Truncal Erythema Eruptatum Diutinum With Elevated Cryoglobulin Level

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Erythema eruptatum diutinum (EED) is a rare dermatosis whose prominent clinical and histological features include bilateral and symmetrical papules, nodules and plaques, especially located in a periarticular manner with chronic course and leukocytoclastic vasculitis. Although the etiopathogenesis of EED is unknown, it is thought to be associated with cytokine activation and vascular immuno-complex storage. It may appear idiopathically, as well as alongside autoimmune, hematological, and infectious diseases. In this article, we aim to present a case with truncal EED and elevated cryoglobulin level.

A 35-year-old female patient referred to our dermatology clinic with numerous infiltrated red-brown plaques on her arms, legs, and trunk. Hypo-hyperpigmented areas were also present (Figure 1a, b). We learned that her complaints had continued with remission and recurrences for about 20 years. Leukocytoclastic vasculitis with perivascular localization and polymorphonuclear leukocytes’ accumulation in the dermis was detected in the biopsy specimen taken from the active lesion (Figure 1c). No characteristic feature was detected in her own or family history. Diagnosis was established on the basis of clinical and histopathological findings; no infectious focus was detected. Blood count, sedimentation rate, biochemical parameters, protein electrophoresis, levels of immunoglobulin, complement, antistreptolysin O, C-reactive protein, rheumatoid factor, anti-nuclear antibody, anti-deoxyribonucleic acid levels, tumor markers, and thyroid function tests were all within normal limits. Hepatitis markers, anti-human immunodeficiency virus, and the Venereal Disease Research Laboratory test were negative. Only cryoglobulin positivity was detected. Colchicine treatment was started and a complete response was obtained.

Erythema eruptatum diutinum whose deposition of vascular immuno-complex is responsible for the etiopathogenesis is a type of skin disease classified in the group of chronic neutrophilic dermatosis. Histopathologically, it is characterized by a leukocytoclastic vasculitis. The histopathologic finding of this vasculitis is a distinctive feature of EED from other neutrophilic dermatoses. Patients usually have multiple, symmetrical, sensitive and violet-colored papules, plaques, and nodules localized around the finger, hand, knee, and elbow joints. Rarely, truncal, retro-auricular, and palmoplantar lesions are reported. Arm, leg, and truncal involvements were detected in this case.

Erythema eruptatum diutinum may be associated with autoimmune diseases such as Celiac disease, Crohn’s disease and rheumatoid arthritis, as well as hematological disorders such as myelodysplasia,
multiple myeloma, immunoglobulin A paraproteinemia, and lymphoma. Cryoglobulin elevation has also been reported.\textsuperscript{7} Syphilis, human immunodeficiency virus, streptococci, and viral hepatitis have also been pinpointed in the etiology. Cryoglobulin elevation was the only positive finding in this case.

Due to the chronic and recurrent nature of this disease, treatment is highly challenging. The underlying causes should be eliminated first. Dapsone and sulphonamides are the first choice in treatment, with other options including intralesional, topical or oral steroids, niacinamide, tetracycline, colchicine, and chloroquine.\textsuperscript{6} Sometimes, the disease is unresponsive to dapsone, but responsive to colchicine.\textsuperscript{8} In this case, colchicine treatment was selected, and complete response was obtained.

Consequently, we found this rare disease suitable for presentation due to the fact that the plaques placed on the trunk and cryoglobulin positivity were in combination. Colchicine is therefore a successful treatment choice for EED. Protection from cold may also be recommended for these patients.

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**REFERENCES**