Acute infantile hemorrhagic edema mimicking henoch-schonlein purpura

Veysel Kars¹, Ahmet Yilmaz¹, Tahsin Celepcolu¹, Hamza Aslanhan¹, Necmi Arslan¹, Vasfiye Demir¹

Abstract
Acute infantile hemorrhagic edema is an acute cutaneous leucocytoclastic vasculitis that can be seen in infancy and characterized by fever, palpable purpura, and edema. Although it presents with severe symptoms, the clinical course is benign and the disease resolves in a short time. In this report, we present a 17-month-old infant who was admitted with cutaneous purpuric rash and edema of the extremities and subsequently diagnosed as acute infantile hemorrhagic edema.

Key words: Edema, Infant, Vasculitis

Introduction
Acute infantile haemorrhagic edema (AIHE) is characterized by rosette-shaped purpuric lesions ranging from 1 to 5 cm in diameter, predominantly on the cheeks, ears, and extremities [1, 2]. Although the ethology remains unknown, AIHE constitutes 12% of leucocytoclastic vasculitis (LCV) cases and is mostly seen during 4 months to 2 years of age, with no gender difference, and generally follows an upper respiratory tract infection [3]. There is no specific treatment for AIHE. Steroids and antihistamines have been used without an effect on the clinical course of the disease [4, 5]. Patients with a history of infection should receive treatment. A male patient who underwent steroid treatment and recovered completely has been recently reported [1]. Treatment response to antihistamines has also been reported in the literature [4]. We report a 17-month-old male infant who presented with AIHE accompanied by acute tonsillolaryngitis without systemic involvement

Case
A 17-month-old male infant with a one-week history of fever and a two-day history of rashes and swellings on the ears was admitted to our clinic with rashes on the ears, hands, and legs.

In the physical examination, the temperature was 37.2 °C, blood pressure was 100/60 mm/Hg, body weight was 11.3 kg (10-25 percentile), and height was 85 cm (10-25 p). Physical examination also revealed widespread ecchymotic lesions with differing diameters over the hands, dorsal aspects of the feet, and both ears. The remainder of the physical examination was normal. Laboratory parameters were as follows: leucocyte count: 11,000/mm³, thrombocyte count: 350,000/mm³, Hb: 9.8 gr/dl, erythrocyte sedimentation rate: 18 mm/hr, and C-reactive protein: 18 mg/L. The coagulation test results revealed normal. The blood biochemistry, urinalysis, and serum immunoglobulins were in normal limits. The stool samples were negative for parasites and occult blood. The cerebrospinal fluid (CSF) analysis revealed normal. Viral cultures were negative, and there was no growth in blood, urine, throat, and CSF cultures. The diagnosis of LCV was confirmed by the findings of the skin biopsy. Antibiotic therapy was commenced for acute tonsillolaryngeal infection, and systemic and local steroids, and antihistamines for the skin manifestations. Over the following 10 days, the patient recovered completely.

Discussion
AIHE is considered by some scholars as a cutaneous variant of Henoch-Schönlein purpura (HSP) [1], whereas the others regard it as a distinct entity [6]. Although the etiology of AIHE remains vague, 75% of AIHE patients present with a history of recent upper respiratory or urinary tract infection [6]. The onset of acute infantile hemorrhagic edema is earlier than HSP. Acute infantile hemorrhagic edema is observed mostly at the age of 4 months-2 years while HSP is observed at 4-7 years [7]. Unlike HSP, systemic symptoms (joint pain, gastrointestinal bleeding, kidney involvement) are rarely observed in AIHE. The palpable purpura is observed on the lower legs and buttocks in HSP, but the purpura in AIHE has a wider extension and observed on the face and close to the distal extremities accompanied by edema [8].

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¹Department of Family Medicine, Medicine Faculty, Dicle University, Diyarbakir, Turkey
*Corresponding Author: Veysel Kars E-mail: dr.haber@hotmail.com
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Our patient was referred to us from a first-step health clinic due to acute tonsillopharyngitis and purpuric skin lesions. Throat cultures were positive for fast antigens. The antibiotic, steroid, and antihistamine treatment provided dramatic relief of symptoms.

**Conclusion**

We conclude that AIHE should be suspected in the differential diagnosis of the children presenting to first-step health clinics, with Henoch-Schönlein purpura, since these diseases require different approaches for examination, treatment, and follow-up.

**Conflict of Interest:** The authors declare no potential conflicts of interest with respect to the research, authorship, and/or publication of this article.

**References**


**Picture 1:** Widespread skin lesions and edema were mainly distributed over the face and the lower extremities