

90 NEURONAL SURFACE ANTIBODIES MEDIATED ENCEPHALITIS CASES: A SINGLE CENTER STUDY FROM CHINA DURING 2.5 YEARS

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OBJECTIVE: To summarize the 2.5 years result of neuronal surface antibodies mediated encephalitis diagnostic screening in one of the largest reference laboratory in China.

BACKGROUND: Autoantibodies specifically bind the channels or the receptors on neuronal membrane, making patients present with psychiatric disturbances, cognitive dysfunction, seizures and movement disorders are increasingly recognized.

DESIGN/METHODS: Since September 2011, Department of Neurology, Beijing Friendship Hospital has received paired serum and CSF samples of 525 clinically suspected encephalitis cases nationwide and tested with commercial indirect immunofluorescence kits.

RESULTS: Anti-NMDAR encephalitis is the most commonly found, with 76 cases, age range 1-57y, F/M ratio 34/42. The large proportion of CSF anti-NMDAR antibodies positive and serum anti-NMDAR antibodies negative cases suggesting the intrathecal antibody synthesis. The titers of CSF anti-NMDAR antibodies were found not relevant to the prognosis of the patients. Among 8 anti-LGI1 encephalitis cases (age range 42-76y, F/M ratio 2/6), four patients firstly presented with grand mal seizures and four firstly with amnesia and disorientation. Faciobrachial dystonic seizures were recorded in three anti-LGI1 patients. All anti-LGI1 encephalitis patients were accompanied with mild hyponatremia and found tumor-free during follow-up. As for the 6 anti-GABA(B)R encephalitis cases, 2 patients were found with small cell lung cancer and also serum anti-Hu positive. Unlike previous literature, anti-GAD65 antibodies were not found in our anti-GABA(B)R encephalitis cases.

CONCLUSIONS: Patients with neuronal surface antibodies mediated encephalitis benefit from the early scanning of autoantibodies and early initiation of immunotherapies.

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