

UiT

NORGES
ARKTISKE
UNIVERSITET

Pasienten med helt tannløs kjeve, metoder og materialer – Del 2

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Institutt for klinisk odontologi
Universitetet i Tromsø*



KLINISKE RUTINER

1. Forbehandling

2. Primæravtrykk

Modellfremstilling

Individuell avtrykksskje

3. Sekundæravtrykk

Sekundærmodell

Prøveplater med bittvoll

4. Kjeveregistrering & valg av tenner

Montering i artikulator

5. Klinisk kontroll I (tennene i voks)

6. Klinisk kontroll II (overkjeveprotesen ferdig)

(6b Klinisk kontroll III (begge protesene ferdig))

7. Sluttkontroll

8. Etterkontroll

LABORATORIET: ARBEIDSMODELL & PRØVEPLATE MED VOKSVOLL



Lab: Prøveplate-fremstilling

DETTE TRENGER MAN FOR Å GJENNOMFØRE BEHANDLINGSPROSEDYREN -

- ▶ Rød platevoks (**Tenax**)
- ▶ Vokskniv
- ▶ Carbolite SafeAir varmluftblåser
- ▶ Selvpolymeriserende eller lysherdende akrylat (**Palatray**)
- ▶ Rett håndstykke
- ▶ Akrylatfresere

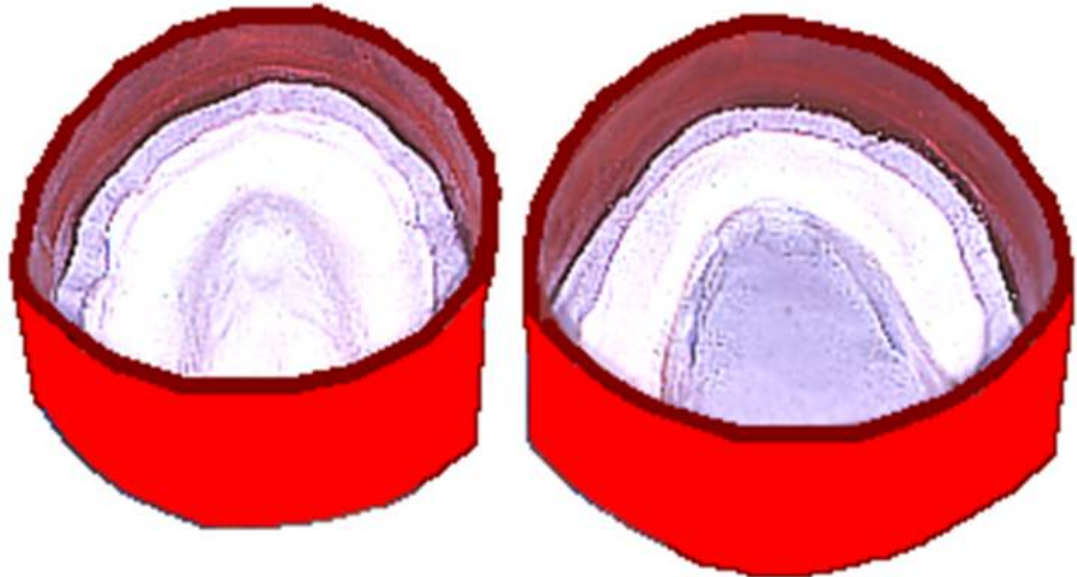




ISO Standarder

1. Soft lining materials for removable dentures (ISO10139)
2. Dental alginate impression material (ISO1563)
3. Dental gypsum products (ISO06873)
4. Elastomeric impression materials (ISO04823)
5. Casting and baseplate waxes (ISO15854)

Periferivoks* + rød Tenax platevoks



https://www.youtube.com/watch?v=_fO6cbp7OJU

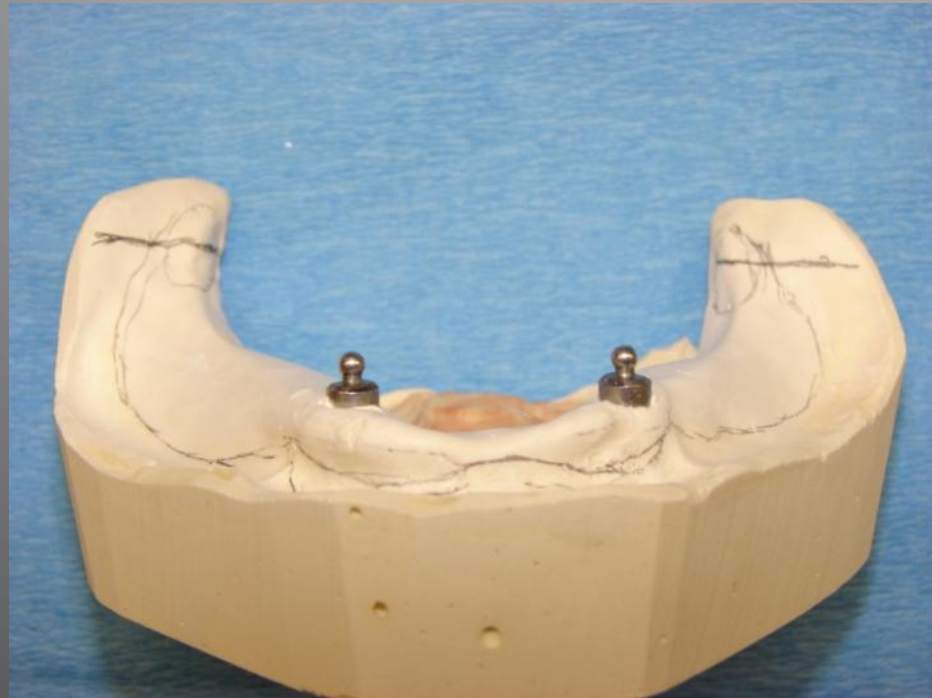
OBS!
3mm bred kant perifert



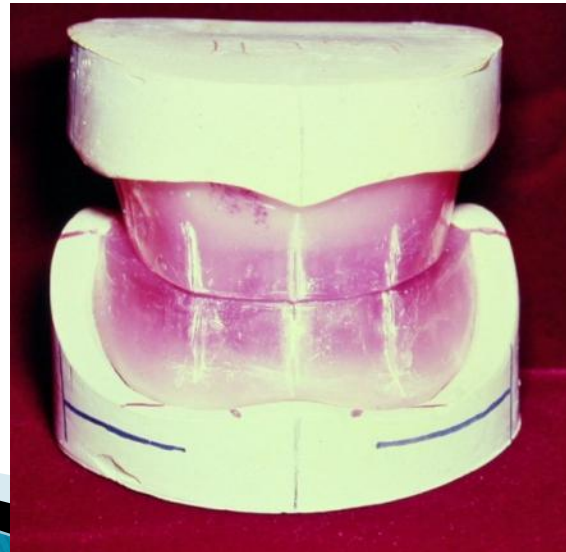
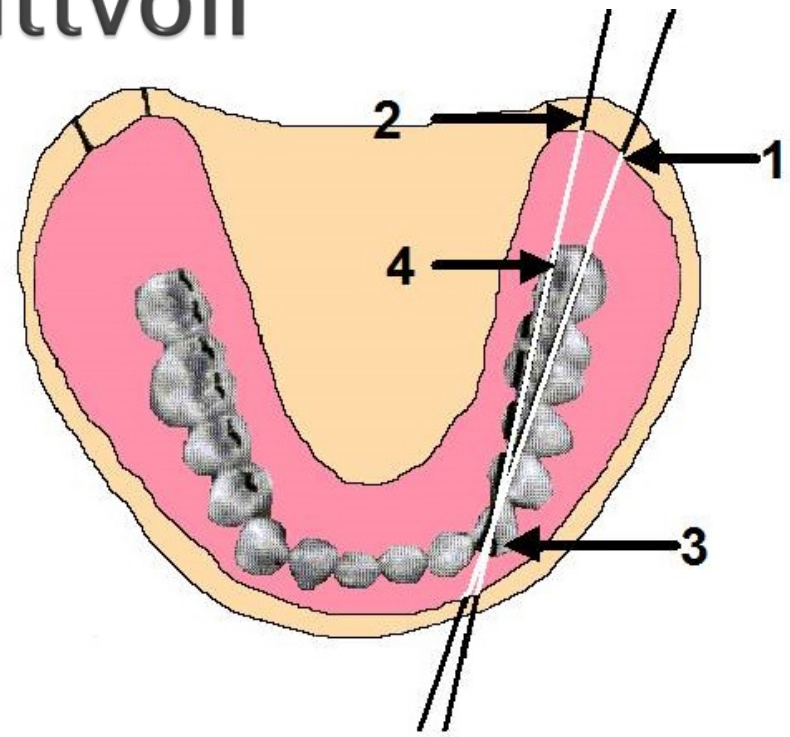
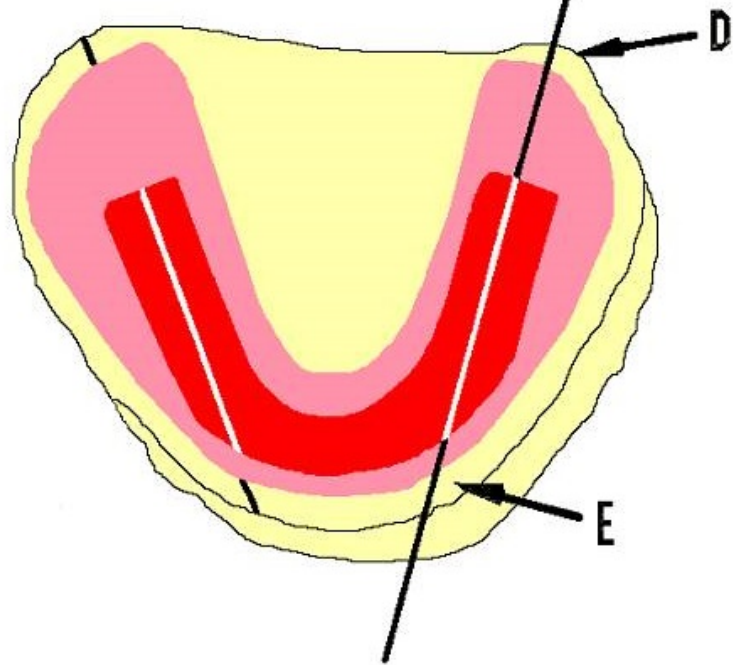
*AKA
«boxing wax strip»
«rød vokstråd» & «boxing wax»



