ROLE OF PROBIOTICS AS AN ADJUNCT TO SCALING AND ROOT PLANING IN CHRONIC **PERIODONTITIS PATIENTS**

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Probiotics are the "live microorganisms that when administered in adequate amounts confer health benefits on the host".



Lactobacillus (L.casei, L.salivarius),

Bacillus, Enterococcus Bifidobacterium, Streptococcus

Objective: To evaluate the influence of probiotic supplementation as an adjunct to scaling and root planing on periodontal inflammation in periodontitis patients.

MATERIALS AND METHOD: This study was carried out in the Department of Periodontics and Oral Implantology, PGIDS, Rohtak. The study population comprised 20 patients who were randomly allocated to two groups:

GROUP A (n=10): Scaling and root planning was done.



Chronic periodontitis patients with PD (pocket depth) \geq 4-6 mm and CAL (clinical attachment level) = 1-4 mm were included. (Stage 1 & 2 Periodontitis) as per World Workshop 2017 classification

GROUP B (n=10): Scaling and root planing along with probiotic milk drink supplementation (65 ml) containing Lactobacillus casei strain once per day for one month was provided.

The clinical examination included a full-mouth periodontal assessment: BOP (bleeding on probing), PI (plaque index), GI (gingival index), PD (probing depth) and CAL(clinical attachment level) at baseline and after one month.

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RESULTS: Significantly fewer bleeding sites and decreased gingival inflammation were seen in Group B as compared to Group A at one month. Non-significant differences were seen in other periodontal parameters between both groups.

CONCLUSION: The patients taking probiotic milk drink as an adjunct to scaling and root planing demonstrated a better improvement in gingival inflammation. However, a further long term, multi-centre study with a large sample size is recommended to determine its practical implementation.



In the field of periodontal healthcare, probiotics are emerging as a breakthrough approach to be used as an adjunct to conventional periodontal treatment.

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GROUP A (Mean±SD)	GROUP B (Mean±SD)	P VALUE(A- B)
24.7±5.71	23.6±2.71	0.819
0.81±0.40	0.79±0.45	0.821
1.54±0.55	1.46±0.54	0.031
46.6±19.4	40.4±21.63	0.023
4.13±0.25	4.04±0.44	0.102
1.55±0.60	1.37±0.45	0.545
	(Mean±SD) 24.7±5.71 0.81±0.40 1.54±0.55 46.6±19.4 4.13±0.25	(Mean±SD)(Mean±SD)24.7±5.7123.6±2.710.81±0.400.79±0.451.54±0.551.46±0.5446.6±19.440.4±21.634.13±0.254.04±0.44