References

Oro-genital ulcers with a positive pathergy test in acute myeloid leukaemia

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(Index words: leukaemia, genital ulcer, Behcet's disease)

Introduction

We report a young girl who presented with painful oral and genital ulcers and a positive pathergy test as a result of acute myeloid leukaemia M4 subtype. This is the first case report of this combination of signs and symptoms reported in acute myeloid leukaemia (AML).

Case report

An 18-year old unmarried girl presented with intermittent high grade fever and painful oro-genital ulcers of one month duration. Her past medical history, sexual history and family history were unremarkable. Clinically she was ill with tender mucosal ulcers in the mouth as well as in the genitals. There was no lymphadenopathy, hepatosplenomegaly or a skin rash. Her eyes were normal. One week later, she developed an asymmetrical, large joint arthritis involving the knees and ankles and painful tender red nodules over the shins, suggestive of erythema nodosum. Within 48 hours of insertion of intravenous cannulae as well as following venepuncture, pustular vesicles appeared at puncture sites (a positive pathergy test). A clinical diagnosis of Behçet’s disease was made.

Her ESR was 110 mm/first hour and C-reactive protein was 190 mg/l. The blood and urine cultures were sterile. Chest x-ray and abdominal ultrasonography were normal. VDRL was non reactive. Anti nuclear antibody, HIV screening and herpes simplex antibody tests were negative.

The haemoglobin level was 9.1g/dl and white cell count was 11.7×10⁹/μl. The blood picture showed dysplastic neutrophils with pseudo pelger nuclei and 13% blast cells (Figure 1). The bone marrow biopsy suggested a diagnosis of AML (M-4). The biopsy of mouth ulcers showed leukaemic deposits.

Figure 1. Blast cells with high nuclear-cytoplasmic ratio.

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Case reports

Discussion

The main differential diagnoses of a patient with painful oral and genital ulcers include herpes simplex infection, Behcet’s disease, HIV infection, connective tissue diseases, inflammatory bowel diseases and syphilis [1,2].

A positive pathergy test is one of the diagnostic criteria for Behcet’s disease [3]. With the presence of oral and genital ulcers, erythema nodosum and a positive pathergy test our patient fulfilled criteria for the diagnosis of Behcet’s disease. However, a positive pathergy test rarely occurs in malignant disorders such as hairy cell leukaemia, T cell non-Hodgkin’s lymphoma and chronic myeloid leukaemia treated with interferon alpha [4,5,6]. No previous reports suggest an association of a positive pathergy test with acute myeloid leukaemia.

Gingival hyperplasia in FAB M-4 acute myeloid leukaemia is well known. Though the occurrence of oral ulcers has been reported, a literature survey showed only two cases of genital ulcers in association with AML [7]. There are no previously reported cases of oral and genital ulcers together with a positive pathergy, mimicking Behcet’s disease reported in the past. This case report highlights a rare presentation of acute myeloid leukaemia with oro-genital ulcers and a positive pathergy reaction.

References


A complex suicide

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(Index words: complex suicide, electrocution, alcoholism)

Introduction

Cases with multiple simultaneous suicidal attempts are known as complex suicides. Any suicide with more than two types of injury are potentially suspicious in the manner of death [1]. Complex suicidal attempts often result in bizarre injury patterns and may simulate death due to homicide. The comparative analysis of details of anamnesis, which must be crosschecked with another independent source and findings at the scene are vital in making conclusions about the cause of death.

Case report and autopsy findings

A 46-year old man, a chronic alcoholic and a casual labourer was pronounced dead at the emergency care unit. According to the statement given by the spouse, her husband returned home in the evening, while being under the influence of alcohol as usual, and had assaulted her over the poor quality of the dinner. Then he took a bottle of poison, mixed it with locally made alcohol and drank it. A few minutes later he was seen climbing an electric lamp post at the road side shouting that he wanted to kill himself. Then he had fallen from the lamp post (about 5 m in height).

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