IMAGES IN HEMATOLOGY

DOI: 10.4274/tjh.2014.0470 Turk J Hematol 2016;33:170-171

Stevens-Johnson Syndrome/Toxic Epidermal Necrolysis Should Be Kept in Mind in Children with Febrile Neutropenia, Oral Cavity Lesions, and Skin Rash

Febril Nötropeni, Oral Kavitede Lezyonlar ve Deri Döküntüsü Olan Çocuklarda Stevens-Johnson Sendromu/Toksik Epidermal Nekrolizis Akılda Tutulmalıdır

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Figure 1. Erosions and crusts on the lips and hemorrhagic ulcers in the oral cavity. A red papular rash spread to the shoulders and the back.



Figure 2. Regression of the lesions on the lips, oral cavity, and back.

A 14-year-old boy was diagnosed with acute lymphoblastic leukemia. Febrile neutropenia developed during induction. Imipenem and teicoplanin were started because of severe mucositis. Viral tests and bacterial cultures were unrevealing. On follow-up, a painful papular rash had appeared and oral mucositis had become worse (Figure 1). Stevens-Johnson syndrome (SJS)/ toxic epidermal necrolysis (TEN) was suspected. Intravenous immunoglobulin (IVIG) at 1 g/kg/day and methylprednisolone at 1 mg/kg/day were started. The lesions regressed in 1 week (Figure 2). Skin biopsy was consistent with SJS/TEN. Informed consent was obtained.

SJS and TEN are rare diseases characterized by fever and mucosal and cutaneous lesions [1]. It is defined as SJS when epidermal involvement affects less than 10% of the body surface area, as SJS/TEN overlap when the skin detachment ranges from 10% to 30%, and as TEN when it involves more than 30% [1,2]. It may occur after taking a new medication or may rarely have an infectious origin. Our patient had no predisposing conditions other than taking chemotherapeutic drugs and antibiotics. The mortality rate is high in SJS/TEN [1,3]. Rapid withdrawal of the probable causative drug(s) is important. Use of IVIGs and corticosteroids is reported as the most commonly used therapy in childhood [1,4]. Systematic review of adult treatments for SJS and TEN did not show any benefit of these agents on mortality rates [3]. Cyclosporine, plasmapheresis, and tumor necrosis factor-alpha inhibitors have been also reported among other treatment options [1,2,3,4,5].

Keywords: Acute leukemia, Stevens-Johnson syndrome, Toxic epidermal necrolysis

Anahtar Sözcükler: Akut lösemi, Stevens-Johnson sendromu, Toksik epidermal nekrolizis



Received/Geliş tarihi: December 08, 2014 Accepted/Kabul tarihi: January 27, 2015

Authorship Contributions

Concept: Hale Ören, Eda Ataseven; Design: Hale Ören, Eda Ataseven; Data Collection: Şebnem Yılmaz Bengoa, Eda Ataseven, Analysis or Interpretation: Hale Ören, Eda Ataseven; Literature Search: Şebnem Yılmaz Bengoa, Eda Ataseven; Writing: Hale Ören, Eda Ataseven.

Conflict of Interest: The authors of this paper have no conflicts of interest, including specific financial interests, relationships, and/or affiliations relevant to the subject matter or materials included.

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