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Children with Neurological Disorders Springer Science & Business Media

The spectrum of sleep-disordered breathing ranges from primary snoring at one end to obstructive sleep apnea and central sleep apnea at the other end. The first chapter in this book provides current state of knowledge about the mechanisms of obstructive sleep apnea and central sleep apnea and reviews emerging therapies for these disorders. Furthermore, sleep apnea usually has multifactorial causes and affects multiple organic systems resulting in increased cardiovascular morbidity, disturbing

sleep quality, metabolic balance, glucose and cholesterol levels, arterial hypertension and thus increasing cardiopulmonary and vascular morbidity. The second chapter summarises the main findings in literature and provides a brief and concise differential diagnosis. The authors of the third chapter expose and discuss current evidence of neurosurgical conditions and their role in the genesis and progression of sleep apnea. They emphasise the adequate treatment and future perspectives. The following chapter examine the effect of obstructive sleep apnea syndrome (OSAS) on the eye. Different ophthalmologic disorders are associated with OSAS including floppy eyelid syndrome, retinal vein occlusion, and central serious retinopathy. The last chapter in this book is focused on QT dispersion in patients with obstructive sleep apnea, with increased QT dispersion potentially reflecting disturbed myocardial repolarisation and predisposition to cardiac arrhythmias.

Obstructive and Central Sleep Apnea

The extremely potent substance botulinum neurotoxin (BoNT) has

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attracted much interest in diverse fields. Originally identified as cause for the rare but deadly disease botulism, military and terrorist intended to misuse this sophisticated molecule as biological weapon. This caused its classification as select agent category A by the Centers for Diseases Control and Prevention and the listing in the Biological and Toxin Weapons Convention. Later, the civilian use of BoNT as long acting peripheral muscle relaxant has turned this molecule into an indispensable pharmaceutical world wide with annual revenues >\$1.5 billion. Also basic scientists value the botulinum neurotoxin as molecular tool for dissecting mechanisms of exocytosis. This book will cover the most recent molecular details of botulinum neurotoxin, its mechanism of action as well as its detection and application.

Botulinum Neurotoxins