Implantatdeler & avtrykk



Prøveplate med bittvoll



Video fra THE OHIO STATE UNIVERSITY

- ▶ Fremstilling av prøveplater – overkjeven



https://www.youtube.com/watch?v=_Wp9pRqx4Sw

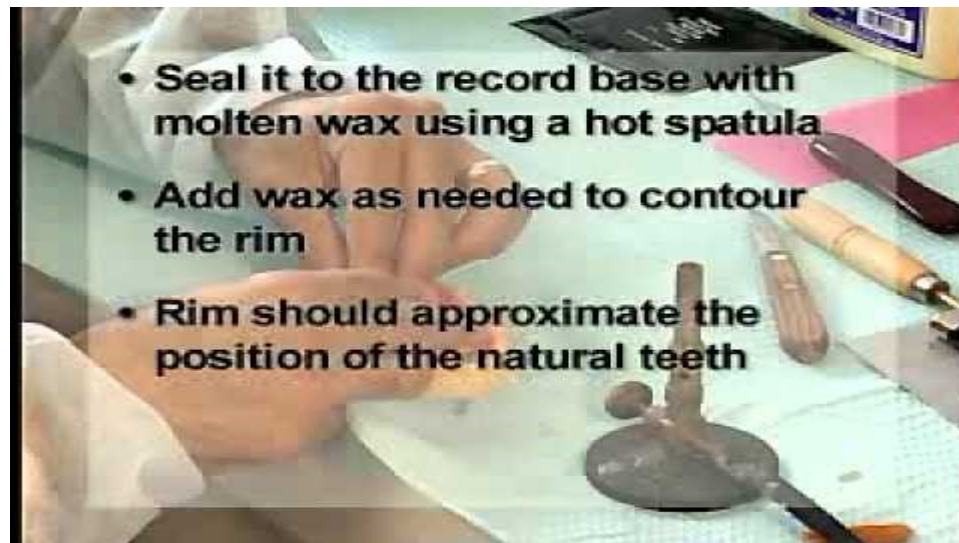
underkjeven:



<https://www.youtube.com/watch?v=1T5ElpTMbME>

Video fra THE OHIO STATE UNIVERSITY

- ▶ Fremstilling av bittvoll – overkjeven



<https://www.youtube.com/watch?v=aqGS7WtU6ZM>

underkjeven:



<https://www.youtube.com/watch?v=eEr9aFpY-Vw>

4. KLINIKKBESØK MAXILLO-MANDIBULÆR KJEVEREGISTRERING

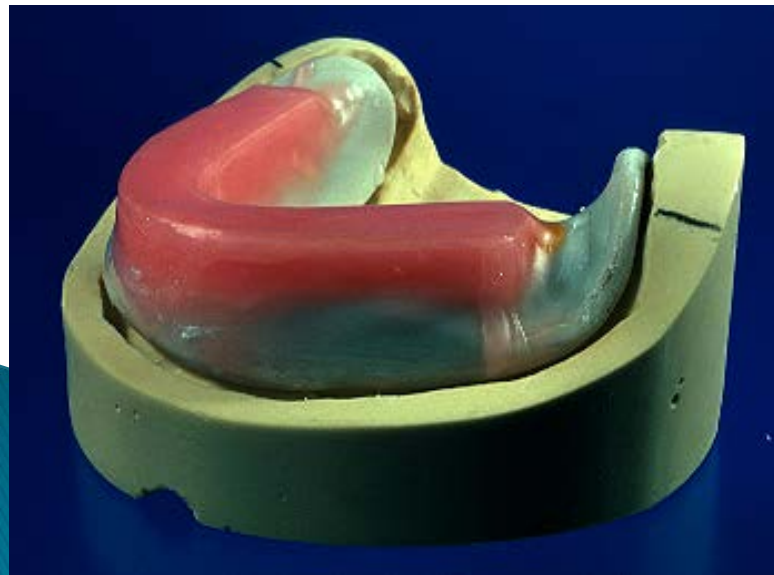
» & valg av tenner

4. Kliniske besøk: Kjeveregistrering

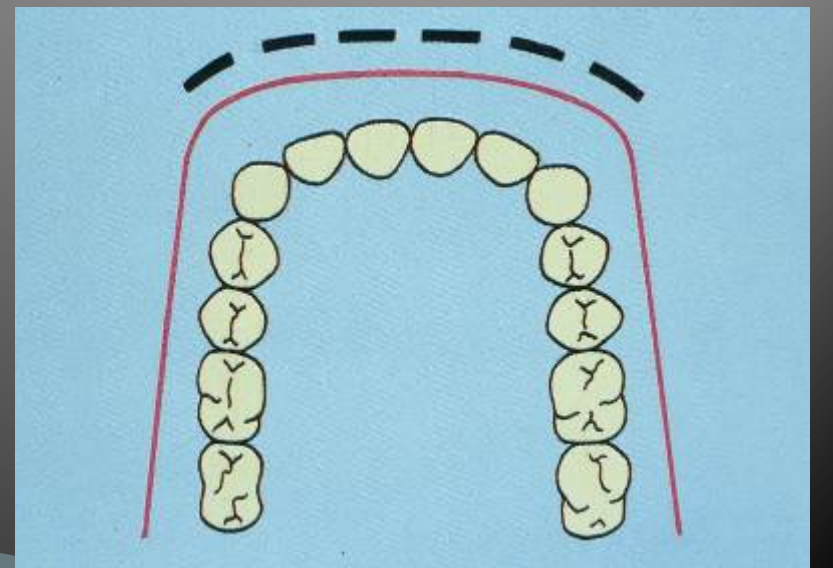
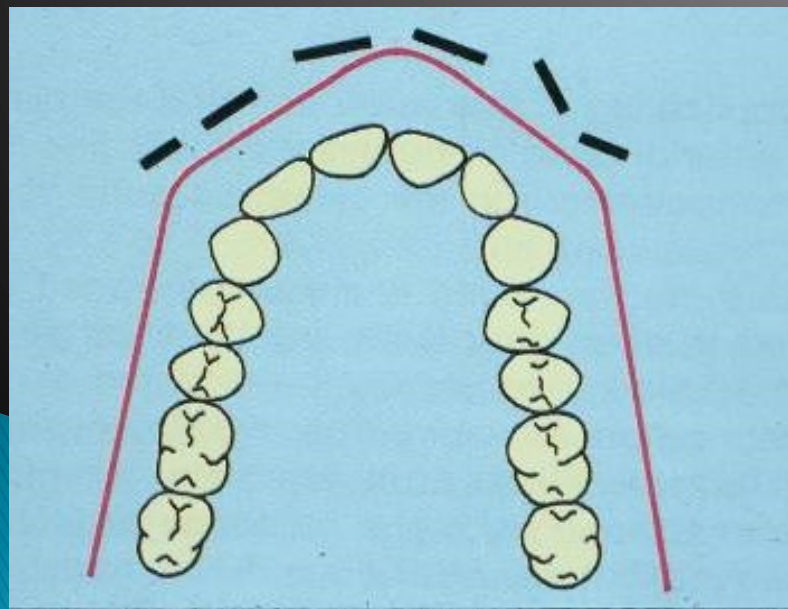
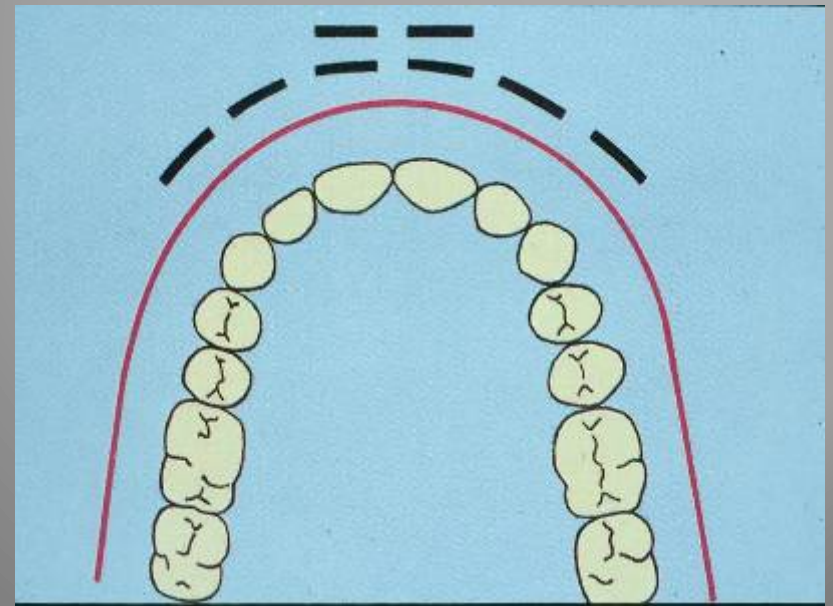
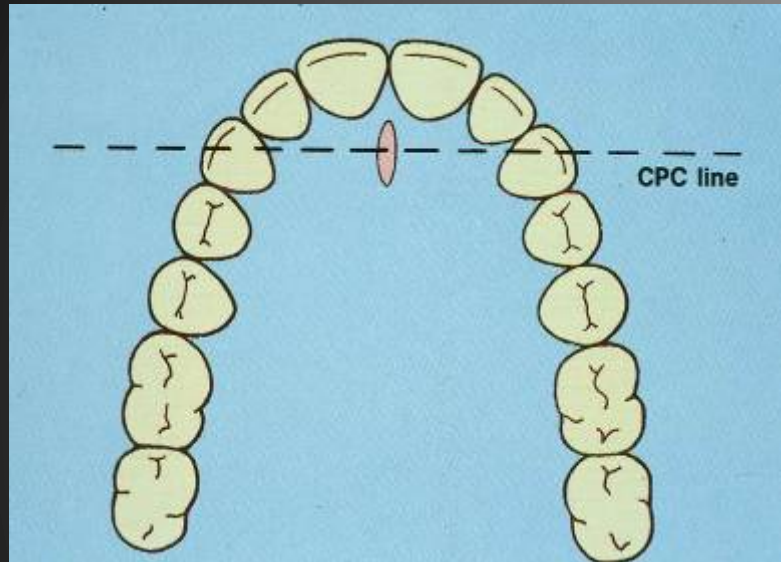
DETTE TRENGER MAN FOR Å GJENNOMFØRE BEHANDLINGSPROSEDYREN -

- ▶ Prøveplater med bittvoller montert i artikulatør
- ▶ Bittplanindikator
- ▶ Carbolite SafeAir varmluftblåser
- ▶ Vokskniv
- ▶ Lavviskøs polyvinylsiloksan (PVS) elastomer (eller proteseadhesiv)
- ▶ Vaseline
- ▶ Stor spade for trimming av voks
- ▶ Et fotografi av pasienten hvor tennene vises
- ▶ Tann - form og fargekart
- ▶ Plastpose + 0,5% klorhexidin desinfeksjons-
løsning

