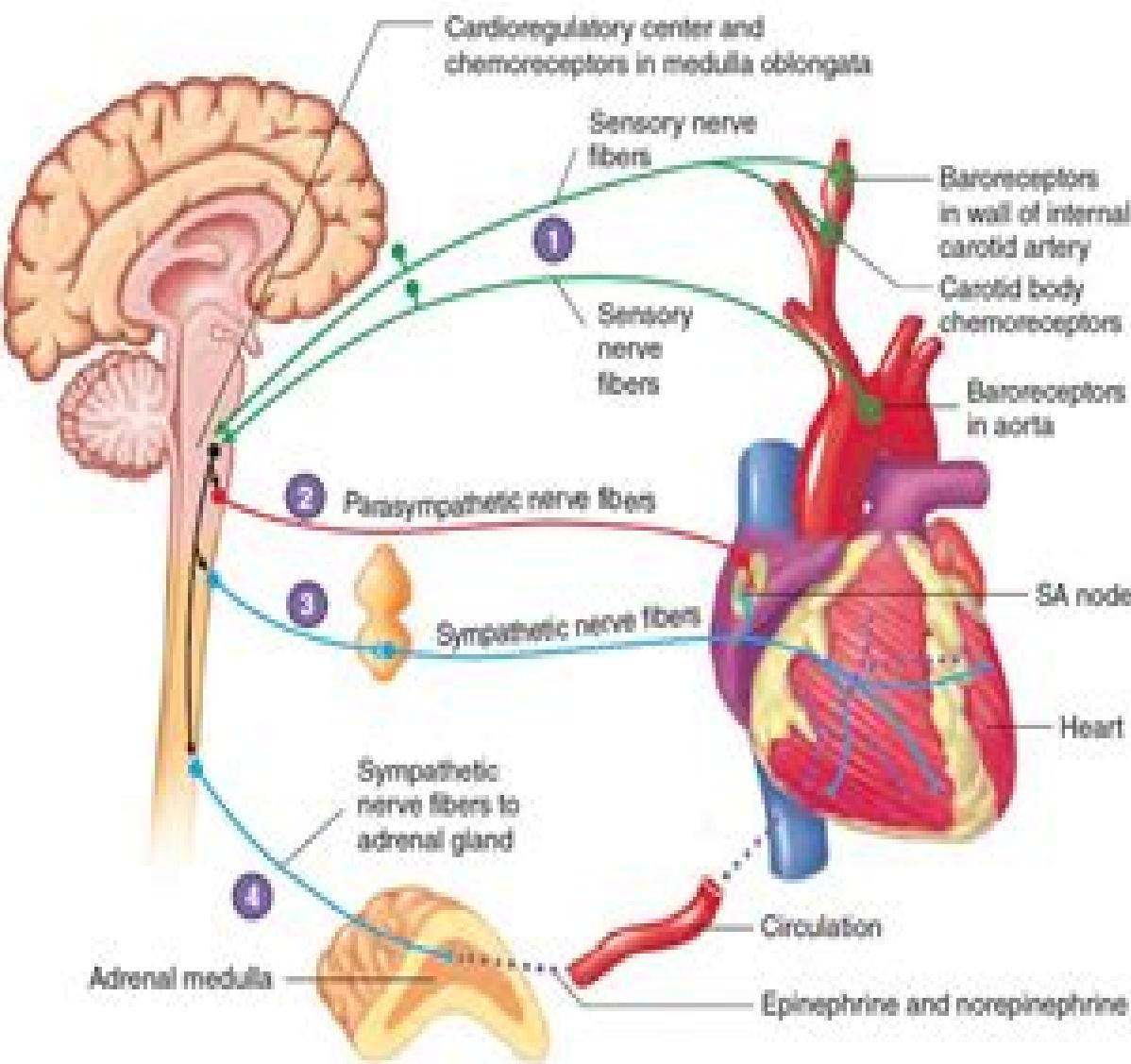


1 Sensory neurons (green) carry action potentials from baroreceptors to the cardioregulatory center. Chemoreceptors in the medulla oblongata influence the cardioregulatory center.

2 The cardioregulatory center controls the frequency of action potentials in the parasympathetic neurons (red) extending to the heart. The parasympathetic neurons decrease the heart rate.

3 The cardioregulatory center controls the frequency of action potentials in the sympathetic neurons (blue) extending to the heart. The sympathetic neurons increase the heart rate and the stroke volume.

4 The cardioregulatory center influences the frequency of action potentials in the sympathetic neurons (blue) extending to the adrenal medulla. The sympathetic neurons increase the secretion of epinephrine and some norepinephrine into the general circulation. Epinephrine and norepinephrine increase the heart rate and stroke volume.



