8 RPD DESIGNS

- 1. Md III, 1
- 2. Mx III, 1
- 3. Mx III
- 4. Mx II, 1
- 5. Md II, 1
- 6. Md II, 1
- 7. Md I
- 8. Mx I, 2

1. Md 111,1

MD RPD Design Worksheet

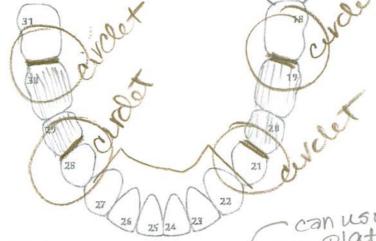
Work through steps in order suggested.

Refer to accompanying instruction for treatment of each topic.

Keter to accompanying instruction for treatment of each topic.

Use first diagram to sketch, second diagram to organize design for cast and TP.

* refers to retentive clasp assembly.



lasp assemblies by:

MESIAL REST

More vertical movement.

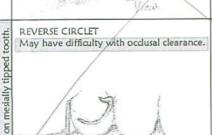
Distal plate and dasps move same

direction as occlusal load.

Distal Extension RCA choices for posterior teeth

SUPRABULGE Retentive May need to adjust survey line for shoulder. clasp Rest Unesthetic location More stress to tissue, less stress to tooth. Clasps move opposite oclussal load. Less vertical movement More esthetic than cast circlet because DISTAL REST

larger undercut places it more apically.



INFRABULGE Esthetic...

But, cannot be used if: High frena attachment Bony buccal undercut

Mucogingival defect CIV restoration

MOD T BAR

WW and infrabulge retainers originate from the denture base retention element, remotely from the proximal plate. For abutments next to a small edentulous space replacing one tooth, there may be too little room for proper placement of these dasss.

Special requirements for reciprocation elements and distal guiding plane. Physiologic adjustment.



Clinical information:

Survey:

- >Flat with floor.
- >Adjust tilt to best position for proximal surfaces of abutments.
- >Lightly mark survey lines.

Plan Design:

- >Lightly block out missing teeth.
- >Proximal plates.

2.

Classification:

- >III or V: quadrilateral RCA* distribution.
- >1: bilateral RCA distribution. rotational axis &
- >II: tripodal RCA distribution. indirect retention rest

Clasp selection (with survey & cast)

- >Existing restorations.
- >Esthetics.
- >Undercut location.
- >Mechanics of DE.

Major connector:

Bar or plate >MD:

Complete framework.

Tooth and soft tissue replacement:

- >Denture base retention
- >Tube tooth, RAP

>Denture base outline

- >Tripod study model.
- >Resurvey.
- >Design in brown on study model.
- >Mark adjustment areas in red on study model.
- >Complete TP form.

1. Md III, 1 (central incisors are missing, missing rests on premolars)

This is a demonstration model. It has been processed with the denture teeth, but instead of the traditional pink denture base, clear resin has been used to show the denture base retention inside.

- •Note the interface between the resin and the framework on both the cameo and intaglio surfaces. They meet at the internal and external finish lines.
- •Note the way the major connector, because there is no distal extension, curves up to the terminal tooth.
- •Note that the lingual denture base does not extend past the framework.





















Z. Max III,

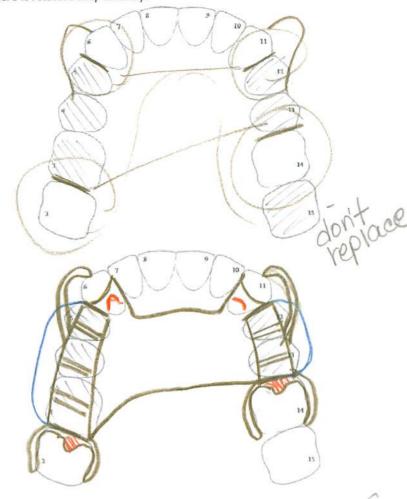
MX RPD Design Worksheet

Work through steps in order suggested.

