Definitions and Terminology in RPD

ขอขอบคุณ

Lecture by

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Why we should know the definitions and terminology?

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Standard nomenclatures

"Uniform terminology"



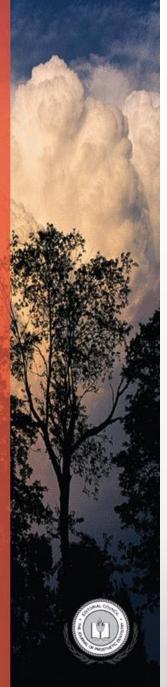


JPD

THE JOURNAL OF PROSTHETIC DENTISTRY

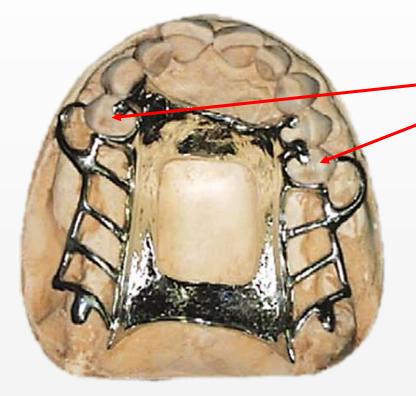
THE GLOSSARY OF PROSTHODONTIC TERMS

Ninth Edition GPT-9



The Glossary of Prosthodontic Terms 9th Edition



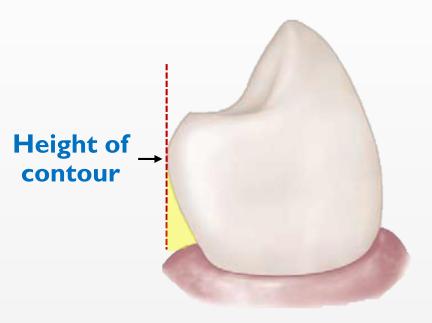


Abutment

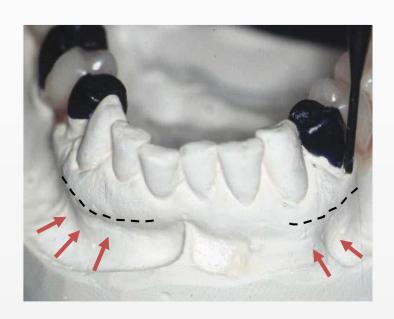
- I. That part of a structure that directly receives thrust or pressure; an anchorage.
- 2. A tooth, a portion of a tooth, or that portion of a dental implant that serves to support and/or retain a prosthesis.

- Abutment ฟันหลัก คือฟันที่ใช้ในการรองรับแรงหรือยึดเกาะฟันปลอม
 - Primary Abutment คือ ฟันหลักที่ใช้ทั้งในการรองรับแรงและยึดเกาะ ฟันปลอม
 - Secondary Abutment คือ ฟันหลัก ฟันที่ใช้ในการรองรับแรงหรือยืด
 เกาะฟันปลอมเพียงอย่างเดียว

Undercut



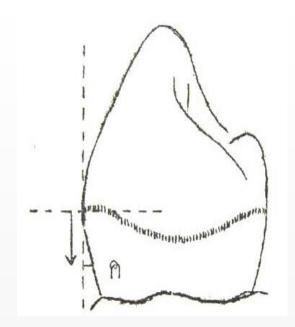
I. The portion of the surface of an object that is below the height of contour in relationship to the path of placement.

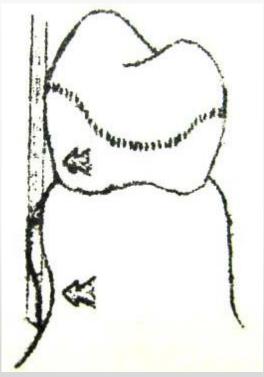


2. The contour of a cross-sectional portion of a residual ridge or dental arch that prevents the insertion of a dental prosthesis.

