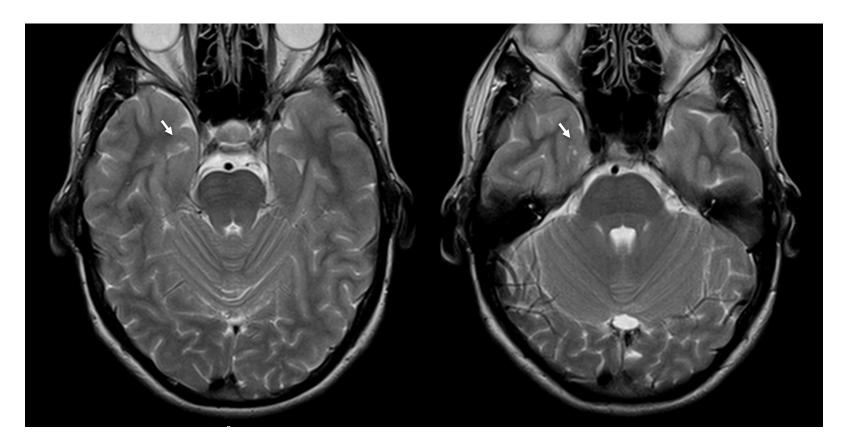
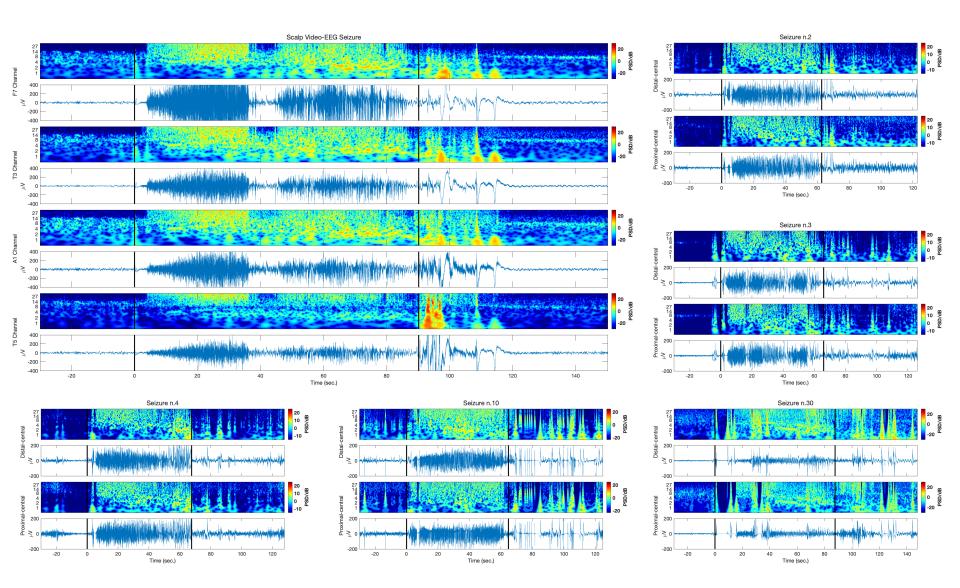
Supplementary Figures



Supplementary Figure 1. T2 Axial Brain MRI slices showing lesion composed of a cluster of small cysts within the right amygdala, with no mass effect and no pathological enhancement, compatible with a dysembrioplastic neuroepithelial tumour (DNET).

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Supplementary Figure 2. Example of a seizure recorded during scalp video-EEG. A theta-delta evolving pattern is seen over the left hemisphere. Sampling rate 256Hz, transverse montage, bandpass filtered at [0.5 20] Hz.



Supplementary Figure 3. Seizure examples from both inpatient scalp video-EEG (top left, large panel, left frontotemporal channels) and sqEEG (small panels), showing both time series and time-frequency representation of each channel data. Time-frequency decomposition was constructed via complex Morlet wavelet convolution, with wavelet frequencies between 0.5 and 40Hz and number of cycles between 5 and 20, both logarithmically spaced. As shown, seizures from both recording techniques are characterized by characteristic muscle artefact due to jaw clenching, and an underlying theta-delta pattern, followed by post-ictal delta activity. Some seizure segments contain signal artefacts (characterized by repetitive high amplitude spikes alternating with flat signal) due to electrode malfunction (f.eg. seizure 10).