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**BACKGROUND:** The relationship between oral lesions arising from HIV infection and CD4/CD8 cell ratios is of relevance in clinical assessment of immune suppression. **OBJECTIVE:** To correlate the prevalence of oral manifestations arising from HIV infection and the levels of CD4/CD8 cell ratios. **DESIGN:** A cross-sectional study. **SETTING:** Kenyatta National Hospital, Nairobi, Kenya. **SUBJECTS:** Two hundred and seven HIV-infected patients in medical wards were recruited in the study. **RESULTS:** Seventy eight (37.7%) were male and 129 (62.3%) female, with an age range of 18-73 years (mean=34.81 years). Oral manifestations encountered with highest prevalence in the oral cavity included: hyperplastic candidosis (labial mucosa) 15%, erythematous candidosis (gingival) 5%, angular cheilitis 32.4%, herpes simplex (corner of the mouth) 0.5%, persistent oral ulceration (labial mucosa) 0.5%, Parotid enlargement 2% and Kaposi sarcoma (hard/soft palate) 2.9%. **CONCLUSION:** The prevalence of oral manifestations was higher with low CD4 count <200 cell/mm<sup>3</sup> and mean CD4/CD8<0.39(95% CI 0.32-0.48).