

## **Cerebrospinal liquid findings in Mexican patients with anti-NMDA encephalitis.**

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**Background:** Autoimmune encephalitis is an emerging neuroimmune disease, characterizing by neuropsychiatric symptoms as catatonia, psychosis and abrupt personality changes and neurologic symptoms as abnormal movements and epileptic status, the approach and treatment must be interdisciplinary.

To know the characteristics in the first determination by lumbar puncture of Cerebrospinal liquid in patients with the suspect diagnosis of anti-NMDAR encephalitis, can help us to give an early treatment and delimit the cognitive and neuropsychiatric disability.

**Methodology:** this is an observational, retrospective and descriptive study of cerebrospinal fluid obtained by lumbar puncture collected from clinical records of NMDAR encephalitis patients' with Dalmau clinical criteria, in National neurology and neurosurgery institute, of Health ministry in Mexico City.

**Results:** total patients were 20, 60% (12)female 40% (8)male, the cerebrospinal analysis cytologic and cytochemical, without abnormalities (n=7) 35% and abnormal (n=13) 65%, within this abnormal findings pleocytosis 65%, lymphocyte media count were 28.85 Cels/mm<sup>3</sup>, hyperproteinorrachya 25% with a media of 34.65 mg/dl. Oligoclonal bands in only 10% (n=2).

**Conclusions:** the absence of pathological findings in Cerebrospinal liquids doesn't exclude the diagnosis, lymphocytes might be the principal cellular line involved in the initial pathology, the protein synthesis might be moderate 34.65 mg/dl without Oligoclonal bands acute synthesis.

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