**Neurology**

I. Headaches and neuralgias

1. Chronic headache
   1. Subtypes (e.g., migraine, cluster, tension)
   2. Differential diagnosis (incl. pseudotumor, temporal arteritis)
   3. Management
2. Neuralgias
   1. Clinical syndromes (trigeminal, glossopharyngeal, geniculate, occipital)
   2. Etiologies/syndromes (Tolosa Hunt, post-herpetic)
   3. Management

II. Epilepsy

1. Classification
2. Seizure presentations/ semiology
3. Management
   1. Anti-convulsant medications
      1. Agents
      2. Side effects
   2. Surgical evaluation and treatment
4. EEG
   1. Basic EEG interpretation
   2. Diagnostic EEG patterns (e.g., absence, Lennox-Gastaut, CJD)

III. Movement and gait disorders

A. Abnormal movements

1. Classification (e.g., tic, myoclonus, dystonia, chorea, tremor etc.)

2. Evaluation

B. Movement disorders

1. Parkinson/Parkinsonian syndromes (e.g., PSP, multisystem atrophy)
2. Huntington’s
3. Tremor (essential, benign, familial)
4. Other (including Wilson, Tourette, dystonia, Sydenham chorea, hemiballism)
5. Gait Disorders
   1. Cerebellar disorders
   2. Sensory ataxia

IV. Neuromuscular and muscle disorders

1. Disorders of neuromuscular transmission
   1. Myasthenia gravis and myasthenic syndrome
   2. Other (e.g., botulinism)
2. Disorders of muscle
   1. Muscular dystrophies
   2. Myopathies
3. EMG/NCS/evoked potentials
   1. Basic EMG/NCS/ EP interpretation
   2. Diagnostic EMG/NCS/ EP patterns

V. Neuropathies and spinal cord disorders

A. Neuropathies

1. Hereditary neuropathies

2. Peripheral neuropathies

a. Polyneuropathies (including Guillan Barre, brachial plexitis, diabetic)

b. Mononeuropathies (including diabetic mononeuritis multiplex)

B. Motor neuron disease

1. ALS

2. Other (including spinal muscular atrophy)

C. Spinal cord disease

1. Myelopathies (including SCD, copper deficiency, compressive)

VI. Demyelinating and infectious disease

1. Multiple sclerosis and immune-mediated disease
   1. Types (including NMO, Transverse myelitis, ADEM)
   2. Management
2. Infectious/Inflammatory
   1. Infectious (including syphilis, lyme, TB, HSV, Toxo, Polio, SSPE, HIV, JC)
   2. Inflammatory (including sarcoid, Rasmussen encephalitis)

VII. Disorders of cognitive function

1. Dementia
   1. Evaluation and differential diagnosis
   2. Alzheimer disease
   3. Non-Alzheimer dementias (including Pick’s, NPH, CJD)
2. Amnestic syndromes
   1. Acute (e.g., trauma, ischemia, Wernicke, TGA)
   2. Chronic (e.g., Korsakoff, limbic encephalitis)

VIII. Neuro-ophthalmology

1. Disorders of vision
2. Evaluation and diagnosis
   1. Pupillary syndromes (e.g., Horner;s, Argyll-Robertson, Marcus Gunn)
3. Etiologies

B. Disorders of ocular motility

1. Evaluation and diagnosis

* + 1. Syndromes (e.g., cavernous sinus, Gradenigo)

2. Etiologies

a. Compressive

* + 1. Metabolic (e.g., diabetic)
    2. Other (e.g., myasthenic)