



Case Report

Volume 1 Issue 3 - October 2018 DOI: 10.19080/IOIDC.2018.01.555563 JOJ Dermatol & Cosmet

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Dress Syndrome Induced by Antiepileptic Drugs in Hospitals in Bukavu: About Two Cases



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Submission: July 19, 2018; Published: October 24, 2018

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Keywords: Dress Syndrom; Clinical; Antiepileptic drugs; Hospital environment; Bukavu

Introduction

Dress (Drug Reaction with Eosinophilia and Systemic Symptoms) Syndrome is a rare drug toxidermia that is serious and potentially lethal [1]. It is an acute or subacute idiosyncratic reaction that classically associates a febrile dermatosis, hematologic abnormalities (hypereosinophilia and/or atypical lymphocytosis) as well as multivisceral failure. We are reporting two medical observations of Dress Syndrome induced by antiepileptic drugs.

Patient and Observation

Observation 1

It is about a 22-year-old female, who was admitted in dermatology service for a pruritic dermatology. In her recent past health history, she was treated in neurology for seizures following a brain neurocysticercosis. She was on progressive doses of Phenobarbital and Diazepam 2 months prior to the occurrence of skin lesions. The current symptoms started one week prior to our consultation and was marked by a fever of 39.9 °C followed, three days later, by a sudden appearance of a generalized itching dermatosis. Our physical assessment objectified a fever at 39.3 °C, edema of eyelids and lips, maculopapular and erythematous lesions, and cervical adenopathies that were unilateral (left) and centimetric. Biological assessment displayed hyperleukocytosis (WBC=12400/mm3), hypereosinophilia at 1984/mm3, and hepatic cytolysis (AST 3 times higher than normal, ALT 5 times higher than normal). Viral serology tests were negative. Chest X-ray and EKG results did not display any abnormalities. REGISCAR score was 5.

All these elements led to a diagnosis of Dress syndrome. Consequently, Phenobarbital was immediately and definitely discontinued. Corticotherapy at a 1mg/kg daily dose was launched. The patient evolution was favorable as clinical signs

regressed and disappeared within 14 days. Biological assessment tests were normal after 8 weeks. Even 8 months after symptoms have retreated back, there was still no recurrences observed.

Observation 2

16-year-old boy, who was admitted in consultation for a febrile pruritic dermatosis. In his past health, he beneficiated care in neuropsychiatry for partial seizures that were consequently generalized and presumed to be a probable symptomatic partial epilepsy. He was treated with progressive doses of Carbamazepine one month prior to the occurrence of symptoms.

Symptoms that occurred 8 days before we admitted him were marked by a fever, followed, 2 days later by the appearance of an itching dermatosis.

Physical assessment of the patient found a fever at 39 °C, and maculopapular and erythematous eruptions that were generalized. Biological assessment displayed hyperleukocytosis at 15200/mm³, hypereosinophilia at 1824/mm³, hepatic cytolysis with cholestasis (AST 62 times higher than normal, ALT 56 times higher than normal, Gamma Glutamyl Transferase (GGT) 34 times higher than normal, alkaline phosphatase 7.5 times higher than normal). We could also identify an inflammatory Syndrome with C-reactive protein at 24 mg/L and a sedimentation rate at 30mm/ for the first hour. REGISCAR > 5. Diagnosis of Dress Syndrome was retained, and Carbamazepine was discontinued. Corticotherapy at dose of 1mg/kg per day was ordered and started. Our follow-up observed a good progress as testified by a disappearance of clinical and biological signs.

Discussion

Dress Syndrome is late drug reaction that is rare but serious as it can be life threatening in 10% of the time [1,2]. This syndrome

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is characterized not only by a long-delayed wait from the time of drug intake up to the appearance of symptoms, but also a prolonged evolution often marked by outbreaks even after the drug in cause has been discontinued. This time in-between is often longer than that of other types of toxidermia. Therefore, it is often subject to delayed diagnosis [2,3]. Medications that are mostly incriminated include aromatic antiepileptic drugs, antibiotics, allopurinol, non-steroid anti-inflammatory drugs and some antiretroviral drugs [2-4]. In our first and second observations, medications that triggered those symptoms were Phenobarbital and Carbamazepine respectively. Time in between drug intake and occurrence of clinical signs were longer for the first case. This could be attributed to the delay in diagnosis and therapy. The most visceral impact is hepatic impairment. It is also the main cause of mortality [4-6]. Cytolysis is also found that in 80% of the cases. It can be so intense that transaminases are rated 10 to 20 times higher than normal and an anicteric cholestasis with elevation of alkaline phosphatases activity and elevated Gammaglutamyltransferase is often associated. Pure anicteric cholestasis is rarer. Any impairment of hepatic function with decrease in rate of Prothrombin is a sign of severity and can be deadly at times [5]. For both of our patients, hepatic impairment was constant. Furthermore, in one case, an anicteric cholestasis was found. Although the other individual did not display any hepatocellular failure, other liver disturbances were noticed.

Conclusion

Even though Dress Syndrome is a rare entity, is very serious and it can be life threatening. Our observations illustrate how



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important an early multidisciplinary intervention is required when faced with this pathology. It is also useful to highlight that drug prescriptions (such as antiepileptic agents) should be based on a strong and reasonable evidence. All these preventive aspects will have an impact on decreasing the frequency of occurrence and improving the prognosis of Dress Syndrome.

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