

**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  
Pregnancy treatment issues: Avonex? Betaseron? Copaxone?  
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