

Supplementary Tables

Supplementary Table 1. Primer and probe sequences. Assays were performed as duplex assays by incorporation of FAM or HEX reporter labelled probes: HSV1& HSV2; EBV & CMV; HHV6A & HHV6B; HHV7 & HHV8. VZV was performed as a single assay.

Target	Forward Primer	Reverse Primer	Probe
HSV-1 (gD_U56)	CGGCCGTGTGACACTAT CG	CTCGTAAAATGGCCCT CC	FAM- CCATACCGACCACACCG ACGAACC-BHQ1
HSV-2 (gG_U54)	CGCTCTCGTAAATGCTTC CCT	TCTACCCACAACAGACC CACG	HEX- CGCGGAGACATTGAGT ACCAGATCG-BHQ1
VZV (DNA polymerase)	CGGCATGGCCCGTCTAT	TCGCGTGCTGCGGC	FAM- ATTCAAGCAATGGAAACA CACGACGCC-BHQ1
EBV (BALF5)	CGGAAGCCCTCTGGACT TC	CCCTGTTATCCGATGG AATG	FAM- TGTACACGCACGAGAAA TGCGCC-BHQ1
CMV (UL55)	TGGGCGAGGACAACGAA	TGAGGGCTGGGAAGCTGA CAT	HEX- TGGGCAACCACCGCACT GAGG-BHQ1
HHV-6A (U67/68)	TTCCGGTATATGACCTTC GTAAGC	GATGTCTCACCTCCAAA TCTTAGAAAT	6FAM- CATTATATATCGAACATCTG ACGCTACCTTCCG-BHQ1
HHV-6B (U67/68)			HEX- ACATTATATGTCGAACCTT GACACTACCTTCCG- BHQ1
HHV-7 (gB_U39)	TTTCCTGTGACAAAAGA AGCAGTTA	ATCCCACACGCTTACGG	FAM- TTCTGCGCAATAAGT GAAAACTGTTAGCATT- BHQ1
HHV-8 (MCP_Orf25)	CCACCCCTCGAATGCACA AC	GTCGGGATCGGGAAAAG CT	HEX- CCACCCAGTCAGCCCCAG GCACTAAC-BHQ1

Supplementary Table 2. Participants Characteristics of HHV DNA positivity from Plasma and PBMC

	Participant number (n=)	Gender (n=)	Age, median (IQR)	From DNA positive sample	
				Detected HHV	Age range (n=)
HC	Total	76	F (62)/ M (14)	44.0 (32.3-52.8)	
	DNA negative	63	F (49)/ M (14)	46.0 (35.0-54.0)	
	DNA positive	13	F (13)	32.0 (24.0-43.0)	
ME/CFS -MM	EBV	18-29 (1) 41-60 (2)			
	HHV-6A	30-40 (1)			
	HHV-6B	18-29 (1) 30-40 (1)			
	HHV-7	18-29 (3) 30-40 (1) 41-60 (2)			
	CMV+HHV-7	30-40 (1)			
	EBV	41-60 (2)			
	HHV-7	18-29 (4) 30-40 (2) 41-60 (3)			
	EBV	41-60 (1)			
	HHV-7	18-29 (1) 30-40 (4) 41-60 (2)			
	EBV+HHV-7	18-29 (1) 41-60 (1)			
MC/CFS -SA	Total	33	F (25) / M (8)	48.0 (34.0-53.5)	
	DNA negative	23	F (15) / M (8)	49.0 (39.0-53.0)	
	DNA positive	10	F (10)	36.5 (30.5-55.3)	
MS	EBV	41-60 (1)			
	HHV-7	18-29 (1) 30-40 (4) 41-60 (2)			
	EBV+HHV-7	18-29 (1) 41-60 (1)			
	HSV-2	41-60 (1)			

Supplementary Table 3: Prevalence of HHV positivity by time in people with ME/CFS and healthy controls. Borderline significant results (0.05< p <0.1) are shown in **bold**.

	Prevalence (%)			Chi-square	
	HC	ME/CFS_ MM	ME/CFS_ SA	P value	
				HC vs MM	HC vs SA
HSV-1	M1	6.25	7.14	6.25	0.9221 >0.999
	M2	6.67	0.00	12.50	0.3255 0.5830
	M3	0.00	0.00	0.00	n/a n/a
	M4	20.00	10.00	6.25	0.5040 0.2538
	M5	0.00	0.00	0.00	n/a n/a
	M6	7.14	0.00	13.33	0.4123 0.5844
EBV	M1	56.25	28.57	37.50	0.1269 0.2879
	M2	40.00	42.86	25.00	0.8759 0.3719
	M3	42.86	38.46	25.00	0.8163 0.3006
	M4	40.00	50.00	43.75	0.6217 0.8325
	M5	40.00	50.00	26.67	0.6217 0.4386
	M6	28.57	33.33	33.33	0.8086 0.7818
HHV-6B	M1	25.00	28.57	56.25	0.8253 0.0719
	M2	33.33	28.57	37.50	0.7818 0.8085
	M3	14.29	46.15	43.75	0.0700 0.0789
	M4	26.67	50.00	50.00	0.2338 0.1826
	M5	13.33	40.00	40.00	0.1262 0.0986
	M6	28.57	22.22	26.67	0.7350 0.9087
HHV-7	M1	93.75	92.86	87.50	0.9221 0.5442
	M2	88.67	100.00	87.50	0.1568 0.9449
	M3	85.71	92.31	87.50	0.5860 0.8859
	M4	93.33	100.00	87.50	0.4047 0.5830
	M5	93.33	90.00	86.67	0.7634 0.5428
	M6	85.71	100.00	86.67	0.2354 0.9408

Supplementary Table 4. HHV viral load in saliva of participants who were HHV DNA positive in the ddPCR screening assay of plasma and PBMC

