

SERUM MAGNESIUM LEVEL IN FEBRILE CONVULSION

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ABSTRACT

Aim

To study relation between serum magnesium levels and febrile convulsion and to compare serum magnesium level in children with febrile convulsion to febrile children with no convulsion.

Material and Methods

A prospective case control study done in Kempegowda Institutes of Medical science, Bangalore between October 2015- October 2016 where 2 groups were made of 45 children each as case and control group. Informed consent was taken by all parents and detailed history, past, birth and family history was taken and serum magnesium levels were done by Roche 9180 electrolyte analyser.

Results

Mean age of cases with febrile convulsion and febrile patients without seizures were 1.97years (+/-) 1.33years and 2.01years (+/-)1.02 years respectively. there were 24 male and 21 female babies in group 1 and 23 male and 22 females in other group. the mean age and sex were similar in both groups. Mean level of magnesium were 1.97+_0.24 and 2.19 +_ 0.20 in cases with febrile convulsion and febrile patients without seizures respectively and there was significant differences.

Conclusions

Febrile convulsion is the most common type of convulsion in children. We got a positive co relation between levels of serum magnesium and febrile convulsion. However more studies at a larger level required to establish a strong correlation between the two.

KEYWORDS: Serum Magnesium Levels, Febrile Convulsion & Convulsion

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