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In amyloidosis, joint or soft tissue involvement rarely occurs [2]. It was reported that 3.7% of 191 patients with systemic amyloidosis had amyloid arthropathy and the shoulders were the most commonly affected joints [3]. Due to symmetrical joint involvement with pain, swelling, and limitation of movement, rheumatologic diseases might be considered in the differential diagnosis.

Keywords: Shoulder pad, Multiple myeloma, Kappa light chain, AL amyloidosis

Anahtar Sözcükler: Omuz yastığı, Multipl myelom, Kappa hafif zincir, AL amiloidoz

Informed Consent: Obtained.

Authorship Contributions

Concept: C.U., T.T., Y.İ., F.A., F.Y., T.T.; Design: C.U., T.T., Y.İ., F.A., F.Y., T.T.; Data Collection or Processing: C.U., T.T., Y.İ., F.A., F.Y., T.T.; Analysis or Interpretation: C.U., T.T., Y.İ., F.A., F.Y., T.T.; Literature Search: C.U., T.T., Y.İ., F.A., F.Y., T.T.; Writing: C.U., T.T., Y.İ., F.A., F.Y., T.T.

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References

- 1. Liepnieks JJ, Burt C, Benson MD. Shoulder-pad sign of amyloidosis: structure of an Ig kappa III protein. Scand J Immunol 2001;54:404-408.
- Gertz MA, Lacy MQ, Dispenzieri A, Buadi FK. Immunoglobulin light chain (AL) amyloidosis. In: Greer JP, Arber DA, Glader BE, List AF, Means RT Jr, Rodgers GM (eds). Wintrobe's Clinical Hematology, 14th Edition. Philadelphia, Wolters Kluwer, 2019.
- 3. Prokaeva T, Spencer B, Kaut M, Ozonoff A, Doros G, Connors LH, Skinner M, Seldin DC. Soft tissue, joint, and bone manifestations of AL amyloidosis: clinical presentation, molecular features, and survival. Arthritis Rheum 2007;56:3858-3868.

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Sweet Syndrome Associated with Ixazomib

İksazomib ile İliskili Sweet Sendromu

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To the Editor,

A 69-year-old male patient was diagnosed with immunglobulin G-kappa chain type symptomatic multiple myeloma according to International Myeloma Working Group criteria (hemoglobin 9.8 g/dL, creatinine 1.5 mg/dL). The case was categorized as Revised International Staging System (R-ISS) stage 2 [β2-microglobulin 4 mg/L; high risk not detected by fluorescence in situ hybridization (FISH)], and because of the patient's renal failure, he was started on bortezomib-cyclophosphamidedexamethasone. After eight cycles (stem cell mobilization was performed after four cycles), peripheral blood stem cell transplantation with high-dose melphalan was performed with the patient in full remission. Lenalidomide and dexamethasone (lenalidomide 25 mg/day, days 1-21; dexamethasone 40 mg/day, days 1, 8, 15, and 22) were started after a clinical recurrence at the 26th month of follow-up. The patient was in R-ISS stage 3 at the time of relapse (FISH with 17p was 12% positive). Ixazomib

(4 mg/day, days 1, 8, and 15) was added to the treatment due to stable disease findings at the 3rd month of evaluation. On the 13th day of treatment, he presented with a high fever (38.7 °C) and sudden, painful, 1- to 2-cm-diameter indurated, erythematous, papular lesions on the front and back of the neck (Figure 1). Laboratory tests showed a white blood cell count of 2.1x109/L, neutrophil cell count of 1.4x109/L, hemoglobin concentration of 8.9 g/dL, and platelet count of 37x109/L. Skin biopsy revealed marked perivascular neutrophilic inflammatory infiltration in the dermis, consistent with Sweet syndrome. While arthralgia and myalgia were present, as seen in cases of Sweet syndrome, no ocular inflammation, headaches, or oral or genital lesions appeared. There was no granulocyte colonystimulating factor usage, the antinuclear antibody (ANA) test was negative, and no signs of infection were detected. Ixazomib was stopped. Triamcinolone acetonide (0.1%) was applied locally. The lesions disappeared significantly by the 10th day. One of the common side effects of ixazomib has been reported

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Figure 1. Painful, 1- to 2-cm-diameter indurated, erythematous, papular lesions.

to be rash (36% in all degrees) [1]. To our knowledge, there is rarely a relationship between ixazomib and Sweet syndrome [2,3,4]. Lenalidomide is known to frequently cause rashes and rarely Sweet syndrome. This usually occurs shortly after its use [5]. No skin lesions were observed in our patient during 3 months of lenalidomide usage. Other causes of Sweet syndrome were not considered since ANA was negative, there were no signs of infection, and the lesions disappeared after ixazomib discontinuation. It is emphasized that diagnosis was finalized with the revised Sweet syndrome criteria: typical rash (abrupt onset of painful or tender erythematous papules, plaques, or nodules) and histopathological (dense dermal neutrophilic infiltrate) findings. It has been stated that no separate criteria are required for drugs [6]. In conclusion, it should be kept in mind that rashes associated with Sweet syndrome may appear during treatment with ixazomib.

Keywords: Sweet syndrome, Ixazomib

Anahtar Sözcükler: Sweet sendromu, İksazomib

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Authorship Contributions

Surgical and Medical Practices: İ.Y.; Concept: İ.Y., Z.B.; Design: İ.Y., Z.B.; Data Collection or Processing: İ.Y.; Analysis or Interpretation: İ.Y.; Literature Search: İ.Y.; Writing: İ.Y.

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References

- Moreau P, Masszi T, Grzasko N, Bahlis NJ, Hansson M, Pour L, Sandhu I, Ganly P, Baker BW, Jackson SR, Stoppa AM, Simpson DR, Gimsing P, Palumbo A, Garderet L, Cavo M, Kumar S, Touzeau C, Buadi FK, Laubach JP, Berg DT, Lin J, Di Bacco A, Hui AM, van de Velde H, Richardson PG; TOURMALINE-MM1 Study Group. Oral ixazomib, lenalidomide, and dexamethasone for multiple myeloma. N Engl J Med 2016;374:1621-1634.
- Suyama T, Ito S, Shinagawa A. Ixazomib-induced Sweet's syndrome. Int J Hematol 2020;111:161-162.
- Oka S, Ono K, Nohgawa M. Ixazomib-induced Sweet's syndrome. Leuk Lymphoma 2019;60:3590-3591.
- Katz H, Shenouda M, Dahshan D, Sonnier G, Lebowicz Y. A rare case of ixazomib-induced cutaneous necrotizing vasculitis in a patient with relapsed myeloma. Case Rep Hematol 2019;2019:6061484.
- Hoverson AR, Davis MD, Weenig RH, Wolanskyj A. Neutrophilic dermatosis (Sweet syndrome) of the hands associated with lenalidomide Arch Dermatol 2006;142:1070-1071.
- Nofal A, Abdelmaksoud A, Amer H, Nofal E, Yosef A, Gharib K, Albalat W, Eldesouky F, Ebrahim H, Abdelshafy AS, Fayed H. Sweet's syndrome: diagnostic criteria revisited. J Dtsch Dermatol Ges 2017;15:1081–1088.

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