		Median viral load (IQR, copies/ml saliva) for 6 months				
Participant ID (age/gender)		Detected HHV (sample type)	HSV-1	EBV	HHV-6B	HHV-7
HC	6070 (18/F)	HHV-6B (plasma)	0	4080 (0-60300)	161700 (1208500- 2889315)	29348 (18095-39050)
	8036 (44/F)	EBV (PBMC)	0	0 (0-58560)	0	10500 (8313-12556)
	13006 (42/F)	HHV-6B (plasma)	0	0 (0-8208)	0 (0-108)	0
	13018 (23/F) *	EBV (PBMC)	0	4500	0	26333
	13025 (32/F)	HHV-7/CMV (PBMC)	0	0	580 (0-790.4)	3900 (2691-4855)
ME/ CFS MM	1030 (42/F)	HHV-7 (PBMC)	0	0 (0-2850)	0 (0-660)	261300 (129183- 576350)
	7079 (53/F)	EBV (PBMC)	0	80242 (10291- 197375)	0	1917 (1423-3311)
ME/ CFS SA	6041 (35/F)	HHV-7 (PBMC)	0 (0-1068750)	0 (0-1319)	2097 (1698-2887)	37470 (23010-50297)
	6046 (32/F)	HHV-7 (PBMC)	0	14329 (0-424833)	0	22500 (15583-30427)
	6049 (55/F)	HHV-7 (PBMC)	0 (0-19755)	14738 (0-44250)	72 (0-489)	46287 (37275-61250)
	6052 (57/F)	HHV-7/EBV (PBMC)	0	0 (0-445)	0 (0-690)	13400 (9650-17550)
	6068 (18/F)	HHV-7/EBV (PBMC)	0	10800 (0-26152)	2023 (1652-2847)	50630 (36745-62950)

*One time visited

Supplementary Table 5. Age related HHV viral load in saliva

Median viral load (IQR, copies/ml saliva) for 6 months								
		n	EBV	P value	HHV-6B	P value	HHV-7	P value
HC	UNDER 40	6	2040 (0.0-26225)	0.696	290.0 (0-405100)	0.036	27841 (4100 -37763)	0.147
	OVER 40	10	0.0 (0.0-7077)		0.0 (0.0 - 0.0)		7330 (661.3-19475)	
ME/CFS_ MM	UNDER 40	4	0.0 (0.0 - 0.0)	0.296	591.6 (145.8-770.5)	0.031	11571 (2633-35777)	0.142
	OVER 40	10	0.0 (0.0 - 146063)		0.0 (0.0 -0.0)		70375 (4192-103187)	
ME/CFS_ SA	UNDER 40	7	0.0 (0.0 - 10800)	0.677	2023.0 (0.0-2225)	0.132	23276 (13480 -50630)	0.516
	OVER 40	9	0.0 (0.0 - 7369)		0.0 (0.0 – 156.0)		13400 (2934-95087)	

Supplementary Table 6. Concurrent salivary HHV distribution over time

HC (n=)	Month1	Month2	Month3	Month4	Month5	Month6
1 not detected	-	1	1	1	1	1
2 EBV only	1	1	1	-	-	-
3 HHV-6B ONLY	-	-	-	-	-	1
4 HHV-7 only	6	5	6	7	7	4
5 HHV-7+HHV-6B	-	2	1	1	1	3
6 HHV-7+EBV	5	2	4	1	5	4
7 HHV-7+HHV-6B+EBV	3	3	1	2	1	-
8 HHV-7+HHV-6B+HSV-1	1	-	-	-	-	-
9 HHV-7+EBV+HSV-1	-	-	-	2	-	-
10 HHV-7+HSV-1	-	1	-	-	-	1
11 HSV-1+ EBV	-	-	-	-	-	-
12 HSV-1+EBV+HHV-6B+HHV-7	-	-	-	1	-	-
	16	15	14	15	15	14

ME/CFS_MM (n=)	Month1	Month2	Month3	Month4	Month5	Month6
1 not detected	1	-	-	-	1	-
2 EBV only	-	-	-	-	-	-
3 HHV-6B only	-	-	1	-	-	-
4 HHV-7 only	6	5	3	1	1	4
5 HHV-7+HHV-6B	3	3	4	2	3	2
6 HHV-7+EBV	2	5	4	4	4	3
7 HHV-7+HHV-6B+EBV	1	1	1	2	1	-
8 HHV-7+HHV-6B+HSV-1	-	-	-	1	-	-
9 HHV-7+EBV+HSV-1	1	-	-	-	-	-
10 HHV-7+HSV-1	-	-	-	-	-	-
11 HSV-1+EBV	-	-	-	-	-	-
12 HSV-1+EBV+HHV-6B+HHV-7	-	-	-	-	-	-
	14	14	13	10	10	9

ME/CFS_SA (n=)	Month1	Month2	Month3	Month4	Month5	Month6
1 not detected	1	1	1	1	1	1
2 EBV only	1	-	1	-	1	-
3 HHV-6B only	-	-	-	-	-	-
4 HHV-7 only	4	6	6	5	4	7
5 HHV-7+HHV-6B	5	4	5	3	6	2
6 HHV-7+EBV	1	1	1	1	3	2
7 HHV-7+HHV-6B+EBV	3	2	2	5	-	1
8 HHV-7+HHV-6B+HSV-1	1	-	-	-	-	-
9 HHV-7+EBV+HSV-1	-	-	-	-	-	-
10 HHV-7+HSV-1	-	1	-	-	-	-
11 HSV-1+EBV	-	1	-	1	-	1
12 HSV-1+EBV+HHV-6B+HHV-7	-	-	-	-	-	1
	16	16	16	16	15	15

