

상악 종절치간 중심선과 해부학적 부위와의 관계에 대한 조사연구

고려대학교 보건전문대학 치과기공과

A Study on the Various Anatomical Landmarks Associated with Determining the Dental Midline

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Abstract

The distances from the center line between maxillary right and left central incisors (the dental midline) to the various anatomical landmarks were measured.

Fifty five students (thirty four males and twenty one females) who have at least natural teeth including maxillary and mandibular incisors and bicuspid were examined.

1. There was statistically significant difference between the dental midline and the center line of maxillary labial frenum ($p < 0.05$).
2. There was no statistically significant difference between the dental midline and the point of incisive papilla, philtrum line, the center line between two mandibular central incisors, and the median palatine suture line ($p > 0.05$).
3. There was no statistically significant sexual difference among data.
4. The philtrum line showed the highest value of correspondence to the center line between two maxillary central incisors followed by the center point of incisive papilla, the center line of two mandibular central incisors, median palatine suture line and the center line of maxillary labial frenum at the decreasing rate.

1. 서론

가

1).

가

II. 조사 대상 및 방법

23) 가

34, 21
19 27

6 가

28 가

4) Angle class

가

5) 가

6,7,8)

MacGregor¹⁰⁾ Heillein⁹⁾, Watt

Rudd Eissmann¹¹⁾, Hobbirk¹²⁾, Morrow,

가 ()

()

0.51mm sheet wax
facial screen , screen 6

가 . Sheet wax facial screen

Watt pikeman¹³⁾
가

가 facial screen

가 screen

가 facial screen

가 wax 가

screen

land area

0.05mm 가 sliding
vernier caliper(Mitutoyo)

III. 조사 성적

(가)
가 1
0.28 ± 0.06mm,
0.26 ± 0.50mm, 0.27 ± 0.59mm
Moorrees¹⁴⁾ 가 가
0.50mm

1.

성별	인원수	산술평균 표준편차	우 측		중심선에서	좌 측	
			2.00~1.01mm	1.00~0.51mm	0.50mm이내	0.51~1.00mm	1.01~2.00mm
남	34(100.0%)	0.28mm 0.06mm	2(5.9%)	9(26.5%)	19(55.9%)	3(8.8%)	1(2.9%)
여	21(100.1%)	0.26mm 0.50mm		3(14.3%)	16(76.2%)	1(4.8)	1(1.4%)
전체	55(99.9%)	0.27mm 0.59mm	2(3.6%)	12(21.8%)	35(63.6%)	4(7.3%)	2(3.6%)

2.

성별	인원수	산술평균 표준편차	우 측		중심선에서	좌 측	
			2.00~1.01mm	1.00~0.51mm	0.50mm이내	0.51~1.00mm	1.01~2.00mm
남	34(99.9%)	*0.01mm 0.38mm		1(2.9%)	29(85.3%)	3(8.8%)	1(2.9%)
여	21(100.0%)	0.02mm 0.36mm				20(95.2%)	1(4.8)
전체	55(100.0%)	0.00mm 0.37mm		1(1.8%)	49(89.1%)	4(7.3%)	1(1.8%)

* 인중선이 좌측으로 치우친 경우

19 (55.9%), 16 (76.2%), 35 8 (38.1%), 25 (45.5%) ,
 (63.6%) 가 .

2
 $-0.01 \pm 0.38\text{mm}$ (-
), 0.02 ± 4
 $1.01 \pm 1.52\text{mm}$,
 0.36mm, $0.00 \pm 0.37\text{mm}$, $1.63 \pm 2.12\text{mm}$, $1.24 \pm 1.78\text{mm}$
 가 , 가
 29 (85.3%), 20 (95.2%), 49 가
 (89.1%) 가 8 (23.5%), 1 (4.8%,
 가 9 (16.4%)
 3
 $0.22 \pm 1.29\text{mm}$,
 0.19 ± 1.49mm 가
 17 (50%), 5
 $0.32 \pm 0.92\text{mm}$,

3.