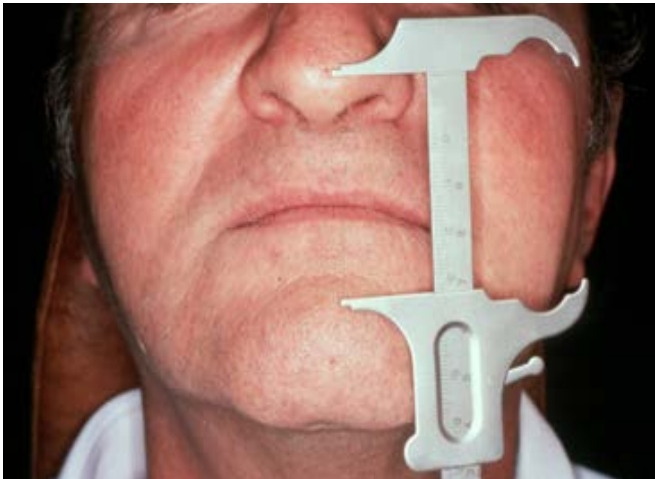
Prøveplate justeres i hht anatomi



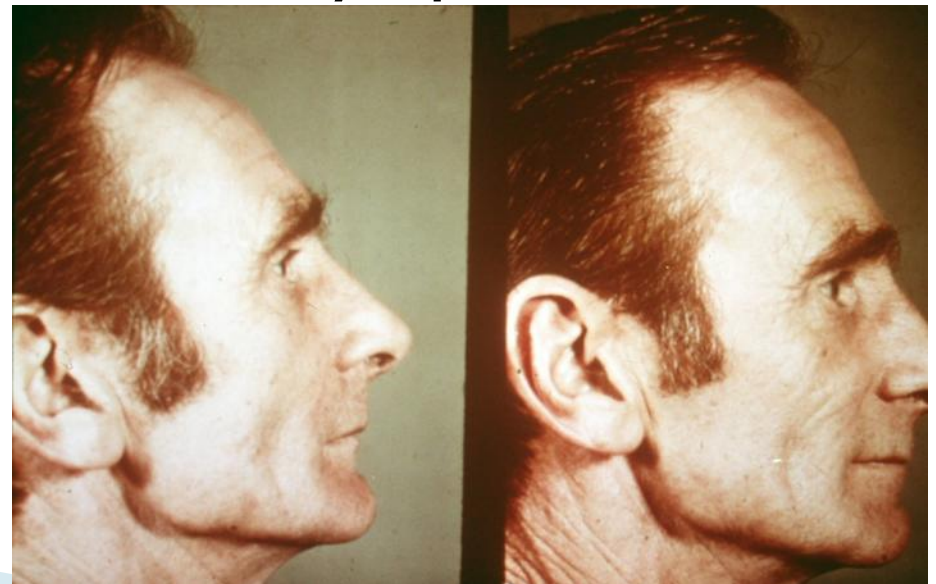
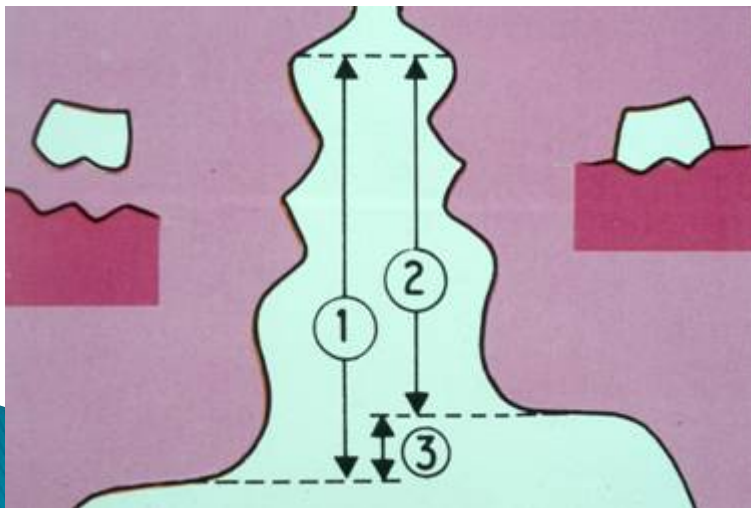
Tannbueformer



Prøveplate justeres i hht VDR/VDO



- 1: Vertikal dimensjon ved hvile (VDR)
- 2: Vertikal dimensjon på okklusjon (VDO)
- 3: Interokklusal avstand (Freeway space)



Video fra THE OHIO STATE UNIVERSITY

Etabler:

1.
Okklusalplanet



Determining
Plane of
Occlusion

<https://www.youtube.com/watch?v=V1Q3ForDo98>

2. Vertikale
ansiktshøyde

Kommentar: Siden 1970 har bruk av
ansiktbue ikke lenger blitt anvendt i
undervisningen i Skandinavia



<https://www.youtube.com/watch?v=wT1wN0nhzuM>

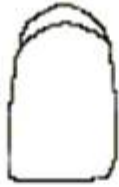
Valg av tenner:

akryl kontra porselen



Anteriore tenner – former

BASIC FACE FORM



MODIFIED OR SOFTENED FORM



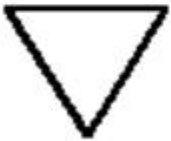
BASIC FACE FORM



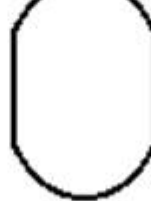
MODIFIED OR SOFTENED FORM



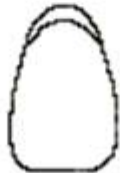
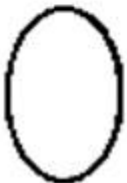
BASIC FACE FORM



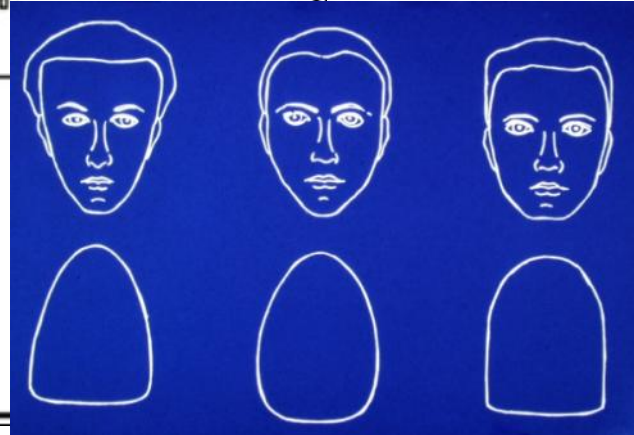
MODIFIED OR SOFTENED FORM



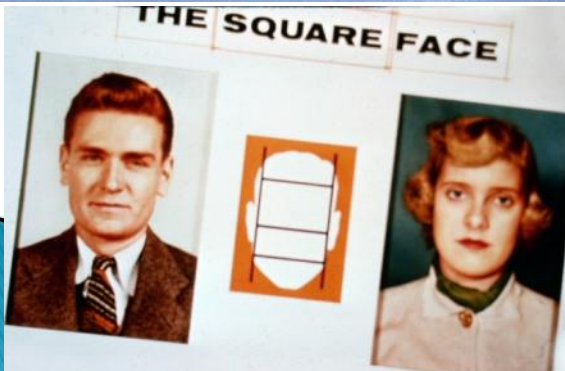
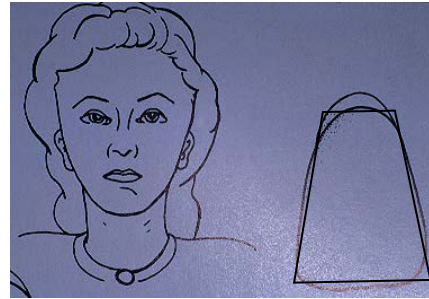
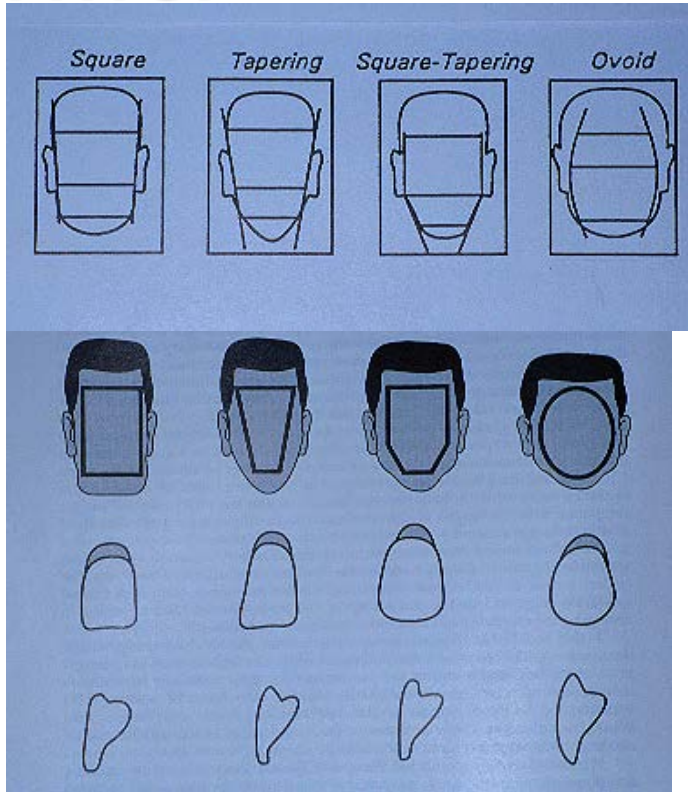
BASIC FACE FORM



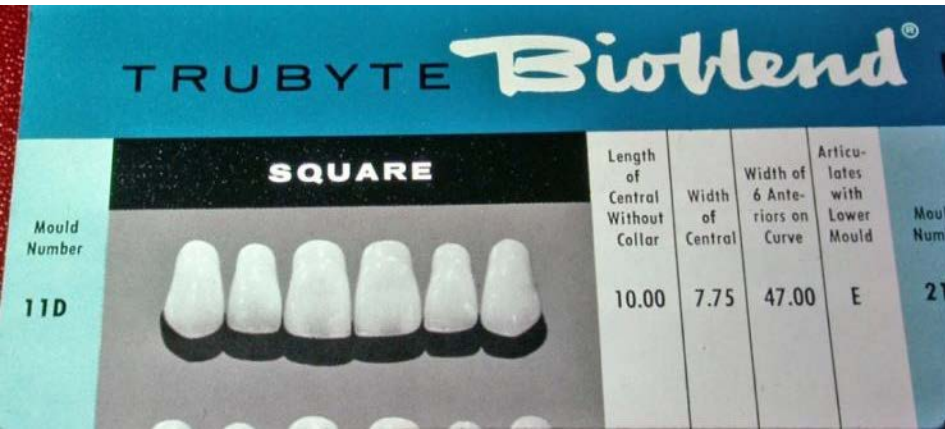
7



Anteriore tenner-former



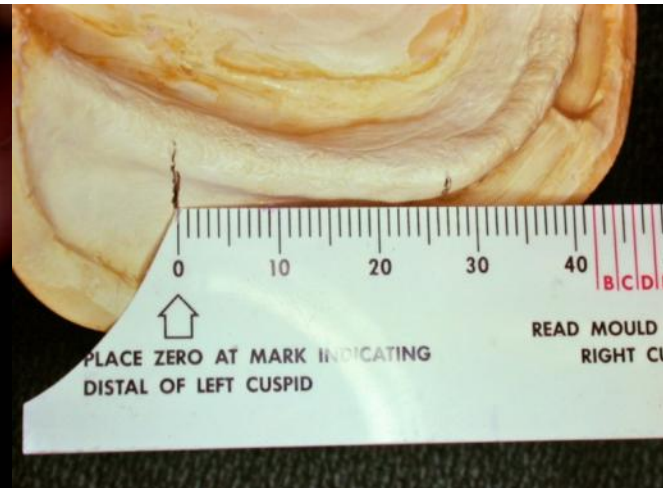
Anteriore tenner



21H		12.50	9.50	56.00	U
22C		10.00	7.50	45.00	C
22E		<u>10.50</u>	<u>8.25</u>	49.00	H
22H		12.00	9.00	54.00	P
22G		9.50	8.50	53.00	P