Supplementary Table 7. The R value of Spearman's analysis between HHV virus and ME/CFS symptom scores from ME/CFS_SA

Spearman r	HSV-1	EBV	HHV-6B	HHV-7	PEM	Sleepdysf	Pain	Neurocog	Autonomic	Neuroendo	Immune
ME/CFS_SA-pattern 1 Fluctuating repertoire (n = 8)	HSV-1	1									
	EBV	-0.033	1								
	HHV-6B	0.055	0.096	1							
	HHV-7	0.102	0.253	0.167	1						
	PEM	0.232	-0.022	0.284	0.202	1					
	Sleepdysf	-0.122	-0.182	0.472***	-0.202	0.120	1				
	Pain	0.158	0.100	0.522***	0.491***	0.646***	-0.010	1			
	Neurocogn	0.117	0.046	0.650***	0.443**	0.414**	0.308*	0.746***	1		
	Autonomic	0.168	0.205	0.496***	0.472***	0.524***	0.038	0.835***	0.666***	1	
	Neuroend	-0.034	-0.180	0.460**	0.053	0.105	0.724***	0.147	0.263	0.294*	1
	Immune	0.243	-0.021	0.407**	0.060	0.480***	0.156	0.719***	0.410**	0.762***	0.335*
ME/CFS_SA-pattern 2 Stable repertoire (n = 7)	HSV-1	1									
	EBV	0.597***	1								
	HHV-6B	-0.200	-0.261	1							
	HHV-7	-0.412**	-0.453**	0.176	1						
	PEM	-0.016	0.288	-0.240	-0.324*	1					
	Sleepdysf	0.146	0.256	-0.033	-0.103	0.251	1				
	Pain	0.160	0.476**	-0.594***	-0.055	0.467**	0.322*	1			
	Neurocogn	0.260	0.401**	-0.431**	-0.306*	0.358*	0.213	0.557***	1		
	Autonomic	0.316*	0.389*	-0.250	-0.170	0.246	0.697***	0.354*	0.429**	1	
	Neuroend	0.005	0.262	-0.415**	-0.146	0.549***	0.538***	0.624***	0.556***	0.611***	1
	Immune	0.088	0.183	-0.157	-0.145	0.388*	0.169	0.471**	0.590***	0.298	0.388*
ME/CFS_acute illness episode (ME/CFS_SA; n=6, ME/CFS_M M; n=1)	HSV-1	1									
	EBV	-0.111	1								
	HHV-6B	0.292	0.139	1							
	HHV-7	-0.306	0.003	0.548**	1						
	PEM	-0.409	-0.428*	-0.647**	-0.089	1					
	Sleepdysf	0.205	0.504*	0.454*	0.211	-0.321	1				
	Pain	-0.016	-0.203	-0.426*	-0.226	0.625**	0.258	1			
	Neurocogn	0.325	0.112	0.059	-0.382	-0.294	0.314	0.239	1		
	Autonomic	-0.179	0.204	-0.195	0.019	0.300	0.381	0.380	0.130	1	
	Neuroend	-0.260	0.306	0.268	0.315	-0.066	0.526*	0.133	0.070	0.517*	1
	Immune	0.228	-0.384	-0.122	-0.043	0.597**	0.140	0.564**	-0.063	0.376	0.129

Supplementary Figures

ME/CFS RESEARCH PROJECT
SYMPTOMS ASSESSMENT – DAY 1 of acute illness or significant
worsening of symptoms



Sex: Male <input type="checkbox"/>	Female <input type="checkbox"/>	Project ID N° _____	(For LSHTM use only)
Date of birth: _____ / _____ / _____ (dd/mm/yyyy)	Today's date: _____ / _____ / _____ (dd/mm/yyyy)		

A. Please describe your current illness or worsening of symptoms.

1. How much time during the past week...

	None of the time	A little of the time	Some of the time	A good bit of the time	Most of the time	All of the time
Did you feel worn out?	0	1	2	3	4	5
Did you have a lot of energy?	0	1	2	3	4	5
Did you feel tired?	0	1	2	3	4	5
Did you have enough energy to do the things you wanted to do?	0	1	2	3	4	5
Did you feel full of pep (lively)?	0	1	2	3	4	5

2. Please mark the line with an 'X' to describe the severity of pain that you are currently experiencing (think of the last week including today), from no pain at all (mark on the left of the line) to maximum pain (mark on the right of the line).

Pain as bad
as possible

3. Please mark the line with an 'X' to describe the severity of fatigue that you are currently experiencing (think of the last week including today), from no fatigue at all (mark on the left of the line) to maximum fatigue (mark on the right of the line).

Fatigue as bad
as possible

Please mark the next two lines thinking about how much of that fatigue is physical and how much is mental.

No physical fatigue

Physical fatigue as bad
as possible

No mental fatigue

Mental fatigue as bad
as possible

4. Please tick the boxes using the scale above them to tell us more about which of the symptoms listed below you have had over the past week:

	Absent	Mild	Moderate	Severe
1. Sore throat				
2. Symptoms of flu				
3. Fever or chills				
4. Tender glands in the neck or arm pit				
5. Viral infections				
6. Sensitivities to food, medications, chemicals, smells/odours, and/or other				
6.a. Intolerance to alcohol (alcohol makes you feel ill/much worse)				
7. Feeling ill (malaise) after exertion/activity which lasts for a long time (more than 24 hours)				
8. Pain after exertion/activity which lasts for a long time (more than 24 hours)				
9. Muscle pain				
10. Muscle discomfort				
10.a. Muscle twitching				
11. Stiffness in the mornings				
11a. Pain in chest or abdomen				
12. Pain in two or more joints, without swelling or redness				
13. Joint pains moving to different joints without swelling or redness				

