

**Transverse myelitis**

**Acquired demyelinating disorders**

- 1) multiple sclerosis
- 2) devic disease(NMOSD)  
Neuromyelitis Optica spectrum disorder
- 3) Acute disseminated encephalomyelitis (ADEM)
- 4) myelin oligodendrocyte glycoprotein associated disease (MOGD)

**Systemic inflammatory autoimmune disorders**

- 1) SLE
- 2) sjogren syndrome
- 3) mixed connective tissue disease
- 4) sarcoid myelopathy
- 5) systemic rheumatic disease
- 6) antiphospholipid syndrome
- 7) Vogt-Koyanagi Harada disease
- 8) systemic sclerosis, anti-Jo-1 antibody, urticarial vasculitis, psoriatic arthritis, perinuclear ANCA systemic vasculitis, graft-versus-host disease, common variable immunodeficiency, celiac disease

**Infectious etiologies**

- VIRAL**
- 1) HIV
  - 2) polio virus
  - 3) herpes viruses: hsv, varicella zoster, CMV, EBV
  - 5) human T cell leukemia (type 1 & 2)
  - 6) Group B arboviruses (west nile virus)
  - 7) SARS-CoV-2

- BACTERIAL**
- 1) mycobacterium tuberculosis
  - 2) treponema (syphilis)
  - 3) Lyme disease (borrelia burgdorferi)

- PARASITIC**
- 1) schistosomal
  - 2) toxoplasmosis rarely if retroviral positive

**paraneoplastic**

- 1) anti Hu antibody associated with dorsal root ganglia degeneration
- 2) GFAP myelitis (teratoma)
- 3) anti collapsin response mediator protein 5 (CRMP-5) and anti CV2 antibodies (small cell lung cancer and thymoma)
- 4) Anti-GAD65 antibody
- 5) NMDAR antibody
- 6) Anti-Ri (ANNA-2) antibody (with lung or breast carcinoma)
- 7) Anti-amphiphysin IgG antibody

**Other causes (Drugs and toxins)**

- 1) primary angiitis of central nervous system
- 2) post infectious/ post vaccination transverse myelitis
- 3) radiation myelitis
- 4) atopic myelitis
- 5) brown recluse spider toxin
- 6) chemotherapeutic agents- cisplatin, cytarabine, gemcitabine
- 7) TNF alpha inhibitors, sulphasalazine

NMDAR – N-methyl-d-aspartate receptor  
 GAD65- glutamic acid decarboxylase  
 CMV- cytomegalovirus  
 EBV- Epstein barr virus  
 TNF- tumor necrosis factor  
 GFAP- glial fibrillary acidic protein  
 ANCA- anti neutrophilic cytoplasmic antibodies