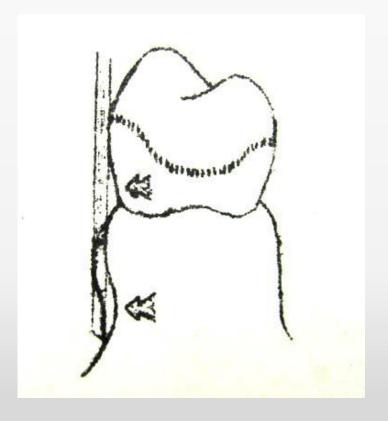
Terminology

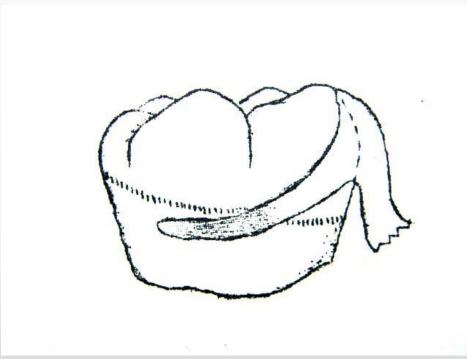
- Undercut area บริเวณความคอด
 - °Desirable undercut area บริเวณ คอดที่มีประโยชน์ ใช้ในการยึด เกาะฟันปลอม
 - °Undesirable undercut area บริเวณ คอดที่ไม่มีประโยชน์ กีดขวางการ ใส่ฟันปลอม



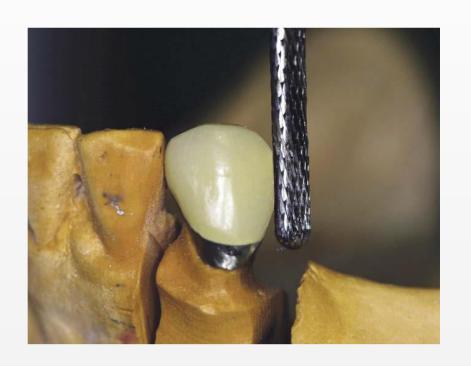


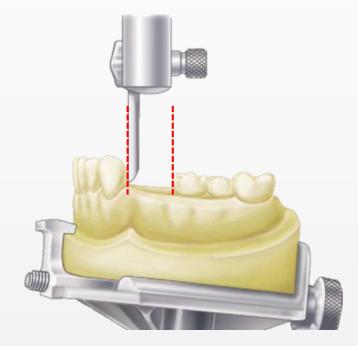
• Non-undercut area บริเวณที่ไม่มีความคอด





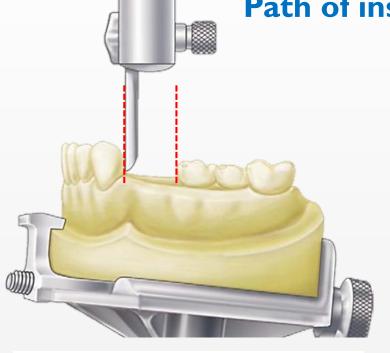
Guiding plane



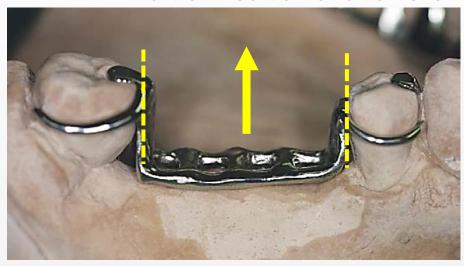


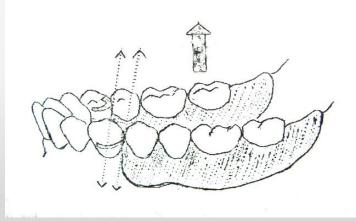
Two or more vertically parallel surfaces on abutment teeth and/or fixed dental prostheses oriented so as to contribute to the direction of the path of placement and removal of a removable partial denture, maxillofacial prosthesis, and overdenture.











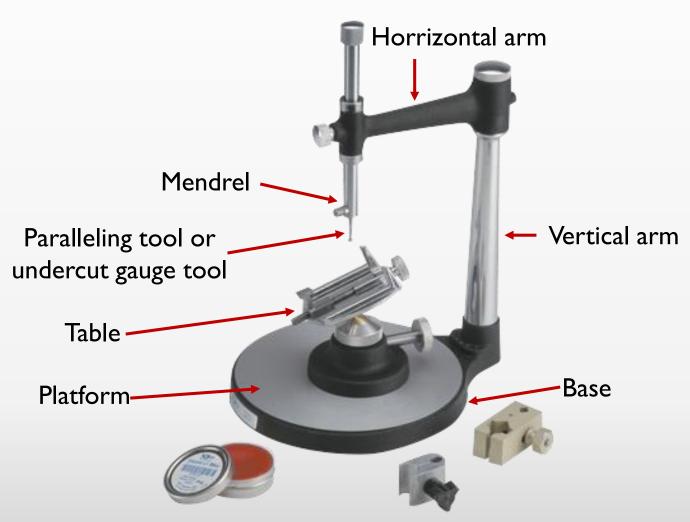
The specific direction in which a prosthesis is placed on the residual alveolar ridge, abutment teeth, dental implant abutment(s), or attachments.

