A 27-year-old male patient, with mental disability due to congenital toxoplasmosis, presented with a painful ulcer on the scalp that had been present for two weeks after vacationing in a rural area in Brazil (Figure 1). Physical examination also revealed erythema and desquamation on the scalp, suggestive of seborrheic dermatitis, and excoriated areas. Dermoscopy allowed the visualization of multiple live larvae in the ulcer, with pigmented tracheal tubes, respiratory spiracles and bands of spines encircling the anterior portion of each body segment (Figure 2 and Video 1). Correlation of clinical, epidemiological, and entomological findings was consistent with the diagnosis of wound (traumatic) myiasis. Treatment with oral ivermectin 200 μg/kg in a single dose was administered, followed by occlusion with 10% ivermectin ointment, with no improvement. Due to the presence of live larvae, mechanical extraction of the parasite was then performed, removing 27 live maggots from the lesion (Figure 3).

Myiasis is a parasitic infestation of humans and vertebrates by larvae of insects of the order Diptera (true flies). Its cutaneous presentation is divided into furuncular, migratory and wound (traumatic), according to the clinical findings and the species of the larva. In the New World, the vast majority of wound myiasis cases are caused by larvae of flies of the Calliphoridae family, which includes Cochliomyia hominivorax, the most prevalent species in Brazil. Its characteristic clinical finding is the presence of multiple larvae in the lesion, as described in this report. Morphologically, pigmented tracheal tubes and anterior respiratory spiracles differentiate the larvae of Cochliomyia hominivorax from larvae of other species. Predisposing factors include open wounds, poor hygiene and social conditions, very young or advanced age, psychiatric disorders and intellectual disability. The absence of a previous wound or ulcer in clinical history does not rule out the diagnosis, since cases of wound myiasis have been described in patients with dermatoses.
on the scalp, such as seborrheic dermatitis and psoriasis. In such instances, the term traumatic myiasis is preferred to wound myiasis. Manipulation of the skin lesions in such dermatoses is likely to act as a predisposing factor. In our patient, both mental disability and seborrheic dermatitis could well have contributed not only to the onset of the disease, but also to its exuberant presentation.

Dermoscopy has been increasingly used as an auxiliary diagnostic method in dermatology, including inflammatory, infectious and parasitic diseases. Coupled with the clinical history, dermoscopy can avoid unnecessary surgical procedures, especially in cases of furuncular myiasis, whose differential diagnosis can be challenging. There have been few reports on dermoscopic findings, yet these findings can contribute to the identification of the parasite species (entodermoscopy) through the visualization of characteristic structures, such as pigmented tracheal tubes and anterior respiratory spiracles.

Treatment can be performed by lesion occlusion, manual extraction of the larvae, and larvicide. Ivermectin 200μg/kg in a single dose, either alone or associated with topical ivermectin (1–10%), is considered effective and safe, and can be repeated if necessary.
REFERENCES


AUTHORS' CONTRIBUTIONS

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