

# Ceramo-Metallic Crown의 제작에 관한 형태 수정에 대하여

이수치과기공소

## Morphological Correction about Process of Fabrication of Ceramo-Metallic Crowns

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### 차 례

1. Morphology
- 2.
- 3.

### I. 서 론

가  
가

가

가

가

crown

가

가

PFM

PFM

가

PFM

crown

## II. 본 론

### 1. 형태학(morphology)

“piano-key” PFM system “banana-bunch”( 1)  
가

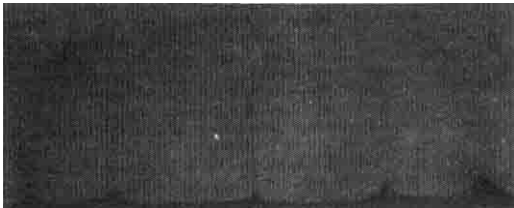
가 PFM , ,  
porcelain shad  
가  
가

opaque

labial porcelain

PFM 가 , diastema, rotation,  
case crown 가

PFM  
PFM study model ,  
up , diagnostic wax up full wax  
crown , , 가



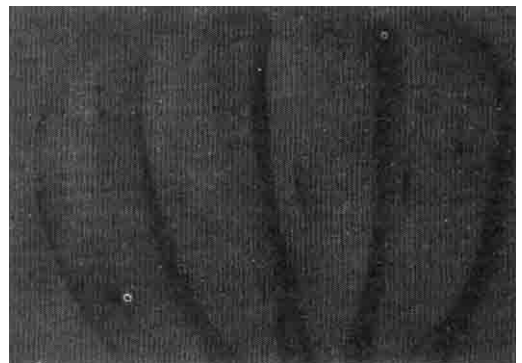
A



C



B



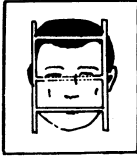
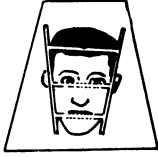







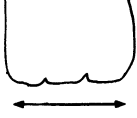


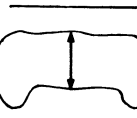
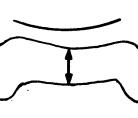
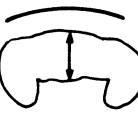
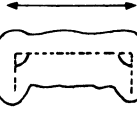
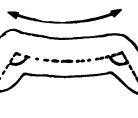


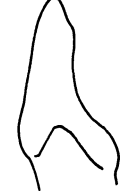

D

1. A, B : paion-key

C D : banana-bunch

## 2. 전치에서의 형태학

가 가 가 가  
 가 oval, triangle, square 가 가  
 type ( 2).

Basic morphology type	Square	Triangular	Oval
			
A Labial ridges (labial view)			
B Incisal line (labial view)			
C Incisal line (incisal view)			
D Thickness and labial line (horizontal cross section at the center of crown)			
E Curve (horizontal cross section at the center of crown)			
F Proximal surface (proximal view)			

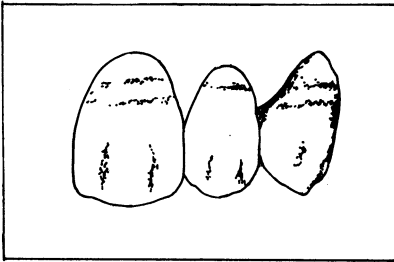
1)

square type  
가

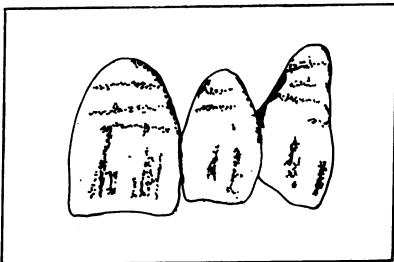
( 3).  
model

가

A



B



3.