Surveyor

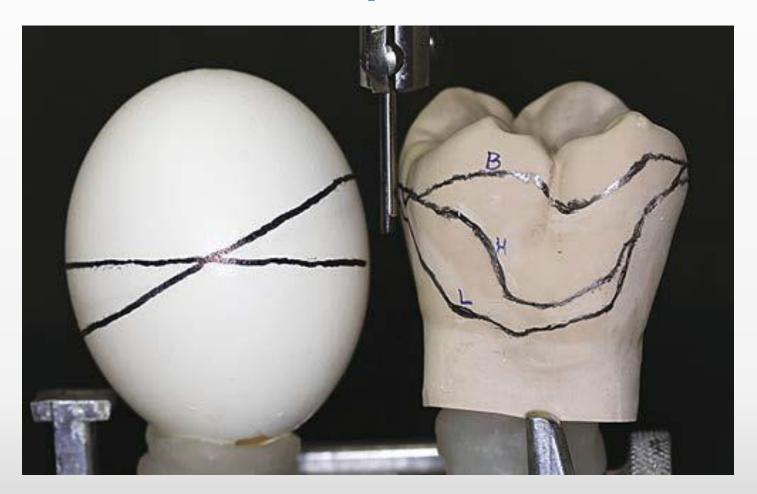


a paralleling instrument used in making a dental prosthesis to locate and delineate the contours and relative positions of abutment teeth and associated structures

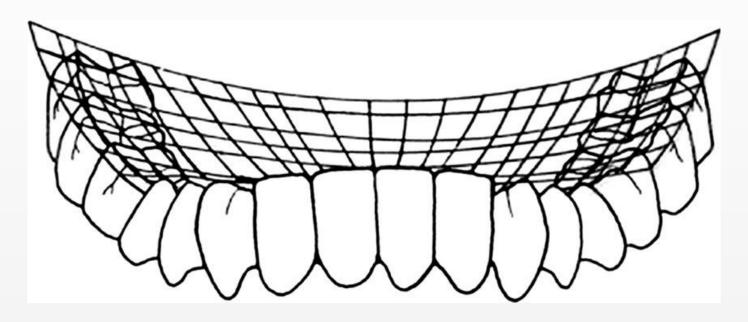
Surveyor



Survey line

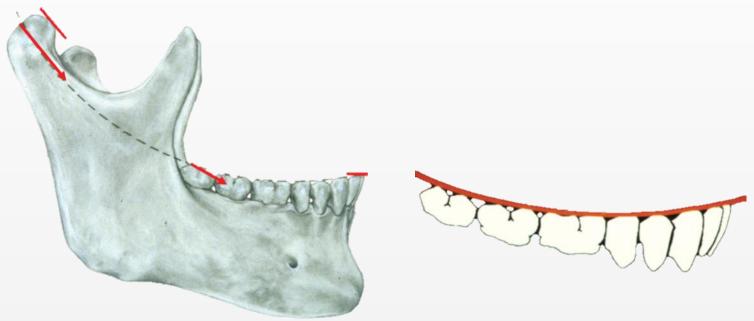


Occlusal Plane



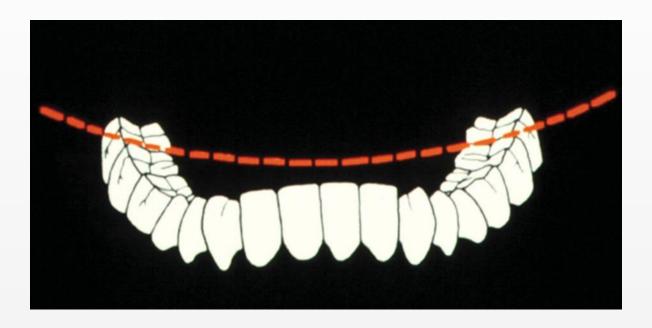
- I. The average plane established by the incisal and occlusal surfaces of the teeth; generally, it is not a plane but represents the planar mean of the curvature of these surfaces.
- 2. The surface of wax occlusion rims contoured to guide in the arrangement of denture teeth.
- 3.A flat or curved template used in arranging denture teeth.

Anteroposterior curve (Curve of Spee)



The anatomic curve established by the occlusal alignment of the teeth, as projected onto the median plane, beginning with the cusp tip of the mandibular canine and following the buccal cusp tips of the premolar and molar teeth, continuing through the anterior border of the mandibular ramus, ending with the anterior most portion of the mandibular condyle.

