Dermatologists usually know little about the Behçet’s disease (BD)-like symptoms that are associated with myelodysplastic syndrome (MDS) involving trisomy 8. Acquired trisomy 8 is frequently observed in patients with MDS. We report a case of MDS with trisomy 8, who developed high fever, oral aphthae, and genital and intestinal ulceration. We also reviewed the literature for similar cases with skin involvement.

CASE REPORT

A 63-year-old man was admitted to our hospital with a 1-month history of high fever, oral aphthae and diarrhoea. He was not born with congenital abnormalities and did not have previous history. He was treated with antibiotics, but the symptoms recurred. Three weeks later, he developed painful scrotal ulcers of up to 12-mm in diameter (Fig. 1a). Neither erythema nodosum nor acneform nodules, nor any other eruptions were seen anywhere else on the body. Pathergy test was negative. Skin biopsies from a scrotal ulcer showed necrotic epidermis, perivascular infiltration of neutrophils and mononuclear cells, and extravasation of erythrocytes. Laboratory tests showed macrocytic anaemia (haemoglobin 7.7 g/dl (normal: 13.8–17.0 g/dL), mean corpuscular volume 114.8 fl (normal: 84.0–98.0 fl)) and marked inflammatory reaction (C-reactive protein 17.9 mg/dl (normal: 0.0–0.2 mg/dL)). Biochemical blood tests revealed only mild elevation of liver enzymes (AST 44 U/l (normal: < 40 U/L), ALT 56 U/l (normal: < 40 U/L), LDH 525 U/l (normal: 103–229 U/L), γ-GTP 192 U/l (normal: 12–69 U/L)). He was HLA-B51 negative. No eye lesions were evident. Ulcers on the tongue (Fig. 1b), buccal mucosa, palate and epiglottis were clearly revealed by nasopharyngolaryngoscopy. Endoscopic examination of the gastrointestinal tract revealed aphthous lesions over the entire colon (Fig. 1c). Macrocytic anaemia led us to perform a bone marrow examination, which revealed dysplasia, including hypersegmented neutrophils and micromegakaryocytes. Chromosomal analysis of bone marrow cells revealed the 47, XY, +8 karyotype in 16 of 20 dividing cells. Based on similar previous cases, we made the diagnosis of BD-like symptoms associated with MDS, involving trisomy 8. Prednisolone therapy, administered at an initial dosage of 1 mg/kg/day (60 mg) with a gradual tapering, led to complete disappearance of the oral, genital and intestinal ulcers.

DISCUSSION

Recently, an increasing number of cases of MDS with trisomy 8 were reported to develop symptoms such as fever, oral and genital ulcers, and skin lesions (1, 2), which are characteristic in patients with BD. These patients often had intestinal lesions (1, 2). To date, no clear etiological relationship between MDS, trisomy 8, and BD-like symptoms has been documented; however, there are some clues to such a relationship. Chen et al. (3) analysed the gene expression pattern in purified CD34+ haematopoietic progenitor cells obtained from MDS patients with trisomy 8. They found that up-regulated genes in these patients included those primarily involved in immune and inflammatory responses, such as TGF-β, TGF-β receptor, IL-6, IL-7 receptor, VCAM-1 and ICAM-1. Ohno et al. (4) demonstrated increased reactive oxygen production by activated neutrophils due to serum factors such as IL-6 and G-CSF in a patient with MDS with trisomy 8. They predicted that this played an important role in the com-

Fig. 1. Painful ulcers with blood crusts are seen on the scrotum (a). Nasopharyngolaryngoscopy clearly reveals an ulcer on the tongue (red arrow) (b). Colonoscopy shows aphthoid lesions over the entire colon (c).
The authors declare no conflict of interest.

REFERENCES


15. Oyama S, Imura Y, Ohno E, et al. The authors declare no conflict of interest.