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5 Management of acute spinal cord injury

Management of acute spinal cord injury: a summary of the evidence pertaining to the acute management, operative and non-operative management.

Abstract

Acute traumatic spinal cord injury is often a lifechanging and devastating event with considerable mortality and morbidity. Over half a million people suffer from traumatic spinal cord injury annually with the majority resulting from road traffic accidents or falls. The Individual, societal and economic costs are enormous. Initial recognition and treatment of acute traumatic spinal cord injury are crucial to limit secondary injury to the spinal cord and to provide patients with the best chance of some functional recovery. This article is an overview of the management of the acute

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The spinal canal and cord are protected by the vertebral column whose integrity depends on a

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The vertebral column

The spinal canal and cord are protected by the vertebral column whose integrity depends on a series of ligaments joining together and strengthening the vertebrae (Fig. 1). The integrity and stability of the system may be functionally divided into three complexes, the anterior longitudinal ligaments with the an...

The spinal canal

The spinal canal contains the spinal cord in a potential space filled with epidural fat and blood vessels. The size of this potential space varies considerably along the length of the canal. It is narrowest in the mid-thoracic region and unstable injuries here easily impact onto the cord, particularly retropulsion of b...

The spinal cord

The function of the spinal cord is to allow both sensory and motor information to pass between the body and brain. The two major sensory pathways are the posterior columns and the spinothalamic tracts and the major motor pathway is the corticospinal tract (Fig. 2). The posterior column transmits sensory info...

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Management of acute traumatic spinal cord injuries ...

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Jan 01, 2017 · **Acute** traumatic **spinal cord injury** (SCI) is a devastating disease process affecting tens of thousands of people across the USA each year. Despite the increase in primary prevention measures