Valg av tenner – dimensjoner





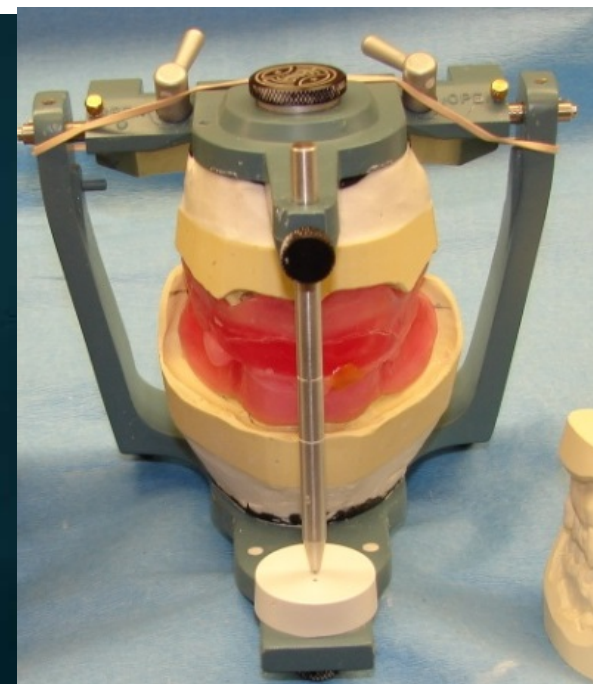
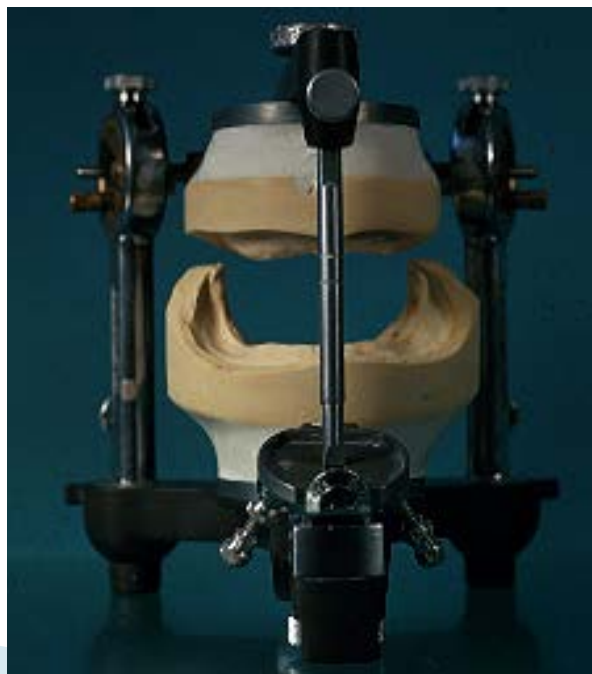
ISO Standarder

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4. Elastomeric impression materials (ISO04823)
5. Casting and baseplate waxes (ISO15854)

6. Artificial Teeth for Dental Prostheses (ISO22112)



Registrering av bitt til artikulatør



Video fra THE OHIO STATE UNIVERSITY

Etabler:

1. Okklusalplanet
2. Vertikale ansiktshøyde

3. Maksillo-
mandibulære
relasjon

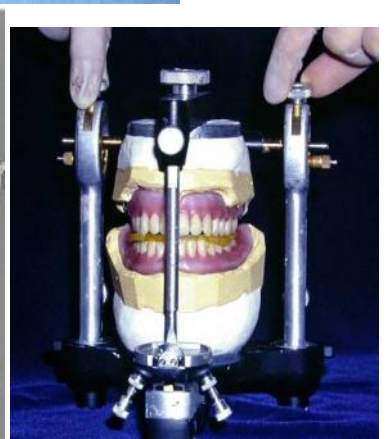
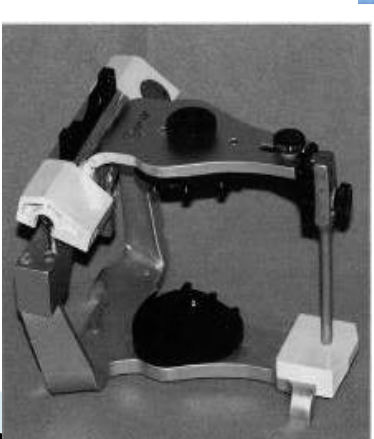
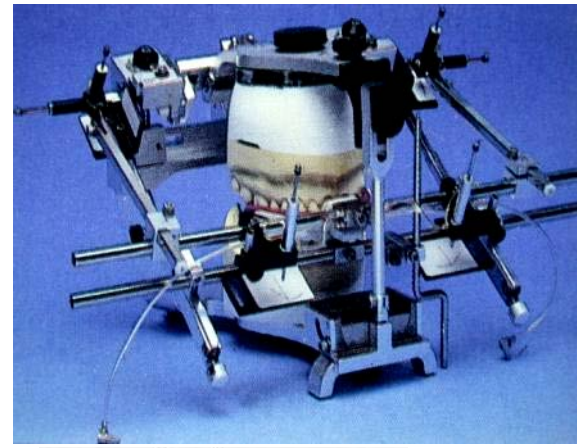
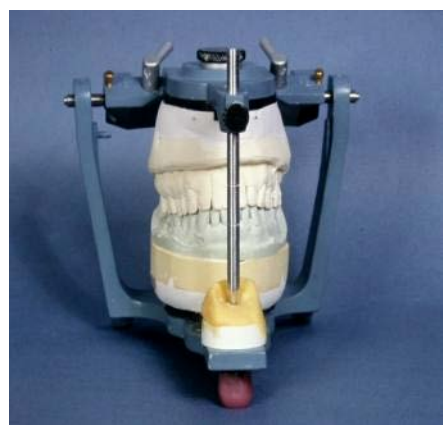
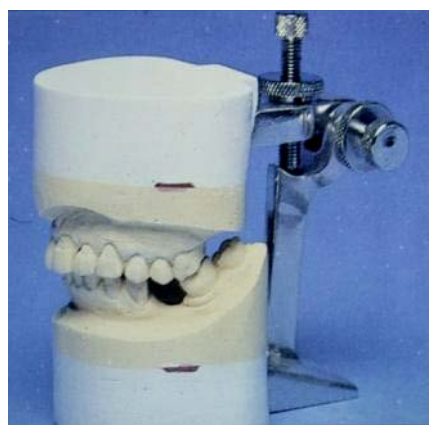
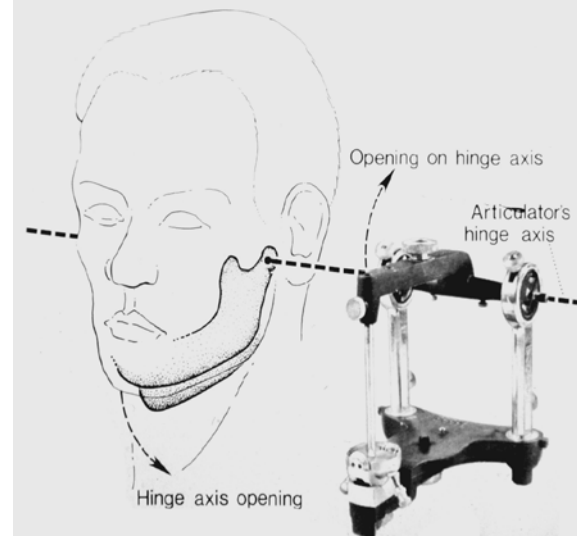
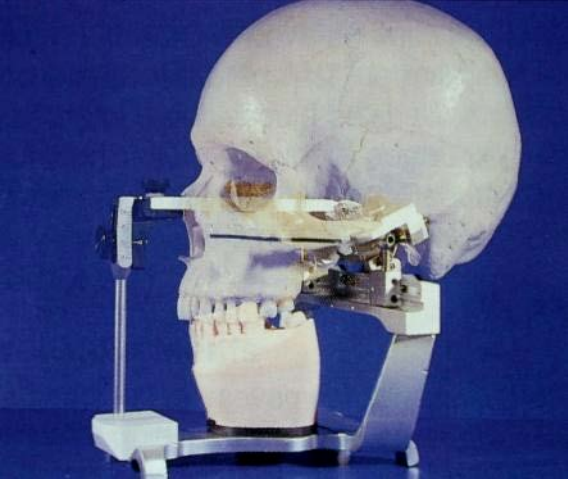


