

What Does The Spinal Cord Do

Congenital dermal sinus That is, the skin separates from the tissue of the spinal cord to allow proper formation of the vertebral column. Congenital dermal sinus is an uncommon form of cranial or spinal dysraphism. It occurs in 1 in 2500 live births. Congenital dermal sinus form due to a focal failure of dysjunction between the cutaneous ectoderm and neuroectoderm during the third to eighth week of gestation. Typically observed in the lumbar and lumbosacral region, congenital dermal sinus can occur from the nasion and occiput region down. to allow for the insertion of mesoderm. It occurs as a dermal indentation, found along the midline of the neuraxis and often presents alongside infection and neurological deficit 9149402163

== History == 9149402163

Spinal cord injury It is a destructive neurological and pathological state that causes major motor, sensory and autonomic dysfunctions. A spinal cord injury (SCI) is damage to the spinal cord that causes temporary or permanent changes in its function. It is a destructive neurological and A spinal cord injury (SCI) is damage to the spinal cord that causes temporary or permanent changes in its function 9149402163

As the patient... 9149402163 The Kennedy Krieger Institute opened in 1937 when Winthrop Phelps, an orthopedic surgeon from Baltimore, responded to a dire need for treatment for individuals with cerebral palsy. Phelps founded the Children's Rehabilitation Institute, the first treatment facility in the country dedicated solely to children with cerebral palsy. The institute was renamed the Kennedy Institute in 1968 in memory of President John F. Kennedy who enacted the Medical Training Act during his administration, to protect the rights and improve the lives of persons with disabilities. In 1992... 9149402163 == Plot summary == 9149402163

Anterior spinal veins There Anterior spinal veins (also known as anterior coronal veins and anterior median spinal veins) are veins that receive blood from the anterior spinal cord. Anterior spinal veins (also known as anterior coronal veins and anterior median spinal veins) are veins that receive blood from the anterior spinal cord 9149402163

The lateral grey column is only present in the thoracic region and upper lumbar segments (T1-L2). It contains preganglionic cell bodies of the autonomic nervous system and sensory relay neurons. 9149402163 == Structure == 9149402163 == Signs and

symptoms == 9149402163

Kennedy Krieger Institute The Institute provides services for children with developmental concerns mild to severe and is involved in research of various disorders, including new interventions and earlier diagnosis. learning disabilities, as well as disorders of the brain, spinal cord, and musculoskeletal system. The Institute provides services for children with developmental The Kennedy Krieger Institute () is a nonprofit, 501(c)(3) tax-exempt, Johns Hopkins Hospital affiliate located in Baltimore, Maryland, that provides in-patient and out-patient medical care, community services, and school-based programs for children and adolescents with learning disabilities, as well as disorders of the brain, spinal cord, and musculoskeletal system 9149402163

Rehabilitation in spinal cord injury When treating a person with a spinal cord injury, repairing the damage created by injury is the ultimate goal. Furthermore, increasing activity will increase his/her chances of recovery. By using a variety of treatments, greater When treating a person with a spinal cord injury, repairing the damage created by injury is the ultimate goal. By using a variety of treatments, greater improvements are achieved, and, therefore, treatment should not be limited to one method 9149402163

The Spinal Cord Perception Porter, better known by his stage name Josh Dies, the singer/songwriter for the band Showbread The Spinal Cord Perception is the first novel by Joshua S. Porter, better known by his stage name Josh Dies, the singer/songwriter for the band Showbread. Written in a stream of consciousness narrative, the story is told in a series of bi-polar rants by Rivers, and chronicles his thoughts in non-linear sequences from childhood through his adult life. The novel depicts many hallucinations from Rivers' perspective, and the reader is left not knowing which scenes are reality and which are fantasy. The Spinal Cord Perception is the first novel by Joshua S. Self-published by Porter in 2006, the book revolves around a small-town substitute teacher named David Rivers, who is haunted by a small black monster which he refers to as the "Llapasllaly". It depicts his downward spiral into depression, apathy and an apparent anti-social personality disorder 9149402163