14. Neck weakness			
15. Back weakness			
16. Air hunger, difficulty in breathing or shortness of breath on exertion/activity			
17. Muscle weakness			
18. Headaches which are new, different or worse than before the disease started			
19. Migraine which is different/worse than before			
20. Unusual sensitivity to light and/or noise			
21. Temporary disturbance in eyesight			
22. Tingling or numbness in arms and/or legs			
23. Loss of balance, unsteadiness on feet when standing, or inability to focus the vision			
24. Poor coordination or unsteady movements (unsteadiness on walking)			
25. Short term memory problems			
26. Trouble concentrating			
27. Confusion or 'brain fog'			
28. Disorientation			
29. Difficulty understanding things, thinking clearly			
29.a. Difficulty finding or saying words			
30. Difficulty retaining/ recalling information			
31. Slow thinking			
31.a. Difficulty making decisions			
32. Unrefreshing sleep			
33. Problems in sleep quality or duration (other than sleep apnoea), such as insomnia, changing night for day, awakening during the night			
34. Marked physical or mental fatigue or exhaustion after minimal exertion/activity, which lasts for a long time (more than 24 hours)			
35. Fatigue or exhaustion after levels of activity that should normally not cause fatigue (i.e. would not cause fatigue before you got ill)			
36. Intolerance to exercise (it is difficult to exercise)			
37. Worsening of symptoms after exertion/activity, which lasts for a long time (more than 24 hours)			
38. Worsening of symptoms with stress			

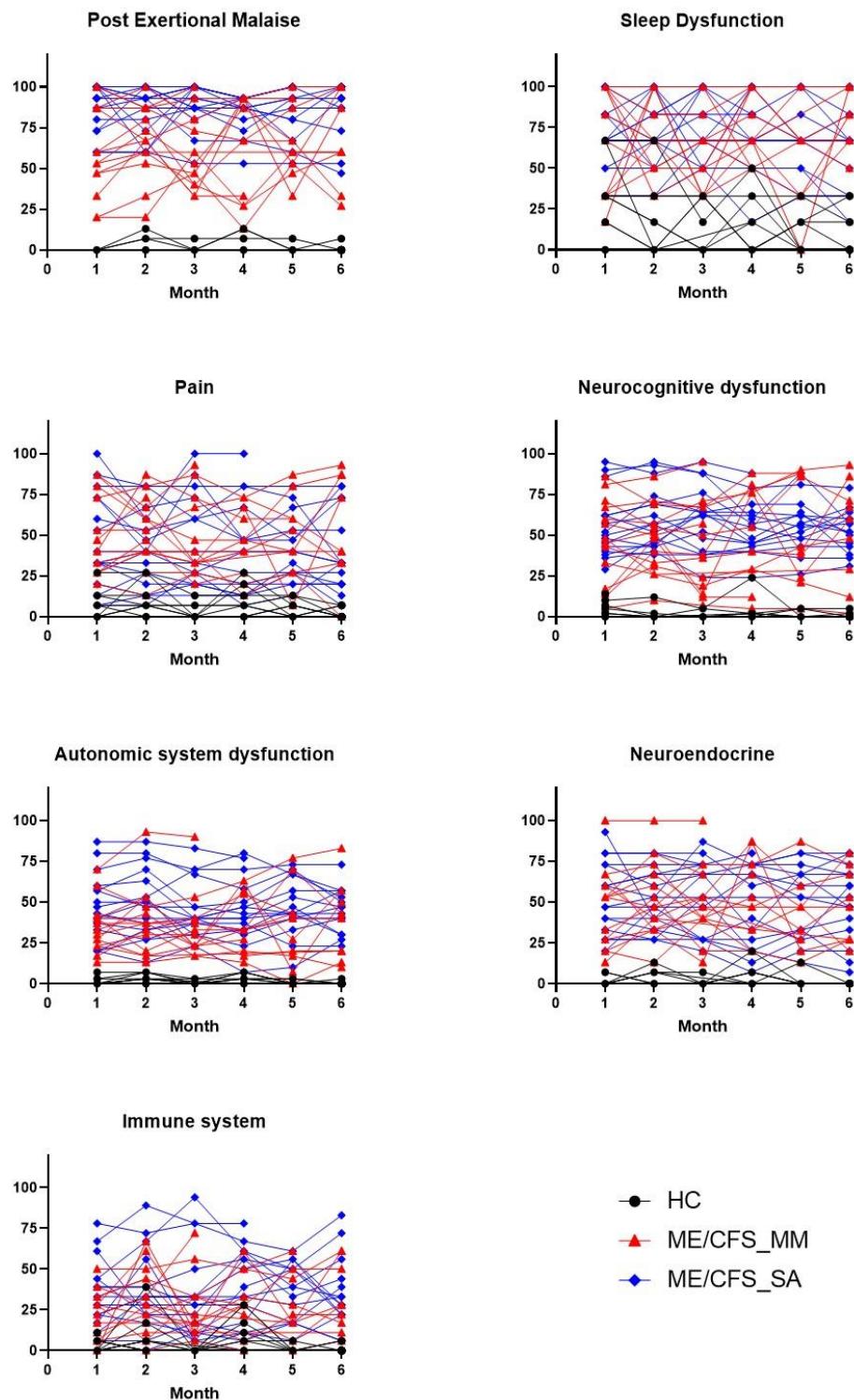
39. Intolerance to (difficulty with) standing on your feet			
40. Dizziness while standing up			
41. Palpitations while standing up			
41a. Palpitations (feeling that your heart is racing or pounding)			
42. Feeling light-headed			
43. Being extremely pale			
44. Being unusually sweaty			
44a. Unusually cold hands or feet			
45. Intolerance to extremes of heat and cold			
46. Feeling sick (nausea)			
46. a. Irritable bowel symptoms, such as diarrhoea or constipation, abdominal pain, and bloating			
47. Bladder problems, such as having a sudden need to urinate (pass water), urinating more often than usual, or waking up during the night to pass water			
48. Decreased sexual interest and/or function			
49. Abnormal appetite or significant changes in weight (not intentional)			



