

I.

(SDM; Krupp Corp., Essen, Germany)가 . SDM transducer probe tip 가 (1518m/s),

가

1,2),

0.1 mm 0.3 mm 8.0 mm 가 7). Eger 7) SDM

, M Iler 8-10)

가

, Chang 11)

SDM

가

가

2,4 - 6).

(biotypes)

4,7,12),

(invasive)

(non - inva -

sive) 3)

가

가 2.

3
Williams probe
1mm

11. 37
가 25 , 가 12
23.5
SDM
(Figure 1).
1)
, 2) 가 5
4mm 가 , 3) 가
, 4)

6

Table 1.

Tooth type	11/21	12/22	13/23	14/24	15/25	16/26	17/27
GTH(mm)	1.16 (0.36)	0.98 (0.37)	0.83 (0.29)	0.87 (0.29)	0.85 (0.29)	1.05 (0.40)	1.04 (0.45)
GW(mm)	5.23 (1.17)	5.41 (1.57)	4.99 (1.33)	4.19 (1.02)	4.03 (1.12)	4.65 (1.34)	5.66 (1.76)
PPD(mm)	1.36 (0.51)	1.42 (0.52)	1.2 (0.40)	1.39 (0.49)	1.33 (0.47)	1.73 (0.50)	1.90 (0.53)
REC(mm)	0 (0)	0.02 (0.12)	0 (0)	0.11 (0.32)	0.02 (0.12)	0.02 (0.16)	0 (0)
Tooth type	31/41	32/42	33/43	34/44	35/45	36/46	37/47
GYH(mm)	0.71 (0.24)	0.74 (0.24)	0.69 (0.20)	0.68 (0.17)	0.76 (0.21)	1.09 (0.39)	1.69 (0.41)
GW(mm)	4.12 (1.05)	4.08 (1.11)	2.64 (0.96)	1.74 (0.67)	2.64 (0.84)	3.07 (0.69)	2.68 (0.71)
PPD(mm)	1.14 (0.34)	1.14 (0.38)	1.27 (0.48)	1.18 (0.38)	1.24 (0.43)	1.57 (0.58)	1.76 (0.52)
REC(mm)	0.02 (0.23)	0.02 (0.25)	0.02 (0.16)	0.20 (0.47)	0.02 (0.12)	0.02 (0.12)	0 (0)

GTH : , GW : *()
PPD : , REC :

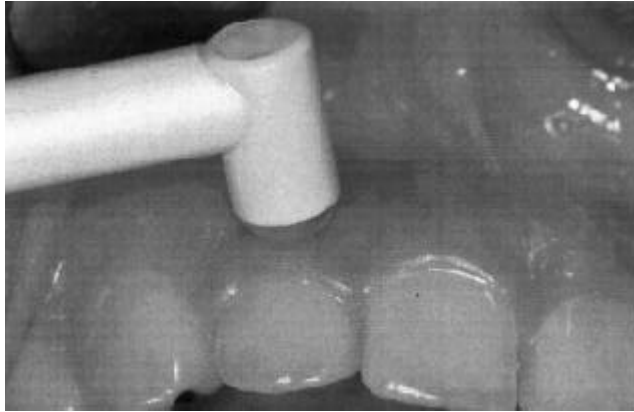


Figure 1. SDM

3.

1.

Table 1

구분	구분	구분	구분
가	2.73mm	0.50 mm	
나	mm 가	가 1.16 ± 0.36	
다	mm 가	0.83 ± 0.29	
라	1.69 ± 0.41 mm 가	2	1
마	0.68 ± 0.17 mm 가	가	1.27
바	mm 가	1	2

. P 0.05

III.