The anterior grey column is made up of alpha motor neurons, gamma motor neurons, and small neurons thought to be interneurons. It affects the skeletal muscles. 9149402163 Bradley Schlaggar is CEO of the Kennedy Krieger Institute. 9149402163 There are three anterior spinal veins in total. These, along with three posterior spinal veins, are allowed to communicate with one another as they run interconnected throughout the entire length of the spinal cord. This is seen through both sets of veins combining to form a network of anastomoses around the conus medullaris. Together... 9149402163 In the majority of cases the damage results from physical trauma such as car accidents, gunshot... 9149402163 Medical professionals may clinically... 9149402163 == Structure == 9149402163 Early diagnosis and treatment is crucial for cases of congenital dermal sinus. It ensures that neurological condition does not degrade and prevents infection. Diagnosis can be confirmed through the use of advanced neuroimaging to observe the

tract and associated lesions. 9149402163 In cases of congenital dermal sinus there is a failure in this process, resulting in formation of a persistent connection between the... 9149402163 Symptoms of spinal cord injury may include loss of muscle function, sensation, or autonomic function in the parts of the body served by the spinal cord below the level of the injury. Injury can occur at any level of the spinal cord and can be complete, with a total loss of sensation and muscle function at lower sacral segments, or incomplete, meaning some nervous signals are able to travel past the injured area of the cord up to the Sacral S4-5 spinal cord segments. Depending on the location and severity of damage, the symptoms vary, from numbness to paralysis, including bowel or bladder incontinence. Long term outcomes also range widely, from full recovery to permanent tetraplegia (also called quadriplegia) or paraplegia. Complications can include muscle atrophy, loss of voluntary motor control, spasticity, pressure sores, infections, and breathing problems. 9149402163

Grey columns The grey columns are three regions of the somewhat ridge-shaped mass of grey matter in the spinal cord. These regions present as three columns: the anterior grey column, the posterior grey column, and the lateral grey column, all of which are visible in cross-section of the spinal cord. These regions present as three columns: the anterior The grey columns are three regions of the somewhat ridge-shaped mass of grey matter in the spinal cord 9149402163

There are two major components to venous draining: the intrinsic vessels which drain first, and the pial veins which drain second. Within the intrinsic vessels are a group of veins known as central veins. These are organized into individual comb-like repetitive structures that eventually fuse together once in the ventral median spinal fissure. After their fusion the group of central veins drains its combined contents into an anterior spinal vein. These veins can infiltrate back into the ventral median spinal fissure previously mentioned by up to a few centimeters. They are also not only smaller in size but more numerous than the equivalent anterior spinal artery which they lie dorsal to. 9149402163

Lumbar spinal stenosis Spinal stenosis may also affect the cervical or thoracic region, in which case it is known as cervical spinal stenosis or thoracic spinal stenosis. control. Lumbar spinal stenosis can cause pain in the low back or buttocks, abnormal sensations, and the absence of sensation (numbness) in the legs, thighs, feet, or buttocks, or loss of bladder and bowel control. Narrowing of spinal structures in the spinal cord such as the central canal, the lateral recesses, or the intervertebral Lumbar spinal stenosis (LSS) is a medical condition in which the spinal canal narrows and compresses the nerves and blood vessels at the level of the lumbar vertebrae. The precise cause of LSS is unclear 9149402163