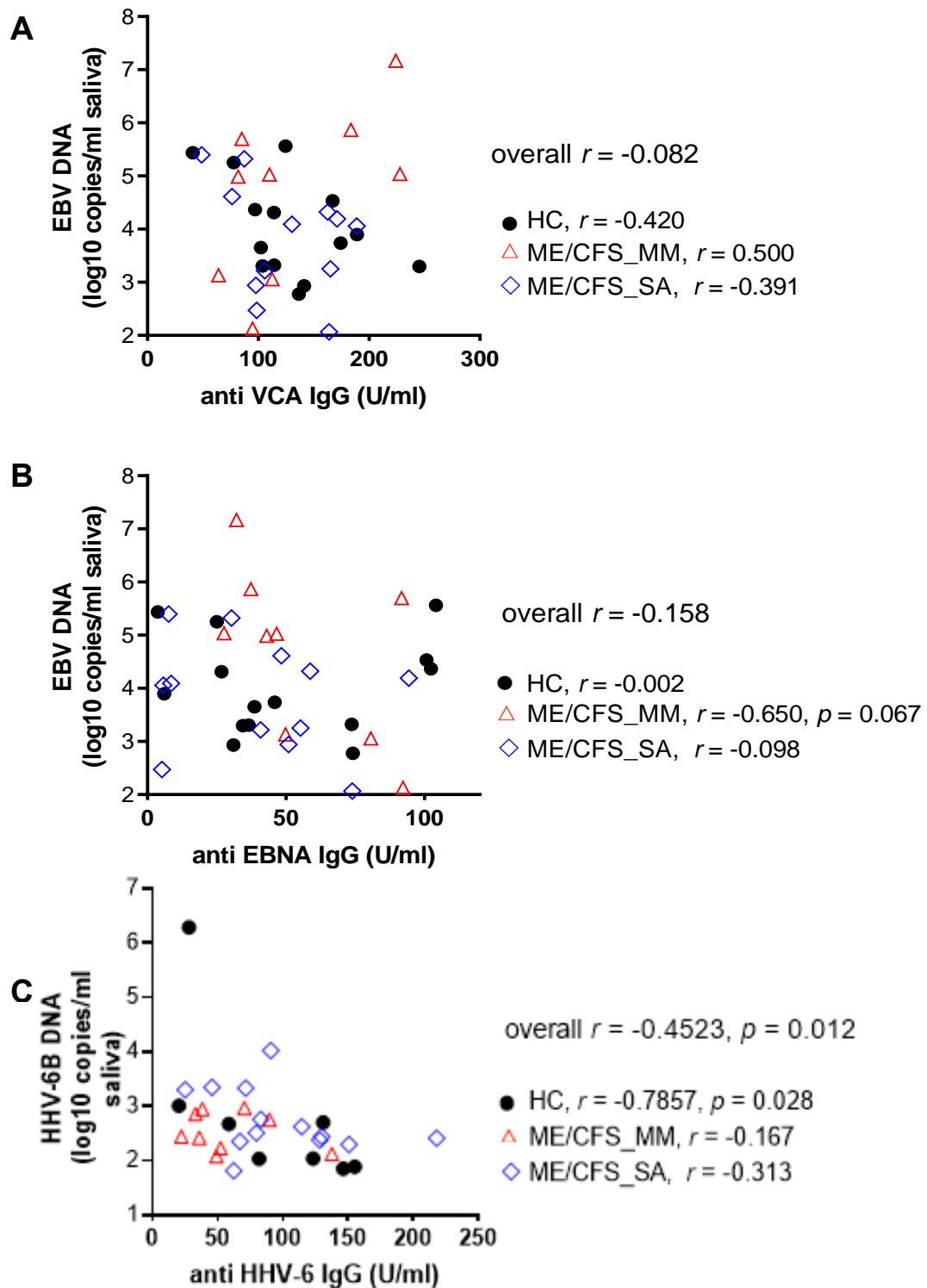
END OF FORM - If you have any queries, please phone the research nurse on 020 7XXX XXXX and she will be happy to help you.

Thank you for continuing to participate!

