Participant Flow

Figure 1. Flow chart of the study design and conduct. SRP: scaling and root planning



Baseline Characteristics

Characteristic	n=27	
Age (years) (mean ±SD)	49.0±9.6	
Gender [n (%)]		
Male	11(40.7)	
Female	16(59.3)	
BMI (kg/m ²) (mean \pm SD)	24.9±3.3	
Smoking status		
Non-smoker	27(100%)	
Marriage status		
Single	2(7.4%)	
Married	25(92.6%)	
Living status		
Living alone	1(3.7%)	
Living with family	26(96.3%)	
Periodontitis stage [n (%)]		
Stage II	8(29.6)	
Stage III	19(70.4)	

Table 1. Baseline characteristics of the study population

BMI: body mass index

	ERL+SRP group	SRP group	oup	
Periodontal index	(Test quadrants)	(Control quadrants)	p value	
	n=27	n=27		
Probing depth (PD)	3.60±0.41	3.58±0.42	0.52	
Clinical attachment level (CAL)	5.38 ± 0.71	5.30±0.77	0.13	
Bleeding index (BI)	2.68 ± 0.58	2.67 ± 0.54	0.84	
Plaque index (PLI)	1.92±0.43	1.94 ± 0.42	0.23	

Table 2. Means (\pm SD) of the periodontal indexes at baseline among all 27 patients participating in the trial

The significance of differences between groups was assessed using analyses of

Paired-Sample *t* test (*: p<0.05).

ERL: Er: YAG laser; SRP: scaling and root planing

Outcome Measures

Periodontal index	ERL+SRP group	SRP group	
Periodontal Index	(Test quadrants)	(Control quadrants)	<i>p</i> value
	n=27	n=27	
PD			0.03*
Baseline	3.60±0.41	3.58±0.42	
3 months	2.98±0.38 ^a	3.09±0.35 ^a	
6 months	2.91±0.31 ^b	3.02±0.30 ^b	
CAL			0.03*
Baseline	5.38±0.71	5.30±0.77	
3 months	4.51±0.69 ^a	4.72±0.67 ^a	
6 months	4.52±0.65 ^b	4.72±0.66 ^b	
BI			0.18
Baseline	2.68±0.58	2.67±0.54	
3 months	2.19±0.32 ^a	2.24±0.40 ^a	
6 months	2.13±0.30 ^b	2.22±0.36 ^b	
PLI			0.34
Baseline	1.92±0.43	1.94±0.42	
3 months	1.43±0.26 ^a	1.46±0.26 ^a	
6 months	1.42±0.21 ^b	1.48±0.20 ^b	

Table 3. Means $(\pm SD)$ of the periodontal indexes by treatment groups at bothbaseline and follow-up periods at 3 months and 6 months among 27 patients

The significance of differences between groups was assessed using analyses of the linear mixed model (*: p<0.05).

The pair-wise comparisons within groups were performed by the

least-significant-difference (LSD) method (a: indicate significant differences between baseline & 3 months follow-up; b: indicate significant differences between baseline & 6 months follow-up).

ERL: Er: YAG laser; SRP: scaling and root planing; PD: probing depth; CAL: clinical attachment level; BI: bleeding index; PLI: plaque index.

Adverse Events

There were no adverse events in the study.