

Supplementary Table 1 Clinical characteristics and long-term functional outcome in FIRES children

N	Gender	Diagnose	ASMs	Intervention	Age at onset (y)	Duration of anesthesia (d)	Duration of mechanical ventilation (d)	Duration of SE (d)	Duration in ICU (d)	Duration in hospital (d)	Interval from onset to KD initiation (d)	Interval from onset to VNS implantation (d)	Stimulation parameters of VNS (at SE resolution) [#]	Follow-up time (y)	mRS
1	M	FIRES	LEV, PB, VPA	KD	8.4	31	17	3	31	43	17	/	/	6.9	1
2	F	FIRES	PB, VPA, OXC, CZP, LEV	KD	12.4	41	39	7	44	42	34	/	/	5.4	1
3	F	FIRES	PB, LEV, TPM, OXC, VPA	KD	8.9	54	22	10	61	82	20	/	/	5.8	1
4	M	FIRES	TPM, VPA, LTG, LEV, OXC, CZP	KD	11.7	79	66	10	72	74	20	/	/	5.4	2
5	M	FIRES	PB, LEV, TPM, OXC, LTG, VPA, CZP	KD	8.6	41	23	12	63	74	8	/	/	8.6	2
6	M	FIRES	VPA, LEV, TPM, OXC, CZP, PB, LTG	KD	9.2	105	40	32	103	119	70	/	/	8.8	3
7	F	FIRES	PB, LEV, OXC, VPA, CZP	KD	7.6	38	33	9	38	50	17	/	/	5.4	3
8	F	FIRES	VPA, PB, LEV, LTG, CZP	KD	4.8	51	32	6	54	65	18	/	/	5.8	4
9	M	FIRES	VPA, LEV, OXC, CZP, LCM	KD	6.6	300	Tracheostomy	26	313	334	7	/	/	3.9	5
10	F	FIRES	PB, LEV, LTG, TPM, CZP, VPA, CLB	KD	7.2	51	Tracheostomy	13	95	106	9	/	/	6.4	5
11	F	FIRES	LEV, OXC, VPA	KD	5.0	23	23	19	30	41	16	/	/	2.0	6
12	M	FIRES	PB, VPA, LEV, CZP, OXC	KD	10.5	23	17	14	28	36	9	/	/	5.9	6
13	F	FIRES	VPA, LEV, PB, OXC, LTG, CZP, TPM	KD	8.1	176	52	32	168	176	13	/	/	2.2	6
14	F	FIRES	PB, TPM, PER, LEV, VPA	KD	2.6	83	34	13	86	34	13	/	/	5.4	3
15	F	FIRES	LEV, LCM, VPA, PER, CZP	KD+VNS	7.5	81	52	16	65	88	30	29	2.4mA, 500us, 30Hz, 30s/3min	0.6	1
16	M	FIRES	PB, LEV, CZP, PER, VPA	KD+VNS	8.0	72	54	32	80	83	15	13	3.0mA, 500us, 30Hz, 14s/1min48s	2.8	2
17	M	FIRES	PB, LEV, TPM, VPA, CZP, PER, ZNS	KD+VNS	10.0	192	121	24	152	196	17	22	3.0mA, 500us, 30Hz, 21s/3min	1.6	2
18	M	FIRES	VPA, OXC, TPM,	KD+VNS	2.2	63	59	27	66	75	16	14	3.0mA, 750us, 30Hz,	3.1	3

PB, LEV, PER

21s/3min

Abbreviations: FIRES: Febrile infection-related epilepsy syndrome; SE: status epilepticus; ICU: intensive care unit; KD: ketogenic diet; VNS: vagus nerve stimulation; mRS: modified Rankin scale; LEV: levetiracetam; PB: phenobarbital; VPA: valproic acid; OXC: oxcarbazepine; CZP: clonazepam; TPM: topiramate; LTG: lamotrigine; LCM: lacosamide; PER: perampanel; ZNS: zonisamide; CLB: clobazam.

#: The stimulation parameters were showed with output current, frequency, pulse width, on time and off time.