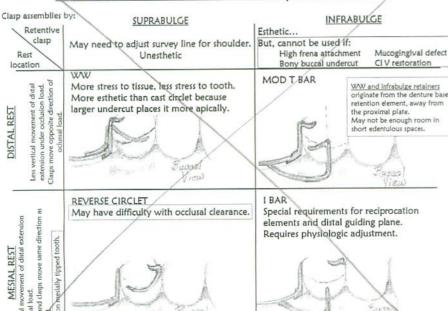
Refer to accompanying instruction for treatment of each topic.

Use first diagram to sketch, second diagram to organize design for cast and TP.

* refers to retentive clasp assembly.



Distal Extension RCA choices for posterior teeth



Clinical information:

Survey:

- >Flat with floor.
- >Adjust tilt to best position for proximal surfaces of abutments.
- >Lightly mark survey lines.

Plan Design:

1

- >Lightly block out missing teeth.
- >Proximal plates. L

2.

Classification:

- All or N: quadrilateral RCA* distribution.
- >1. bilateral RCA distribution. rotational axis &
- >II: tripodal RCA distribution, indirect retention rest

3.

Clasp selection (with survey & cast);

- >Existing restorations.
- >Esthetics.
- >Undercut location.
- >Mechanics of DE.

/1

Major connector;

>MX: Strap, AP strap, full palate, horseshoe

5.

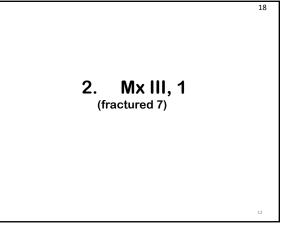
Complete framework.

6.

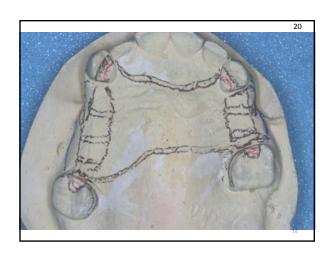
Tooth and soft tissue replacement:

- >Denture base retention
- >Tube tooth, RAP
- >Denture base outline

- >Tripod study model.
- >Resurvey.
- >Design in brown on study model.
- >Mark adjustment areas in red on study model.
- >Complete TP form.











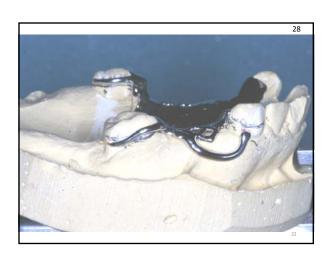






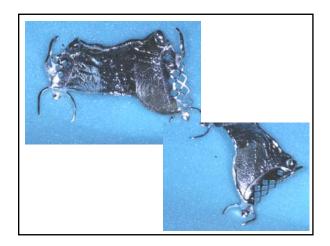






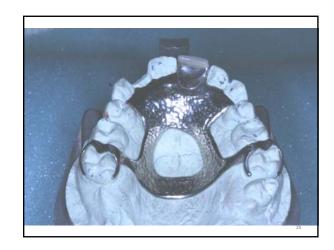




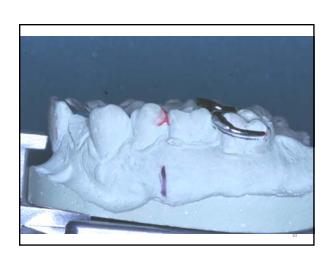




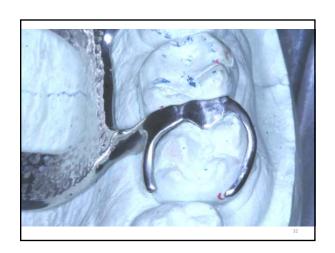
3. Mx III (missing 7)











4 Mx 11,I MX RPD Design Worksheet

Clinical information:

Work through steps in order suggested.

Refer to accompanying instruction for treatment of each topic.

Use first diagram to sketch, second diagram to organize design for cast and TP.

* refers to retentive clasp assembly.

