

Peripheral Nerve Surgery

I. Peripheral Nerve Anatomy

- A. Anatomic Course and Innervation Patterns
- B. Injury Patterns: Signs on Physical Examination
- C. Differential Diagnosis: Nerve vs. Nerve Root Pathology

II. Diagnostic Procedures

- A. Electrodiagnostics
- B. Nerve Imaging
- C. Intraoperative Diagnostic Techniques and Navigation

III. Nerve Entrapment

- A. Median Nerve at the Wrist
- B. Ulnar Nerve at the Elbow
- C. Peroneal Nerve at the Knee
- D. Lateral Femoral Cutaneous Nerve
- E. Other Nerve Entrapment Syndromes

IV. Nerve Injury

- A. Grading of Nerve Injuries
- B. Primary Nerve Repair
- C. Nerve Repair with Allograft
- D. Split Nerve Repair
- E. External and Internal Neurolysis
- F. Nerve Transfer

V. Nerve Tumors

- A. Benign Primary Peripheral Nerve Tumors
- B. Malignant Primary Peripheral Nerve Tumors
- C. Peripheral Nerve Involvement in Metastatic Disease
- D. Neurofibromatosis
- E. Other Tumor Syndromes

VI. Neuropathies

- A. Genetic Neuropathies
- B. Inflammatory Neuropathies
- C. Toxic Neuropathies
- D. Degenerative Neuropathies