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your autonomic nervous system includes a network of nerves that extend throughout your head and body some of those nerves extend directly out from your brain while others extend out from your spinal cord which relays signals from your brain into those nerves the autonomic nervous system ans is a functional division of the nervous system with its structural parts in both the central nervous system cns and the peripheral nervous system pns it controls the glands and smooth muscle of all the internal organs viscera unconsciously the autonomic nervous system is a control system that acts largely unconsciously and regulates bodily functions such as the heart rate its force of contraction digestion respiratory rate pupillary response urination and sexual arousal the autonomic nervous system is a component of the peripheral nervous system that regulates involuntary physiologic processes including heart rate blood pressure respiration digestion and sexual arousal it contains three anatomically distinct divisions sympathetic parasympathetic and enteric the autonomic system is the part of the peripheral nervous system that regulates involuntary body functions including digestion and heartbeat learn how it works your

autonomic nervous system is the aspect of the nervous system that controls all of your vital functions like breathing digestion and heart rate many of which you aren't consciously aware of in short it keeps you alive ian cuming Getty images it's probably a good thing that your autonomic nervous system is out of your conscious control the autonomic nervous system is a complex network of cells that controls the body's internal state it regulates and supports many different processes often outside of a person's conscious the autonomic nervous system receives input from parts of the central nervous system CNS that process and integrate stimuli from the body and external environment these parts include the hypothalamus nucleus of the solitary tract reticular formation amygdala hippocampus and olfactory cortex autonomic nervous system in vertebrates the part of the nervous system that controls and regulates the internal organs without any conscious recognition or effort by the organism the autonomic nervous system comprises two antagonistic sets of nerves the sympathetic and parasympathetic nervous systems the autonomic system consists of two major divisions the sympathetic nervous system and the parasympathetic nervous system these often function in antagonistic ways the motor outflow of both systems is formed by two serially connected sets of neurons the autonomic nervous system a part of our overall nervous system regulates smooth muscle cells cardiac muscle and gland cells autonomously it consists of two subsystems the sympathetic nervous system for fight or flight responses and the parasympathetic nervous system for rest and digestion the autonomic nervous system ans is made up of pathways of neurons that control various organ systems inside the body using many diverse chemicals and signals to maintain homeostasis it divides into the sympathetic and parasympathetic systems the autonomic nervous system receives input from parts of the central nervous system CNS that process and integrate stimuli from the body and external

environment these parts include the hypothalamus nucleus of the solitary tract reticular formation amygdala hippocampus and olfactory cortex the autonomic nervous system controls cardiac and smooth muscle as well as glandular tissue the somatic nervous system is associated with voluntary responses though many can happen without conscious awareness like breathing and the autonomic nervous system is associated with involuntary responses such as those related to homeostasis overview the autonomic nervous system ans maintains blood pressure regulates the rate of breathing influences digestion urination and modulates sexual arousal the sympathetic portion of the ans controls reactions like the stress response and the fight or flight reaction in addition to the endocrine system the autonomic nervous system is instrumental in homeostatic mechanisms in the body the two divisions of the autonomic nervous system are the sympathetic division and the parasympathetic division 16 1 autonomic nervous system 16 1 learning outcomes understand the general structure of the autonomic nervous system understand the concept of balance or homeostasis and how it is controlled through the two divisions of the autonomic nervous system compare and contrast the autonomic and somatic nervous systems the autonomic nervous system is the part of the nervous system that supplies the internal organs including the blood vessels stomach intestine liver kidneys bladder genitals lungs pupils heart and sweat salivary and digestive glands the autonomic nervous system has two main divisions sympathetic parasympathetic the autonomic nervous system ans is a nervous system component responsible for regulating involuntary bodily functions such as heart rate digestion respiratory rate and pupillary response the autonomic nervous system has widespread innervation to nearly every organ system in the body in order to understand the basics of autonomic function knowledge of the neuroanatomy of the autonomic nervous system is necessary

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your autonomic nervous system includes a network of nerves that extend throughout your head and body some of those nerves extend directly out from your brain while others extend out from your spinal cord which relays signals from your brain into those nerves

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the autonomic nervous system is a complex network of cells that controls the body's internal state it regulates and supports many different processes often outside of a person's conscious

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autonomic nervous system in vertebrates the part of the nervous system that controls and regulates the internal organs without any conscious recognition or effort by the organism the autonomic nervous system comprises two antagonistic sets of nerves the sympathetic and parasympathetic nervous systems

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the autonomic system consists of two major divisions the sympathetic nervous system and the parasympathetic nervous system these often function in antagonistic ways the motor outflow of both systems is formed by two serially connected sets of neurons

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the autonomic nervous system a part of our overall nervous system regulates smooth muscle cells cardiac muscle and gland cells autonomously it consists of two subsystems the sympathetic nervous system for fight or flight responses and the parasympathetic nervous system for rest and digestion

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overview the autonomic nervous system ans maintains blood pressure regulates the rate of breathing influences digestion urination and modulates sexual arousal the sympathetic portion of the ans controls reactions like the stress response and the fight or flight reaction

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in addition to the endocrine system the autonomic nervous system is instrumental in homeostatic mechanisms in the body the two divisions of the autonomic nervous system are the sympathetic division and the parasympathetic division

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