Distal Extension RCA choices for posterior

Clasp assemblies by: SUPRABULGE Retentive Esthetic... May need to adjust survey line for shoulder. But, cannot be used if: High frena attachment Rest Unesthetic Bony buccal undercut location WW More stress to tissue, less stress to tooth. More esthetic than cast circlet because larger undercut places it more apically.

> REVERSE CIRCLET May have difficulty with occlusal clearance.

Special requirements for reciprocation elements and distal guiding plane. Requires physiologic adjustment.

INFRABULGE

Mucogingival de

CIV restoration

WW and infrabulge retainers originate from the denture ba

retention element, away from

the proximal plate. May not be enough rooi short edentulous spaces



Survey:

>Flat with floor.

Adjust tilt to best position for proximal surfaces of abutments.

Lightly mark survey lines.

Plan Design:

>Lightly block out missing teeth.

>Proximal plates.

2

Classification:

>III or IV: quadrilateral RCA* distribution.

>1: bilateral RCA distribution. rotational axis & v

>II: tripodal RCA distribution. indirect retention rest.

Clasp selection (with survey & cast):

>Existing restorations.

>Esthetics. L

>Undercut location. .

>Mechanics of DE.

Major connector:

Strap, AP strap, full palate, horseshoe

Complete framework.

Tooth and soft tissue replacement:

>Denture base retention L

>Tube tooth, RAP

>Denture base outline

Preliminary Design:

>Tripod study model.

>Resurvey.

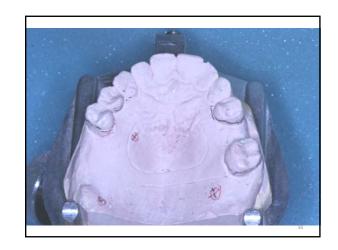
>Design in brown on study model.

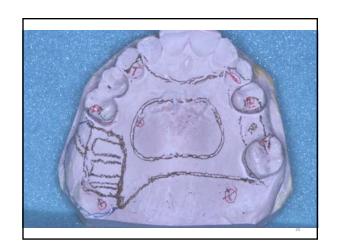
>Mark adjustment areas in red on study model.

>Complete TP form.

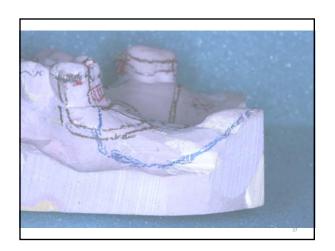


4. Mx II, 1





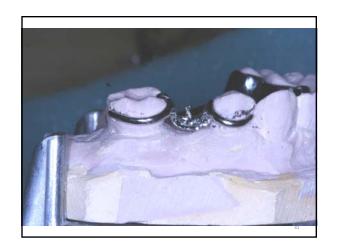


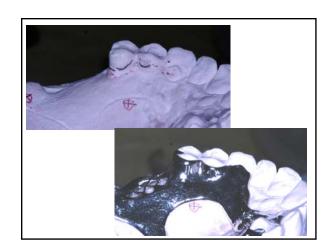




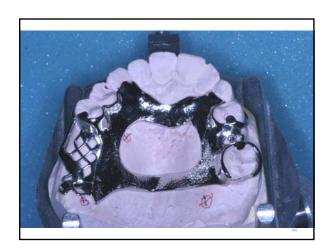


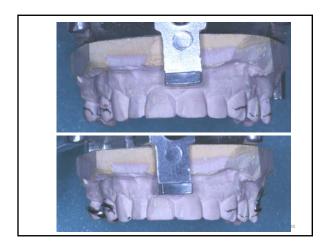












5. Md II, I

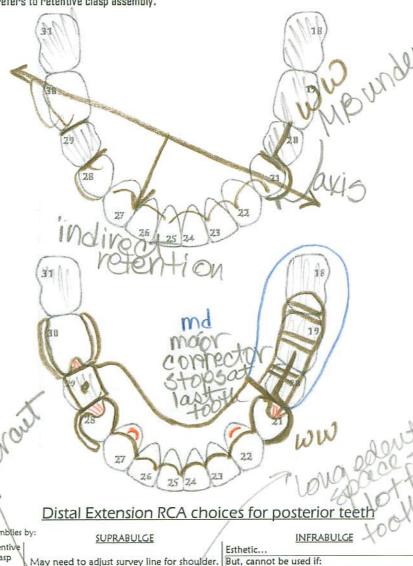
MD RPD Design Worksheet

Work through steps in order suggested.