Occlusal Plane

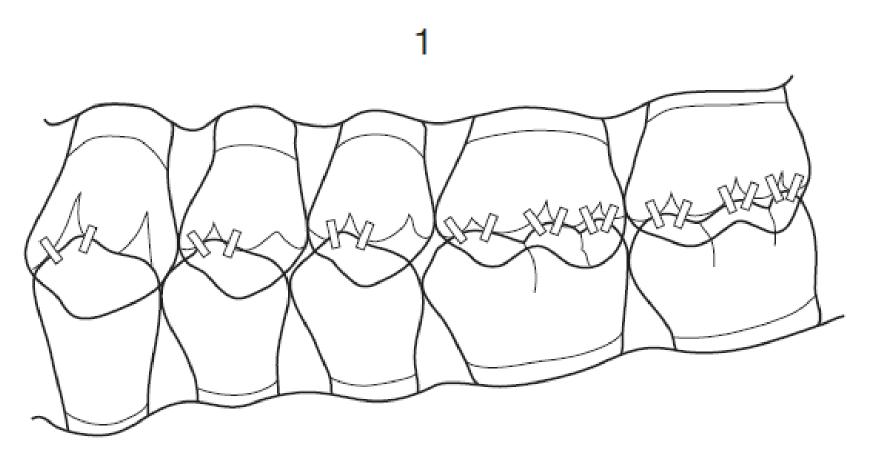


- I. In the mandibular arch, that curve (viewed in the frontal plane), which is concave and contacts the buccal and lingual cusp tips of the mandibular molars; in the maxillary arch, that curve (viewed in the frontal plane), which is convex and contacts the buccal and lingual cusp tips of the maxillary molars.
- 2. In the theory that occlusion should be spherical, the curvature of the cusps as projected on the frontal plane expressed in both arches; the curve in the mandibular arch being concave and the one in the maxillary arch being convex.

Jaw Relation Terminology

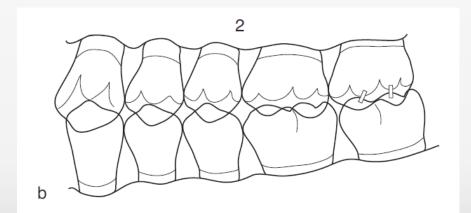
Terminology in RPD

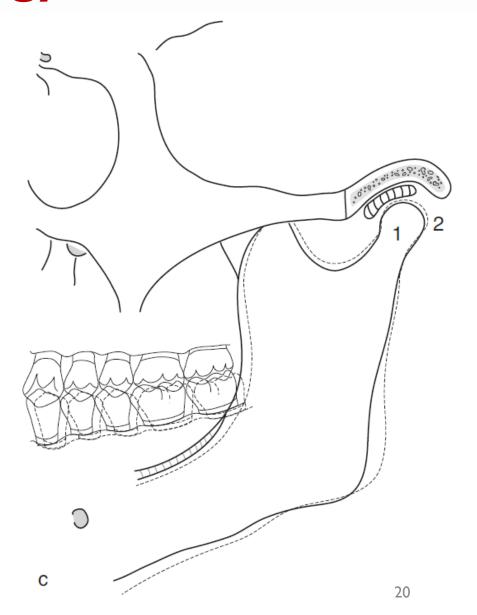
Maximum intercuspation



Terminology in RPD

Centric occlusion





การแบ่งชนิดของRPD

- •แบ่งตามสิ่งที่ใช้รองรับแรง (Support)
 - Tooth support RPD (Tooth-borne)
 - Tissue support RPD (Tissue-borne)
 - Tooth and tissue support (Tooth and tissue borne)

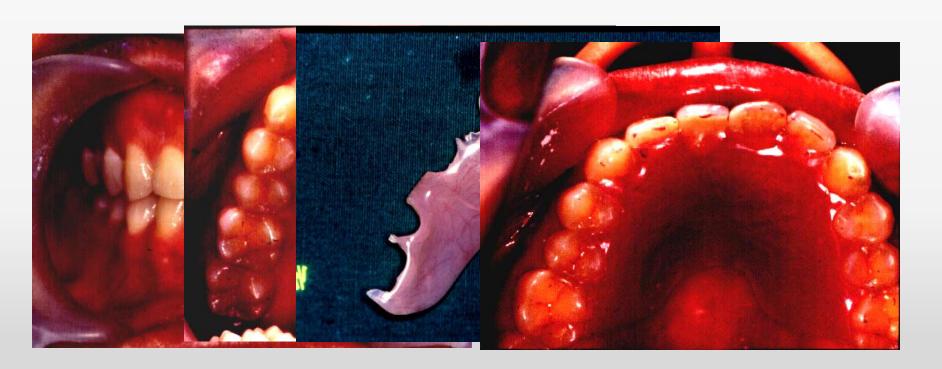


Tooth-supported RPD

A removable dental prosthesis base that restores an edentulous region that has abutment teeth at each end for support. The tissue that it covers is not used for primary support.

