

## with clinical and histological parameters in 54 cases from Kenya

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## Abstract:

The aim of this study was to assess the cell proliferation in ameloblastomas and to correlate this with clinical features and histology. Immunohistochemistry with Ki-67 monoclonal antibody was performed on fresh tissue from 54 ameloblastomas. A labelling index (LI) was calculated by expressing the percentage of Ki-67 positive cells. There was no significant correlation between LI and clinical features: age, sex or tumour size. Follicular ameloblastomas had significantly higher LI (5.0 + 0.5; mean + - SEM) than plexiform tumours (3.2 + - 0.6; P < 0.05). Plexiform ameloblastomas from the anterior mandible had a significantly lower LI (1.8 + - 0.5) than those from the posterior (3.9 + - 0.8; P < 0.05). LI was higher in squamous arcades (6.4 + - 3.1%) than in epithelial cords and cysts (1.4 + - 1.3%; P < 0.001). These results suggest that LI correlates most closely with the histological pattern of the epithelium of ameloblastoma, both within and between different tumours.