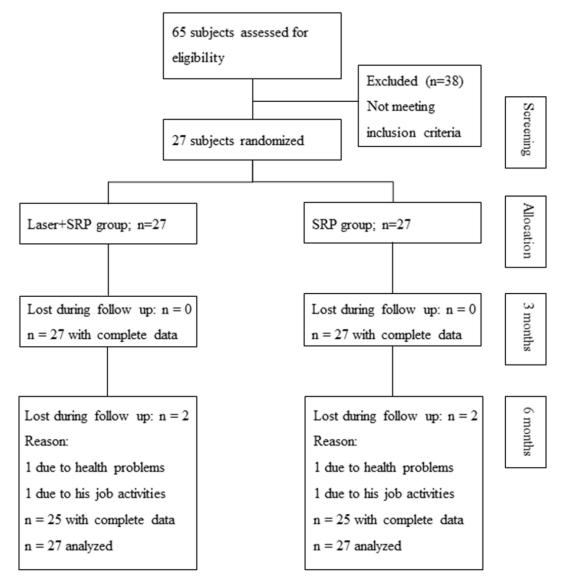
## **Participant Flow**

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 <sup>2</sup> ) (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)	$5.38 \pm 0.71$	5.30±0.77	0.13	
Bleeding index (BI)	$2.68 \pm 0.58$	$2.67 \pm 0.54$	0.84	
Plaque index (PLI)	1.92±0.43	$1.94 \pm 0.42$	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 <sup>a</sup>	3.09±0.35 <sup>a</sup>	
6 months	2.91±0.31 <sup>b</sup>	3.02±0.30 <sup>b</sup>	
CAL			0.03*
Baseline	5.38±0.71	5.30±0.77	
3 months	4.51±0.69 <sup>a</sup>	4.72±0.67 <sup>a</sup>	
6 months	4.52±0.65 <sup>b</sup>	4.72±0.66 <sup>b</sup>	
BI			0.18
Baseline	2.68±0.58	2.67±0.54	
3 months	2.19±0.32 <sup>a</sup>	2.24±0.40 <sup>a</sup>	
6 months	2.13±0.30 <sup>b</sup>	2.22±0.36 <sup>b</sup>	
PLI			0.34
Baseline	1.92±0.43	1.94±0.42	
3 months	1.43±0.26 <sup>a</sup>	1.46±0.26 <sup>a</sup>	
6 months	1.42±0.21 <sup>b</sup>	1.48±0.20 <sup>b</sup>	

**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.