	61 (26.9)	1.89 (1.41-2.52)	242 (16.9)	16 (26.2)	-	132 (16.0)	126 (18.7)	-
Muscle twitching	59 (4.6)	26 (11.5)	-	77 (5.4)	8 (13.1)	-	45 (5.5)	40 (5.9)	-
Rash	63 (5.0)	18 (7.9)	-	76 (5.3)	5 (8.2)	-	33 (4.0)	48 (7.1)	1.88 (1.21-2.94)

Nasal congestion	293 (23.1)	75 (33.0)	1.51 (1.17- 1.95)	352 (24.5)	16 (26.2)	-	148 (18.0)	220 (32.7)	2.12 (1.72- 2.61)
Runny nose	405 (31.9)	106 (46.7)	1.53 (1.23- 1.90)	483 (33.6)	28 (45.9)	1.66 (1.13- 2.43)	215 (26.1)	296 (44.0)	2.11 (1.77- 2.51)
Sore throat	287 (22.6)	91 (40.1)	1.97 (1.55- 2.49)	351 (24.4)	27 (44.3)	2.09 (1.41- 3.10)	164 (19.9)	214 (31.8)	1.81 (1.48- 2.22)
Decreased sense of test	43 (3.4)	17 (7.5)	2.18 (1.24- 3.82)	55 (3.8)	5 (8.2)	-	29 (3.5)	31 (4.6)	-
Decreased sense of smell	51 (4.0)	13 (5.7)	-	61 (4.2)	3 (4.9)	-	31 (3.8)	33 (4.9)	-
Nausea	72 (5.7)	27 (11.9)	2.13 (1.37- 3.31)	93 (6.5)	6 (9.8)	-	46 (5.6)	53 (7.9)	-
Diarrhoea	154 (12.1)	47 (20.7)	1.75 (1.26- 2.42)	194 (13.5)	7 (11.5)	-	100 (12.1)	101 (15.0)	-
Persistent chest pain/pressure	49 (3.9)	31 (13.7)	-	73 (5.1)	7 (11.5)	2.44 (1.12- 5.31)	33 (4.0)	47 (7.0)	1.84 (1.18- 2.87)
Heart palpitation	82 (6.5)	24 (10.6)	-	99 (6.9)	7 (11.5)	-	50 (6.1)	56 (8.3)	-
Insomnia	70 (5.5)	61 (26.9)	5.45 (3.86- 7.69)	118 (8.2)	13 (21.3)	2.73 (1.54- 4.85)	54 (6.6)	77 (11.4)	1.85 (1.31- 2.62)
Depression	74 (5.8)	61 (26.9)	5.22 (3.71- 7.33)	127 (8.8)	8 (13.1)	-	61 (7.4)	74 (11.0)	1.56 (1.11- 2.19)
Anxiety	119 (9.4)	61 (26.9)	3.17 (2.32- 4.31)	166 (11.6)	14 (23.0)	2.17 (1.25- 3.74)	81 (9.8)	99 (14.7)	1.61 (1.20- 2.16)
Injection site reaction	206 (16.2)	42 (18.5)	-	236 (16.4)	12 (19.7)	-	143 (17.4)	105 (15.6)	-

Note: Univariable Cox proportional hazards model.

HR, hazard ratio; CI, confidence interval.