## PROCESS Figure I2.22 Summary of Extrinsic Regulation

Sensory nerves (green) carry action potentials from sensory receptors to the medulla oblongata. Sympathetic nerves (blue) and parasympathetic nerves (red) exit the spinal cord or medulla oblongata and extend to the heart to regulate its function. Epinephrine and norepinephrine from the adrenal gland also help regulate the heart's action. (SA = sinoatrial)

# Nervous Control Of Cardiovascular Function

**Daniela Niemeyer**

## **Nervous Control Of Cardiovascular Function:**

*Nervous Control of Cardiovascular Function* Walter C. Randall, 1984 Describing the functional neural regulation of the heart and circulation this book illustrates recent research on the cardiac innervation selective denervation receptor mechanisms and the neural mediation of cardiovascular reflexes The pathways mediating cardiac pain behavioural and exercise inputs are also discussed in detail

**Autonomic Nervous Control of Cardiovascular Function During Prolonged Exercise in Humans** Daniel W. White, 2014 The importance of physical activity is well established as a means to maintain good health However under certain conditions and in some individuals heavy exercise leads to catastrophic failure of the cardiovascular system This is especially true during early recovery from exercise This may be due in part to an improper response of the autonomic nervous system that is an imbalance of the sympathetic and parasympathetic nervous systems The purpose of the investigations presented in this dissertation was to i re evaluate the commonly accepted model of autonomic influence on control of heart rate during exercise ii study the effects of posture on recovery from heavy exercise and iii determine the effect of muscle pump activity on cardiorespiratory control of the cardiovascular system during the transition from active to inactive recovery following heavy dynamic two legged cycling In the first investigation we examined previously reported and newly collected data and determined a fine balance exists between the sympathetic and parasympathetic nervous systems throughout all intensities of exercise Our conclusions led to the development of a new model of autonomic balance during exercise In the second investigation we concluded that unloading of the cardiopulmonary baroreceptors by upright posture significantly increases baroreflex control of heart rate during rest and during recovery from heavy dynamic leg cycling exercise We also show that steady state blood pressure and the baroreflex control of blood pressure is not significantly different based on orthostatic posture before or after exercise In the third investigation we concluded that loading of the cardiopulmonary baroreceptors by muscle pump activity during active recovery from heavy exercise diminishes the respiratory induced changes in cardiovascular function observed during inactive recovery Overall these investigations highlight the importance of the autonomic nervous system during exercise and during recovery from heavy exercise Collectively these conclusions should influence the decision making process regarding mode of recovery from heavy exercise especially in an at risk population because recovery is the time when most adverse events take place

**Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants, 1972    *Comprehensive Textbook of Medical Physiology - Two Volume Set* GK Pal, Parvati Pal, Nivedita Nanda, 2016-10-31 Two volume set a complete guide to medical physiology for undergraduate medical students Covers both clinical and applied physiology of all anatomical systems Includes numerous photographs and invaluable learning tools    **Research Awards Index** ,    State of New York Supreme Court Appellate Division Fourth Department ,    Fundamental Cardiovascular and Pulmonary Physiology Jerry Franklin Green, 1987    The Heart and Cardiovascular System Harry Allen Fozzard, 1986    Subject Index of Current

*Research Grants and Contracts Administered by the National Heart, Lung and Blood Institute* National Heart, Lung, and Blood Institute, 1978    **The Boston Medical and Surgical Journal**, 1920    The Science and Practice of Pediatric Cardiology, 1990    **Federation Proceedings** Federation of American Societies for Experimental Biology, 1962

*Physiology and Pathophysiology of the Heart* Nick Sperelakis, 1989-01-31 The first edition of this book was quite successful. As in the first edition the book is divided into two major sections: cardiac muscle and coronary circulation. Several complimentary book reviews appeared soon after the first edition was published and written. Membrane biophysics, electrophysiology, physiology, oral words of praise and appreciation were given both by physiology, pharmacology, biochemistry, to the publisher and to me by quite a few individuals and ultrastructure. Thus the book attempts to do more than just describe the function of the heart as a vital organ under normal and various abnormal conditions. The book took over a year to complete. All chapter contributors also attempted to set the foundation for an understanding of the mechanisms of action and mechanism of action of a variety of drugs.

**Studies from the Rockefeller Institute for Medical Research**, 1913 Consists chiefly of reprints from various medical journals.    "The Modern Physician, Being a Complete Guide to the Attainment and Preservation of Health" Andrew Wilson, 1910    The Sensory and Motor Disorders of the Heart Alexander Morison, 1914    *Textbook of Medical Physiology* Arthur C. Guyton, 1991 This textbook offers current authoritative coverage that is easy to read and understand. It provides coverage of molecular and cellular physiology, long term arterial pressure regulation and hypertension, the neurophysiology of vision, the body's resistance to infection, and physiology from a quantitative perspective. The new edition integrates the latest information throughout the text and helps students relate physiology to other aspects of medicine and analyze problems.

*University of Missouri-Columbia Bulletin*, 1925    **Bulletin**, 1925    **Human Physiology and Mechanisms of Disease** Arthur C. Guyton, 1992 Intended for health science students and undergraduates this book covers the basic physiology of common human disorders. Topics discussed include motor control of the body, the parathyroid hormone, calcium and phosphate metabolism, and electrocardiograms in the diagnosis of heart abnormalities.

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question 1 assertion restriction enzymes recognize palindromic sequence reason palindromic sequences read same in both directions of the two strands answer question 2

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