

I.

Löe 4)

가

가

1-3),

79

300

40

9-14), 20

가

12, 15),

가

, 0.1mm

16-18),

5, 6),

Page Schroeder 7)

가

13 - 20

가

19, 20)

20

가

21),

. Lovdal 8)

50%

20

2

15%

5mm

10 -

II.

6

Marquis probe

1. 1, 2 (2)
 200 1
 , 4mm 14 Marquis probe
 22 26 11 (3)
 가 3
 가 2 , 가 29 Marquis probe

2. (4)
 (Gingival index), Marquis probe
 1 (5)
 , mild periodontitis가 Size 2 Intraoral film(Kodak
 가 11 (8 , Ektaspeed)
 3) 2 , 3 (3) 1 XCP
 Exaflex(GC)
 stent
 8 가

III.

(1) (Gingival index)⁴⁾
 1.

1 Mean gingival score at baseline and each follow-up year

Follow - up	No. of teeth	Gingival score (mean ±SD)
Baseline	31	1.81 ± 0.70
First year	31	1.81 ± 0.60
Second year	23	1.30 ± 0.64

(mm) 1
 가 4mm (mm) 가
 1, 1.81 (P>0.05).
 ± 0.70 , 1, 1.81 ± 0.60 2
 , 2, 1.30 ± 0.64 가 (P>0.05), 1
 2, 23, 1, 2
 ± 0.49 , t, 1.70 ± 0.61 , 1.65 가
 1 (P>0.05). 3.
 가 2 가
 가 4mm
 (P<0.05), 1, 2, 3, (mm)
 가 0.06 \pm 0.21, 1
 (P<0.05). 0.06 \pm 0.25, 2, 0.21 \pm
 0.52, 2, 23
 2, 1
 0.09 \pm 0.25, 0.09 \pm 0.29
 가 4mm t (mm) 1
 (mm) 2, 가
 4.75 \pm 0.73, 1 (mm) 1
 4.91 \pm 0.92, 2, 4.88 \pm (P>0.05).
 0.90, 2, 16, 2
 가 (P>0.05), 1
 1, 5.05 \pm 0.66, 5.29 \pm 1.01, 2
 t 가

2 Mean periodontal pocket depth(mm) at baseline and each follow-up year

Follow - up	No. of teeth	Periodontal pocket depth (mean \pm SD)
Baseline	31	4.75 \pm 0.73
First year	30	4.91 \pm 0.92
Second year	16	4.88 \pm 0.90

3 Mean gingival recession(mm) at baseline and each follow-up year

Follow - up	No. of teeth	Gingival recession (mean \pm SD)
Baseline	31	0.06 \pm 0.21
First year	31	0.06 \pm 0.25
Second year	23	0.21 \pm 0.52

4 Mean level of attachment(mm) at baseline and each follow-up year

Follow - up	No. of teeth	Loss of attachment(mean ±SD)
Baseline	31	4.81 ± 0.82
First year	31	4.98 ± 1.00
Second year	16	5.20 ± 1.04

(P>0.05).

4. 5, 127
 ± 2.1 gray level, 1 132 ±
 3.2 gray level, 2 128 ±
 2.9 gray level, 2 16
 가 4mm 1 gray
 (mm) 4, level 1.8 ± 0.51 1.1 ± 0.33
 4.81 ± 0.82, 1 4.98 ±
 1.00, 2 5.20 ± 1.04 gray level 1
 2 16 gray level
 1 5.17 ± t, 가
 0.79 5.42 ± 1.09 (P>0.05).
 t gray level 2 gray level
 (mm) 1 가
 (mm) 가 (P>0.05), 1 gray level 2
 (P>0.05). 2 gray level
 가 (P>0.05).
 2 IV.
 가
 (P>0.05). 20
 5. 가 4mm, 2
 1 2

5 Mean gray level at baseline and each follow-up year

Follow - up	No. of teeth	Gray level(mean ±SD)
Baseline	31	127 ± 2.1
First year	31	132 ± 3.2
Second year	16	128 ± 2.9

가 .
 Löe ²²⁾ .
 20 0.11mm 2 가
 , Brown ²¹⁾
 0.08mm,
 0.2mm 가 ,
 0.2mm 가 8, 16, 17),
 가 .
 Papapanou ²⁵⁾ 300 ²⁶⁾
 4, 22 - 24),
 25 0.7mm, 40 - 55
 가 . 0.14mm 7%
 10 3mm
 . Lindhe ²⁶⁾ 가
 가 15 6
 2 가 . 9.5% 가
 가 5 2.1% 88.4% 가
 1 2 2
 가
 , 2 가
 가
 20

V.

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- Abstract -

A 2-Year Longitudinal Study of Untreated Periodontal Disease in Young Adults

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The purpose of this investigation was to examine the pattern of progression of periodontitis and the change in the extent and severity of the periodontal condition in young adults. Fourteen subjects with periodontitis, 11 males and 3 females in the age range 22 - 26, participated in the study. Following a baseline examination, the subjects were monitored for gingival index, probing pocket depth, gingival recession, probing attachment level and radiographic crestal bone height for 24 months without therapy.

Re - examination were performed after 12 and 24 months. Gingival index, probing pocket depth, gingival recession and probing attachment level were assessed at 6 locations per tooth, and crestal bone height was assessed by subtraction radiography. The results from the follow - up examination revealed that the subjects underwent minor changes with respect to a series of different clinical parameters. The mean values of gingival index was improved, however, the mean values of

probing pocket depth, gingival recession, probing attachment level and crestal bone height showed no significant change between baseline and the re - examination after 1 and 2 years.

Key words: periodontal disease;gingival index;probing depth;attachment level;subtraction radiography;longitudinal study.