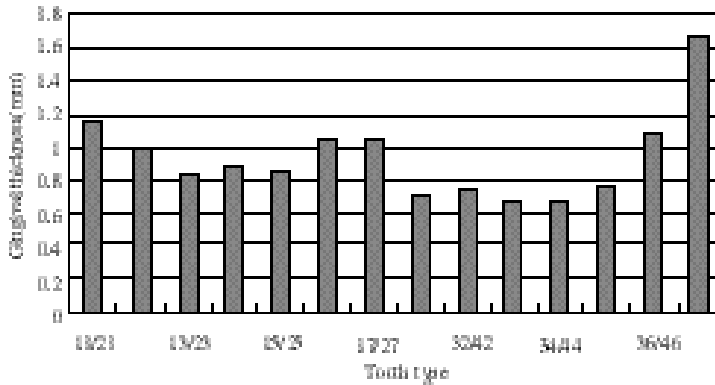
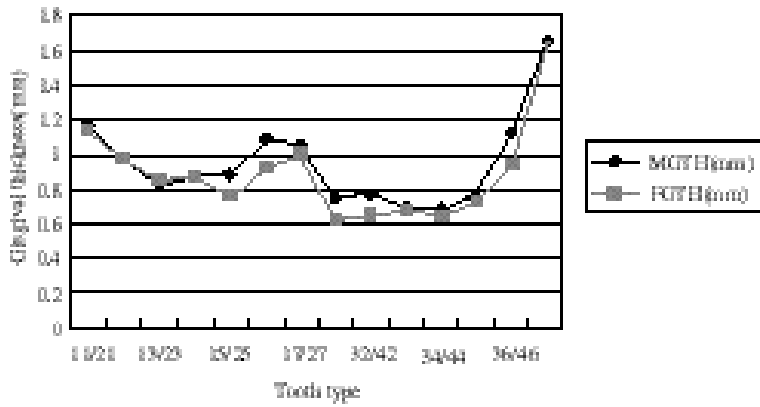


Figure 2.



MGTH : male gingival thickness
 FGTH : female gingival thickness

Figure 3.



KGTH : Korean gingival thickness
 GGTH : German gingival thickness (data from Eger et al. 1996)

Figure 4.

5.66 mm 가
 1.40mm 가
 . 1mm
 (3.79%)
 가

Figure 2

Figure 3

가
 . 가
 38 가
 , 1 (P<0.05),
 .
 . 37
 가 , Eger ⁷⁾ 42
 ,
 (Figure 4).

Table 2.

R ² =0.229; R ² _{adj} ; 0.225 s.e. (estimate)=0.268				
	b	s.e.(b)		P
(constant)	0.377	0.036		0.000
GW(mm)	0.079	0.042	0.411	0.000
PPD(mm)	0.115	0.022	0.171	0.000
REC(mm)	-0.043	0.042	-0.034	0.304

GW: , PPD: , REC :

3. 가 0.15 mm . SDM 가 가

1 2 (data not shown). SDM transducer probe

2 , transducer probe

23 % 가 Eger ⁷⁾

(Table 2). 가 가

IV. SDM (validity) (Figure 4) (Kerr reamer ISO 15) 가 0.15 mm ⁷⁾. (²=0.906, P<0.0001) Eger ⁷⁾ 0.03±0.16 mm , SDM (Figure 3), 가 가 가 (reliability) 가 가 가 0.17 mm 가 0.16 mm Eger ⁷⁾ 가 가 가 5 , 가 가 2 가가 , 가 가

가 , 1 가 ,
가 2 M ller 8)
Eger 7) “gingival phenotype”
Eger 7) 가
가 1
가 Eger 7)
SDM
13,14) 1 가
2 mm가
가 SDM
가 V.
가 37
가
1.
Goaslind⁴⁾ 가 가
Olsson 가 2
12) 가 , 1 가
가 2. 가 가
Eger 7) 가
V.

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- Abstract -

A Study on Keratinized Gingival Thickness in Healthy Korean Adults

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The objectives of this study were to measure keratinized gingival thickness in healthy Korean adults, and to correlate the keratinized gingival thickness with width of keratinized gingiva, probing pocket depth and gingival recession.

Thickness measurements were performed in 37 Korean dental students using an ultrasonic device(SDM). Width of keratinized gingiva, gingival recession and probing pocket depth were measured with a Williams periodontal probe.

The results showed that the keratinized gingival thickness varied from 0.83 mm(canines) to 1.16 mm(central incisors) in the maxilla and, in the mandible, from 0.68 mm(1st premolars) to 1.69 mm(2nd molars). In a stepwise multiple linear regression analysis, 23% of variation of gingival thickness could be explained by width of keratinized gingiva and probing pocket depth.

It could be concluded that the keratinized gingival thickness depends on tooth type and correlates with width of keratinized gingiva and probing pocket depth.