A :

B : Square contour

PFM

2)

가

# 11 # 21  
가  
study model

# 12,21,22  
case

가

가 cervical third

PFM

가 study model  
PFM

# 11, # 21

# 13,12,22,23

6 가

type  
study model

3)

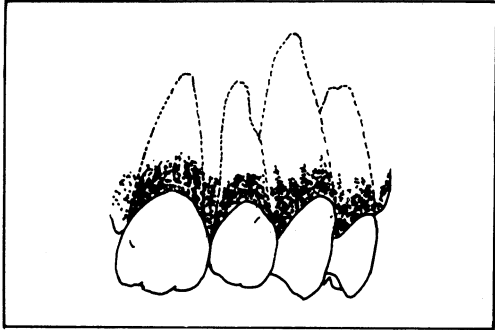
cervical soft tissue

cervical line  
triangle form 가

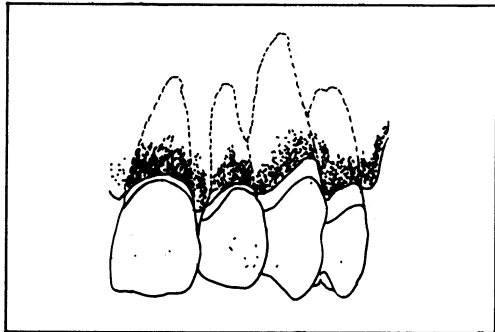
가 square or oval form

root crown 가

root  
square or oval form 가  
triangle form  
incisal edge  
( 4).



4. a.



b.  
triangle form

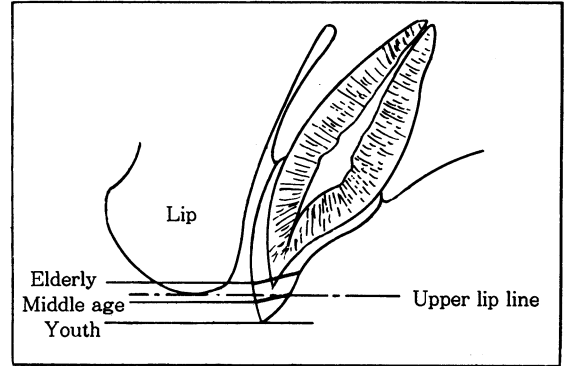
root가

incisal edge  
incisal edge  
2 3mm  
incisal edge  
incisal edge

( 5).  
incisal edge

portion

incisal



5.

incisal tip

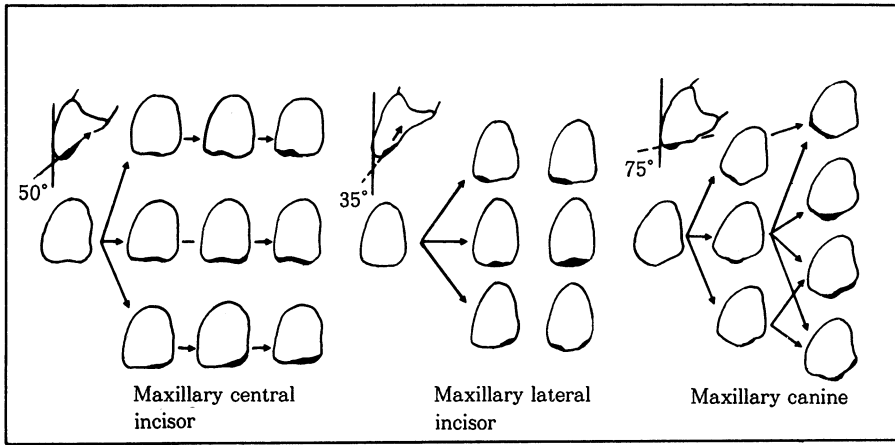
lip line

incisal edge 가 가

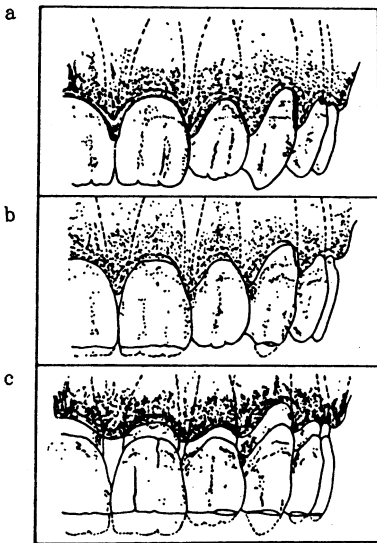
( 75., 50., 35.  
6).