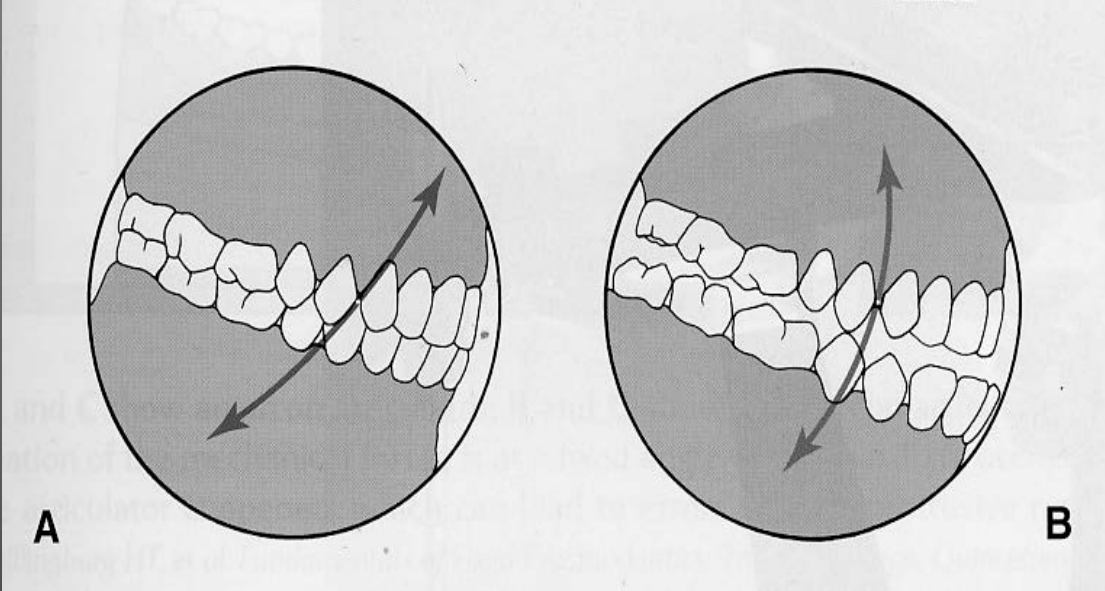
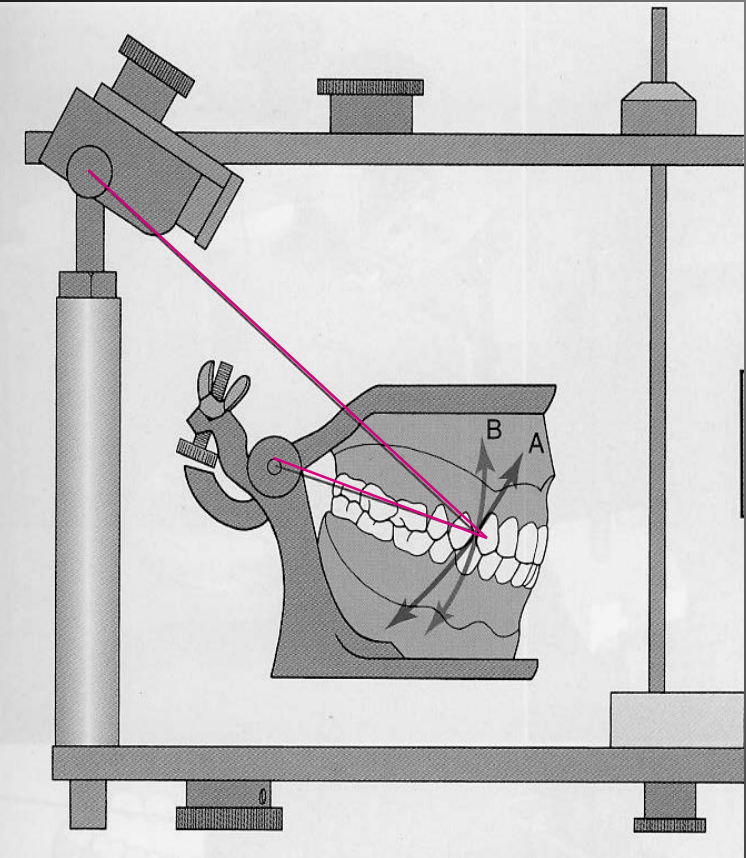
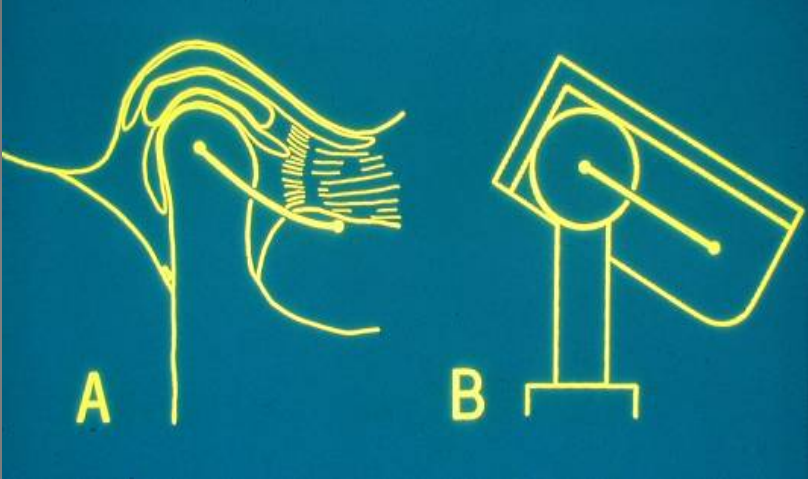
https://www.youtube.com/watch?v=QSR7MWeW_HU

Kommentar: Ulike materialer
kan benyttes til å feste sammen
over- og underkjeven

LABORATORIET: OPPSTILLING AV TENNER I VOKS







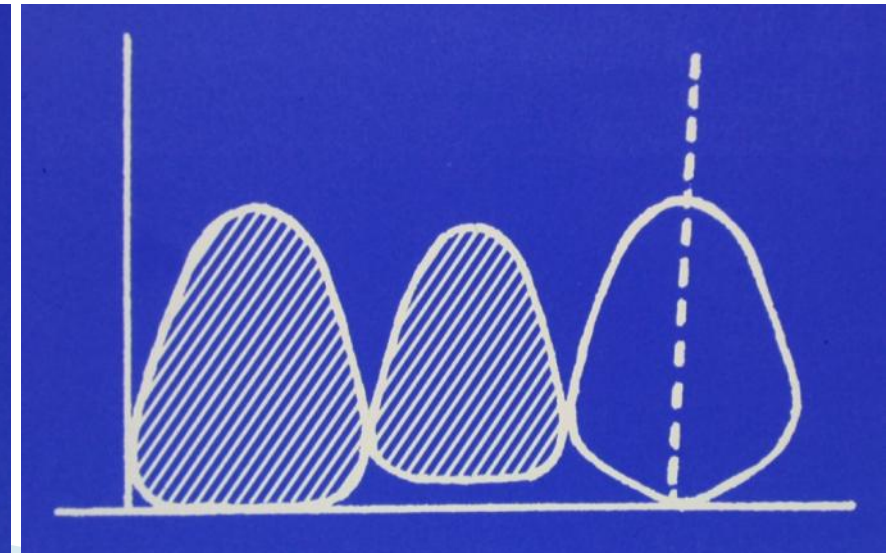
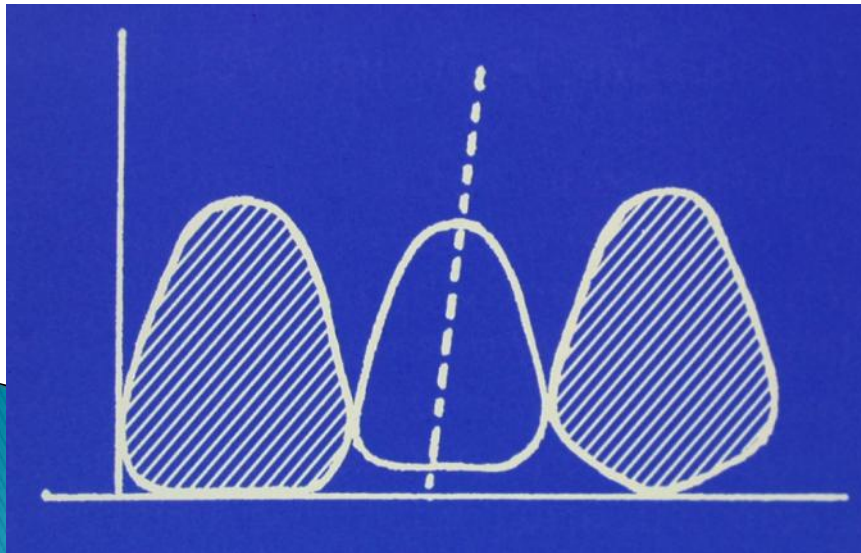
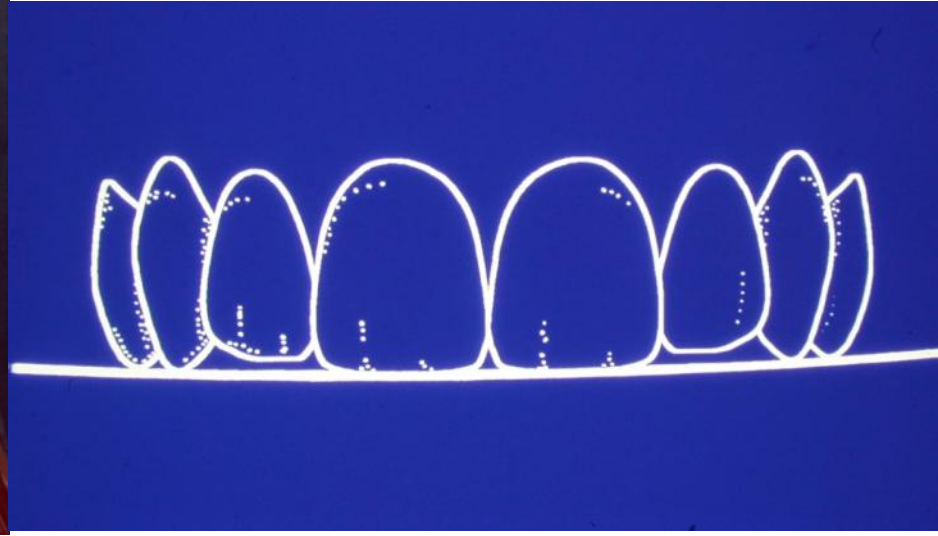
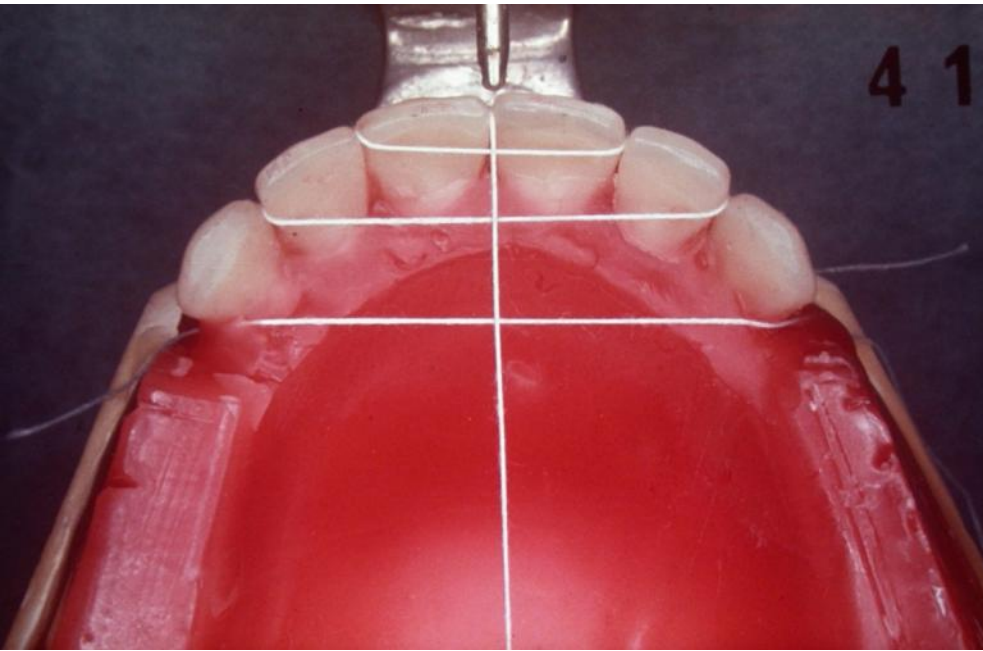
Artikulator



