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Cluster Headache and other Trigeminal Autonomic Cephalgias

- Reviews recent advances in cluster headache and trigeminal autonomic cephalgias
- Explains the neurobiology of various headache forms
- Examines current and future approaches to treatment

This book provides essential insights into the current state of knowledge regarding the main aspects of cluster headache and trigeminal autonomic cephalgias. The first chapters focus on classification and clinical features, together with familial and genetic aspects. Relevant animal models and the putative role of key nervous structures as the hypothalamus, brainstem, diencephalon and sphenopalatine ganglion are reviewed. Evidence gained from key molecules such as CGRP in animals and human headache models are discussed. The book subsequently presents information on the various aspects of the pathophysiology of trigeminal autonomic cephalgias for example regarding the implication of the trigeminovascular system and the facial autonomic reflexes of the brainstem. Further, it shares insights from imaging studies including functional magnetic resonance imaging and more advanced techniques, as well as brain stimulation procedures. Further chapters describe the current state of knowledge concerning drug treatment and the various neurostimulation procedures. Trigeminal neuralgia is also presented, due its close relationship with some short-term trigeminal autonomic cephalgias: a great deal can be learned from a better understanding of their differences and similarities. The same approach is then applied to cluster headache and migraine. All chapters were written by respected experts in their fields, ensuring the book will provide an excellent source of up-to-date information and perspectives on trigeminal autonomic cephalgias and related disorders. As such, it will be of considerable value for students, clinicians and pain researchers alike.

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