

Supplementary Table 3. Seizure detection performance of the internal validation for the 20 patients from the CHB-MIT dataset

Patient	Recording time (hr)	Number of seizures	Seizure length (sec)	TP	FA	Sensitivity (%)	FAR (/hr)	Latency (sec)
chb01	40.6	7	50.6±23.0	7	30	100.0	1.73	7.4
chb02	35.3	3	50.7±36.3	2	32	66.7	2.04	8.0
chb03	38.0	7	39.3±6.0	6	39	85.7	1.58	25.2
chb04	156.1	4	32.8±16.3	1	56	25.0	0.72	22.0
chb05	39.0	5	71.4±16.1	5	31	100.0	1.62	3.8
chb07	67.1	3	37.0±7.5	3	46	100.0	1.28	2.0
chb08	20.0	5	42.4±20.4	5	17	100.0	2.20	-1.8
chb09	67.9	4	36.5±3.3	4	125	100.0	0.97	-10.0
chb10	50.0	7	44.1±14.6	7	35	100.0	0.98	-4.7
chb11	33.8	3	46.7±46.2	3	50	100.0	1.66	10.0
chb12	20.7	27	36.6±19.0	17	58	63.0	3.00	12.3
chb13	33.0	12	44.6±21.5	7	75	58.3	2.79	13.3
chb15	39.0	20	80.8±46.5	19	55	95.0	1.92	1.8
chb17	21.0	3	78.0±17.8	3	14	100.0	1.09	4.7
chb18	35.6	6	52.8±14.4	5	47	83.3	2.22	10.2
chb19	29.9	3	78.7±2.1	3	11	100.0	1.00	20.0
chb20	27.6	8	36.8±6.3	4	125	50.0	3.95	14.0
chb21	32.8	4	49.8±28.5	4	54	100.0	1.25	1.8
chb22	31.0	3	60.7±11.0	3	24	100.0	1.45	11.3
chb23	26.6	7	49.4±18.5	5	29	71.4	0.34	8.6
Total	844.9	141		113	953			
Mean±SD			50.6±28.6			80.1	1.13	8.0±8.8

TP, FA, and FAR denote true positive, false alarm, and false alarm rate, respectively.

A seizure length for each patient is represented by mean±standard deviation (SD).

CHB-MIT, Children's Hospital Boston-Massachusetts Institute of Technology; EEG, encephalography; TP, true positive; FA, false alarm; FAR, false alarm rate.