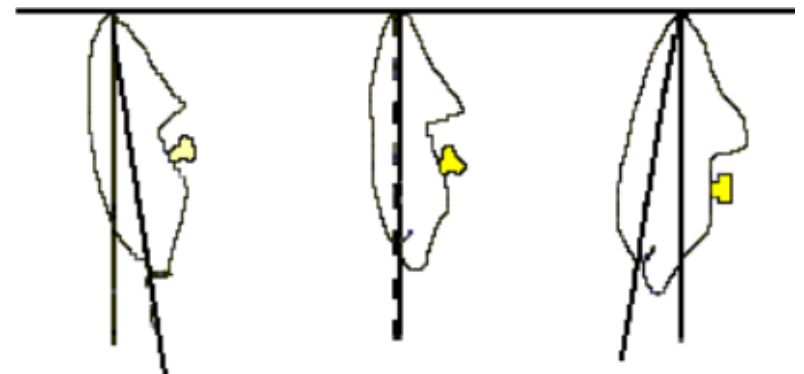
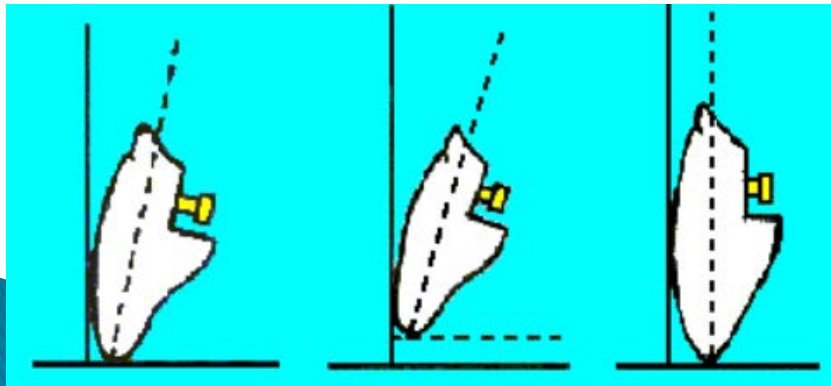
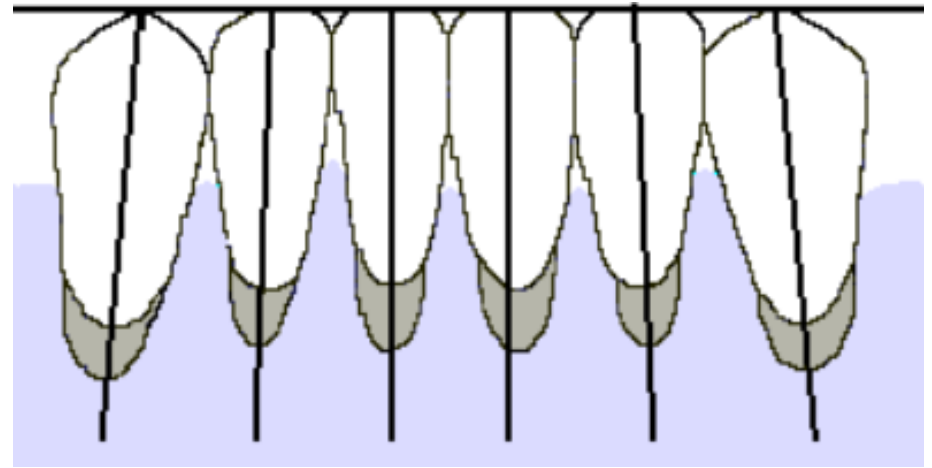
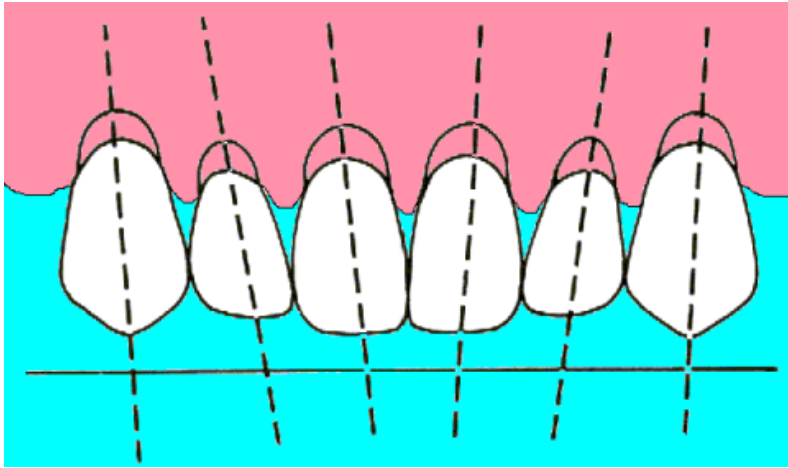
Balance Høyde: 105 mm
Kalibrert med Adesso-plater
Oppstillingsbord



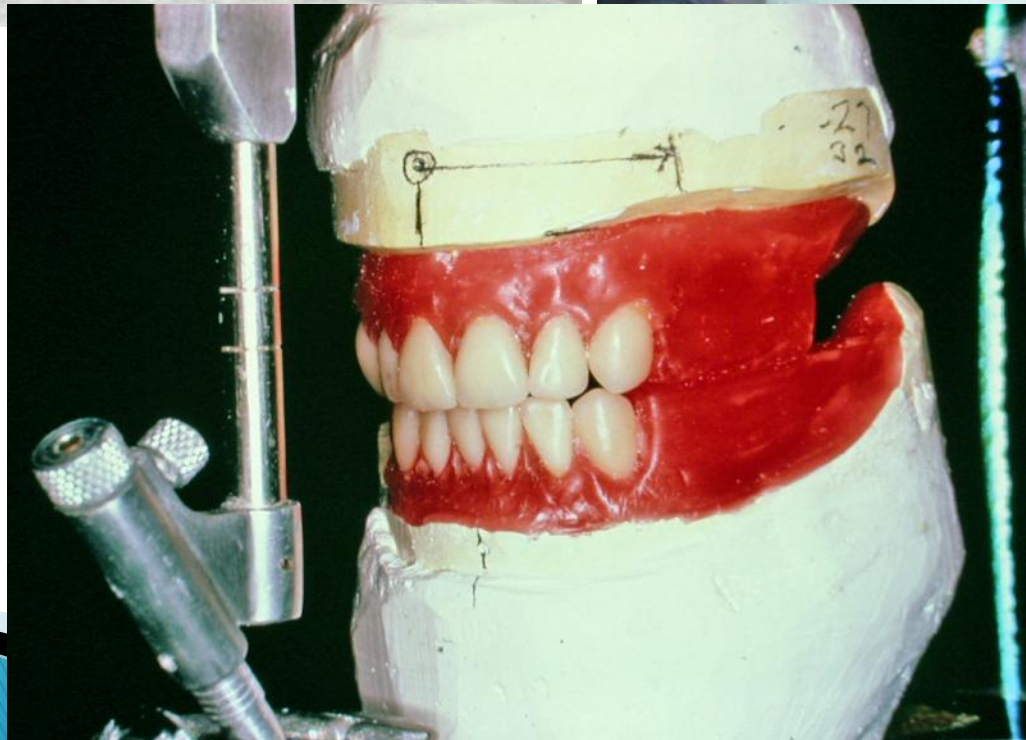
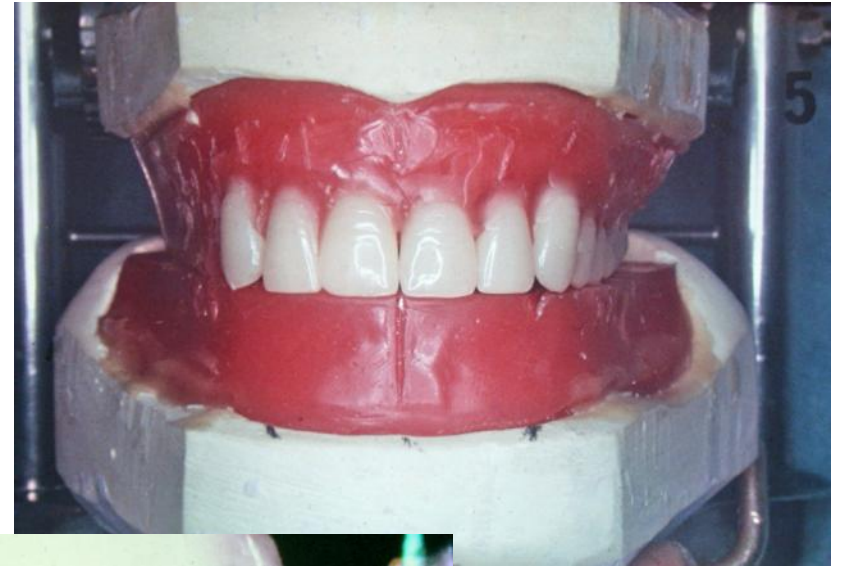
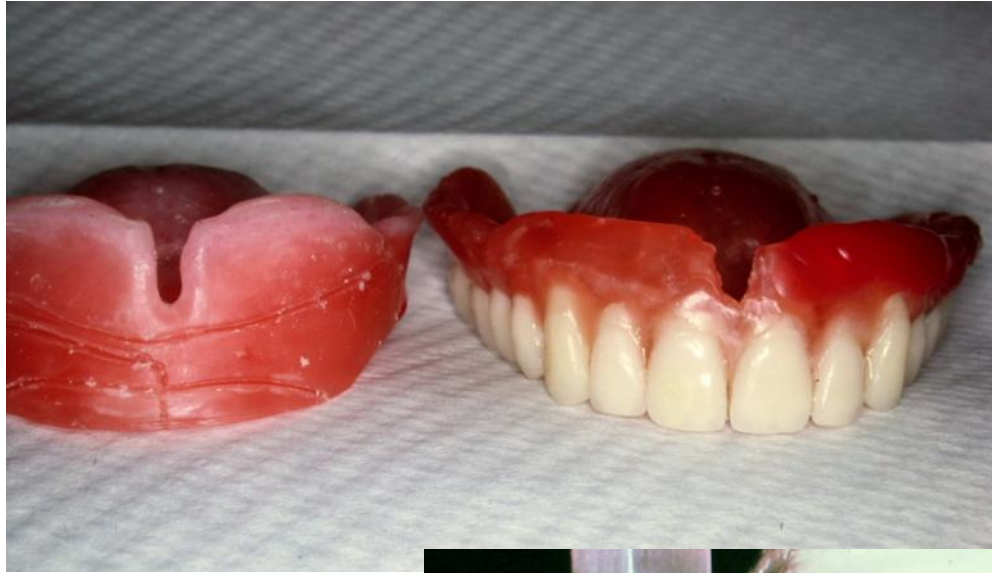
Tannoppstilling anterior- tannakser



