

Supplemental Table 1. Socio-demographic profiles of participants (n=391)

Variables	Frequency/Median (n, %/ IQR)
Age (years)	35 (18.0)
Gender, Male	167(42.7)
Nationality, Malaysian	388 (99.2)
Ethnic Malay Chinese Indian Others	307 (78.5) 21 (5.4) 56 (14.3) 7 (1.8)
Education, n=389 Primary Secondary Tertiary	12 (3.1) 153 (39.2) 224 (57.4)
Occupation, n=389 Working	293 (75.3)
Income B40 M40 T20	n=385 341 (88.6) 44 (11.4) 0 (0.0)
Marital status Married Single Divorced/widow	253 (64.7) 117 (29.9) 21 (5.3)
No of family members living in the same household infected with covid 19 0 1 2 3 4 5 or more	1 (0.3) 113 (28.9) 65 (16.6) 74 (18.9) 62 (15.9) 76 (19.4)
Family member living in the same household who passed away due to Covid 19	20 (5.1)
Smoking status Smoker Non smoker Ex smoker	43 (11.0) 329 (84.1) 19 (4.9)
Months since diagnosed with Covid-19	14 (11.0)
Covid-19 category CAT 1 or CAT 2 CAT 3 (admitted but not given oxygen) CAT 4 or CAT 5 (admitted, given oxygen or intubated)	332 (84.9) 39 (10.0) 20 (5.1)
Days of admission	7 (5.0)
Vaccination status Not vaccinated Vaccinated with 1 dose	78 (19.9) 53 (13.6)

Vaccinated with 2 doses	139 (35.5)
Vaccinated with booster first dose	117 (29.9)
Vaccinated with booster second dose	4 (1.0)
Presence of comorbid conditions	91 (23.3)
DM	38 (41.7)*
Hypertension	54 (59.3)*
High cholesterol	24 (26.3)*
Heart disease	8 (8.7)*
Stroke	3 (3.2)*
Asthma	6 (6.5)*
Fatigue	
Yes	211 (54.0)
No	180 (46.0)
Stress	
Yes	91 (23.3)
No	300 (76.7)
Anxiety	
Yes	134 (34.3)
No	257 (65.7)
Depression	
Yes	101 (25.8)
No	290 (74.2)

*A participant may have more than 1 comorbid condition.

Supplemental Table 2: Clinical characteristics of participants

Symptom group	Item	Result
Generalised symptoms	Absence	119 (30.4)
	Presence	272 (69.6)
	Fatigue	165 (60.3)
	Fever	169 (62.1)
	Pain	109 (40.0)
Ear nose and throat symptoms	Absence	187 (47.8)
	Presence	204 (52.2)
	Ringling in the ear	21 (10.3)
	Earache	20 (9.8)
	Sore throat	123 (60.3)
	Loss of taste	104 (50.9)
	Loss of smell	115 (56.3)
Respiratory symptoms	Absence	166 (42.5)
	Presence	225 (57.5)
	Cough	173 (76.8)
	Breathlessness	91 (40.4)
Cardiovascular symptoms	Absence	257 (65.7)
	Presence	134 (34.3)
	Chest pain	56 (41.8)
	Chest tightness	76 (56.7)
	Palpitations	53 (39.5)
Gastrointestinal symptoms	Absence	244 (62.4)
	Presence	147 (37.6)
	Abdominal pain	38 (25.8)
	Nausea	52 (35.3)
	Diarrhea	46 (31.3)
	Reduced appetite	76 (51.7)
	Weight loss	34 (23.1)
Neurological symptoms	Absence	199 (50.9)
	Presence	192 (49.1)
	Loss of concentration	48 (25.0)
	Memory issue	44 (22.9)
	Headache	103 (53.6)
	Sleep disturbance	50 (26.0)
	Tingling and numbness over hands and feet	46 (23.9)
	Dizziness	81 (42.1)
Psychological symptoms	Confusion	16 (8.3)
	Absence	312 (79.8)
	Presence	79 (20.2)
	Depressive symptoms	49 (62.0)
Musculoskeletal symptoms	Anxiety symptoms	51 (64.5)
	Absence	232 (59.3)
	Presence	159 (40.7)

Symptom group	Item	Result
Dermatological symptoms	Joint pain	129 (81.1)
	Muscle pain	78 (49.1)
	Absence	374 (95.7)
	Presence	17 (4.3)
	Rash	15 (88.2)
Other symptoms	Presence	10 (2.6)
Quality of life affected by the above symptoms	Yes	145 (37.1)

