

Dental Attachment의 기본개념

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목 차

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I. 서론

19
attachment

가

attachment

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가 attachment

attachment

II. 본론

1. Function unit

- (1) Rigid(primary part)
Removable(secondary part)
- (2) Male(patrx,)
Female(matrix,)

2. 종류 및 분류(형태, 기능), 1971 Dr. Merrill Mensor

- 1) Intracoronal attachment : crown attachment(Fig. 1).

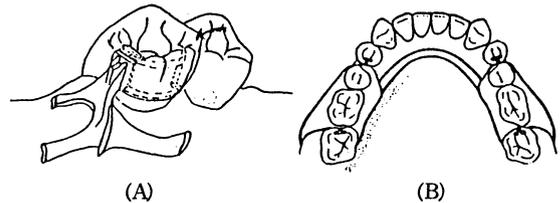


Fig 1.

- 2) Extracoronal attachment : crown attachment(Fig. 2)

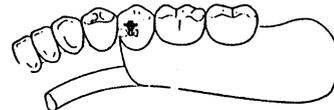


Fig 2.

- 3) stud(button) attachment : over denture attachment(Fig. 3)
- 4) Bar attachment(Fig. 3) : crown, coping, core bar attachment(Fig. 4)
- 5) Auxiliary attachment : attachment(Fig. 5)

3. Indication(적응증)

- 1) path of insertion()
- 2) removable partial deture
- 3) over denture
- 4) implant

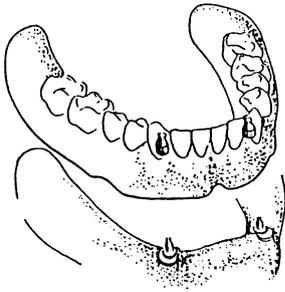


Fig 3.

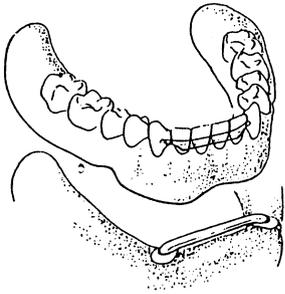


Fig 4.

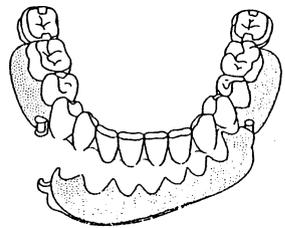
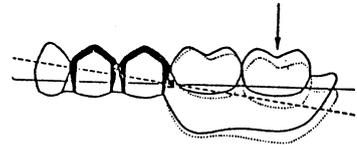
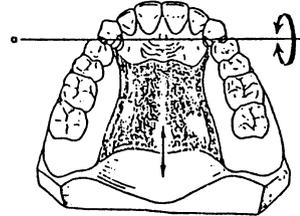


Fig 5.



(A)



(B)

Fig 7.

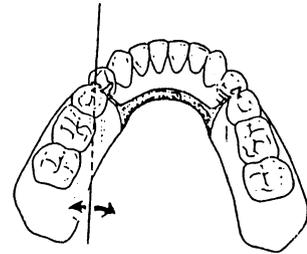


Fig 8.

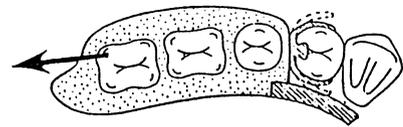


Fig 9.

4. Movement of attachment(attachment의 기본운동)

- 1) Vertical movement(fig. 6)
- 2) Hinge movement(fig. 7)
- 3) Horizontal movement(Fig. 8)
- 4) Distal movement(fig. 9)
- 5) Rotating movement(fig.10)

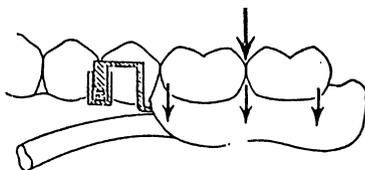


Fig 6.

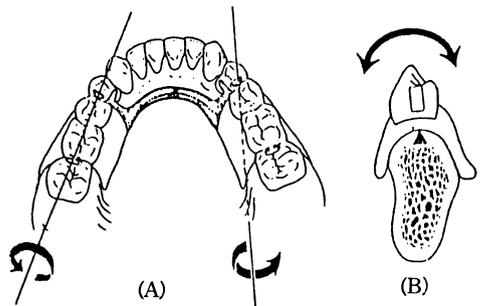


Fig 10.

5. Movement 의 목적

- 1) unbalance (abutment teeth) 가 stress saddle).
- 2) Occlusal
- 3) Denture base stabilization 가 .

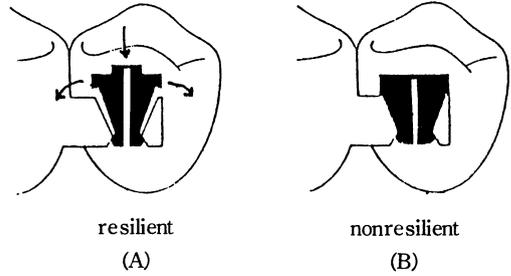


Fig 11.

6. Attachment

- < >
- 1)
- 2)
- 3) Stress breaking() free 가 attachment
- end case
- 4) Root abutment teeth 가
- 5)
- 6) Path of insertion (fixed prosthetic 가)
- 7) Occlusal 가
- 8) Bone 가 bone
- 9) Over denture

- 10) 가 가
- 11) Retention

- < >
- 1) 가 가
- 2) Intracoronal attachment abutment teeth
- 3) (가)
- 4) 가
- 5)

7. Resilient attachment or nonresilient attachment

Nonresilient attachment(fig. 11B) male female nonfunctional attachment resilient attachment attachment stress breaking() attachment(fig. 11A)

1) free end pression partial denture tissue support abutment support resilient 가 nonresilient attachment 가 Nonresilient 가 resilient attachment 가 nonresilient connector 가 attachment fixed prosthetic aутment teeth (teeth support). 2) Free end partial denture resilient attachment 0.1 ~ 0.4mm axial intrusion denture base displaceability denture base occlusal surface surface area coverage force가 가 hard & soft tissue 가



Fig 12.