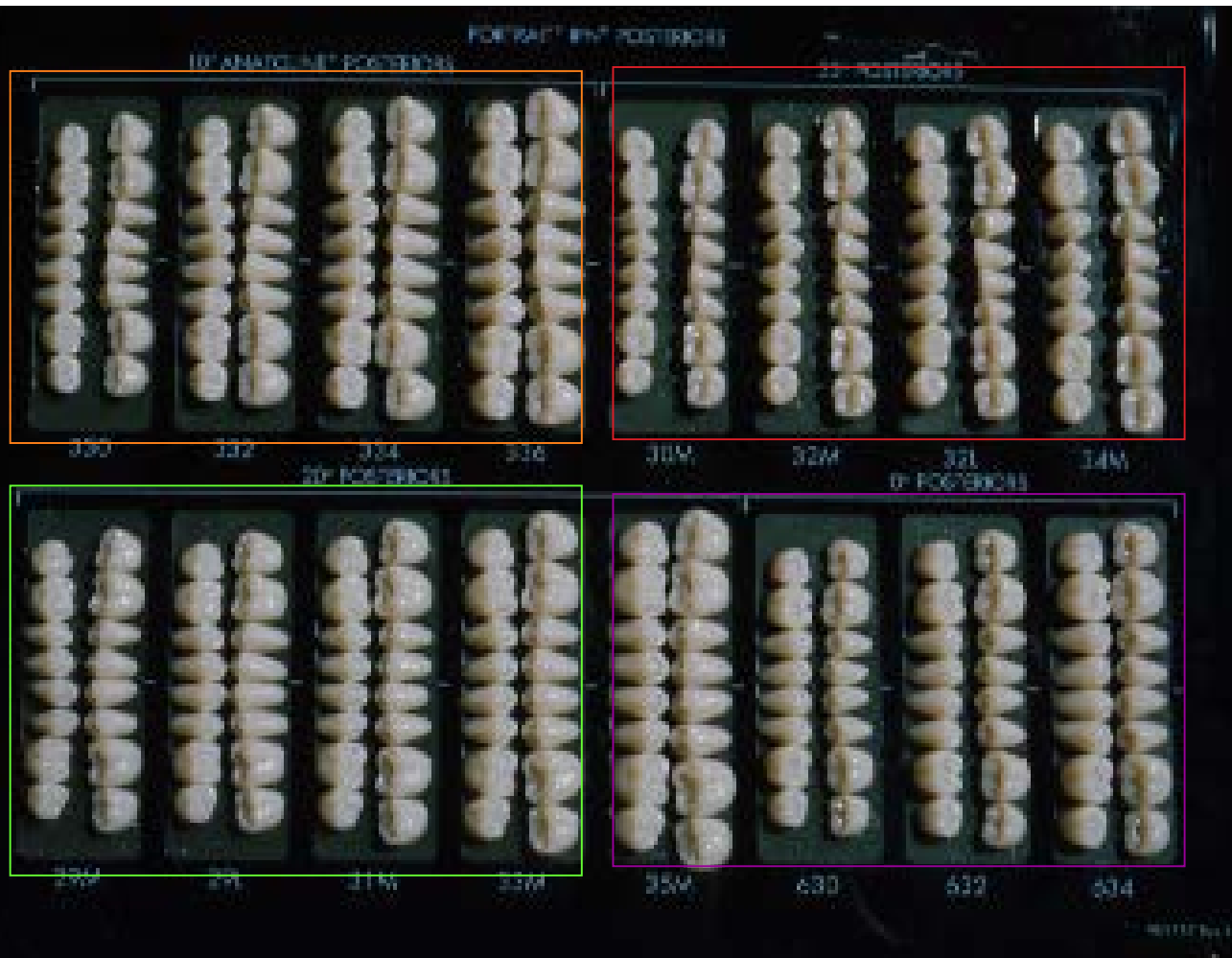
Tannoppstilling anterior



Tannoppstilling posteriort



Posteriore tenner – cuspevinkler



Fiolett: 0°
("Monoline")

Rød: 10°
("Anatoline")

Grønn: 20°

Gul: 33°
("Anatomic")

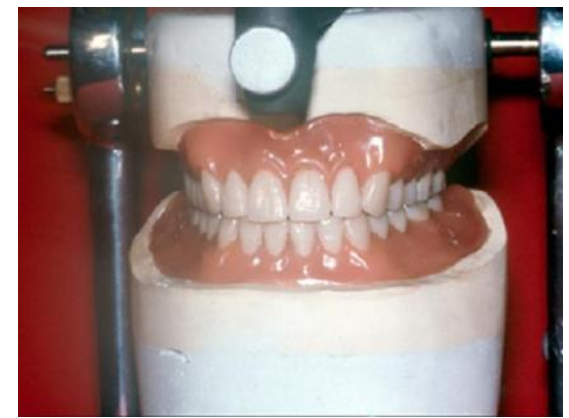
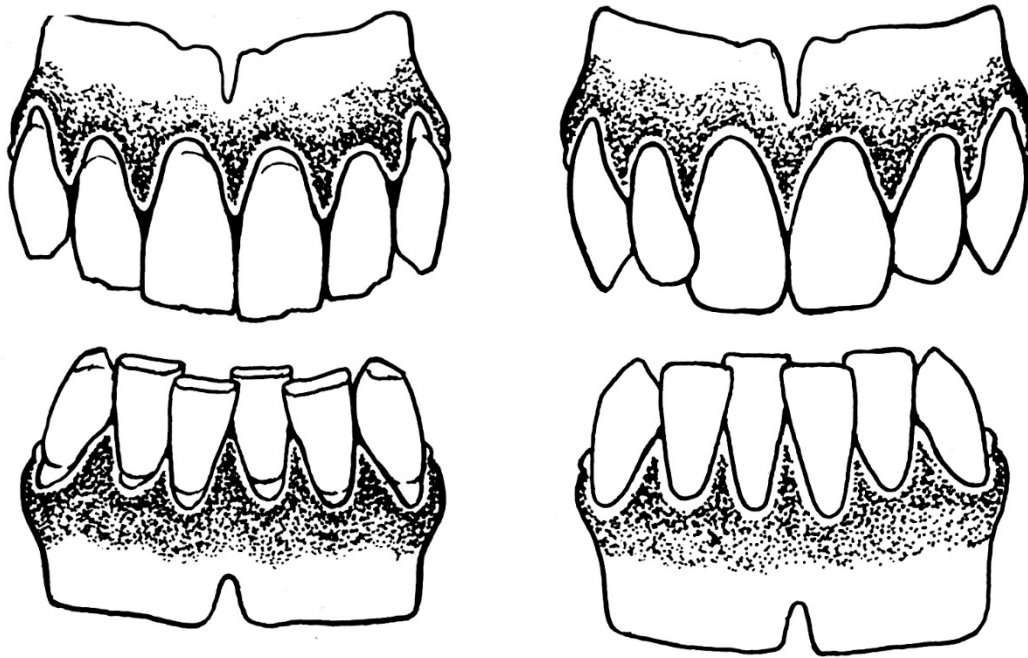


Fig. 22 Rugged mature masculine-type anterior tooth set-up shows some spacing, uneven interproximal papillae, and open embrasures with ground incisal edges. Note gingival cuff and mucosal areas are devoid of stippled effect

Fig. 21 Diagram of youthful feminine-type anterior tooth arrangement displays asymmetrical placement and subtle differences in height of interproximal tissue areas



5. KLINIKKBESØK KONTROLL AV PRØVEOPPSTILLINGEN

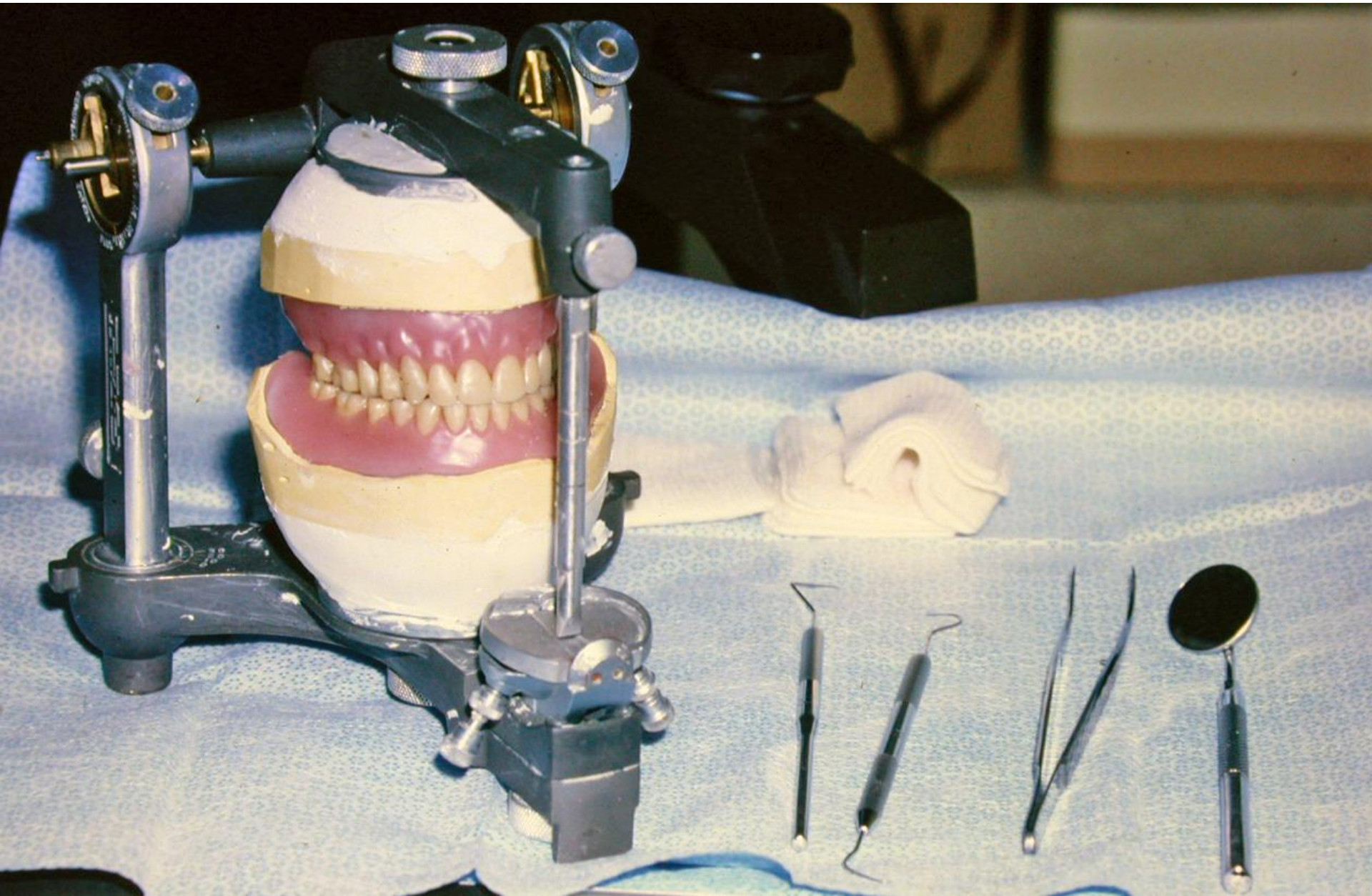


5. Kliniske besøk: Prøveoppstilling i voks

DETTE TRENGER MAN FOR Å GJENNOMFØRE BEHANDLINGSPROSEDYREN -

- ▶ Modeller med prøveoppstilling i voks montert i artikulator
- ▶ Rød Platevoks
- ▶ Vokskniv
- ▶ Carbolite SafeAir varmluftblåser
- ▶ Artikulasjonsfolie, 65µm Blue Radar (Nordin)
- ▶ Stort håndspeil
- ▶ Bittplanindikator
- ▶ Et fotografi av pasienten hvor de opprinnelige naturlige tennene vises
- ▶ Plastpose + 0,5% klorhexidin desinfeksjonsløsning





