

Free ebook Plates of the cerebro spinal nerves with references for the use of medical students [PDF]

spinal nerves are an integral part of the peripheral nervous system pns they are the structures through which the central nervous system cns receives sensory information from the periphery and through which the activity of the trunk and the limbs is regulated also they transmit the motor commands from the cns to the muscles of the periphery spinal nerves are the major nerves of the body there are a total of 31 symmetrical pairs of spinal nerves that emerge from different segments of the spine each spinal nerve contains both sensory and motor nerve fibers a spinal nerve is a mixed nerve which carries motor sensory and autonomic signals between the spinal cord and the body in the human body there are 31 pairs of spinal nerves one on each side of the vertebral column spinal nerves there are 31 pairs of spinal nerves again they are named according to where they each exit in the spine see figure below each spinal nerve is attached to the spinal cord by two roots a dorsal or posterior root which relays sensory information and a ventral or anterior root which relays motor information therefore spinal nerves are mixed nerves that interact directly with the spinal cord to modulate motor and sensory information from the body s periphery each nerve forms from nerve fibers known as fila radicularia extending from the posterior dorsal and anterior ventral roots of the spinal cord spinal nerves are all mixed nerves with both sensory and motor fibers spinal nerves emerge from the spinal cord and reorganize through plexuses which then give rise to systemic nerves thoracic spinal nerves are not part of any plexus but give rise to the intercostal nerves directly spinal nerve in vertebrates any one of many paired peripheral nerves that arise from the spinal cord in humans there are 31 pairs 8 cervical 12 thoracic 5 lumbar 5 sacral and 1 coccygeal each pair connects the spinal cord with a specific region of the body the spinal nerves that arise from the end of the spinal cord are bundled together forming a structure known as the cauda equina during the course of the spinal cord there are two points of enlargement the cervical enlargement is located proximally at the c4 t1 level it represents the origin of the brachial plexus spinal nerves are mixed nerves sending motor sensory and autonomic signals between the cns and the body and they belong to the peripheral nervous system pns 1 2 spinal nerves are essential for the control of body parts by the higher centres of the nervous system spinal nerves are all mixed nerves with both sensory and motor fibers spinal nerves emerge from the spinal cord and reorganize through plexuses which then give rise to systemic nerves thoracic spinal

nerves are not part of any plexus but give rise to the intercostal nerves directly the somatic nervous system consists of nerves that connect the brain and spinal cord with muscles controlled by conscious effort voluntary or skeletal muscles and with sensory receptors in the skin sensory receptors are specialized endings of nerve fibers that detect information in and around the body autonomic nervous system there are 31 spinal nerves named for the level of the spinal cord at which each one emerges there are eight pairs of cervical nerves designated c1 to c8 twelve thoracic nerves designated t1 to t12 five pairs of lumbar nerves designated l1 to l5 five pairs of sacral nerves designated s1 to s5 and one pair of coccygeal nerves anatomy the spinal cord is adjacent to and below the medulla which is the lowest part of the brain the top region of the spinal cord extends down from the medulla all the way to the lower back throughout the spinal cord there is a consistent arrangement of nerves overview spinal stenosis happens when the space inside the backbone is too small this can put pressure on the spinal cord and nerves that travel through the spine spinal stenosis occurs most often in the lower back and the neck some people with spinal stenosis have no symptoms others may experience pain tingling numbness and muscle weakness all spinal nerves except the first pair emerge from the spinal column through an opening between vertebrae called an intervertebral foramen the spinal nerves are typically labeled by their location in the body thoracic lumbar or sacral human body skeletal system spine the spinal cord begins at the base of the brain and extends into the pelvis many of the nerves of the peripheral nervous system or pns branch out from pain relievers you can buy without a prescription ibuprofen advil motrin ib others naproxen sodium aleve or acetaminophen tylenol others is often enough to control the pain associated with cervical spondylosis heat or ice applying heat or ice to your neck can ease sore neck muscles soft neck brace learning objectives by the end of this section you will be able to name the twelve cranial nerves and explain the functions associated with each describe the sensory and motor components of spinal nerves and the plexuses that they pass through spinal nerves the nerves connected to the spinal cord are the spinal nerves

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