가

incisal edge  
incisal edge  
가  
incisal portion 6  
가  
incisal portion  
triangle form 가  
7



6. incisal edge 가



가

8

lingual marginal ridge

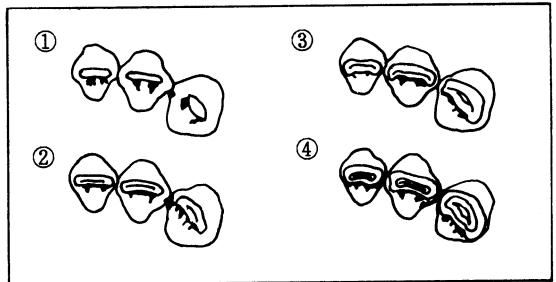
가  
dentin

enamel

가  
dentin enamel  
depression

incisal surface

- 7.
- a : Cervical soft tissue incisal edge가  
clinical crown round
  - b : Clinical crown incisal edge  
square 가
  - c : Cervical soft tissue incisal  
edge 6 가 trangular crown



8. incisal portion 가

4) Interproximal embrasure

Interproximal embrasure

7 가 .Interproximal space

space가

incisal

cervical

, PFM

embrasure

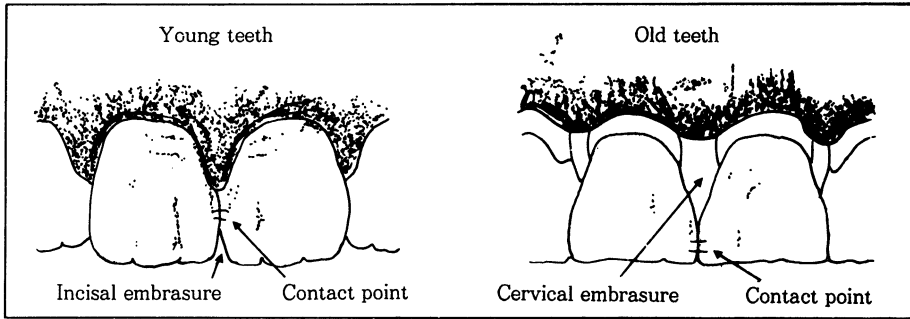
embrasure porcelain

( 9).

cervical

cervical

over build up



9. 가 incisal embrasure cervical embrasure가

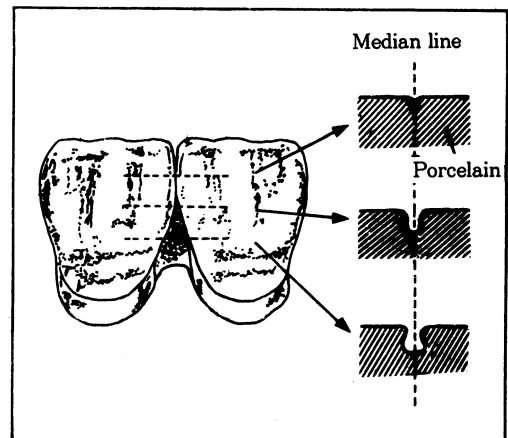


1. Time etch



1. Time etch

10. Interdental space



1. Time etch

canine to canine bridge.

interproximal embrasure  
cervical  
space가  
interproximal space  
lingual  
가  
interproximal space  
( 10).

interproximal  
가  
labial cervical

depression extension  
( 11).  
가

- Type A : Triangle contour  
Labial fossa가 incisal cervical  
development ridge  
central ridge 가
- Type B : Square contour  
Cervical third 가 labial  
fossa central ridge  
Depression Type A
- Type C : Oval contour  
labial surface가
- Type D : Smooths surface  
Type A B C