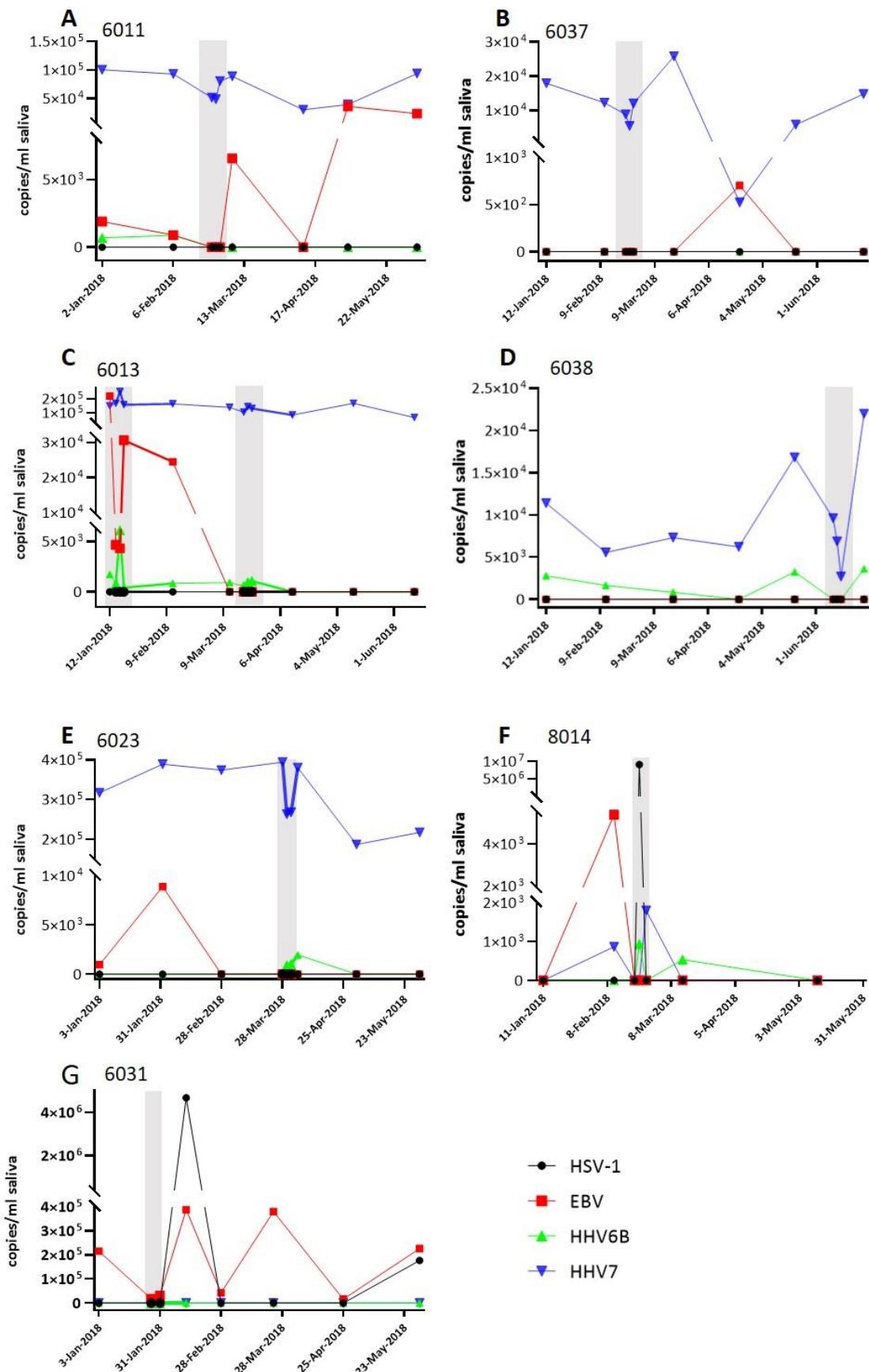
Supplementary Figure 1. Clinical symptom assessment forms. The form was completed by the participant at the time that each saliva sample was collected and returned, i.e. at Month 1, 2, 3, 4, 5 and 6 and then there was an disease exacerbation episode.



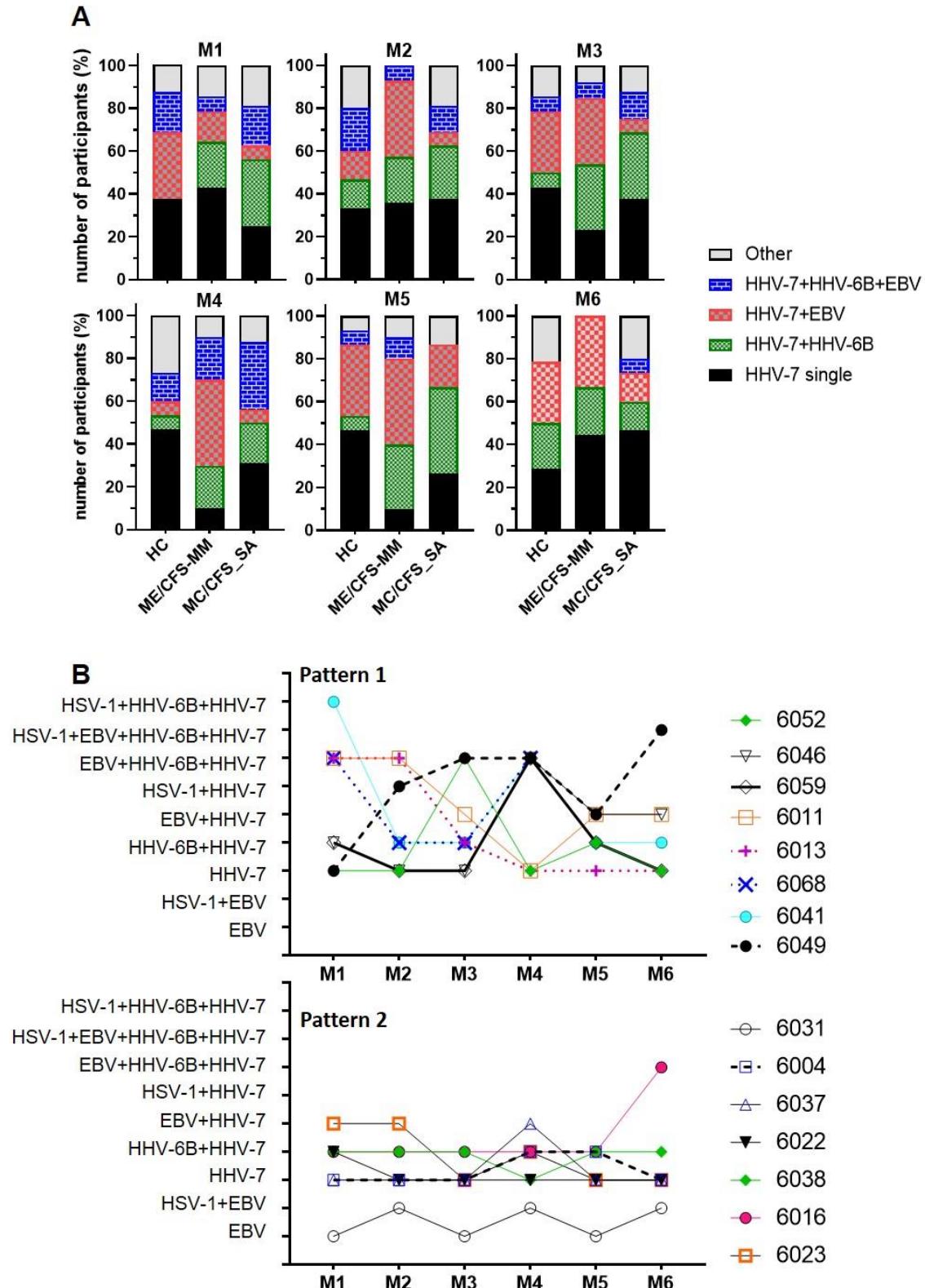
Supplementary Figure 2: Reported symptoms at monthly intervals in participants with mild/moderate (red) or severe (blue) ME/CFS or from healthy controls. Self-reported symptoms were submitted via questionnaire, with weighted responses determined under each symptom domain for each participant at each time point, on a scale of 1 – 100.