- •แบ่งตามสิ่งที่ใช้รองรับแรง (Support)
- Tissue support RPD (Tissue-borne)

ฟันปลอมบางส่วนถอดได้ที่มีเฉพาะสันเหงือกและ เนื้อเยื่อเป็นสิ่งรองรับแรงจากการบดเคี้ยว เช่น Temporary plate





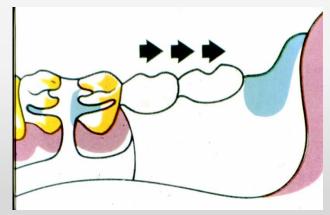


Tooth and tissue support

Extension-base RPD(Bilateral)

A removable partial denture that is supported and retained by natural teeth anterior to the denture base and in which a portion of the functional force vector of the base is carried by the residual ridge.

Distal extension RPD Free end saddle





Extension-base RPD(Unilateral)

A removable partial denture that is supported and retained by natural teeth anterior to the denture base and in which a portion of the functional force vector of the base is carried by the residual ridge.

การแบ่งชนิดของRPD

- แบ่งตามวัสดุที่ใช้ทำฐานฟันปลอม
 - ชนิดฐานโลหะ (Metal or Skeleton RPD)
 - RPD (Cr-Co), Stainless steel, Gold alloys
 - ชนิดฐานอคริลิก (Acrylic RPD)
 - APD, TP(Temporary plate),
 - TP with wrought wire clasp

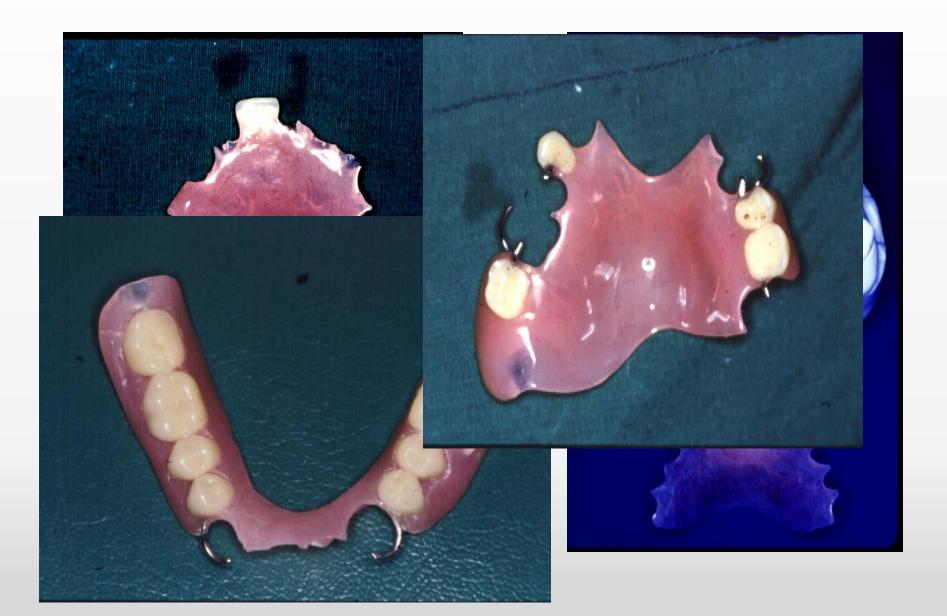
RPDชนิดฐานโลหะ (Metal or Skeleton RPD) RPD (Cr-Co)



RPD ชนิดฐานอคริลิก (Acrylic RPD)

- APD, TP(Temporary plate)
 - พันปลอมฐานอคริลิก หรือพันปลอมชนิดใส่ ชั่วคราว
- TP with wrought wire clasp
 - ฟันปลอมชนิดใส่ชั่วคราว มีส่วนช่วยยึดเกาะ
 เป็นตะขอลวดดัด

