

On-line Table: Summary of imaging and clinical findings in patients with abnormally decreased parenchymal T2 signal

Case	Sex	Age (yr)	Side	Location	Seizures/ Altered LOC	Other Clinical Information	DWI	SWI/ GRE	Imaging F/ U (mo)	Evolution of Changes	EEG Changes Corresponded To Side?	EEG Comments
1	F	33	Bilateral	Following frontal, parietal	Generalized seizures	Inpatient; post-cardiac arrest	↓	↓	No	NA	Yes	Bilateral PLED changes suggestive of controlled seizures
2	M	44	Unilateral, R	Following temporal, parietal, occipital	Generalized seizures	Inpatient; previous childhood medullo-blastoma with radiotherapy	↓	↓	72	Resolved	Yes	Focal slow-wave activity seen over right hemisphere likely representing subcortical dysfunction
3	F	80	Unilateral, L	Frontal, temporal, parietal	Generalized seizures	Inpatient; acute subdural hematoma, subsequent seizures	↓	Normal	No	NA	Yes	Active focal interictal epileptiform abnormalities throughout left side, indicative of cortical irritability; also changes involving subcortical white matter
4	M	49	Unilateral, R	Frontal	No	Outpatient, asymptomatic, changes adjacent to an incidentally found meningioma	↓	↓	24	Resolved after meningioma treated		NA
5	M	65	Unilateral, L	Frontal, temporal, parietal	No	Inpatient; subdural hematoma following meningioma resection	↓	↓	30	Resolved after meningioma treated		NA
6	F	46	Unilateral, L	Parietal, temporal, occipital	Generalized seizures	Inpatient; admitted with new seizures	Normal	↓	18	Gliosis	Yes	Active focal interictal epileptiform abnormalities involving left posterior temporal region, supporting an underlying seizure focus
7	F	48	Unilateral, R	Parietal, occipital, temporal	Generalized seizures	Inpatient; meningioma resection with postop subdural hematoma	↓	↓	18	Persistent ↓ T2/FLAIR signal	Yes	Complex partial seizures involving right occipital lobe with spread to right posterior temporal region
8	M	18	Bilateral	Frontal, temporal, parietal, occipital	Generalized seizures	Inpatient; chronic epilepsy	↓	↓	No	NA	Yes	Severe generalized nonepileptiform disturbances compatible with a diffuse severe encephalopathy
9	M	62	Bilateral	Frontal, temporal, parietal, occipital	Generalized seizures	Inpatient; seizing following cardiac arrest	↓	↓	No	NA	Yes	Diffuse severe density of brain activity

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10	M	46	Unilateral, L	Frontal	Generalized seizures	Inpatient; increased seizures in patient with anaplastic oligodendroglioma	↓	Normal	5	Persistent ↓ T2 FLAIR signal	Yes	Seizure activity in left frontal lobe
11	M	45	Unilateral, L	Occipital, temporal	Focal seizures	Inpatient; focal occipital (visual) seizures	↓	Normal	No	NA	Yes	Seizure activity in left occipital lobe
12	M	47	Unilateral, R	Occipital, temporal	Focal seizures	Inpatient; focal occipital (visual) seizures, previous childhood medullo-blastoma with radiotherapy	↓	↓	No	NA	Yes	Focal slow-wave activity in right occipital lobe
13	M	48	Unilateral, L	Frontal, temporal, parietal, occipital	Generalized seizures	Inpatient; acute subdural hematoma, evacuated with subsequent seizures	↓	↓	No	NA	Yes	Slow-wave activity in left frontal and parietal lobes
14	M	71	Bilateral	Occipital	Generalized seizures	Inpatient; brain mets, sarcoma primary	↓	↓	No	NA	Yes	Diffusely abnormal, with slowing and low-amplitude activity
15	M	48	Unilateral, R	Occipital, parietal	Generalized seizures	Inpatient; admitted with new seizures	↓	↓	No	NA		NA
16	F	33	Unilateral, L	Occipital, temporal	Generalized seizures	Inpatient; seizures after liver transplant	↓	↓	No	NA		NA
17	M	68	Unilateral, L	Frontal, parietal, temporal	Altered LOC	Inpatient; subdural hematoma after meningioma resection	↓	↓	No	NA		NA
18	M	68	Bilateral	Occipital, temporal	Altered LOC	Inpatient; altered LOC after cardiac arrest	↓	↓	No	NA	Yes	Diffuse nonepileptiform signal alteration and slowing affecting cortical gray and subcortical white matter
19	F	69	Unilateral, L	Parietal, frontal	Altered LOC		↓	↓	No	NA	Yes	

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						Inpatient; acute subdural						Left-sided dysfunction of cerebral activity
20	F	85	Unilateral, R	Frontal	Focal seizures	hematoma Outpatient, meningioma with worsening complex partial seizures	↓	↓	No	NA		NA
21	M	52	Unilateral, R	Frontal, temporal, parietal, occipital	Generalized seizures	Inpatient; chronic epilepsy	↓	↓	12	Resolved		NA
22	M	79	Unilateral, R	Frontal, temporal, occipital	Focal seizures	Inpatient; acute subdural hematoma, subsequent focal seizures	↓	↓	No	NA	Yes	Slowing and suppression on the side of the SDH/FLAIR changes
23	F	53	Unilateral, R	Frontal, temporal, parietal	No	Inpatient; acute subdural hematoma	↓	↓	2	Resolved		NA
24	F	56	Unilateral, R	Frontal, parietal	No	Inpatient; acute subdural hematoma	↓	↓	No	NA		NA
25	F	18	Bilateral	Frontal	Generalized seizures	hematoma Inpatient; chronic epilepsy	↓	↓	No	NA	Yes	Severe bihemispheric encephalopathy
26	M	30	Unilateral, R	Frontal	Generalized seizures	Inpatient; subdural hematoma following craniotomy for tumor resection; T2 hypointense changes were not present on pre-craniotomy MRI	↓	↓	No	NA	Yes	High-amplitude Δ frequency slow-wave activity over entire left hemisphere, indicating an underlying structural abnormality affecting subcortical and cortical structures
27	M	49	Unilateral, L	Frontal	Generalized seizures	Inpatient; acute subdural hematoma, craniectomy, subsequent infection, seizing	↓	↓	1.25	Resolved	Yes	Slower waveforms throughout left hemisphere
28	M	39	Unilateral, R	Parietal			↓	↓	No	NA		NA

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29	M	84	Bilateral	Frontal, parietal	Generalized seizures	Inpatient, venous thrombosis following DAVF embolization, seizures Inpatient, bilateral acute subdural hematomas	↓	↓	No	NA	Yes	Moderate-to-severe bilateral waveform disturbances, indicative of a diffuse process affecting cortical and subcortical functions

Note:—LOC indicates level of consciousness; F/U, follow-up; NA, not applicable; ↓, decreased; L, left; R, right; PLED, periodic lateralized epileptiform discharges; SDH, subdural hematoma; DAVF, dural arteriovenous fistula; postop, postoperative; mets, metastases.