

Common Criteria Associated with First Episode of Complex Febrile Seizure in Neurologically Normal Children

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Background: Febrile seizures are classified into either simple febrile seizure or complex febrile seizure. Complex febrile seizures are typically associated with certain clinical features.

Objective: To evaluate the criteria associated with complex febrile seizure in neurologically normal children.

Setting: Pediatrics Ward and Clinic, Bahrain Defence Force Hospital, Bahrain.

Design: A Retrospective Study.

Method: One-hundred and five patients had a febrile seizure from 1 March 2017 to 31 March 2018. Ninety-six patients had complex febrile seizures and were included in the study and nine patients were excluded. Criteria for complex febrile seizures and EEG results were obtained using computerized database.

Result: Fifty-six (58%) patients were found to have more than one seizure attack in the first 24 hours of the febrile illness. The seizures lasted for more than fifteen minutes in 22 (23%) patients and 18 (19%) patients had focal seizure. Abnormal EEG was found in 18 (19%) patients.

Conclusion: The most common criterion associated with complex febrile seizure in normal developmental milestone children was the occurrence of more than one seizure attack in the first 24 hours during the period of febrile illness.