Supplemental Table 3. Factors associated with presence of fatigue, depression, stress and anxiety in post COVID19 patients attending health clinics in PKD Kepong and PKD Gombak

Variables	Fatigue			Depression			Stress			Anxiety		
	Absent n (%)	Present n (%)	P value	Absent n (%)	Present n (%)	P value	Absent n (%)	Present n (%)	P value	Absent n (%)	Present n (%)	P value
Age, median(IQR)	36(21)	34(16)	0.184	36(18)	30.5(14)	< 0.001	36(18)	31(14)	<0.001	36(18)	32(18)	0.006
Gender												
Male	73(43.7)	94(56.3)	0.426	134(80.2)	33(19.8)	0.018	136(81.4)	31(18.6)	0.057	118(70.7)	49(29.3)	0.076
Female	107(47.8)	117(52.2)		156(69.6)	68(30.4)		164(73.2)	60(26.8)		139(62.1)	85(37.9)	
Nationality												
Malaysian	179(46.1)	209(53.9)	1	287(74)	101(26)	0.572	297(76.5)	91(23.5)	1	254(65.5)	134(34.5)	0.554
Non-Malaysian	1(33.3)	2(66.7)		3(100)	0(0.0)		3(100)	0(0.0)		3(100)	0(0.0)	
Ethnic												
Malay	137(44.6)	170(55.4)	0.148	232(75.6)	75(24.4)	0.423	235(76.5)	72(23.5)	0.955	204(66.4)	103(33.6)	0.592
Chinese	8(38.1)	13(61.9)		15(71.4)	6(28.6)		17(81.0)	4(19.0)		13(61.9)	8(38.1)	
Indian	33(58.9)	23(41.1)		37(66.1)	19(33.9)		42(75.0)	14(25.0)		34(60.7)	22(39.3)	
Others	2(28.6)	5(71.4)		6(85.7)	1(14.3)		6(85.7)	1(14.3)		6(85.7)	1(14.3)	
Education (N=389)												
No formal education/Primary	5(41.7)	7(58.3)	0.088	11(91.7)	1(8.3)	0.328	10(83.3)	2(16.7)	0.789	9(75.0)	3(25.0)	0.26
Secondary	81(52.9)	72(47.1)		115(75.2)	38(24.8)		119(77.8)	34(22.2)		107(69.9)	46(30.1)	
Tertiary	93(41.5)	131(58.5)		163(72.8)	61(27.2)		170(75.9)	54(24.1)		140(62.5)	84(37.5)	
Occupation												
Working	36(44.4)	45(55.6)	0.75	60(74.1)	21(25.9)	0.96	60(74.1)	21(25.9)	0.503	52(64.2)	29(35.8)	0.731
Not working	143(46.4)	165(53.6)		229(74.4)	79(25.6)		239(77.6)	69(22.4)		204(66.2)	104(33.8)	
Variables	Fatigue			Depression			Stress			Anxiety		
	Absent n (%)	Present n (%)	P value	Absent n (%)	Present n (%)	P value	Absent n (%)	Present n (%)	P value	Absent n (%)	Present n (%)	P value
Income												
B40	155(45.5)	186(54.5)	0.393	248(72.7)	93(27.3)	0.023	257(75.4)	84(24.6)	0.049	223(65.4)	118(34.6)	0.333
M40	23(52.3)	21(47.7)		39(88.6)	5(11.4)		39(88.6)	5(11.4)		32(72.7)	12(27.3)	
T20	0(0.0)	0(0.0)		0(0.0)	98(25.5)		0(0.0)	89(23.1)		0(0.0)	0(0.0)	
Marital Status												
Married	115(45.5)	138(54.5)	0.398	196(77.5)	57(22.5)	0.091	200(79.1)	53(20.9)	0.452	176(69.9)	77(30.4)	0.071
Single	52(44.4)	65(55.6)		78(66.7)	39(33.3)		84(71.8)	33(28.2)		66(56.4)	51(43.6)	
Divorced	9(69.2)	4(30.8)		11(84.6)	2(15.4)		10(76.9)	3(23.1)		10(76.9)	3(23.1)	
Widowed	4(50.0)	4(50.0)		5(62.5)	3(37.5)		6(75)	2(25)		5(62.5)	3(37.5)	
No of family members living in the same household infected with COVID19												
0-1	46(40.4)	68(59.6)	0.336	83(72.8)	31(27.2)	0.252	88(77.2)	26(22.8)	0.984	72(63.2)	42(36.8)	0.709
2-3	66(47.5)	73(52.5)		98(70.5)	41(29.5)		106(76.3)	33(23.7)		91(65.5)	48(34.5)	
>=4	68(49.3)	70(50.7)		109(79.0)	29(21.0)		106(76.8)	32(23.2)		94(68.1)	44(31.9)	
Presence of family member living in the same household passed away due to COVID19												
YES	175(47.2)	196(52.8)	0.053	277(74.7)	94(25.3)	0.336	289(77.9)	82(22.1)	0.028	246(66.3)	125(33.7)	0.299
NO	5(25.0)	15(75.0)		13(65.0)	7(35.0)		11(55.0)	9(45.0)		11(55.0)	9(45.0)	

