

sudden death)

Stress And The Heart Interactions Of The Cardiovascular System Behavioral

Gloria Oblouk Darovic

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promotion of health and optimal functioning This Integrative Model of Health and Well being also derives additional conceptual power by recognizing the role played by evolutionary processes in which conserved adaptive human traits and response tendencies are not congruent with current industrial and postindustrial global environmental demands and characteristics This mismatch contributes to an increasing incidence of chronic conditions related to lifestyle and health behavior Such a comprehensive model will make possible a truly personalized approach to health and well being including and going far beyond the current emphasis on genomic analysis which has promised more that it has currently delivered HRV offers an inexpensive and easily obtained measure of neurovisceral functioning which has been found to relate to the occurrence and severity of numerous physical disease states as well as many cognitive behavioral health disorders This use of the term neurovisceral refers to the relationships between the nervous system and the viscera providing a more focused and specific conceptual alternative to the now nearly archaic mind body distinction This awareness has led to the recent and growing use of HRV as a health biomarker or health status measure of neurovisceral functioning It facilitates studying the complex two way interaction between the central nervous system and other key systems such as the cardiac gastroenterological pulmonary and immune systems The utility of HRV as a broad spectrum health indicator with possible application both clinically and to population health has only begun to be explored Interventions based on HRV have been demonstrated to be effective evidence based interventions with HRV biofeedback treatment for PTSD representing an empirically supported modality for this complex and highly visible affliction As an integral measure of stress HRV can be used to objectively assess the functioning of the central enteric and cardiac nervous systems all of which are largely mediated by the vagal nervous complex HRV has also been found to be a measure of central neurobiological concepts such as executive functioning and cognitive load The relatively simple and inexpensive acquisition of HRV data and its ease of network transmission and analysis make possible a promising digital epidemiology which can facilitate objective population health studies as well as web based clinical applications An intriguing example is the use of HRV data obtained at motor vehicle crash sites in decision support regarding life flight evacuations to improve triage to critical care facilities This Research Topic critically addresses the issues of appropriate scientific and analytic methods to capture the concept of the Integrative Health and Well being Model The true nature of this approach can be appreciated only by using both traditional linear quantitative statistics and nonlinear systems dynamics metrics which tend to be qualitative The Research Topic also provides support for further development of new and robust methods for evaluating the safety and effectiveness of interventions and practices going beyond the sometimes tepid and misleading gold standard randomized controlled clinical trial Biomedical Index to PHS-supported Research, 1993

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