HIV infection has several oral manifestations, including oral candidiasis and oral hairy leucoplaikia. Occasionally unusual presentations requiring rigorous investigations are seen, and in these cases the diagnosis sometimes remains a dilemma owing to limited investigation facilities.1-3 We present the case of a patient who presented with a puzzling oral lesion.

CASE HISTORY

A 35-year-old HIV-positive man first presented to the Infectious Diseases Institute, Kampala, in 2006. He had World Health Organization (WHO) stage IV disease with a history of oesophageal candidiasis, a baseline weight of 58 kg and a CD4+ count of 56 cells/µl. He was initiated on highly active antiretroviral therapy (HAART) using a combination of stavudine, lamivudine and nevirapine (Triomune-30) together with co-trimoxazole prophylaxis.

Six months after initiating ART, a follow-up CD4+ count had risen to 226 cells/µl. Subsequently the count rose to 298 cells/µl.

In September 2008, the patient presented with a 4-month history of drenching night sweats and high-grade fevers, his temperature being recorded as 39.3°C and 39.7°C on two occasions. There was no history of cough, weight loss or loss of appetite. The results of investigations at this time were as follows: full blood count – leucocytopenia, 1.1×10^3/l; ESR – 25 mm/h; blood slide for malaria parasites – none seen; urinalysis – normal; chest radiograph – normal; abdominal ultrasound scan – hepatosplenoemegaly with a suggestion of a haemangioma in the liver; serum cryptococcal antigen – negative; blood cultures – no bacterial growth after 7 days of incubation; TPHA – non-reactive.

On the basis of the unrelenting fever the patient was started on tuberculosis (TB) treatment consisting of rifampicin, isoniazid, ethambutol and pyrazinamide. During this time his antiretroviral therapy was switched to zidovudine, lamivudine and efavirenz.

Two weeks after the start of TB treatment, the patient developed drug-induced hepatotoxicity and the TB treatment was stopped. A week later difficulty in swallowing and marked weight loss were noted. He was treated with fluconazole and acyclovir for a month with no improvement, at which time he was admitted.

Two months after stopping TB medication the liver enzymes stabilised and he was restarted on anti-TB medication.

In January 2009, the patient presented with a 3-week history of high-grade fever, loss of appetite, cervical lymphadenopathy and a 2-week history of pus discharge from a palatal perforation, which was treated with ceftriaxone and fluconazole (Fig. 1).

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Fig. 1. Perforation of hard palate.
An ENT consultation gave a presumptive diagnosis of histoplasmosis and the patient was initiated on amphotericin B.

The results of investigations at this stage were as follows: oral fistula swab – 2+ yeast cells, 2+ Gram-positive cocci and 3+ Gram-negative rods; no inflammatory cells seen. A complete blood count showed macrocytosis and mean corpuscular volume of 103 fl; CD4+ count (13 January) – 71 cells/µl (this was less than half the peak CD4+ count, prompting measurement of viral load to exclude immunological failure); viral load (13 January) – not detected, with a lower limit of detection of 400 copies; lymph node aspirate – polymorphonuclear leucocytes 3+, Gram- negative rods 2+, Gram-positive cocci 1+, no acid- and alcohol-fast bacilli seen, *Escherichia coli* isolated; lymph node biopsy – fibrosis and chronic granulomatous inflammation with central necrosis and epitheloid cells, small organisms with halo extracellular and within- macrophage cytoplasm. Morphological features were consistent with toxoplasma lymphadenitis (Fig. 2).

The patient did not return to the Institute. The first follow-up phone call (within a week) revealed that he was deteriorating and was too weak to come to the clinic, and when we called the next week we were told that he had died. Unfortunately, the histopathology results were only obtained after his death.

**DISCUSSION**

This case is an example of the rare oral lesions seen in HIV-infected patients in our clinic. We comprehensively reviewed the literature on bone and joint disease in association with HIV infection but did not find a case of toxoplasma-related bone disease. Toxoplasma infection of the oral cavity is uncommon. A case of intra-oral lymphadenitis secondary to toxoplasmosis has however been reported.

In our case defective cell-mediated immunity as a result of immunosuppression may have facilitated the rapid dissemination of toxoplasma, resulting in bone invasion causing bone disintegration and destruction.

**Acknowledgement:** Dr Robert Lukande, Histo-pathologist, College of Health Sciences, Makerere University.

**REFERENCES**