Refer to accompanying instruction for treatment of each topic.

Use first diagram to sketch, second diagram to organize design for cast and TP.

* refers to retentive clasp assembly.



Clasp assemblies by: Retentive clasp Rest

vder occlusion load.

yposite-direction of-

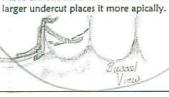
Less vertical mover extension under o Clasps move oppos

and clasps move same direction as

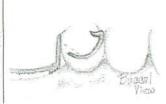
location

Unesthetic

More stress to tissue, less stress to tooth. More esthetic than cast circlet because



REVERSE CIRCLET May have difficulty with occlusal clearance.



High frena attachment Bony buccal undercut

Mucogingival defect CI V restoration

MOD T BAR

WW and infrabulge retainers originate from the denture base retention element, away from the proximal plate. May not be enough room in short edentulous spaces.



Special requirements for reciprocation elements and distal guiding plane. Requires physiologic adjustment.



Clinical information:

Survey:

- >Flat with floor.
- >Adjust tilt to best position for proximal surfaces of abutments.
- Lightly mark survey lines.

Plan Design:

- >Lightly block out missing teeth.
- >Proximal plates.

2.

Classification:

- >III or IV: quadrilateral RCA* distribution.
- >1: bilateral RCA distribution. rotational axis &
- >ll: tripodal RCA distribution, indirect retention rest

Clasp selection (with survey & cast):

- >Existing restorations.
- >Esthetics.
- >Undercut location.
- >Mechanics of DE.

Major connector:

>MD: Bar or plate

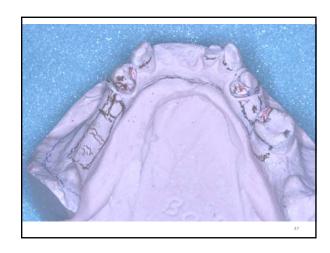
Complete framework.

Tooth and soft tissue replacement:

- >Denture base retention
- >Tube tooth, RAP
- >Denture base outline

- >Tripod study model.
- >Resurvey.
- >Design in brown on study model.
- >Mark adjustment areas in red on study model.
- >Complete TP form.

5. Md II, 1
(missing incisors)
(MO rest with WW next to distal extension is wrong, should be a DO rest)

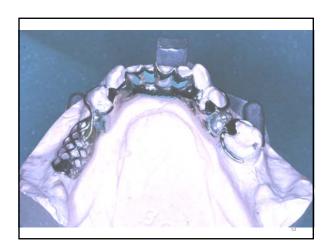






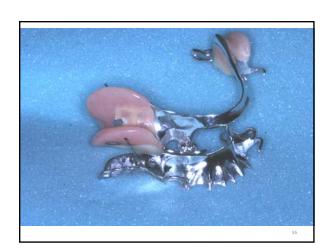
















Clinical information: MD RPD Design Worksheet Work through steps in order suggested. Refer to accompanying instruction for treatment of each topic. Survey: Use first diagram to sketch, second diagram to organize design for past and TP. >Flat with floor. * releas to retentive clasp assembly. >Adjust tilt to best position for proximal surfaces of abutments. >Lightly mark survey lines. Plan Design: >Lightly block out missing teeth. >Proximal plates. / 2. Classification: >III or IV: quadrilateral RCA* distribution. >1: bilateral RCA distribution. rotational axis & >ll: tripodal RCA distribution, indirect retention rest Clasp selection (with survey & cast): >Existing restorations. >Esthetics. >Undercut location. >Mechanics of DE. 25 Major connector: >MD: Bar or plate SUPRABULGE Esthetic.. May need to adjust survey line for shoulder. But, cannot be used if: Unesthetic High frena attachment Mucogingival defect Bony buccal undercut CI V restoration MOD T BAR More stress to tissue, less stress to tooth. Complete framework. WW and infrabulge retainers More esthetic than cast circlet because originate from the denture base retention element, away from larger undercut places it more apically. the proximal plate. May not be enough room in short edentulous spaces Tooth and soft tissue replacement: ugas >Denture base retention >Tube tooth, RAP REVERSE CIRCLET May have difficulty with occlusal clearance. Special requirements for reciprocation >Denture base outline elements and distal guiding plane. Requires physiologic adjustment. Preliminary Design: >Tripod study model.

