

# 가

. . . . .

## I.

1-3)

4)

가  
가

가

5-8)

가

9-11)

가,

12, 13)

Kaldahl 14)

1)

---

\* 1999

가 가 1 가 ,  
 가 가 4 ,  
 (SRP+S) ,  
 customized grooved  
 acrylic stent , reference mark  
 (Pre-Tx.), (Pre-Surg.),  
 가 가 12 (Post-Surg.)  
 가 , , , ,  
 , , , ,  
 12 , , 6  
 가 .

II.

1.
  - 1)
    - a.
 

Williamprobe 가 가

12 ( 7 , 5 ) . 56 .

46.3(31-62) .

가 가 가 가

가 4mm 6mm  
 , McGuire 15)

6
    - b.
 

Williamprobe 가 가
    - c.
    - d.
 

Löe Silness 가

0: , 가 ,

1: , 가 ,
2.
 

(S) ,

2: , , , , 2: 1 mm

3: , , , 3: 2)

e. Silness-Löe<sup>17)</sup> 가 . 5

0: 가 Amoxicillin/Clavulanic acid(Augmentin ) 1125mg

1: 가 3 0.12% Chlorhexidine gluconate (Hexamidine) 2

2: 가 , 1

가 , 1

3: 가 3) , 12

f. Miller 가 , , (p<0.05),

0: Scheffe test , S N+S

1: 0.2-1mm t - test (p<0.05).

Table 1. The comparison of probing pocket depth (Mean ± S.D., mm)

	Pre-Tx.	Pre-Surg.	Post-Surg.
S group	4.6 ± 1.42	4.5 ± 1.38 <sup>+</sup>	2.3 ± 0.96
SRP+S group	4.5 ± 1.48	3.8 ± 0.97	2.2 ± 0.76

\*: significant difference from Pre-Tx.: p<0.05

+: significant difference between groups: p<0.05

Table 2. The comparison of gingival recession (Mean ± S.D., mm)

	Pre-Tx.	Pre-Surg.	Post-Surg.
S group	0.7 ± 0.95	0.7 ± 0.94 <sup>+</sup>	1.6 ± 0.74
SRP+S group	0.7 ± 1.22	1.0 ± 1.11	1.7 ± 1.19

\*: significant difference from Pre-Tx.: p<0.05

+: significant difference between groups: p<0.05

Table 3. The comparison clinical attachment level (Mean ± S.D., mm)

	Pre-Tx.	Pre-Surg.	Post-Surg.
S group	5.3 ± 1.66	5.3 ± 1.43 <sup>+</sup>	4.05 ± 0.91
SRP+S group	5.3 ± 1.55	4.87 ± 1.12 <sup>+</sup>	3.99 ± 0.92

\*: significant difference from Pre-Tx.: p<0.05

+ : significant difference between groups : p<0.05

Table 4. The comparison of gingival index (Mean ± S . D . )

	Pre-Tx.	Pre-Surg.	Post-Surg.
S group	1.9 ± 0.76	1.6 ± 0.70 <sup>+</sup>	0.44 ± 0.53
SRP+S group	1.8 ± 0.74	0.47 ± 0.56 <sup>+</sup>	0.38 ± 0.52

\*: significant difference from Pre-Tx.: p<0.05

+ : significant difference between groups : p<0.05

Kruskal-Wallis 12

nonparametric test Wilcoxon matched -pair sta- (p<0.05).  
tistical test (p<0.05).

2.

III.

1.

S

0.74 ± 0.95 mm

, 12

0.7 ± 0.91mm, 1.69 ± 0.74 mm SRP+S

S

4.6 ± 1.42 mm

0.7 ± 1.22 mm

가 , 12

1.0 ± 1.11mm, 1.75 ± 1.19 mm

4.5 ± 1.38mm, 2.39 ± 0.96 mm

가

(Table 2).

, SRP+S

4.5 ±

S

1.48 mm

가 3.8 ±

, SRP+S

0.97mm, 2.21 ± 0.76 mm

(Table 1).

(p<0.05).

12

S

SRP+S

S

가

, SRP+S

12

(p<0.05).

12

S

SRP+S

(p<0.05). S

SRP+S

12

, 12

(p<0.05). S

SRP+S

(p<0.05).

SRP+S

3.