성별	인원수	산술평균 표준편차	우 측			중심선에서 좌 측			
			2.01mm이상	2.00~1.01mm	1.00~0.51mm	0.5mm이내	0.51~1.00mm	1.01~2.00mm	2.01mm이상
남	34(100.0%)	0.22mm 1.22mm	3(8.8%)	59(14.7%)	2(5.9%)	17(50.0%)	2(5.9%)	4(11.8%)	1(2.9%)
여	21(100.1%)	0.19mm 1.49mm	3(14.3%)	1(4.8%)	4(19.0%)	8(38.1%)	1(4.8)	3(14.3%)	1(4.8%)
전체	55(100.1%)	0.21mm 1.29mm	6(10.9%)	6(10.9%)	6(10.9%)	25(45.5%)	3(5.5%)	7(12.8%)	2(3.6%)

4.

성별	인원수	산술평균 표준편차	우 측			중심선에서 좌 측			
			2.01mm이상	2.00~1.01mm	1.00~0.51mm	0.5mm이내	0.51~1.00mm	1.01~2.00mm	2.01mm이상
남	34(100.0%)	1.01mm 1.52mm	8(23.5 %)	9(26.5%)	2(5.9%)	8(23.5%)	3(8.8%)	4(11.8%)	
여	21(100.1%)	1.63mm 2.12mm	12(57.1 %)	3(14.3%)	1(4.8%)	1(4.8)	3(14.3%)	1(4.8%)	
전체	55(100.1%)	1.24mm 1.78mm	20(36.44%)	12(21.8%)	2(3.6%)	9(16.4%)	4(7.3%)	7(12.7%)	1(1.8%)

0.30 ± 0.93mm, 0.31 ± 0.92mm

(P<0.05).

t-

12 (35.3%) 10 (47.6%),
22 (40.6%)

(P>0.1).

IV. 고찰

Duncan

New Multiple range
(6),

(P<0.05),
가

가 가

5.

성별	인원수	산술평균 표준편차	우 측			중심선에서 좌 측		
			2.01mm이상	2.00~1.01mm	1.00~0.51mm	0.5mm이내	0.51~1.00mm	1.01~2.00mm
남	34(100.1%)	0.32mm 0.92mm	2(5.9%)	4(11.8%)	9(26.5%)	12(35.3%)	4(11.8%)	3(8.8%)
여	21(99.9%)	0.30mm 0.93mm	2(9.5%)	2(9.5%)	4(19.0%)	10(47.6)	2(9.5%)	1(4.8%)
전체	55(100.0%)	0.31mm 0.92mm	4(7.3%)	6(10.9%)	13(23.6%)	22(40.0%)	6(10.9%)	4(7.3%)

6.

(Duncan New Multiple-Range)

산 술 평 균 (mm)			상악 중절치간 중심선으로부터의 측정부위
전체	남자	여자	
0.00	0.01*	0.02	인중선
0.21	0.22	0.19	하악 중절치간 중심선
0.27	0.28	0.26	절치유두 중심선
0.31	0.32	0.30	정중구개 봉합선
1.24	1.01	1.63	상악 순소대 중심선

■ 는 통계적으로 유의성이 없는 범위를 나타냄

*는 왼쪽으로 치우친 경우

(α=0.05)

28

가

0.00 ± 0.37mm)

가

가

가

89.1% 가

9,16)

17)

가

가

가

가

가

가 0.00

(P<0.05).

3.70mm

45.5%

Heartwell

가

17)

가

0.50mm

89.1% 가

가

(63.6%),

(40.4%),

(45.5%),

(63.6%)

Roraff¹⁸⁾

가

가

가

가

0.00 2.20mm

(40.0%)

Wattman

가

Morrew¹⁵⁾

Likeman¹³⁾

가

가

가

(P>0.05),

가

가

가

(16.4%) 가

가

가(0.01 ± 0.38mm,

0.02 ± 0.36mm,

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V. 결 론

28 가 55 (34 ,
21)

1)

가 (P<0.05) .

2)

가 (P> 0.05) .

3)

(P>0.05).

4)

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