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Altri autori (Persone)	KamathMarkad V WatanabeMari A UptonAdrian R. M
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Chapter 12 - Heart Rate Variability and Cardiovascular Dynamic Changes during Local Anesthesia; Chapter 13 - Effect of General Anesthesia on Heart Rate Variability  
Chapter 14 - Heart Rate Variability in Functional Neurosurgery  
Chapter 15 - Bariatric Surgery and Its Effects on Heart Rate Variability; Chapter 16 - Heart Rate Variability in Congestive Heart Failure; Chapter 17 - Heart Rate Variability Analysis in Ischemic Cardiomyopathy and Aortic Stenosis Patients; Chapter 18 - Heart Rate Variability and Blood Pressure Variability in Respiratory Disease: Effects of Pharmaceutical Compounds, Non-Invasive Ventilation and Physical Exercise; Chapter 19 - Effects of Spinal Cord Injury on Heart Rate Variability and Blood Pressure Variability  
Chapter 20 - Autonomic Dysfunction in Stroke  
Chapter 21 - Significance of Heart Rate Variability in Patients with Epilepsy; Chapter 22 - Classification of Parkinson's Disease Severity Using Heart Rate Variability Analysis; Chapter 23 - Heart Rate Variability in Neuropsychiatric Disorders; Chapter 24 - Heart Rate Variability and Depression; Chapter 25 - Heart Rate Variability as a Measure of Depression and Anxiety during Pregnancy; Back Cover

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Sommario/riassunto

Written for graduate students and professionals dealing with heart rate variability (HRV), this cutting-edge reference reviews how minute variations in the beat-to-beat heart rate are regulated. It explores how these variations can be used as a window to understanding the central and peripheral mechanisms that modulate the autonomic nervous systems. Explaining how HRV is characterized through simple statistics and frequency analysis in both healthy human subjects and patients with a variety of diseases, the book provides examples for methods that require mathematical techniques. The authors cite a variety of real-life medical situations and offer extensive end-of-chapter references--Provided by publisher.

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