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Name of Journal: *World Journal of Cardiology*

ESPS Manuscript No: 33097

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Influence of cardiac nerve status on cardiovascular regulation and cardioprotection.

John G Kingma, Denys Simard, Jacques R Rouleau

Abstract

Neural elements of the intrinsic cardiac nervous system transduce sensory inputs from the heart, blood vessels and other organs to ensure adequate cardiac function on a beat-to-beat basis. This inter-organ crosstalk is critical for normal function of the heart and other organs; derangements within the nervous system hierarchy contribute to pathogenesis of organ dysfunction. The role of intact cardiac nerves in development of, as well as protection against, ischemic injury is of current interest since it may involve recruitment of intrinsic cardiac ganglia. For instance, ischemic conditioning, a novel protection strategy against organ injury, and in particular remote conditioning, is likely mediated by activation of neural pathways or by endogenous cytoprotective blood-borne substances that stimulate different signalling pathways. This discovery reinforces the concept



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Ischemic heart disease remains the most common cause of morbidity and ... a position to initiate local reflexes and, therefore, have a significant impact on The beneficial effect of vagus nerve or DVMN stimulation during an acute RPe evokes differential regulation (up- or downregulation) of various plasma proteins (24).



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跳到 ENDOCRINE/PARACRINE REFLEXES AND THE REGULATION OF ... - Blood pressure is regulated through a ... controlled by the sympathetic nervous system can ... Hormones released by the heart It is also believed to exhibit cardioprotective Additional hormones that may impact