Variables	Fatigue			Depression			Stress			Anxiety		
	Absent n (%)	Present n (%)	P value	Absent n (%)	Present n (%)	P value	Absent n (%)	Present n (%)	P value	Absent n (%)	Present n (%)	P value
Smoking Status												
Non Smoker	154(46.8)	175(53.2)	0.48	242(73.6)	87(26.4)	0.524	254(77.2)	75(22.8)	0.607	217(66.0)	112(34)	0.826
Ever Smoker	26(41.9)	36(58.1)		48(77.4)	14(22.6)		46(74.2)	16(25.8)		40(64.5)	22(35.5)	
Category												
CAT1/CAT2	156(47.0)	176(53.0)	0.505	249(75.0)	83(25.0)	0.181	257(77.4)	75(22.6)	0.275	223(67.2)	109(32.8)	0.048
CAT3	18(43.9)	23(56.1)		31(75.6)	10(24.4)		32(78.0)	9(22.0)		27(65.9)	14(34.1)	
CAT4/5	6(33.3)	12(66.7)		10(55.6)	8(44.4)		11(61.1)	7(38.9)		7(38.9)	11(61.1)	
Days of Admission (n=58)												
Median(IQR)	5(4)	7(5)	0.009	7(4)	7(5)	0.23	7(5)	7(5)	0.432	7(5)	7(5)	0.45
Vaccination Status												
Not Vaccinated	31(29.7)	47(60.3)	0.001	62(79.5)	16(20.5)	0.326	60(76.9)	18(23.1)	0.991	52(66.7)	26(33.3)	0.956
Incomplete	14(26.4)	39(73.6)		36(67.9)	17(32.1)		41(77.4)	12(22.6)		34(64.2)	34(64.2)	
Complete+Booster	135(51.9)	125(48.1)		192(73.8)	68(26.2)		199(76.5)	61(23.5)		171(65.8)	171(65.8)	
DM												
YES	19(50.0)	19(50.0)	0.606	33(86.8)	5(13.2)	0.06	34(89.5)	4(10.5)	0.05	27(71.1)	11(28.9)	0.467
NO	161(45.6)	192(54.4)		257(72.8)	96(27.2)		266(75.4)	87(24.6)		230(65.2)	123(34.8)	
Hypertension												
YES	31(57.4)	23(42.6)	0.071	46(85.2)	8(14.8)	0.046	47(87.0)	7(13.0)	0.053	40(74.1)	14(25.9)	0.164
NO	149(44.2)	188(55.8)		244(72.4)	93(27.6)		253(75.1)	84(24.9)		217(64.4)	120(35.6)	
High Cholesterol												
YES	12(50.0)	12(50.0)	0.688	18(75.0)	6(25.0)	0.924	18(75.0)	6(25.0)	0.836	13(54.2)	11(45.8)	0.218
NO	168(45.8)	199(54.2)		272(74.1)	95(25.9)		282(76.8)	85(23.2)		244(66.5)	123(33.5)	

Supplemental Table 4. Factors associated with presence of fatigue, depression, stress and anxiety in post Covid- 19 patients attending health clinics in PKD kepong and PKD gombak.

