An otherwise healthy 71-year-old woman with bradycardia was admitted to hospital for placement of a pacemaker. The patient received 1 dose of cefazolin during the procedure. The next day, a pruritic morbilliform eruption developed on her lower extremities. Two days later, the eruption became widespread with confluent erythematous plaques and overlying sheets of nonfollicular pustules (Figure 1). Her mucous membranes were not affected. She was febrile with leukocytosis (34 | normal range 4.5–11 | × 10⁹/L). We diagnosed acute generalized exanthematous pustulosis related to cefazolin, and this was supported by histologic examination of the tissue, which showed subcorneal pustules, spongiosis, perivascular neutrophils and eosinophilic exocytosis.1 Our patient did not receive any further doses of cefazolin, and we prescribed betamethasone cream (0.1%) to be applied to the rash twice daily for 2 weeks. Systemic steroids were not used. Her rash resolved completely.

Acute generalized exanthematous pustulosis is an uncommon, severe type IV hypersensitivity drug reaction associated with antibiotics, calcium channel blockers, antimalarials, acetaminophen, nonsteroidal anti-inflammatory drugs and terbinafine. It starts abruptly, within 2–5 days of drug exposure. The rash is characterized by nonfollicular pustules on an erythematous base, usually involving intertriginous areas.2 Pustules last a few days before superficial desquamation of all involved areas; mucous membranes are usually spared.3 Patients often describe itchiness and burning.1,3 Renal and hepatic involvement has been described.1,2 The differential diagnosis includes infection, pustular psoriasis and toxic epidermal necrolysis.1,3

The condition usually resolves within 2 weeks; however, among frail patients who develop fever and superinfection, it has a mortality rate of 5%.2 After recovery, patch testing is 80% sensitive and 85% specific in identifying causative agents.1,2 Treatment includes stopping the offending drug, antipyretics and topical or systemic corticosteroids to decrease pruritus and inflammation.2,3

References