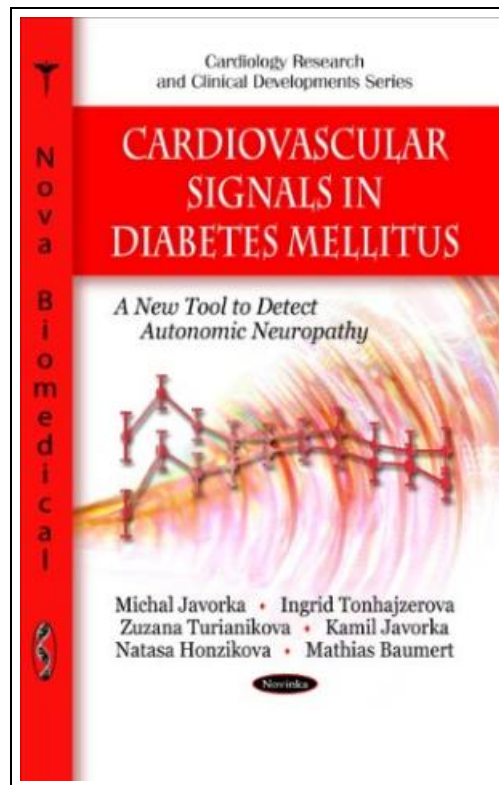


Cardiovascular Signals in Diabetes Mellitus: A New Tool to Detect Autonomic Neuropathy



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Reviews

*Merely no terms to spell out. We have read through and i also am confident that i will gonna read yet again again in the future. You will not sense monotony at anytime of your own time (that's what catalogs are for about should you question me).
(Pasquale Larkin I)*

CARDIOVASCULAR SIGNALS IN DIABETES MELLITUS: A NEW TOOL TO DETECT AUTONOMIC NEUROPATHY



Nova Science Publishers Inc. Paperback. Book Condition: new. BRAND NEW, Cardiovascular Signals in Diabetes Mellitus: A New Tool to Detect Autonomic Neuropathy, Michal Javorka, Ingrid Tonhajzerova, Zuzana Turianikova, Kamil Javorka, Mathias Baumert, Early detection of sub-clinical autonomic dysfunction is of vital importance in patients with diabetes mellitus (DM) for the prevention of subsequent serious adverse consequences. Reduction in heart rate variability (HRV) is now regarded as the earliest indicator of cardiovascular dysregulation in DM. HRV has traditionally been quantified using linear measures, which describe the magnitude of RR interval oscillations, but are insufficient to characterise complex heart rate dynamics. While HRV is mostly mediated by parasympathetic nervous system, beat-to-beat blood pressure recordings may provide information regarding sympathetic activity. A variety of novel measures has been developed to quantify non-linear features of cardiovascular signals, providing information on the complexity of the dynamical system involved in the genesis of these short-term fluctuations. In this book, it is demonstrated that novel non-linear methods are often more sensitive to autonomic dysregulation than linear methods and therefore may improve the diagnostic power of cardiovascular variability analysis for cardiovascular autonomic neuropathy in DM. Our data indicate that cardiovascular dysregulation progresses in relatively short time frames, depending on the history of DM. Further, its progression appears to be associated with glycemic control. Different methods of cardiovascular variability analysis can provide mutually independent information and therefore should be used simultaneously for a comprehensive analysis of autonomic dysfunction to identify patients at risk for autonomic neuropathy.



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