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.

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

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:

The clinical examination included a full-mouth

probing), PI (plaque index), GI (gingival index),

PD (probing depth) and CAL(clinical attachment

periodontal assessment: BOP (bleeding on

level) at baseline and after one month.

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

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.

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.

Parameters (1 Month)	GROUP A (Mean±SD)	GROUP B (Mean±SD)	P VALUE(A- B)
AGE	24.7±5.71	23.6±2.71	0.819
PI	0.81±0.40	0.79±0.45	0.821
GI	1.54±0.55	1.46±0.54	0.031
ВОР	46.6±19.4	40.4±21.63	0.023
PD	4.13±0.25	4.04±0.44	0.102
CAL	1.55±0.60	1.37±0.45	0.545

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.