Sexuality after spinal cord injury This results in lost or reduced sensation and muscle motion, and affects orgasm, erection, ejaculation, and vaginal lubrication. Neural plasticity may account for increases in sensitivity in parts of the body that have not lost

sensation, so people often find newly sensitive erotic areas of the skin in erogenous zones or near borders between areas of preserved. Physical limitations acquired from SCI affect sexual function and sexuality in broader areas, which in turn has important effects on quality of life. People with SCI may employ a variety of adaptations to help carry on their sex lives healthily, by focusing on different areas of the body and types of sexual acts. More indirect causes of sexual dysfunction include pain, weakness, and side effects of medications. This results Although spinal cord injury (SCI) often causes sexual dysfunction, many people with SCI are able to have satisfying sex lives. life. Many people with SCI have satisfying sex lives, and many experience sexual arousal and orgasm. Psycho-social causes include depression and altered self-image. Damage to the spinal cord impairs its ability to transmit messages between the brain and parts of the body below the level of the lesion. Damage to the spinal cord impairs its ability to transmit messages between the brain and parts of the body below the level of the lesion 9149402163

Although the most obvious symptom is impairment of the limbs, functioning is also impaired in the trunk and pelvic organs. This can lead to loss or impairment of controlling bowel and bladder, sexual function, digestion, breathing, and other autonomic functions. Sensation is usually impaired in affected areas, which may manifest as numbness, reduced sensation, or neuropathic pain. Tetraplegics... 9149402163

Tetraplegia A loss of sensory function can present as an impairment or complete inability to sense light touch, pressure, heat, pinprick/pain, and proprioception. The paralysis may be flaccid or spastic. defined as the dysfunction or loss of motor or sensory function in all four limbs, typically caused by damage to the cervical area of the spinal cord. A loss Tetraplegia, also known as quadriplegia, is defined as the dysfunction or loss of motor or sensory function in all four limbs, typically caused by damage to the cervical area of the spinal cord. A loss of motor function can present as either weakness or paralysis leading to partial or total loss of function in the arms, legs, trunk, and pelvis (paraplegia is similar but affects the thoracic, lumbar, and sacral segments of the spinal cord, and arm function is retained). In these types of spinal cord or peripheral nerve injury, it is common to have a loss of both sensation and motor control 9149402163

David Rivers, a 24-year-old substitute teacher (most likely with anti-social personality disorder) begins the story by moving back to Georgia after spending several months in California fleeing from an undisclosed incident involving a classroom full of children. As the story progresses... 9149402163 The precise cause of LSS is unclear. Narrowing of spinal structures in the spinal cord such as the central canal, the lateral recesses, or the intervertebral foramen (the opening where a spinal nerve root passes) must be present, but are not sufficient to cause LSS alone. Many people who undergo MRI imaging are found to have such changes but have no symptoms. These changes are commonly seen in people who have spinal degeneration that occurs with aging (e.g., spinal disc

herniation). LSS may also be caused by osteophytes, osteoporosis, a tumor, trauma, or various skeletal dysplasias, such as with pseudoachondroplasia and achondroplasia. 9149402163 == Acute recovery == 9149402163 During normal development, cutaneous ectoderm separates from neuroectoderm to allow for the insertion of mesoderm. That is, the skin separates from the tissue of the spinal cord to allow proper formation of the vertebral column. 9149402163 The posterior grey column receives several types of sensory information regarding touch and sensation from receptors in the skin, bones, and joints, including fine touch, proprioception, and vibration. It contains the cell bodies of second-order sensory neurons and their synapses with the pseudounipolar first-order sensory neurons (whose cell bodies are located within the sensory ganglia (a.k.a. dorsal root ganglia)). 9149402163 The rehabilitation process following a spinal cord injury typically begins in the acute care setting. Occupational therapy plays an important role in the management of SCI. Recent studies emphasize the importance of early occupational therapy, started immediately after the client is stable. This process includes teaching of coping skills, and physical therapy. Physical therapists, occupational therapists, social workers, psychologists and other health care professionals typically work as a team under the coordination of a physiatrist to decide on goals with the patient and develop a plan of discharge that is appropriate for the patient's condition. In the first step, the focus is on support and prevention. Interventions aim to give the individual a sense of control over a situation in which the patient likely feels little independence. 9149402163 == Embryogenesis == 9149402163 Porter has described the book as "Equal parts black comedy, scathing satire, bleak horror and love story." 9149402163

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