RPD ชนิดฐานอคริลิก (Acrylic RPD)



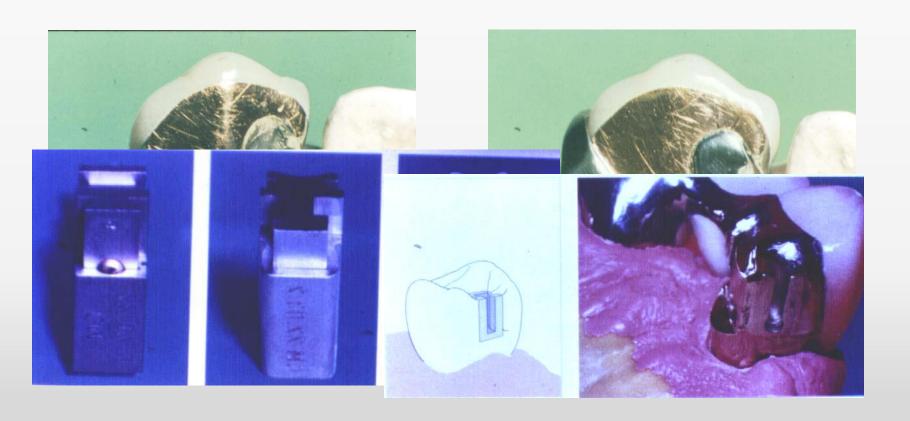
การแบ่งชนิดของRPD

- แบ่งตามการยึดอยู่กับฟันธรรมชาติ
 - Extracoronal RPD ใช้ตะขอเป็นสิ่งยึดอยู่ กับผิวฟัน
 - Intracoronal RPD ใช้สลักบนฟันปลอมและ ร่องยึดในตัวฟัน(Attachment)

- แบ่งตามการยึดอยู่กับฟันธรรมชาติ
- Extracoronal RPD ใช้ตะขอเป็นสิ่งยึด อยู่กับผิวฟัน



- แบ่งตามการยึดอยู่กับฟันธรรมชาติ
 - Intracoronal RPD ใช้สลักบนฟันปลอม และร่องยึดในตัวฟัน (Attachment)



Interim removable partial denture





A removable dental prosthesis, designed to enhance esthetics, stabilization, and/or function for a limited period of time, after which it is to be replaced by a definitive dental prosthesis; often such prostheses are used to assist in determination of the therapeutic effectiveness of a specific treatment plan or the form and function of the planned for definitive prosthesis.

Transitional denture





A removable partial denture serving as an interim prosthesis to which artificial teeth will be added as natural teeth are lost and that will be replaced after post-extraction tissue changes have occurred; a removable transitional denture may become an interim complete removable prosthesis when all of the natural teeth in the dental arch have been extracted (or used as overdenture abutments).

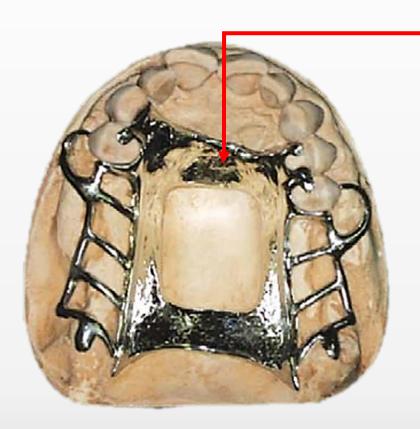
Treatment denture





- I. A removable denture used for the purpose of treating or conditioning the tissues that are called on to support and retain it.
- 2. A denture that is placed in preparation for future therapy.

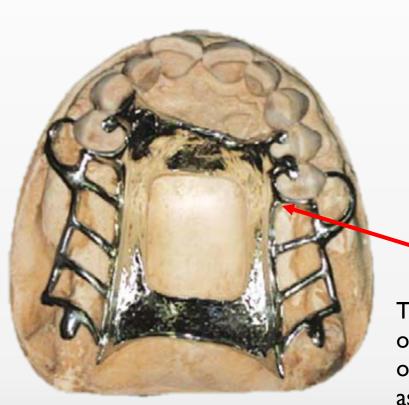
Component Parts Terminology

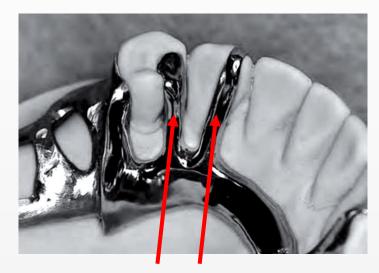


Major connector



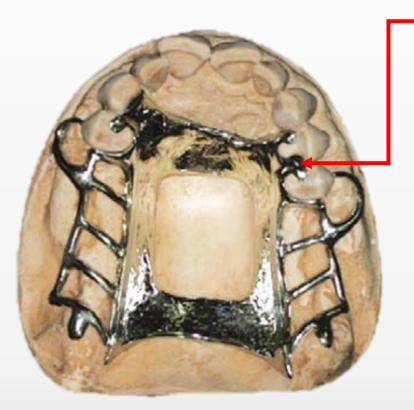
The part of a removable partial denture that joins the components on one side of the arch to those on the opposite side.