Supplementary Figure 3. Correlation analysis between salivary HHV viral DNA concentration and anti HHV IgG titre. (A) EBV viral DNA concentration with anti VCA IgG (B) EBV viral DNA concentration with anti EBNA IgG (C) HHV-6B viral load with anti HHV-6 IgG. Average viral DNA concentration measured monthly for 6 months was analysed with previously measured plasma anti HHV IgG level. Spearman's coefficient was denoted as r . * $, p < 0.05$. Zero DNA concentration values are not shown due to the logarithmic values but were included in the analysis.



Supplementary Figure 4. Change of HHV viral DNA concentrations in people with ME/CFS (n=7) who had acute illness or worsening disease severity (highlighted in grey).



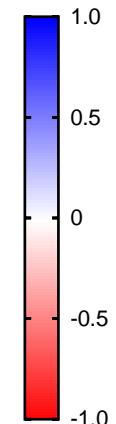
Supplementary Figure 5. Concurrent salivary HHV distribution over time. A) Distribution of different combinations of HHV DNA detected in saliva from participants with mild/moderate (MM) or severe (SA) ME/CFS and healthy controls (HC). B) Severely affected ME/CFS patients had either fluctuating HHV DNA repertoires (Pattern 1) or more constant repertoires (Pattern 2).

A

	HSV-1	EBV	HHV6B	HHV7	PEM	Sleepdysf	Pain	Neurocogn	Autonomic	Neuroend	Immune
HSV-1	1.00	0.01	0.02	0.10	-0.05		-0.04	0.02	-0.09	-0.03	
EBV	0.01	1.00	-0.24	0.17		-0.09	-0.04	0.11	0.09	0.16	-0.07
HHV6B	0.02	-0.24	1.00	0.17	-0.03	0.06	0.01	-0.15	-0.22	0.02	-0.12
HHV7	0.10	0.17	0.17	1.00	-0.18	-0.20	-0.04	0.07	-0.04	-0.08	0.06
PEM	-0.05		-0.03	-0.18	1.00	0.59	0.71	0.80	0.66	0.60	0.59
Sleepdysf		-0.09	0.06	-0.20	0.59	1.00	0.35	0.50	0.53	0.56	0.28
Pain	-0.04	-0.04	0.01	-0.04	0.71	0.35	1.00	0.71	0.65	0.53	0.69
Neurocogn	0.02	0.11	-0.15	0.07	0.80	0.50	0.71	1.00	0.78	0.59	0.68
Autonomic	-0.09	0.09	-0.22	-0.04	0.66	0.53	0.65	0.78	1.00	0.67	0.63
Neuroend	-0.03	0.16	0.02	-0.08	0.60	0.56	0.53	0.59	0.67	1.00	0.43
Immune	-0.07	-0.12	0.06	0.59	0.28	0.69	0.68	0.63	0.43	0.00	1.00

B

	HSV-1	EBV	HHV6B	HHV7	PEM	Sleepdysf	Pain	Neurocogn	Autonomic	Neuroend	Immune
HSV-1	1.00	0.27	-0.06	0.09	0.11	0.01	0.16	0.16	0.24	-0.05	0.16
EBV	0.27	1.00		0.11	0.11	0.06	0.25	0.23	0.29	0.01	0.07
HHV6B	-0.06		1.00	0.22	0.01	0.12	-0.03	0.09	0.14	-0.03	0.11
HHV7	-0.09	0.11	0.22	1.00	-0.02	-0.08	0.25	0.17	0.24	0.09	0.06
PEM	0.11	0.11	0.01	-0.02	1.00	0.17	0.59	0.38	0.43	0.31	0.42
Sleepdysf	0.01	0.06	0.12	-0.08	0.17	1.00	0.12	0.26	0.33	0.62	0.18
Pain	0.16	0.25	-0.03	0.25	0.59	0.12	1.00	0.66	0.66	0.31	0.60
Neurocogn	0.16	0.23	0.09	0.17	0.38	0.26	0.66	1.00	0.55	0.37	0.44
Autonomic	0.24	0.29	0.14	0.24	0.43	0.33	0.66	0.55	1.00	0.39	0.55
Neuroend	-0.05	0.01	-0.03	0.09	0.31	0.62	0.31	0.37	0.39	1.00	0.38
Immune	0.16	0.07	0.11	0.06	0.42	0.18	0.60	0.44	0.55	0.38	1.00



