

Elsberg Syndrome

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Introduction

Elsberg syndrome (ES) is an infectious syndrome consisting of acute bilateral lumbosacral radiculitis, often accompanied by myelitis confined to the lower spinal cord, and is frequently a manifestation of reactivation, or occasionally, primary herpes simplex virus 2 infection [1].

The onset of ES is consistently acute and symptoms includes: Urinary retention, urinary incontinence, bowel incontinence, saddle anesthesia, exaggerated/pathologic lower limb tendon reflexes or absent lower limb tendon reflexes, Loss of limb sensation and Leg weakness [2].

Clinical picture, MRI, EMG and CSF studies confirm the diagnosis.

EMG shows evidence of radiculopathies.

MRI of the Spinal cord lesions (Figure 1) shows multiple, discontinuous, and centrally or ventrally positioned lesions generally sparing the distal conus. Nerve root enhancement is prominent and smooth rather than nodular [3] shows Lymphocytic CSF pleocytosis CSF proteins were consistently elevated, and oligoclonal bands are rarely detected. CSF PCR is positive for VZV and 43% of cases have viral isolation studies positive for herpes.

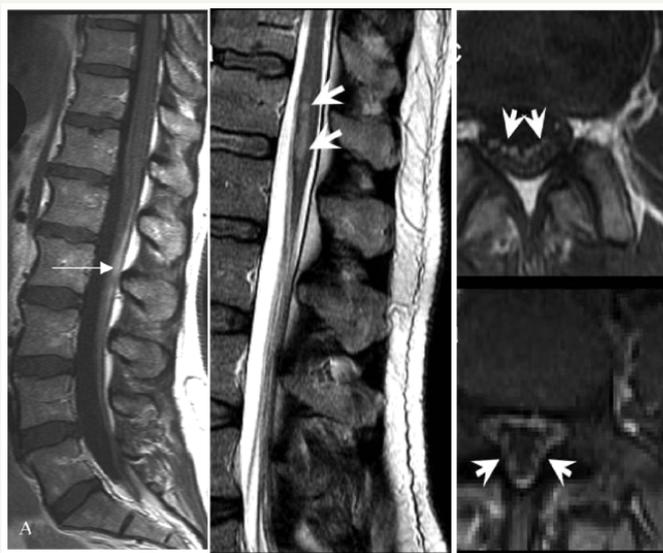


Figure 1:

Picture A enhancement of the nerve roots. Picture

B shows the presence of multiple and discontinuous T2 hyperintense lesions in the caudal spinal cord. Picture

C shows enhancement of the nerve roots of the cauda equine.

Differential diagnosis includes

- I. Lymphoma, Spinal neoplasms, Vascular disorders (dural arteriovenous fistula).
- II. Guillain-Barre'syndrome, chronic inflammatory demyelinating, polyneuropathy, MS, NMO or clinically isolated demyelinating syndrome.

- III. Myelitis secondary to systemic autoimmune diseases (sarcoidosis, SLE, Sjögren, Behçet, and systemic sclerosis).

Infectious myelitis

- a. viral (not herpes), bacterial, fungal, lyme or parasitic.
- b. Infectious brain infection (encephalitis or meningitis)
- c. Paraneoplastic myelitis



- d. Motor neuron disease
- e. Radiation myelopathy
- f. Metabolic myelopathy (vitamins B12, D, E, and copper deficiencies)

Treatment

Acyclovir is the treatment of choice and most patients recover with sequelae.

References

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