Minor connector

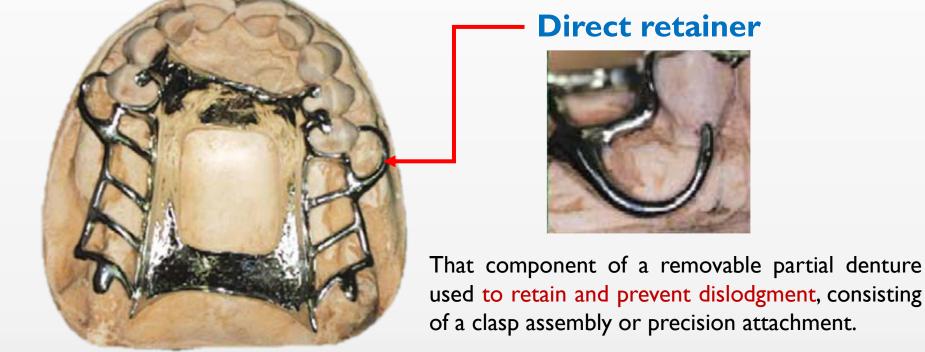
The connecting link between the major connector or base of a removable partial denture and the other units of the prosthesis, such as the clasp assembly, indirect retainers, occlusal rests, or cingulum rests.

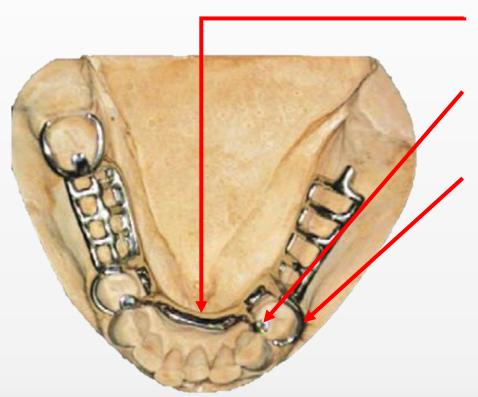


Occlusal rest



A rigid extension of a removable partial denture that contacts the occlusal surface of a tooth or restoration, the occlusal surface of which is commonly prepared to receive this rest.





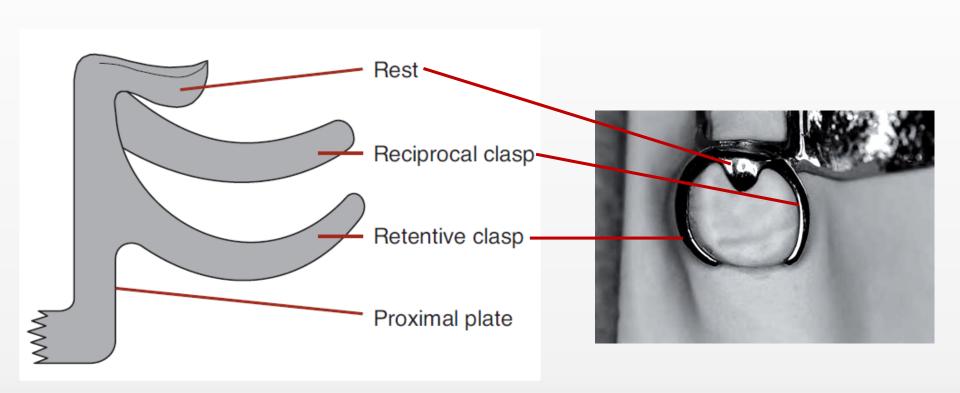
Major connector

Occlusal rest

Direct retainer



Direct retainer



 Clasp ตะขอ คือส่วนที่ฟันปลอม ใช้ในการ ยึดอยู่กับฟันหลักเพื่อให้ฟันปลอมอยู่ในช่อง ปาก



