Peripheral Neuropathy

Peter J Dyck
Neurology

Research output: Book/Report > Book

118 Citations

Abstract

Edited by internationally acclaimed experts in the field, this authoritative 2-volume Gold Standard comprehensively covers the neurobiology and diseases of the peripheral nervous system. It encompasses neurobiology, clinical neurophysiology, molecular genetics, and clinical diagnosis and management. The 4th Edition has been rewritten and updated to provide a fresh account of all subjects, with an emphasis on new information about cell biology, genetics, proteomics, clinical manifestations, and new treatments. And, a user-friendly organization allows readers to quickly find specific information, or access more in-depth coverage when needed. Provides authoritative, in-depth information on neurobiology and diseases of the peripheral nervous system. Presents complete coverage of development - anatomy - physiology - pharmacology - special testing (nerve conduction and EMG), autonomic testing, and testing of impairment and disability - and the diagnosis, management, and outcomes for peripheral neuropathies.

Includes information on epidemiologic survey and pharmaceutical industry trials, with coverage of the complications of diabetes mellitus and other metabolic diseases Features new clinically oriented sections that discuss key areas such as pain management - peripheral neuropathies and cancer - pediatric management issues - new diagnostic techniques Discusses new developments in molecular genetics, new manifestations of altered immunity, metabolic disease, and course. Covers the many new treatment and management techniques now available, including strategies for patients with infections, altered immunity, lymphoma and paraneoplastic neuropathies, and metabolic neuropathies. Includes new coverage of the enteric nervous system, management of gut dysmotility, cutaneous receptors and their function, cutaneous innervation, and quantitative sensation testing..

Fingerprint


ASJC Scopus subject areas

Medicine(all), Dentistry(all)

Cite this
Peripheral neuropathy refers to the many conditions that involve damage to the peripheral nervous system, the vast communication network that sends signals between the central nervous system (the brain and spinal cord) and all other parts of the body. Peripheral nerves send many types of sensory information to the central nervous system (CNS), such as a message that the feet are cold. Peripheral neuropathy, in the broadest sense, refers to a range of clinical syndromes affecting a variety of peripheral nerve cells and fibers, including motor, sensory, and autonomic fibers (Box 1). Most peripheral neuropathies affect all fiber types to some extent. However, a single fiber type may be predominantly or exclusively affected in some disorders. For example, in small-fiber neuropathy (SFN) (Table 1) Peripheral neuropathy is a disorder that occurs when these nerves malfunction because they're damaged or destroyed. This disrupts the nerves' normal functioning. They might send signals of pain when there's nothing causing pain, or they might not send a pain signal even if something is harming you.