

**SDC 1: Case details of patients with CNS infection prior to onsite multiplex assay (November 2014 – February 2016)**

Case	Patient Age (days/weeks/months/years)	CSF WCC/RCC	CSF sendaway result (reference laboratory)	Diagnosis	Time to diagnosis (days)	Antibiotic duration (days)	Length of Admission (days)
1	5 w	415/1550	EV	EV	3	3	8
2	13 d	291/26	EV	EV	2	3	5
3	15 d	190/1500	Negative	Suspected bacterial meningitis	n/a	21	22
4	4 y	1830/570	Negative	<i>H.Influenzae</i> meningitis (culture)	3	10	13
5	13 y	48/1	EV	EV	6	3	3
6	8 y	388/11	MVE	MVE	5	7	9
7	7 w	42/9	Negative	Suspected viral meningitis	n/a	4	10
8	8 y	70/25	EV	EV	6	2	3
9	15 y	75/6	Insufficient	Suspected viral meningitis	n/a	3	3
10	10 w	2/1	EV	EV	18	3	5
11	11 d	6/8	EV	EV	9	3	3
12	8 w	50/55800	EV	EV	8	7	9
13	26 d	100/244800	EV	EV	7	3	7
14	16 d	14/21600	EV	EV	7	4	9
15	10 w	9/67	EV	EV	4	3	5
16	19 d	2/0	EV	EV	11	7	8
17	2 y	2520/4	<i>S.pyogenes</i>	<i>S.pyogenes</i> (NAAT)	14	14	15
18	6 w	0/0	EV	EV	6	2	2
19	5 w	3/359	EV	EV	5	2	3
20	10 w	199/109	EV	EV	6	4	4
21	16 d	1/550	EV	EV	6	4	4
22 <sup>^</sup>	11 d	350/24	Negative	<i>A.baumannii</i> meningitis (culture)	3	21	34
23	28 d	42/4	EV	EV	6	3	4
24	25 d	3/31	HPeV	HPeV	5	12	42 <sup>#</sup>
25	15 y	1600/40	VZ	V.zoster meningitis	2	2	2
26	8 w	3/2	HPeV	HPeV	6	2	4
27	28 d	1110/110	EV	EV	7	2	2
28	5 w	8/11	EV	EV	9	7	7
29	5 w	3/38	EV	EV	9	2	3
30*	13 y	29/3	n/a	CG	2	4	149
31	11 d	4/3330	EV	EV	6	3	5
32 <sup>^</sup>	8 w	60/222	Insufficient	Suspected CMV meningitis	8	8	31
33	3 m	9900/540	<i>H.influenzae</i>	<i>H.influenzae</i> meningitis (culture)	17	14	17
34	19 d	8/3420	EV	EV	7	2	3
35	9 d	3/2	EV	EV	6	2	3
36	18 d	4/6767	HPeV	HPeV	8	6	8

Abbreviations: MVE = Murray Valley Encephalitis, NAAT = nucleic acid amplification test

\* Patient 30 received prolonged antifungal therapy and has been excluded from analysis of treatment duration and length of hospital stay (see Table 5)

<sup>^</sup> Patients 22 & 32 were premature babies who remained in the nursery for prolonged periods after full recovery. Both have been excluded from analysis of the hospitalisation length (see Table 5)