>Resurvey.

>Complete TP form.

Bucas.

View

>Design in brown on study model.

>Mark adjustment areas in red on study model.

Clasp assemblies by:

Retentive

clasp

vertical movement of distal ension under occlusion load. is move opposite direction of octussal foad.

Less vertica extension u Clasps move

vertical movement of distal extension occlusal load.
plate and clasps move same direction as

MESIAL REST

Rest

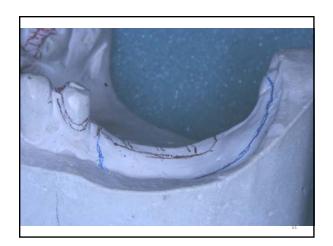
location

DISTAL REST

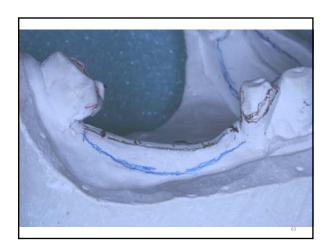
6. Md II, 1





















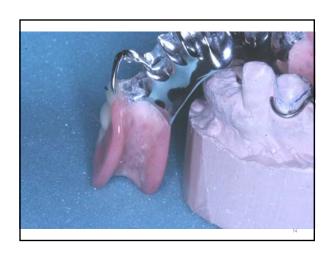














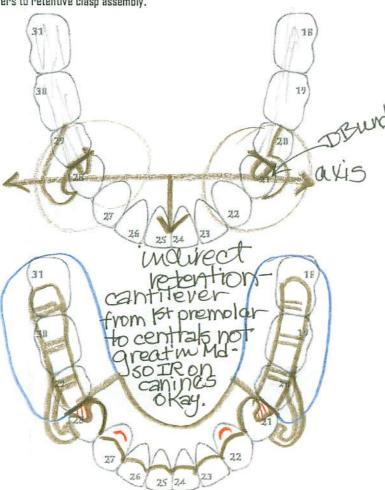
7. Md KI MD RPD Design Worksheet

Work through steps in order suggested.

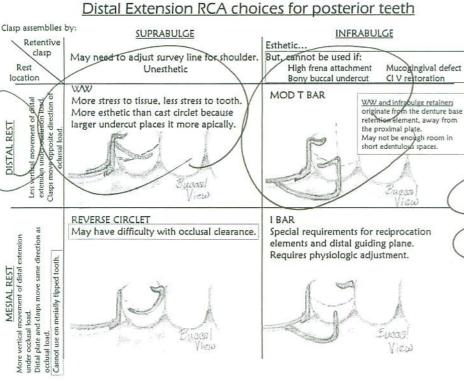
Refer to accompanying instruction for treatment of each topic.

Use first diagram to sketch, second diagram to organize design for cast and TP.

* refers to retentive clasp assembly.



Distal Extension RCA choices for posterior teeth



Clinical information:

Survey:

- >Flat with floor.
- >Adjust tilt to best position for proximal surfaces of abutments.
- >Lightly mark survey lines.

Plan Design:

- >Lightly block out missing teeth.
- >Proximal plates. _

Classification:

- اللحا or IV: quadrilateral RCA* distribution.
- >1: bilateral RCA distribution. rotational axis &
- ा: tripodal RCA distribution. indirect retention rest

Clasp selection (with survey & cast):

- >Existing restorations.
- >Esthetics.
- >Undercut location.
- >Mechanics of DE. ~

if abudment

Major connector;

>MD:

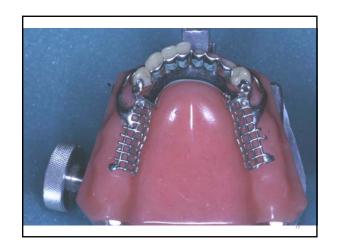
Comolete framework.

