

Yahalom R, Yarom N, Shani T, Amariglio N, Kaplan I, Trakhtenbrot L, Hirshberg A.

Oral lichen planus patients exhibit consistent chromosomal numerical aberrations: A follow-up analysis. *Head Neck*. 2016 r;38 Suppl 1:E741-6

Abstract

BACKGROUND: Oral lichen planus (OLP) carries an increased risk for malignant transformation with aneuploid cells (ACs) being found in brush samples of a quarter of patients with OLP. **METHODS:** Patients with OLP were followed and repeated brush samples were simultaneously analyzed for morphology and fluorescent in situ hybridization (FISH) using centromeric probes for chromosomes 2 and 8. **RESULTS:** Three patients with a high proportion of ACs developed oral cancer. Fifteen patients had $\geq 1\%$ ACs (13 in affected sites and 2 in nonaffected sites), whereas only 2 of the 15 patients with $< 1\%$ ACs in the first sample had $\geq 1\%$ ACs in the second sample. A strong positive correlation between the results of the initial and repeated samples was found. **CONCLUSION:** High proportion of ACs in brush samples from patients with OLP may imply an impending malignant transformation. As FISH analysis is consistent over time, it can be used to identify a subgroup of patients who would require close follow-up.