ME/CFS_MM

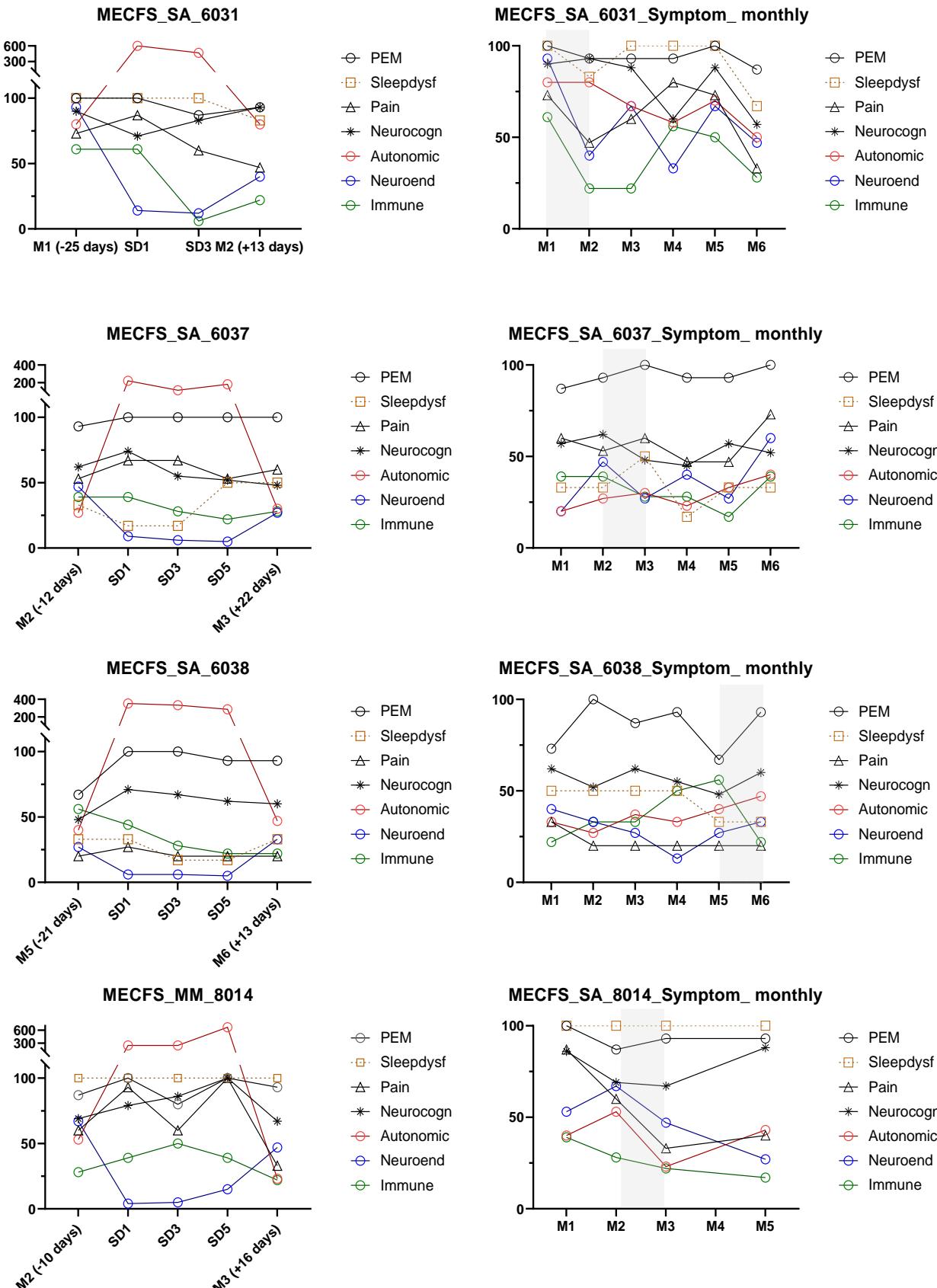
ME/CFS_SA

C

	HSV-1	EBV	HHV6B	HHV7	PEM	Sleepdysf	Pain	Neurocogn	Autonomic	Neuroend	Immune
HSV-1	1.00	0.05	0.05	0.19	0.06	0.10	0.01	0.05	0.36	0.01	0.22
EBV	0.05	1.00	0.18	0.28	-0.08	-0.16	-0.01	-0.11	0.08	0.01	0.01
HHV6B	0.05	0.18	1.00	0.22	-0.09	-0.02	-0.03	0.17	-0.03	0.21	0.16
HHV7	0.19	0.28	0.22	1.00	-0.12	-0.13	0.01	-0.13	-0.01		0.07
PEM	0.06	-0.08	-0.09	-0.12	1.00	0.13	0.40		0.25	0.51	0.23
Sleepdysf	0.10	-0.16	-0.02	-0.13	0.13	1.00	0.42	0.46	0.25	0.29	0.06
Pain	0.01	-0.01	-0.03	0.01	0.40	0.42	1.00	0.23	0.30	0.35	0.14
Neurocogn	0.05	-0.11	0.17	-0.13		0.46	0.23	1.00	0.26	0.30	0.23
Autonomic	0.36	0.08	-0.03	-0.01	0.25	0.25	0.30	0.26	1.00	0.33	0.34
Neuroend	0.01	0.01	0.21		0.51	0.29	0.35	0.30	0.33	1.00	0.34
Immune	0.22	0.01	0.16	0.07	0.23	0.06	0.14	0.23	0.34	0.34	1.00

HC

Supplementary Figure 6. Correlation matrixes of seven typical symptoms domains of ME/CFS with HHV viral DNA concentration in saliva from people with ME/CFS. Correlation efficient between HHV viral loads and symptoms scores across 6 months in (A) ME/CFS_MM, (B) ME/CFS_SA and HC (C)



Supplementary Figure 7. Change of symptoms score in people with ME/CFS (n=7) who had acute illness or worsening of disease symptoms. Sick days (left panel) and monthly (right panel). Sick days occurred in the light grey area.