Tooth and soft tissue replacement:

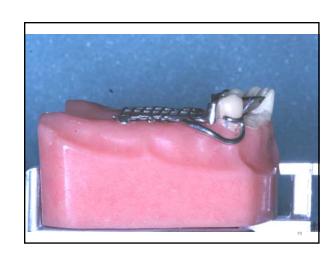
- >Denture base retention-
- >Tube tooth, RAP
- >Denture base outline —

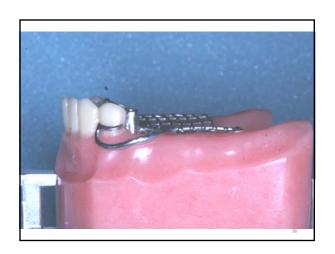
- >Tripod study model.
- >Resurvey.
- >Design in brown on study model.
- >Mark adjustment areas in red on study model.
- >Complete TP form.

7. Md I (missing incisors)

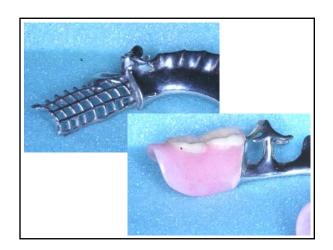


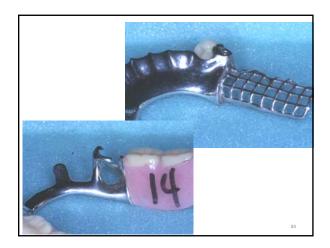


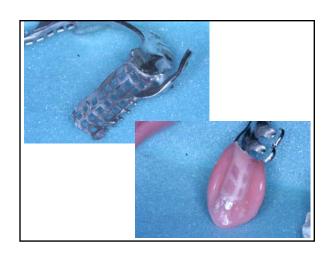














8. Mx KIZ

MX RPD Design Worksheet

Work through steps in order suggested.

Refer to accompanying instruction for treatment of each topic.

Use first diagram to sketch, second diagram to organize design for cast and TP. * refers to retentive clasp assembly.



Distal Extension RCA choices for posterior teeth

Clasp assemblies by: **INFRABULGE** SUPRABULGE Retentive Esthetic... clasp But, cannot be used if: May need to adjust survey line for shoulder. Rest Unesthetic High frena attachment Mucogingival defect location CIV restoration Bony buccal undercut More stress to tissue, less stress to tooth. WW and infrabulge retainers originate from the denture base retention element, away from More esthetic than cast circlet because arger undercut places it more apically. the proximal plate. May not be enough room in short edentulous spaces. REVERSE CIRCLET May have difficulty with occlusal clearance. Special requirements for reciprocation and clasps move same direction as elements and distal guiding plane. Requires physiologic adjustment. mesially tipped tooth. View

Clinical information:

Survey:

- >Flat with floor.
- >Adjust tilt to best position for proximal surfaces of abutments.
- >Lightly mark survey lines.

Plan Design:

- >Lightly block out missing teeth.
- >Proximal plates.

7.

Classification:

- ≥lll or IV: quadrilateral RCA* distribution.
- .>I: bilateral RCA distribution. | rotational axis &
- >II: tripodal RCA distribution. indirect retention rest 4

Clasp selection (with survey & gast):

>Existing restorations

>Esthetics.

>Undercut location.

>Mechanics of DE.

Major connector;

Strap, AP strap, full palate horseshoe >MX:

Complete framework.

Tooth and soft tissue replacement:

>Denture base retention

- > Tube tooth, RAD
- Denture base outline

- >Tripod study model.
- >Resurvey.
- >Design in brown on study model.
- >Mark adjustment areas in red on study model.
- >Complete TP form.