3) Free end partial denture hinge action denture

base

hinge

free end partial denture

가

가

Partial

axis

rotation

가

partial

rotation

rotation stress

hinge

action

(fig. 7A)

4) attachment가

long

axis supportive tissue

vertical movement resilient attachment

hinge

vertical force가

(fig. 7A)

5) Vertical hinge function

resilient attachment

mechanical

resilience coil spring

attachment coil springs

mechanical

resilience

(1)

(2) passive position

mechanical

resilience

가

factor

(fig.7A)

(1) Introduction

(2) Frequency

(3) Intesity

(4) Duration

Liquid mucostatic

가

body fluid()

prosthetic

passive position

coil spring

6) Precision free end partial denture

nonresilient attachment

prosthesis vertical & lateral force

attachment

resilient

nonresilient attachment

가

passive

(fig.11.B).

8. Resilient type nonresilient indication

1)

resilient

attachment

functional movement

closure

tissue

compression

arch

가

free end prosthesis

resilient

attachment

(fig.7A)

2)

free end prosthesis partial denture

metal palatal coverage

, nonresilient attachment

force redirecting

function use

Mandibular support area

stability가

3) Lower free end precision partial denture

resilient

attachment가

4) free end precision partial denture
 full denture nonresilient
 attachment가
 combination full denture

9. Attachment size

Extra intracoronal attachment
 가 resilient nonresilient attachment
 가
 attachment restoration
 over contouring 가
 attachment

10. Intracoronal or extracoronal attachment의 선택

Intra extracoronal attachment
 가
 Extracoronal attachment Intracoronal
 attachment

(fig. 1).

Space가 intracoronal
 attachment over contoured
 restoration
 space가 intracoronal
 attachment Intracoronal
 attachment direct force 가

Intracoronal attachment
 space path of insertion
 (path of insertion).

Intracoronal attachment extracoronal
 attachment 가 가
 denture

11. Extracoronal attachment의 부착방법

Extracoronal attachment abutment crown
 soldering waxsk plastic female wax
 pattern casting
 female undercut

casting Female
 occlusal force 가
 casting wax 가
 casting 가
 Soldering abument crown
 porcelain
 abutment crown gold alloy
 가
 femal soldering
 extracoronal attachment
 stress
 breaking
 denture teeth space, frame design,

(fig. 13).
 A.
 B. A C
 C. (가 stress
 breaking)(:).

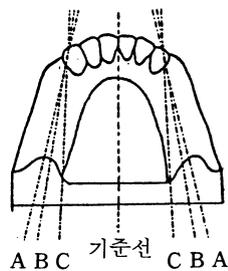
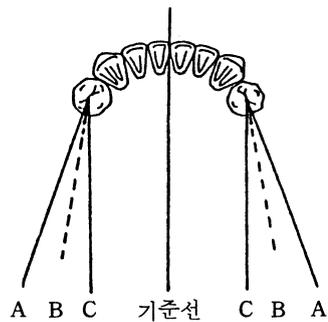


Fig 13.

15) A. Unilateral denture
 B. Bilateral free end denture
 C. Bilateral free end denture
 (fig.16) (buccal side denture teeth space lingual side)

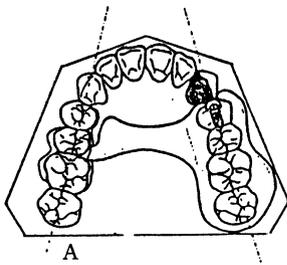


Fig 14.

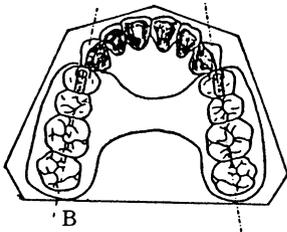


Fig 15.

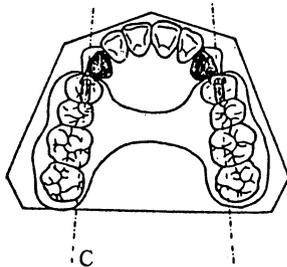


Fig 16.

12. Final attachment prosthesis design

- 1) attachment removable portion attachment oral flexibility cavity static flexibility serviceability
- 2) Partial denture framework attachment soldering welding (spring). Attachment manufacture physical property acrylic resin
- 3) Flexibility adjustment attachment acrylic cover Denture curing rubber base cover (denture curing adjustment)
- 4) attachment mechanical retention retention retention attachment mechanical retention (retention)
- 5) Attachment clasp loop (fig.12)
- 6) attachment clasp path of insertion design
- 7) Attachment partial denture P.D
- 8) impression attachment

III. 결 론

attachment가
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 attachment
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참 고 문 헌

1. Harold W. preiskel: precision attachments in prosthodontic evolume 1, Quintessence publishing Co., 1984.
2. Harold F. eissmann: Kenneth D. Rudd, Robert M. Morrow: Dental laboratory procedures, the C.V. Mosby company, 1980.
3. James L. Barker, richard J. Good kind: theory and practice of precision attachment removable partial dentures, the C.V. Mosby company, 1981.
4. H.W. preiskeli precision attachment in dentistry, the C.V. Mosby company, 1973.
5. Eugene J. Dolder, Gustav T. Durrer: the bar joint denture, Quintessence publishing Co., 1978.
6. 권혁문 : precision attachment, 신우사, 1985.