Comparison of Heparin Binding Growth Factor Level in Multiple sclerosis Against Neuromyelitis Optica Patients

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Objective: A heparin-binding growth factor known as Midkine (MK) possess various effects in role important an udingincl ,body the of tissues different in of inductiononcogenesis, inflammation and restoration of tissues. MK with promoting effects in inflammatory responses through enhancing the leukocytes migration in neurological to aimed study present The .diseases factor growth this of concentration the assessamong multiple sclerosis (MS) patients with first attack and neuromyelitis optica or a NMOlso called Devic disease.

Methods: The MK level was assessed in 100 new case of MS, 80 Devic patients and 40 and samples blood from isolated were Sera .samples healthy a for C°۲۰– at storedmaximum of 48 h before being stored at –70°C prior to analysis using a MK sandwich .software SPSS by analyzed was Data .kit ELISA.

Results: Our results showed that the MK concentration in MS patients with first attack was of average mean The .significantly ,subjects Devic than higher so was MK1191.39±356.78 in MS patients, 882.67±212.93 in Devic patients and 612.96±81.58 .samples healthy in Conclusion: overall, these results demonstrated that MK plays a prominent function in reactions inflammatory ,So .MS in especially ,disease autoimmune neuro in also and the MK level may be applied for earlier diagnose and also to prevent from disease by progression inhibitor special using.

Keywords: Midkine, neuromyelitis optica, Multiple Sclerosis