

CLINICAL PRESENTATION OF RETICULAR AND EROSIVE ORAL LICHEN PLANUS IN PATIENTS WITH AND WITHOUT PERIODONTITIS

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INTRODUCTION: Oral lichen planus (OLP) is a chronic autoimmune, mucocutaneous disease affecting the oral mucosa.

- Chronic periodontitis is a microbe-associated chronic inflammation of the supporting tissues of teeth.
- There is an increase in systemic pro-inflammatory cytokines specifically TNF- α in both the diseases.
- Dental plaque, which is a primary causative factor for periodontitis, may exacerbate the OLP lesions.
- Also, gingival lesions in OLP may indirectly increase the risk of plaque-induced periodontitis when symptoms associated with such lesions impede the maintenance of proper oral hygiene.

OBJECTIVE: This study was conducted to compare and evaluate the clinical findings and patient-related factors of various OLP types in patients with and without periodontitis.

MATERIALS AND METHODS: This cross sectional study was conducted as a joint collaboration between the departments of periodontology, oral medicine, and radiology.

- A total of 40 patients, 10 in each group, aged 40-50 years who were clinically diagnosed and histopathologically confirmed as OLP based on WHO criteria were included. ¹ Scoring for pain (0-10: 0= no pain; 1-3= mild pain; 4-7= moderate pain; 8-10= severe pain), site (0-2), and severity (0-3) of OLP was evaluated based on the criteria given by Escudier et al. ²
- Burning sensation score (0-10; 0= no burning sensation; 1-3= mild; 4-7= moderate ; 8-10= severe) analysed by visual analogue scale.

- INCLUSION CRITERIA**
- patients aged 40-50yrs
 - possessing \geq 20 natural teeth
 - criteria for OLP as given by WHO. ¹
 - criteria for periodontitis as given by Tonetti et al. ³

This study included stage 2 and 3 cases .

- EXCLUSION CRITERIA**
- patients with systemic diseases i.e; diabetes mellitus, osteoporosis, rheumatoid arthritis
 - periodontal therapy in the last year
 - pregnant and lactating women
 - dental restorations
 - drug-induced lichenoid reactions
 - any other red or white lesions in the oral cavity
 - smokers

Clinical Presentation Of Oral Lichen Planus



A and B= Reticular Oral Lichen Planus
C and D= Erosive Oral Lichen Planus

RESULTS

Group	Reticular without periodontitis (group-1)	Reticular with periodontitis (group-2)	Erosive without periodontitis (group-3)	Erosive with periodontitis (group-4)	P value group (1,2)	P value group (3,4)	P value group (1,3)	P value group (1,4)	P value group (2,3)	P value group (2,4)
Burning sensation score	(n) Score 4 =10	Score 4=5 Score 6=4 Score 8=1	Score 4=8 Score 6=2	Score 4=2 Score 6=5 Score 8=3	.036*	.019*	.136	.001*	.307	.302
Pain score	Score 0=9 Score 1=1	Score 0=9 Score 1=1	Score 2=8 Score 3=2	Score 2=2 Score 3=8	.763	.007*	.000*	.000*	.000*	.000*
Site score for OLP	Score 1=9 Score 2=1	Score 1=5 Score 2=5	Score 1=6 Score 2=4	Score 1=4 Score 2=6	.141	.371	.121	.019*	.653	.653
Severity score for OLP	Score 0=1 Score 1=9	Score 0=1 Score 1=2 Score 2=7	Score 1=6 Score 2=4	Score 1=4 Score 2=6	.003*	.371	.061	.012*	.148	.418

*=chi square test
Significant value=P<0.05

DISCUSSION and CONCLUSION: Reticular and erosive OLP exhibit higher severity scores and more symptoms in patients with periodontitis as compared to the ones without periodontitis. Therefore, early diagnosis along with patient education regarding oral hygiene maintenance is of foremost importance in order to reduce the severity of the disease and symptoms of the patient in terms of burning sensation and pain.

REFERENCES

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