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Name of Journal: *World Journal of Radiology*

Manuscript NO: 58496

Manuscript Type: ORIGINAL ARTICLE

Retrospective Study

Magnetic resonance imaging findings of redundant nerve roots of the cauda equina

MRI of RNS of cauda equina

Abstract

BACKGROUND

Redundant nerve roots (RNRs) of the cauda equina are often a natural evolutionary part of lumbar duct stenosis secondary to degenerative processes characterized by elongated, enlarged, and tortuous nerve roots in the superior and/or inferior of the stenotic segment. Although magnetic resonance imaging (MRI) findings have been defined more frequently in recent years, this condition has been relatively under-recognized in radiological practice.

Magnetic resonance imaging findings of redundant nerve roots of tl



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In imaging diagnosis, redundant nerve roots of the cauda equina are characterized by the presence of **elongated, enlarged and tortuous nerve roots** in close relationship with a high-grade lumbar spinal canal stenosis.

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Object: Previous reports of **redundant nerve roots (RNRs) of the cauda equina** have been limited to evaluations based on myelography. Neither the **imaging** nor the clinical features of **RNRs** in relation to...

Cited by: 22

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Publish Year: 2007



Cauda equina

The cauda equina is a bundle of spinal nerves and spinal nerve rootlets, consisting of the second through fifth lumbar nerve pairs, the first through fifth sacral nerve pairs, and the coccygeal nerve, all of which arise from the lumbar enlargement and the conus medullaris of the spinal cord. The cauda equina occupies the lumbar cistern, a subarachnoid space inferior to the conus medullaris. The nerves that compose the cauda equina innervate the pelvic organs and lower limbs to include motor innervation of the hips, knees, ankles, feet, internal anal sphincter and external anal sphincter. In addition, the cauda equina extends to sensory innervation of the perineum and, partially, parasympathetic innervation of the bladder.

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