

### **Clinical importance of F-waves as a prognostic factor in Guillain-Barre Syndrome in children**

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A limited number of studies have examined the link between F-wave abnormalities and clinical presentation in pediatric Guillain-Barre syndrome (GBS). Further randomized controlled studies are needed to confirm the clinical significance of these findings and efficacy of treatment. Therefore, this study examined the importance of F-wave abnormalities as a prognostic factor in pediatric GBS patient. We retrospectively evaluated the records and electrodiagnostic studies (EDS) from 70 GBS patients. Subjects were divided into two groups according to the results of EDS, including F-wave examination. Group A (n=33) presented with F-wave abnormalities, and Group B (n=26) exhibited normal findings. We compared laboratory reports, clinical features, response to treatment, and prognosis between the two groups. The most common symptom was motor weakness in both groups. The prevalence of abnormal deep tendon reflex (DTR) was significantly higher in Group A than B ( $p < 0.05$ ). Patients diagnosed with GBS had received intravenous immunoglobulin treatment: 31/33 (94%) in Group A and 15/26 (58%) in Group B. With regard to the relationship to F-wave abnormalities, significantly greater numbers of children in Group A showed H-reflex abnormalities and poor prognosis compared with Group B ( $p < 0.05$ ). This study demonstrated that F-waves are clinically important as a prognostic factor in GBS patients. Significantly more cases exhibited an abnormal DTR, and had a poorer prognosis than the normal group. Limited studies have examined the correlations between F-wave abnormalities and clinical results. Therefore, further randomized controlled studies are needed to confirm the clinical characteristics and efficacy of treatments.

#### **Biography**

Saeyoon Kim has completed his PhD from Yeungnam University and Postdoctoral studies from Kyungpook National University, School of Medicine. He is the Director of Division of Pediatric Neurology of Yeungnam University Hospital.

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