

# Antibody-Mediated Encephalitis



## Epi

P: ~15/100,000 person years

I: 0.8/100,000 person years

## Symptoms

Subacute (>2 wks)

+/- Tumor

\* In 70%, syndrome precedes tumor detection

## Limbic

Hallucinations	Anterograde Amnesia
Seizure	AMS
Psychosis	Anxiety, Depression

## Extra-Limbic

Depends on Ab  $\hat{=}$  Tumor

## Subtypes

① Intracellular Ag >90% Paraneoplastic

Ab	Tumor
Hu	SCLC >95%
Ma2	Testicular; Teratoma >95%
GAD	Thymoma, SCLC >25%

② Synaptic Receptor

Ab	Tumor
NMDA	Ovarian Teratoma >10%
AMPA	Thymoma, SCLC >95%
GABA A	Thymoma <5%
B	SCLC >50%

③ Ion Channels or Surface Proteins

Ab	Tumor
LGI-1	Thymoma 5%-10%
CASPR-2	Thymoma 20%-50%
DPPX	Lymphoma <10%

## Ddx

Viral	Drugs/Toxins
- Enterovirus	Demyelinating Disease
- HSV	Primary Psychiatric Disorder
Neurosyphilis	
Tumor	

## Dx

Serum Abs  
LP  $\rightarrow$  Lymphocytic Pleocytosis (80%)  
 $\uparrow$  Protein (30%)  
CSF Abs  
Oligoclonal Bands (50-60%)  
MRI +/- T2 Flare/Edema (33-50%)

\* MRI + LP can be normal

## Treatment

- ① Empiric Immunosuppression
- ② Rx underlying cancer, if present