A Cerebral Malaria Simulating an Epileptic Seizure

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Abstract

The occurrence of tonic clonic convolution in an irregularly monitored epileptic patient may pose a problem of differential diagnosis with other convulsant pathologies such as cerebral malaria. We are reporting a case of cerebral malaria that occurred in an epileptic patient whose seizures had been taken as a status epilepticus, the consequence of which was a delay diagnosis of malaria. The objective is to contribute to better monitoring of people with epilepsy. This is about a young 27-year-old-epileptic person who had stopped his treatment and was admitted to hospital on August 12th 2015 for subintrant tonic clonic seizures associated with loss of consciousness. The examination upon admission revealed a general poor condition with a clouded consciousness, colored anicteric conjunctiva, an infectious syndrome with a temperature at 39°C, severe dehydration, Heart Function at 137 beats/min, Blood Pressure at 140/90 mmHg, claret red urine (hemoglobinuria). Bicarbonates were reduced to 15 mmol/L (acidosis), the creatinine 154.6 mmol/L (functional renal failure) and thick smear came back positive with a parasite density at 819 parasites/ml. Under treatment with artemether, PERFALGAN and bicarbonate infusion, the manifestations of status epilepticus. The objective is to contribute to better monitoring of people with epilepsy.

Observation

A 27-year-old patient, known epileptic and irregularly monitored since the age of three years. He was out of its antiepileptic treatment. He was admitted on August 12th 2015 for tonic clonic seizures associated with loss of consciousness. These subintrant convulsions (about a crisis every 30 minutes), taken at first for its seizure, led him to consult a health facility where he might have received care without success. Because of the persistence of crises, he was referred to YO University Hospital for better treatment. The examination upon admission revealed poor general condition with a clouded consciousness, colored anicteric conjunctiva, an infectious syndrome with a temperature at 39°C, moderate dehydration, a heart rate of 137 beats/min, high blood pressure at 140/90 mmHg, haemoglobinuric urine. The thick smear came back positive, bicarbonates were lowered to 15 mmol/L, serum creatinine increased to 154.6 mmol/L. The diagnosis of severe malaria was selected. Under treatment based on artemether, PERFALGAN and bicarbonate infusion, the outcome was favourable and he was released from hospital on August 18th 2015.

Discussion

Malaria is a major and very prevalent parasitic disease in sub-Saharan Africa. The neurological form is the most severe complication with a high mortality rate [2]. Its most common neurological manifestations are convulsions and loss of consciousness which may also be found during a seizure. The prevalence of epilepsy is higher in Burkina Faso than the world average [1]. Brain infections are considered to be the cause of the high prevalence of epilepsy in developing countries [3]. Next to cysticercosis and toxoplasmosis which seem to be the dominant etiology in our context, we have cerebral malaria [3]that we need to recognize and search in the event of an epileptiform crisis. Epilepsy mainly concerns young male people, and mostly manifests in its generalized tonic clonic form [3,4] and these manifestations may delay the diagnosis of cerebral malaria. Hence the necessity of a systematic search of an associated infectious etiology in presence of a subintrant tonic clonic crisis of a known epileptic patient.

Keywords Epilepsy; Cerebral malaria; Tonic clonic seizures

Introduction

Epilepsy is one of the most common neurological diseases [1]. In Sub-Saharan African countries where malaria prevalence is high, the occurrence of seizures in an irregularly monitored epileptic, may delay diagnosis of associated neuro malaria. We are reporting a case of cerebral malaria that occurred in a patient with epilepsy and whose seizures had been taken as cerebral malaria.
Conclusion

The occurrence of subintrans convulsive seizures in an epileptic patient should lead the clinician to systematically look for other causes of seizures such as cerebral malaria. To do this, health workers should be consequently trained.

References


