SCIENTIFIC LETTER

Arthroderma benhamiae in patients with guinea pigs

Arthroderma benhamiae en pacientes con cobayas

Dear Editor:

Arthroderma benhamiae is the teleomorph of a zoonotic dermatophytic fungus that belongs to the Trichophyton mentagrophytes species complex. Small rodents are its main reservoir, especially guinea pigs, in which it can cause an inflammatory cutaneous infection. It has also been isolated from larger animals, such as dogs and cats. In recent years, the incidence of infection by this fungus has increased due to the increase in the number of guinea pigs and other small rodents that are household pets. This dermatophyte can cause tinea corporis, tinea faciei and in some cases kerion celsi. Onychomycosis has been reported in very rare cases. It is characterised by highly inflammatory lesions, especially in children, who frequently develop kerion celsi. Besides children, it is frequently isolated from adolescents and immunosuppressed individuals. In the early stage of infection, the skin lesions may be confused with impetigo, which delays diagnosis. We now proceed to present 2 cases diagnosed in our microbiology laboratory in the span of 3 months.

Girl aged 3 years that presented with an inflammatory and suppurative lesion with onset 2 months prior that was diagnosed as kerion celsi. At onset, the patient developed lesions in the mouth and nose that were treated with topical antibiotics due to suspected impetigo. Subsequently, the patient developed additional erythematous plaques with a honey-coloured crust in the parieto-occipital region, which were treated with topical mupirocin and oral amoxicillin-clavulanic acid.

Due to the unfavourable response to treatment, she was referred to the dermatology department, where she received a diagnosis of tinea capitis and started topical treatment with a terbinafine cream and a sertaconazole nitrate gel. The relevant findings of the history were a past episode of tinea corporis in the father and the presence of a pet guinea pig in the household that also had skin lesions. Two weeks later, the lesions had progressed into abscesses (Fig. 1). The abscesses were actively drained every 48 h, with collection of a sample of the exudate and dystrophic hairs for submission to the microbiology laboratory. The patient received a prescription for a new course of treatment with oral itraconazole (62.5 mg/day) and a miconazole/hydrocortisone cream for 3 weeks.

Girl aged 8 years referred to the dermatology department for assessment of a bald plaque in the scalp more than 1 month after onset of symptoms (lesions initially developed in the left breast and spread to the scalp over time). During the history taking, she reported that her pet guinea pigs had developed bald patches before she contracted the disease. A sample was collected for culture and the patient received treatment with terbinafine at a dose of 125 mg/day for 1 month combined with topical administration of a terbinafine

Figure 1 Kerion celsi.
Cow’s milk protein intolerance imitating septic shock in a young infant

Intolerancia a la proteína de la leche de vaca simulando shock séptico en un lactante pequeño

Dear Editor,

Food protein-induced enterocolitis syndrome (FPIES) is the most serious form of enteropathy. The pathophysiology of this syndrome is not completely understood, but it is believed that ingestion of the triggering food is followed by T-lymphocyte activation, resulting in a local inflammatory response, increased gastrointestinal (GI) permeability and subsequent passage of fluids to the GI lumen.

A boy aged 4 months visited the emergency department (ED) with profuse vomiting and signs of hypovolaemic shock. He had been breastfed until the age of three months, when supplementation with one feed of cow’s milk formula a day was introduced. In the two days that followed, he vomited once a day right after ingesting the cow’s milk. On day 3, he developed persistent vomiting and bloody diarrhoea and became increasingly lethargic.

In the ED, he presented in shock, with a blood pressure of 60/25 mmHg, poor peripheral perfusion with cold extremities, and no other abnormalities in the physical examination. The diagnoses considered at this point were sepsis and cow’s milk protein allergy.

References