S 5.3 ± 1.66 mm, 12 SRP+S 5.3 ± 1.43mm, 4.08 ± 0.91 mm, 12 SRP+S 5.3 ± 1.55 mm, 4.8 ± 1.12 mm, (p<0.05). 12 S SRP+S 3.9 ± 0.92 mm (Table 3). 12 S SRP+S (p<0.05). 12 S SRP+S (p<0.05). 12 S SRP+S (p<0.05). 12 SRP+S (p<0.05). S 5. 1.4 ± 0.56 가, 12 0.6 ± 0.57, 0.56 ± 0.53, SRP+S 1.3 ± 0.63 가 4. 0.6 ± 0.64, 0.55 ± 0.56 (Table 5). S 1.9 ± 0.76 가, 12 SRP+S 1.6 ± 0.70, 0.44 ± 0.53, SRP+S 1.8 ± 0.74 가 (p<0.05). 12 S 0.4 ± 0.56, 0.38 ± 0.52 (Table 4). 12

Table 5. The comparison of plaque index (Mean ± S. D. )

	Pre-Tx.	Pre-Surg.	Post-Surg.
S group	1.4 ± 0.56	0.6 ± 0.57*	0.5 ± 0.53
SRP+S group	1.3 ± 0.63	0.6 ± 0.64	0.5 ± 0.56

\*: significant difference from Pre-Tx.: p<0.05

Table 6. The comparison of tooth mobility (Mean ± S. D. )

	Pre-Tx.	Pre-Surg.	Post-Surg.
S group	0.4 ± 0.51	0.4 ± 0.50	0.1 ± 0.36
SRP+S group	0.4 ± 0.50	0.4 ± 0.55	0.1 ± 0.30

\*: significant difference from Pre-Tx.: p<0.05

( $p < 0.05$ ). S SRP+S 8  
12 가  
( $p < 0.05$ ). , Philstrom 26) Lindhe 7,27)

6.

S 0.4 ± 0.51 , ,  
가 , 12 ,  
0.4 ± 0.50, 0.15 ± 0.36, SRP+S ,  
0.4 ± 0.50 가 ,  
0.4 ± 0.55, 0.10 ± 0.30 (Table 6). 가 .  
28-31)

S , SRP+S

( $p < 0.05$ ). 17-  
12 S SRP+S 69% , 14%  
, 24% , Renvert 23)  
12

( $p < 0.05$ ). S SRP+S  
12  
( $p < 0.05$ ).

IV.

,  
12  
가 가  
18,19,20)

split-mouth design 가  
, Becker 21), Hill 22) , Kaldahl 14) 1  
가 가 4 mm  
5 mm  
, Renvert 23) 5 가  
가

가 12 가,  
24,25) , Knowles , ,

가  
 . Kaldahl <sup>14)</sup> 5 - 6 m m 가 ,  
 3  
 2.39 m m  
 , Becker <sup>21)</sup> 4-6mm 가 . Goldberg<sup>37)</sup> 3  
 6  
 45 - 50 %  
 1.78 m m Dennis <sup>20)</sup> Galler <sup>38)</sup> 가 가 가  
 3  
 S SRP+S 24  
 2.28mm, 2.32mm 12  
 12 S SRP+S 가  
 , ,  
 12  
 가  
 가 ,  
 4 가 가  
 가  
 가  
 32) 33,34) 가 ,  
 가 ,  
 . Lindhe <sup>35)</sup> Rosling <sup>36)</sup> 가 가  
 12  
 ,  
 , 12 가  
 ,  
 가 ,  
 ,  
 12

가가

가 .

가

가

가

VI.

V.

가

1 2

가

1 2 , 5 6  
split-mouth design

( S R P + S ) ,  
( S )

1 2

1 . 1 2

가

2 . 1 2

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- Abstract -

## Clinical Evaluation After Periodontal Flap Surgery with/without Non-Surgical Periodontal Therapy

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In the treatment of chronic adult periodontitis, scaling and root planing have been generally performed prior to periodontal flap surgery. The purpose of this study was to evaluate the clinical significance of non-surgical periodontal therapy prior to periodontal flap surgery in patients with chronic adult periodontitis.

Fifty six molars showing bilateral bony defects and 4-6mm periodontal pocket in twelve patients with chronic adult periodontitis were selected. By randomized split-mouth design, in one side, flap operation was performed 4 weeks after scaling and root planing, in the other group, flap operation was only performed without scaling and root planing. Probing pocket depth, gingival recession, clinical attachment level, gingival index, plaque index, and tooth mobility were measured at baseline, before flap operation and post-operation