Extensive maxillofacial and oral myiasis
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CASE REPORT

A 28-year-old homeless man was brought by a police officer to the emergency service of the Regional Sul Hospital (São Paulo, Brazil) for evaluation of an extensive destruction of the oral and maxillofacial tissues. The patient was a heavy smoker (three packs of cigarettes per day) and according to his medical records he had a previous diagnosis of oral squamous cell carcinoma, but decided not get it treated. Three years later, the surface of the swelling revealed an extensive necrotic ulcer extending to the mouth, lips, nose and neck with live maggots visible and moving. Around 110 larvae were surgically removed and the necrotic tissue was debrided (Figure 1A–B). The patient was sent to the oncology service for a whole body evaluation, however, he passed away two weeks later due to systemic complications.

DISCUSSION

The term myiasis is applied to the injurious action that a parasites of the order Diptera causes to the living or dead tissue in which they grow in vertebrates organisms [1]. It is more common in animals and it has been rarely reported in humans [2]. Moreover, considering that myiasis develops by direct infestation of tissues by larvae (maggots) laid by flies [1], the mouth is not a common place for its development compared with dermis or other tissues.

Oral myiasis is usually associated with poor hygiene, wound healing, mouth breathing, mental impairment or senility [3]. In our case, the patient was clearly predisposed to the infestation considering the fact that he was a homeless, had unhygienic living condition, and had a previously untreated oral carcinoma.

The treatment of oral myiasis in most cases includes only surgical exploration to remove the larvae and necrotic tissue [3]. Alternatively, use of medicines such as ivermectin has also been proved efficacious, by enhancing parasitc death and their emergence to tissue surface [4]. Initial infestation can easily mimic gingival inflammations. Likewise, some cases of myiasis in association with oral tumors have also been reported [5].

Figure 1: (A, B) Clinical picture of the patient upon arrival at the hospital. It was possible to observe an extensive necrotic ulcer extending to the mouth, lips, nose and neck with visible live maggots. Around one hundred ten larvae were surgically removed. The patient was seriously compromised and required mechanical assistance to breath.
CONCLUSION

The most effective action for prevention of human myiasis is by education and improvement of general sanitary conditions. Unfortunately, in underdeveloped or developing countries like Brazil, some people still live in poor environment associated with compromised hygiene and lack of information which can leads to human myiasis.

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Author Contributions

Felipe P Daltoé – Substantial contributions to conception and design, Acquisition of data, Analysis and interpretation of data, Drafting the article, Revising it critically for important intellectual content, Final approval of the version to be published

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Guarantor

The corresponding author is the guarantor of submission.

Conflict of Interest

Authors declare no conflict of interest.

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