Supplementary material

Table I Subgroup analyses of prognostic factors for an unfavourable outcome (GOS score of I-4) 30 days after discharge in adults with viral meningitis

Prognostic factor	Modified Poisson regression		
	Premorbid full-	GOS scores not	
	time occupation	carried forward	
	Adjusted ^a RR	Adjusted ^a RR	
Age, years	(95% CI)	(95% CI)	
18-30	Reference	Reference	
31-50	1.26 (0.93-1.70)	1.31 (0.99-1.73)	
≥51	0.92 (0.51-1.66)	1.23 (0.83-1.81)	
Sex	= (0.0 1 1.00)	(0.00 1.01)	
Male	Reference	Reference	
Female	1.47 (1.09-1.98)	1.35 (1.04-1.75)	
Immunosuppression	,	,	
No	Reference	Reference	
Yes	1.07 (0.48-2.38)	1.13 (0.73-1.76)	
Duration of symptoms, days			
0-1	Reference	Reference	
≥2	1.14 (0.83-1.55)	1.04 (0.80-1.37)	
Triad of signs and symptoms ^b			
No	Reference	Reference	
Yes	0.93 (0.68-1.27)	0.96 (0.73-1.27)	
CSF leukocyte count, cells/µL			
0-100	Reference	Reference	
101-500	0.78 (0.55-1.10)	0.82 (0.61-1.09)	
≥501	0.74 (0.44-1.25)	0.88 (0.57-1.35)	
CSF protein, g/L			
0.0-0.5	Reference	Reference	
0.6-1.0	1.12 (0.80-1.56)	1.13 (0.85-1.51)	
≥1.1	1.02 (0.61-1.69)	0.91 (0.60-1.37)	
Aetiology			
Unidentified pathogen	Reference	Reference	
Enteroviruses	1.47 (1.00-2.16)	1.37 (0.97-1.92)	
Herpes simplex virus type 2	1.78 (1.06-2.98)	1.56 (1.01-2.39)	
Varicella-zoster virus	1.58 (0.89-2.83)	1.44 (0.94-2.22)	
Miscellaneous viruses	1.71 (0.75-3.90)	1.57 (0.72-3.42)	
Dexamethasone for bacterial meningitis			
No	Reference	Reference	
Yes Adjusted for all prognestic factors listed in	1.12 (0.82-1.54)	1.12 (0.85-1.48)	

^aAdjusted for all prognostic factors listed in the table.

^bTriad of headache, neck stiffness and hyperacusis or photophobia.

Abbreviations: RR = relative risk; CI = confidence interval.

Table 2 Time until antivirals and unfavourable outcome (GOS score of I-4) 30 days after discharge in adults with meningitis caused by herpes simplex virus type 2 or varicella-zoster virus

Time until treatment with acyclovir or valacyclovir, hours	Unfavourable outcome	Modified Poisson regression	
	n/N (%)	Crude RR (95% CI)	Adjusted ^a RR (95% CI)
≤8	45/174 (26)	Reference	Reference
8-16	9/53 (17)	0.66 (0.34-1.25)	0.61 (0.30-1.23)
≥17	22/80 (28)	1.06 (0.69-1.64)	0.86 (0.51-1.43)

^aAdjusted for age (18-30, 31-50, ≥51 years), sex (male, female), immunosuppression (yes, no), triad of headache, neck stiffness, hyperacusis or photophobia (yes, no), CSF leukocyte count (0-100, 101-500, ≥501 cells/µL), CSF protein (0.0-0.5, 0.6-1.0, ≥1.1 g/l), aetiology (HSV-2, VZV) and treatment with dexamethasone for bacterial meningitis (yes, no).

262 episodes were used in the adjusted analysis due to missing values.

Abbreviations: RR = relative risk; CI = confidence interval.

Table 3 Time until antivirals and unfavourable outcome (GOS score of I-4) 30 days after discharge in adults with meningitis caused by herpes simplex virus type 2 or varicella-zoster virus stratified by immune status

	Unfavorable outcome by time until treatment with acyclovir or valacyclovir			5 l
Immunosuppression	≤8 hours	8-16 hours	≥17 hours	p value
No	38/150 (25)	8/45 (18)	18/70 (26)	0.51
Yes	7/24 (29)	1/8 (13)	4/10 (40)	0.55

Data are presented as n/N (%).

Figure I Flow chart of the study population

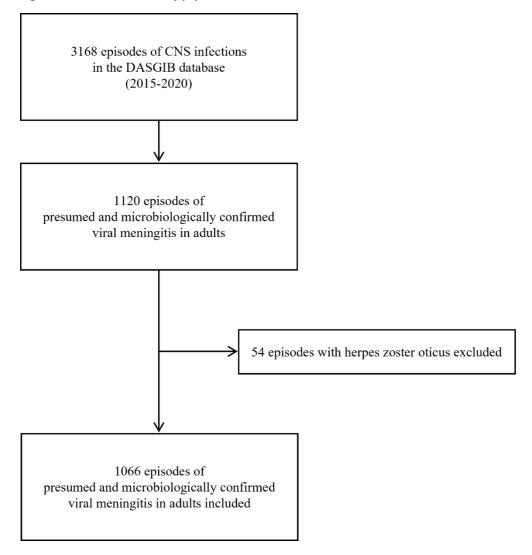
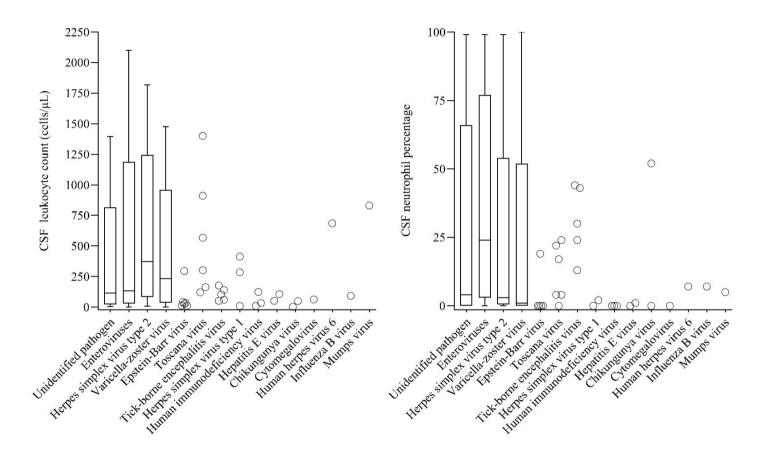


Figure 2 CSF leukocyte count and neutrophile percentage in adults with viral meningitis



Box is interquartile range, horizontal line is median, and whiskers are range.