A Rare Case of Bullosis Diabeticorum Restricted to the Trunk

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Abstract

Diabetes bullosus is a chronic manifestation, a specific cutaneous marker, of diabetes mellitus essentially insulin-dependent. It is very rare. Its etiology is still unknown. It is seen more frequently in long-standing diabetic patients commonly with peripheral neuropathy, retinopathy, or nephropathy. The lesions are usually asymptomatic. There are no specific tests for DB. The diagnosis is based on characteristic findings, clinical course, and the exclusion of other bullous disorders. Its evolution is benign; the treatment is not specified. Its management remains essentially preventive.

Keywords

Diabetes mellitus, Bullous eruption, Fusidic acid

Background

Diabetes mellitus affects an estimated 26 million people in the United States; the epidemic is growing and has been projected to double by 2050 [1].

Diabetes bullous is a chronic manifestation, a specific cutaneous marker, of diabetes mellitus essentially insulin-dependent. It is a rare bullous dermatosis. In the literature, about 100 cases are described [2].

It is a spontaneous, non-inflammatory, blistering condition of unknown etiology [3].

It was first described by Kramer in 1930. In 1967, Cantwell & Martz1 introduced the term ‘bullosis diabeticorum’ [4].

We present a case of bullosis diabeticorum on the trunk of a female patient.

Case Report

A 70-years-old woman with a medical history of uncontrolled diabetes mellitus was admitted to neurological service for suspicion of neurosyphilis.

On physical examination, she had a blister, non-tender, tense, large, measuring 4 × 3 cm, filled with clear sterile serous fluid, based on the trunk, developed spontaneously overnight without any preceding trauma or friction to the area (Figure 1 and Figure 2).

The bullae arise from a non-inflamed base, without erythema or edema perilesional. There was just a little pain. Aspiration was not attempted to avoid secondary infection.

2 days later, they rupture leaving a superficial painless ulcer.

Biopsy shows a subepidermal bulla. The epidermis of normal height with a skin covering lined with a thickened orthokeratotic stratum corneum centered by an excoration made up of a fibrinoid leukocyte block made up of some apoptotic cells; the underlying dermis is edematous congestive shelters a minimal inflammatory infiltrate made up of scattered mature lymphocytes and some neutrophils.

Direct immune fluorescence was negative.

The ulcers were compressed 2 times a day with a fusidic acid topical cream 2 weeks after presentation, the patient reported that the lesions were healing on therapy.


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Discussion

According to various studies, 30% to 90% of diabetic patients experience at least 1 dermatologic complication [1].

On the follow-up visits, it was recurrence of multiple bullae located on the lower back and right buttock; having benefited from the same treatment (Figure 3 and Figure 4).

Figure 1: Post-bullous erosion located on the left flank.

Figure 2: Post-bullous erosion located on the left flank.

Figure 3: Multiple Bullae located at the level of the right buttock.
usually resolve spontaneously without scarring and are epithelialized early. By contrast, in the second type, cleavage is below the dermo-epidermal junction with the destruction of anchoring fibrils. This type heals with scarring and atrophy [1].

Direct immunofluorescence is usually negative although one report described an IgM and C3 deposits within dermal blood vessel Wald [4].

Although most DB heals in 2 to 6 weeks without treatment, the course is not always smooth. Secondary infection or ulceration, particularly associated with blisters on the foot, may lead to osteomyelitis, large areas of necrosis and scarring, as well as toe amputation. Healing may be as long as 2 years [1].

The prognosis is normally good [5].

The treatment is not specified focused on skin protection and preventing secondary infection. Immediate regulation of the blood glucose level has been recommended as a result of the finding that hypoglycemic episodes often precede eruptions regular wound cares with antibiotics helped in some cases [1,4].

Uncomplicated blisters should be left intact, but the sterile aspiration of fluid may prevent rupture in some cases. For Ulcerated blisters, she should be treated with aggressive wound management [1].

Conclusion
The bulbos diabeticorum is a specific skin complication of diabetes. Its pathophysiology not fully understood. Its evolution is normally benign, and its therapeutic management remains essentially local [7].

It is still a rare yet well-documented condition [6]. This infrequency with which it encountered, makes it a diagnostic challenge for dermatologists [3].

References