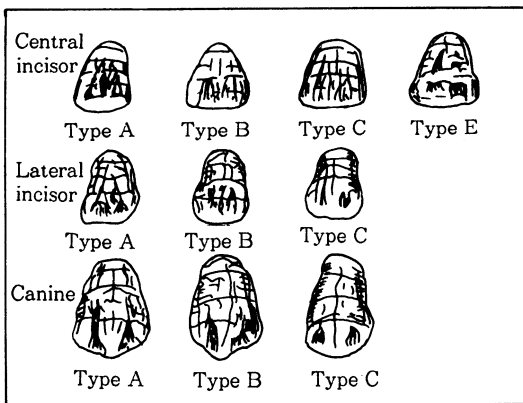
5) Surface morphology ( )

ridge groove

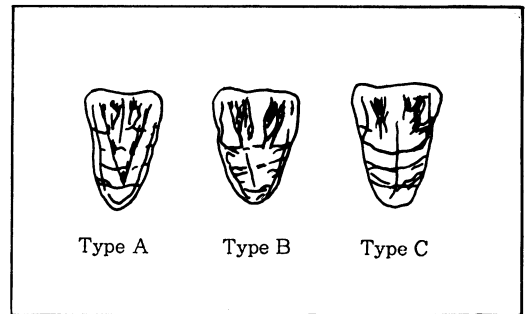
PFM

crown

가 ( 12).



11. labial surface  
가



12. labial
- Type A : Labial fossa가
  - Type B : Labial fossa가 incisal edge  
1/2
  - Type C :



### 3. 치아 형태의 시각적 효과

PFH

crown

#11, #21

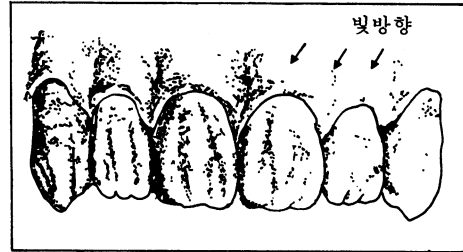
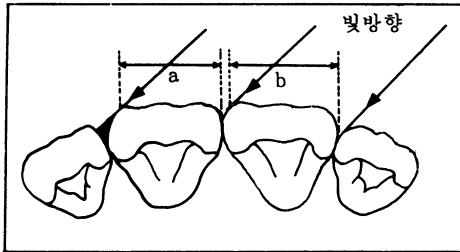
( 13).

PFM

PFM

가

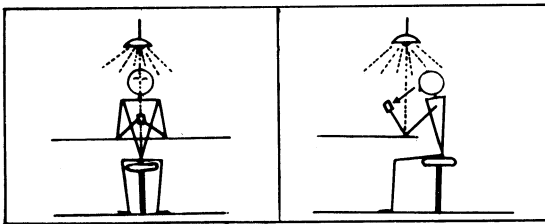
( 14).



a : proximal line angle

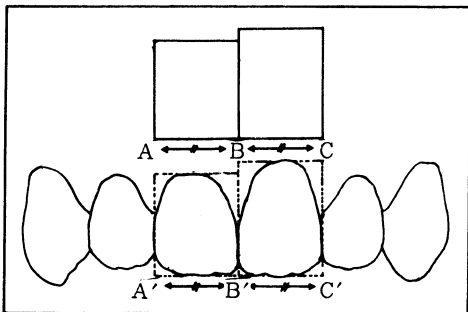
가

b : dental arch가

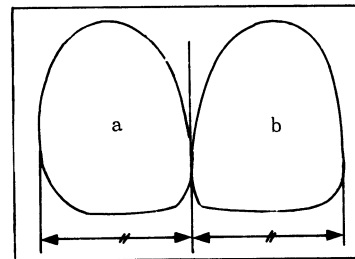


c :

13. a, b, c



a : 가 crown



b : distal

가

“a”  
가

14. a, b

### III. 결 론

가

, surface Texture  
가

가

Porcelain

PFH

가

가

Ceramo-metallic crown

impression, lip

line

### 참 고 문 헌

1. Metal-Ceramics Principles and Methods of Makoto Yamamoto.
2. Ceramo-Metal Technology, Volume 1 & 2, Masahiro Kuwata.
3. Quintessence of Dental Technology, 1990/1991.
4. The Science and Art of Dental Ceramics John W. Mclean.
5. Theory and practice for ceramo Metal Restorations/Masahiro Kuwata.