• Retention การยึดอยู่ เป็นสิ่งที่ยึดเกาะฟัน ปลอมให้อยู่ในช่องปาก มักจะได้จากตะขอที่ ยึดอยู่ใต้ความคอดที่มีประโยชน์



Suprabulge clasp



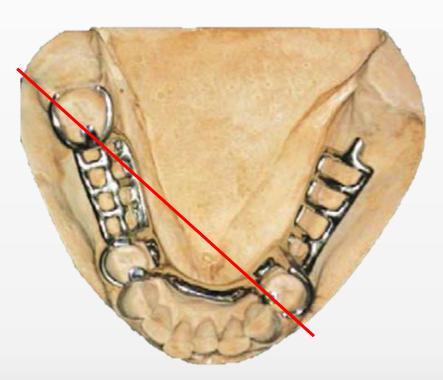
Infrabulge clasp



Intracoronal retainer (Attachment)

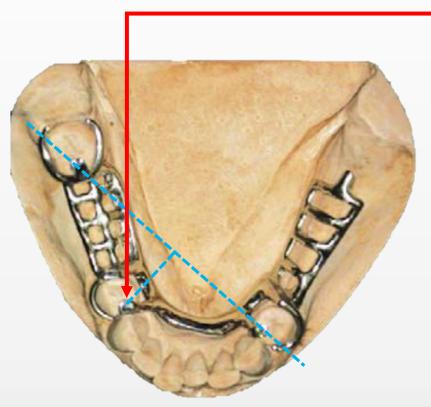






Fulcrum line

- I. A theoretical line passing through the point around which a lever functions and at right angles to its path of movement.
- 2. An imaginary line, connecting occlusal rests, around which a removable partial denture tends to rotate under masticatory forces; the determinants for the fulcrum line are usually the cross-arch occlusal rests on the most distally located abutments.



Indirect retainer

The component of a removable partial denture that assists the direct retainer(s) in preventing displacement of the distal-extension denture base by functioning through lever action on the opposite side of the fulcrum line when the denture base attempts to move away from the tissues in pure rotation around the fulcrum line.





Cross-arch stabilization

Resistance against dislodging or rotational forces obtained by using a fixed or removable partial denture design that uses natural teeth on the opposite side of the dental arch from the edentulous space to assist in stabilization.

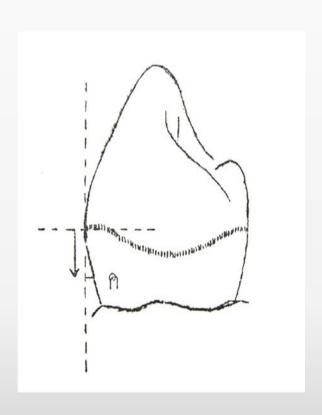
Denture Base







• Block-out การปิดความคอดที่ไม่ต้องการ





- Block-out การปิดความคอดที่ไม่ต้องการ
 - °Parallel block-out ทำให้เกิดความขนานตาม แนวทางการถอดใส่
 - Ledge block-out (Shelf block-out) กำหนดแนว การวางตัวของฟันปลอม
 - °Arbitrary block-out ปิดความคอดอื่น ๆที่ไม่ เกี่ยวข้องเพื่อความสะดวกในการทำงาน

• Block-out การปิดความคอดที่ไม่ต้องการ



• Relieve, Relief การป้องกันการกดเนื้อเยื่อ หรือทำให้เกิดพื้นที่ว่างปลอดการกด



- Cast or Model แบบจำลอง
 - Study cast แบบศึกษา
 - Master cast แบบหลัก
 - Refractory cast, Investment cast แบบทน
 ไฟ

Cast or Model แบบจำลอง



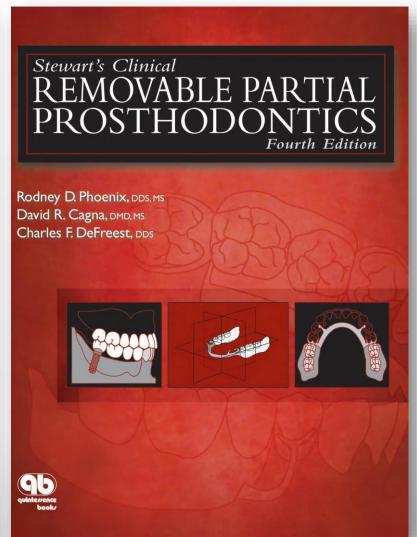
Reference

Thirteenth Edition

McCracken's

REMOVABLE PARTIAL PROSTHODONTICS





Thank you for your attention