To The Editor,

Synovitis, acne, pustulosis, hyperostosis, osteitis (SAPHO) syndrome, is a relatively rare disorder\(^1,2\). We report an adolescence patient with refractory SAPHO syndrome and acne fulminans, successfully treated with isotretinoin and etanercept.

A 17-years-old man admitted with the complaints of fever, severe ulcerative acneiform lesions and inability to walk due to hip pain for the last 10 days while undergoing isotretinoin treatment for acne conglobata. There was severe acne conglobata history for about 3 months. Skin ulcerations and hip pain have developed at the 15\(^{th}\) day of the 30 mg/day oral isotretinoin treatment. His family history was unremarkable for acne conglobata or joint disease. Dermatological examination revealed numerous inflammatory nodules, comedones, in addition to painful ulcers with overhanging borders surrounding exudative necrotic plaques on back, chest, gluteal and inguinal areas (Figure 1 a, b). The informed consent form was obtained for photographs. On physical examination, bilaterally hip movements and lumbar flexion were painful and limited. Laboratory evaluations demonstrated increased level of C-reactive protein (7.5 ng/mL), and leukocytosis (26.5 Ku/L). Blood and urine cultures showed no bacterial growth. Serum immunoglobulin levels were within normal ranges, and rapid plasma reagin test, human leukocyte antigen B27, rheumatoid factor, and anti-nuclear antibody were all negative. His left sternoclavicular and sternocostal joints were painful with palpation. Sacroiliac compression and distraction tests were positive. Bilateral shoulder and hip joints were not limited but painful. His sacroiliac magnetic resonance imaging showed bilateral sacroiliitis (Figure 2a, b). The whole body bone scintigraphy showed intense uptake at bilateral sacroiliac and sternoclavicular joints revealing bilateral sacroiliitis and sternoclavicular joint arthritis. Initially he was treated with non-steroid anti-inflammatory drugs (NSAIDs), ampicillin/sulbactam and clindamycin for 2 weeks. The symptoms did not resolve by the cessation of isotretinoin and symptomatic treatment. He was treated with 40 mg/day methylprednisolone tapered 6 weeks. While reducing steroid

Address for Correspondence / Yazışma Adresi: Sema Aytekin MD, İstanbul Haydarpaşa Numune Training and Research Hospital, Clinic of Dermatology; \*Clinic of Physical Medicine and Rehabilitation, İstanbul, Turkey

Phone: +90 533 213 49 59 E-mail: semaaytekin@yahoo.com

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ORCID ID: orcid.org/0000-0003-1376-1573

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doses, dapsone 100 mg/day was added, but dapsone hypersensitivity reaction occurred. Then, the joint symptoms of the patient did not improve by the treatment of 15 mg/week methotrexate treatment. Therefore, etanercept was started at a dose of 50 mg/week. Despite the improvement of his joint symptoms, the skin lesions flared. For this reason 0.5 mg/kg isotretinoin was started. Topical clindamycin and benzoyl peroxide combination was added to treatment. There was marked improvement of his skin lesions in the 6th week of follow-up. At the 9th month of treatment, patient’s joint complaints were completely, skin lesions markedly improved.

Palmoplantar pustulosis, severe acne including acne conglobata, acne fulminans or hidradenitis suppurativa, pyoderma gangrenosum, Sweet syndrome are the characteristic cutaneous lesions of SAPHO syndrome. Skin lesions may occur before, after or simultaneously with articular involvements. In our patient articular symptoms and acne conglobata complicated with acne fulminans began after isotretinoin treatment. Although isotretinoin is used for the treatment of SAPHO syndrome, it may also trigger the disease. The use of low dose isotretinoin with systemic steroid was recommended in acne conglobata, because disease may progress acne fulminans. NSAIDs, corticosteroids, methotrexate, anti-tumour necrosis factor-alpha (TNF-α), bisphosphonates have been reported in the symptomatic treatment of SAPHO syndrome with varying degrees of success. Anti-TNF-α agents may be therapeutic options for SAPHO cases unresponsive or refractory to conventional drugs. The combined use of isotretinoin and etanercept in our patient has been very effective.

Ethics
Informed Consent: The informed consent form was obtained for photographs.
Peer-review: Externally peer-reviewed.
Authorship Contributions
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