Variables	Fatigue		Depression		Stress		Anxiety	
	COR (95% CI)	AOR (95% CI)	COR (95% CI)	AOR (95% CI)	COR (95% CI)	AOR (95% CI)	COR (95% CI)	AOR (95% CI)
No of family members living in the same household infected with COVID 19								
0	0.00(0.00,-)	-	0.00(0.00,-)	-	0.00(0.00,-)	-	0.00 (0.00,-)	-
1	1.68(0.93, 3.02)		1.13(0.58, 2.20)		0.90 (0.46, 1.77)		1.14(0.62, 2.09)	
2	0.95(0.49, 1.85)		1.64(0.79, 3.40)		1.06 (0.50, 2.27)		1.37(0.69, 2.71)	
3	1.54(0.81, 2.94)		0.96 (0.46, 2.03)		0.83(0.39, 1.77)		0.76(0.38, 1.52)	
4	1.35(0.69, 2.65)		0.58(0.25,1.35)		0.80(0.36, 1.78)		0.79(0.38, 1.62)	
5 or more	1		1		1		1	
No of family members living in the same household infected with COVID 19								
0-1	1		1		1		1	
2-3	0.75(0.45,1.24)		1.12(0.65,1.94)		1.05(0.59,1.89)		0.90(0.54,1.52)	
>=4	0.70(0.42,1.15)		0.71(0.40,1.27)		1.02(0.57,1.84)		0.80(0.48,1.35)	
Presence of family member living in the same household passed away due to COVID19								
No	1	1	1	-	1	1	1	-
Yes	2.68(0.95, 7.52)	2.93*(1.02,8.38)	1.59(0.62, 4.10)		2.88*(1.16, 7.20)	3.08*(1.19,8.03)	1.61(0.65, 3.99)	
Variables	Fatigue		Depression		Stress		Anxiety	
	COR (95% CI)	AOR (95% CI)	COR (95% CI)	AOR (95% CI)	COR (95% CI)	AOR (95% CI)	COR (95% CI)	AOR (95% CI)
Smoking Status								
Non smoker	1	-	1	-	1	-	1	-
Ever smoker	1.22(0.70,2.11)		0.81(0.43,1.54)		1.18(0.63,2.20)		1.07(0.60,1.88)	
Category								
CAT1/CAT2	1		1	0	1	-	1	1
CAT3	1.13 (0.59, 2.18)		0.97(0.46, 2.06)	0.79(0.35-1.80)	0.96(0.44, 2.11)		1.06(0.54, 2.10)	0.91(0.44,1.89)
CAT4/5	1.77(0.65, 4.84)		2.40 (0.92, 6.28)	2.94(1.09-7.89)	2.18(0.82, 5.82)		3.22*(1.21, 8.52)	3.30*(1.25,8.70)
Vaccination Status								
Not vaccinated	1	1	1		1		1	
Incomplete	1.84(0.86-3.93)	2.25*(1.03,4.93)	1.83(0.83,4.06)		0.98(0.43,2.24)		1.12(0.54,2.33)	
Complete+Booster	0.61(0.37-1.02)	0.66(0.39,1.13)	1.37(0.74,2.54)		1.02(0.56,1.86)		1.04(0.61,1.78)	
DM								
NO	1	-	1	-	1	-	1	-
YES	0.84(0.43,1.64)		0.41(0.15,1.07)		0.36(0.12,1.04)		0.76(0.37,1.59)	
Hypertension								
NO	1	-	1	-	1	-	1	-
YES	0.59(0.33,1.05)		0.46(0.21,1.003)		0.45(0.20,1.03)		0.63(0.33,1.21)	
High Cholesterol								
NO	1	-	1	-	1	-	1	1
YES	0.84(0.37,1.93)		0.95(0.37,2.48)		1.11(0.43,2.87)		1.68*** (0.73,3.86)	3.44** (1.34,8.80)
Heart Disease								
NO	1	-	1	3.90(0.82-18.51)	1	-	1	1
YES	2.61(0.52,13.07)		2.95(0.72,12.02)	0	0.47(0.06,3.83)		5.98*(1.19,30.03)	8.10*(1.45,45.31)
Stroke								
NO	1	-	1	-	1	-	1	-
YES	-		1.44(0.13,16.05)		-		0.96(0.09,10.67)	
Asthma								
NO	1	-	1	-	1	-	1	-
YES	0.85(0.17,4.27)		1.44(0.26,8.01)		1.66(0.30,9.23)		0.96(0.17,5.30)	

* p < 0.05, ** p < 0.01, *** p< 0.25) simple logistic regression univariate and multiple logistic regression.