American Academy of Neurology  
Women's Issues in Neurology Section  
Resident Core Curriculum

10/01/01

1. PHYSIOLOGY AND PHARMACOLOGY

Hormonal Influences on Central Nervous System Development  
Hormonal Influences on Childhood CNS Development  
Endocrinology and Drug Metabolism  
Effects of Oral Contraceptives on Metabolism and Bioavailability of Other Drugs

2. HEADACHES

Classification  
Epidemiology  
Migraine  
Pathophysiology  
Menstrual Migraine  
Migraine and Oral Contraceptives  
Migraine and Pregnancy  
Migraine and Menopause  
Abortive Therapy  
Prophylactic Therapy  
Management of the Acute Attack  
Tension-Type Headache  
Cluster Headache  
Chronic Paroxysmal Hemicrania  
Post Partum Headache  
Approach to the Pregnant Patient with headache

3. EPILEPSY

Introduction  
Catamenial Epilepsy  
Hormonal Contraceptives  
Infertility  
Pregnancy and Complications  
Complications in the Offspring  
Malformations  
Infant Mortality  
Neonatal Hemorrhage  
Low Birth Weight  
Developmental Delay
Feeding Difficulties and Drug Withdrawal
Epilepsy in the Offspring
Management of the Pregnant Woman with Epilepsy

4. STROKE

Epidemiology of Stroke in Women
Hormonal Influences on Stroke Risk
Pregnancy
Contraceptives
Hormonal Replacement
Stroke Risk Factors
Hypertension
Diabetes
Smoking
Hyperlipidemia
Bone Density and Stroke
Alcohol and Stroke
Cardioembolic Stroke
Atrial Fibrillation
Mitral Valve Prolapse
Other Stroke Syndromes
Migraine-Associated Stroke
Fibromuscular Dysplasia
Procoagulant States
Treatment
Risk Reduction in Stroke
Secondary Prevention of Stroke

5. VASCULITIS AND IMMUNOLOGIC DISEASES

Hormonal influences on the immunologic system
Autoimmune CNS disorders in women
   Overview of vascular disease in women
Epidemiology of vasculitis: Central and Peripheral
Clinical aspects of CNS Vasculitis
CNS Vasculitis in Women
Primary CNS vasculitis
   Differential diagnosis
   Signs and symptoms
Other disorders
   Rheumatologic
   Infectious
   Drug-related
   Idiopathic
   Sarcoidosis, etc
Laboratory studies
Treatment issues
Peripheral vasculitis syndromes

6. MULTIPLE SCLEROSIS

Gender issues in autoimmune disease in general
Epidemiology of MS
Hormonal considerations
Electrophysiology (Evoked potentials, EEG)
Pregnancy -diagnostic issues: Electrophysiology vs radiology studies
Fertility/conception
Pre-/post-partum periods and disease course
Breastfeeding management
Rehabilitation
Physical
Psychological and psychosocial

7. NEUROLOGICAL COMPLICATIONS OF HIV INFECTION

AIDS epidemiology in women
Risk factors in women
Central Nervous system complications
Peripheral Nervous System Complications
Opportunistic processes
Effects of pregnancy
Neuroendocrine factors
Therapeutic considerations in women
Therapeutic issues in pregnant women

8. NEURO-ONCOLOGY

Gender Differences in the Incidence of some Brain Neoplasms
  (e.g. meningiomas)
Meningioma and breast cancer: Genetic advances
Metastatic Cancer
Cancer-Associated Cerebrovascular Disorders
Paraneoplastic Syndromes
Post-Radiation Syndromes
Neurological Effects of Chemotherapy

9. NEUROMUSCULAR DISORDERS

Gender Differences in Peripheral Nervous System Anatomy and Physiology
Autoimmune PNS disorders and gender
Repetitive Motion Syndromes / Compression Neuropathies
  (carpal tunnel, etc.)
Peripheral Neuropathies
Radiculopathy and Plexopathy
Low Back Pain
Spinal cord disease: Trauma, Myelopathy
Motor Neuron Disease and Polio
Neuromuscular Junction Disorders
Myopathies

10. MOVEMENT DISORDERS

  Anatomy and Neurochemistry of the Basal Ganglia
  Parkinson’s Disease
  Tourette’s Syndrome
  Dystonia and Chorea

11. NEUROBEHAVIOR

  Alzheimer’s Disease
  Other Dementias
  Psychiatric disorders (depression, anxiety)
  Pain: mechanisms and responses

12. PREGNANCY

  Neurophysiology of Pregnancy
  Special Neurologic Conditions
  Diagnostic Studies
  Drugs and Pregnancy
  The Placental Barrier® and Teratogenicity
  FDA Categories for Drug Use During Pregnancy
  Non-pharmacologic Treatments
  The concept of Pregnancy Registries

13. NEUROLOGIC CONSEQUENCES OF VIOLENCE

  Recognition of the Victim of Violence
  The Dependent Victim (e.g. MS)
  Types of Injuries
  Psychological Counseling
  An Interdisciplinary Guide to Women’s Health Services