Endring av vertikal plassering



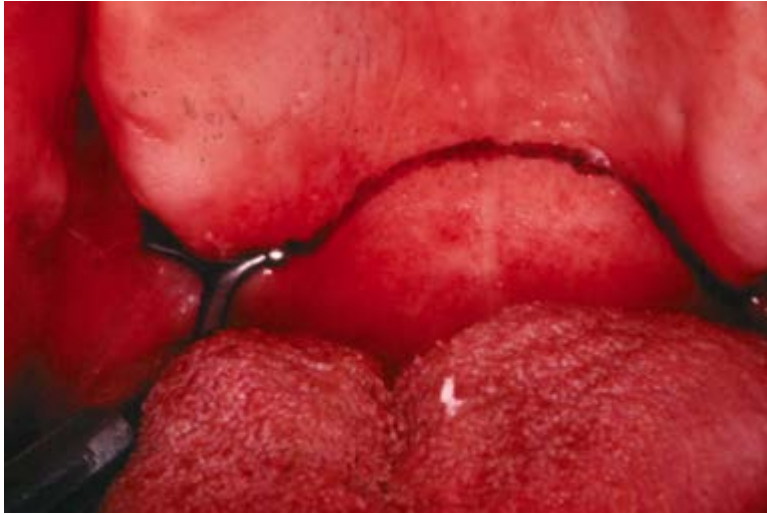
Evaluering av okklusjon og sideføring



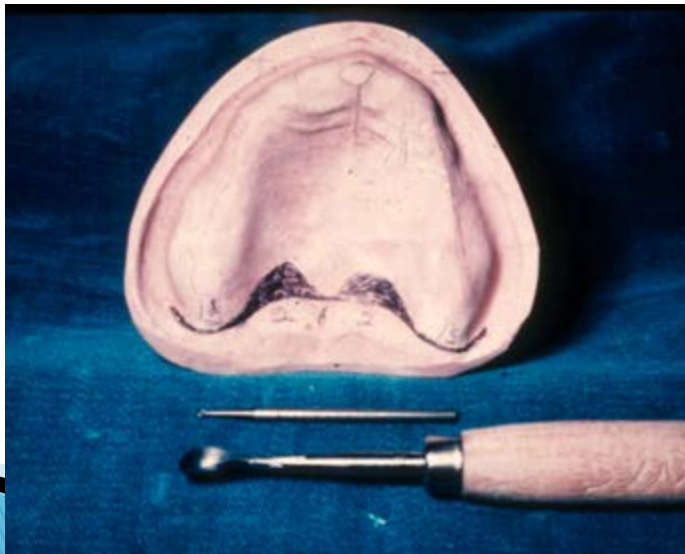
Okklusjon kan sjekkes mot artikulator-innslagningen



Posterior Palatal radering



“Post dam” area – gir økt retensjon



Video fra THE OHIO STATE UNIVERSITY



https://www.youtube.com/watch?v=4RawFBD_T0Q

Kommentar: Pasienten skal godkjenne form og utseende før ferdigstilling av protesene

LABORATORIET: FERDIGGJØRING AV PROTESE



ISO Standarder



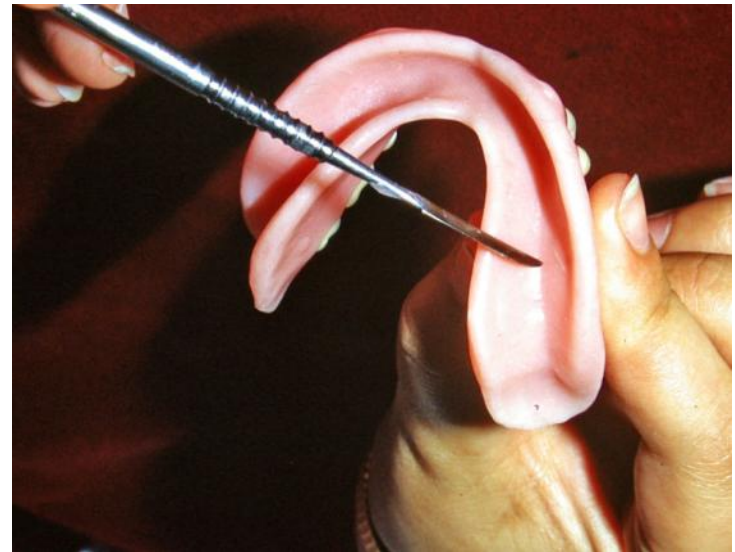
1. Soft lining materials for removable dentures (ISO10139)
2. Dental alginate impression material (ISO1563)
3. Dental gypsum products (ISO06873)
4. Elastomeric impression materials (ISO04823)
5. Casting and baseplate waxes (ISO15854)
6. Artificial Teeth for Dental Prostheses (ISO22112)
- 7. Denture base polymers (ISO20795)**



Modell i kyvette-gips



Ut av gips-kyvette



6. KLINIKKBESØK UTLEVERING, EVT. AVTRYKK TIL OKKLUSAL INNSLIPING



Video fra THE OHIO STATE UNIVERSITY

Delivery

<https://www.youtube.com/watch?v=xSIzHNNHClu8>

Eller

Kommentar: Grad av okklusal
justering etter skjønn

Clinical
Remount

<https://www.youtube.com/watch?v=IEHn1d2jDNI>

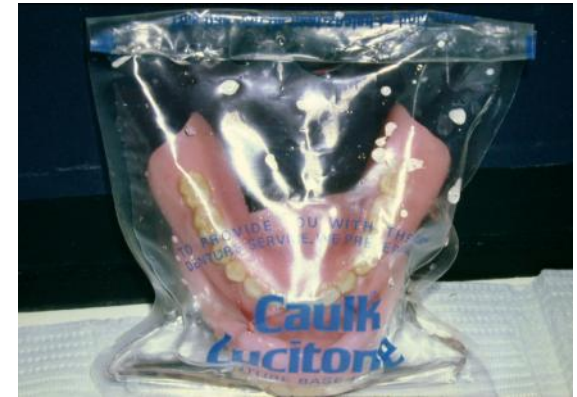
Tykkelse på artikulasjonsfolie ved kontroll av helprotese-okklusjon er:

- A. 25 μ m
- B. 65 μ m
- C. 120 μ m
- D. 200 μ m

6. Kliniske besøk: Utlevering

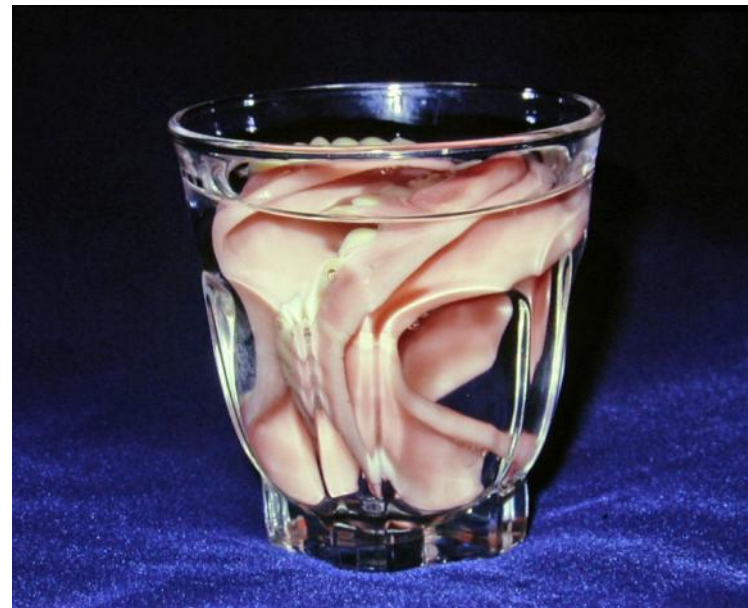
DETTE TRENGER MAN FOR Å GJENNOMFØRE BEHANDLINGSPROSEDYREN -

- ▶ Artikulasjonsfolie, 65µm
Blue Radar (Nordin)
- ▶ Rett håndstykke med
akrylfres
- ▶ Passform –kontrollmateriale
(Lavviskøs silikon, Pressure
indicator paste e.l.)





Pasientinstruksjoner



7. SLUTTKONTROLLER

»» neste forelesning

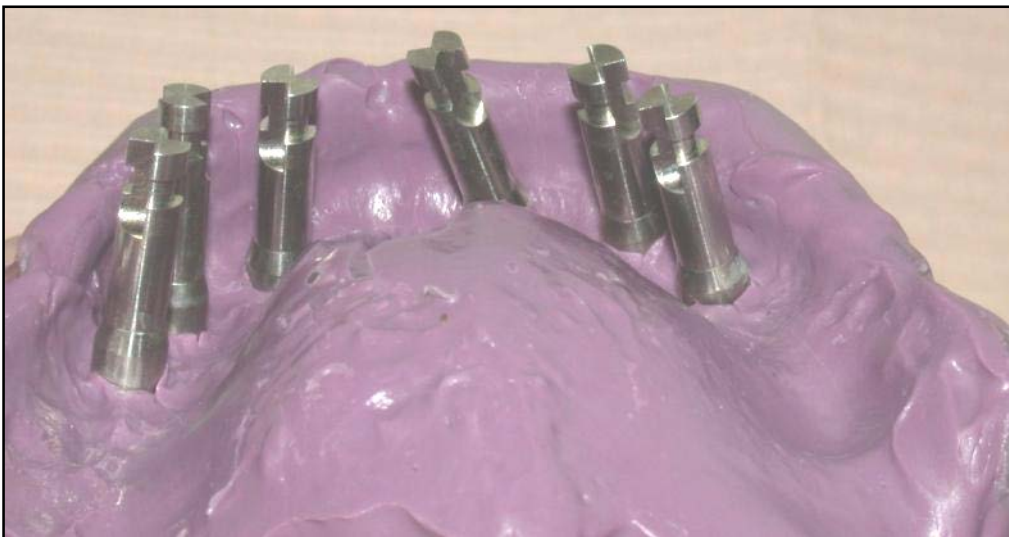
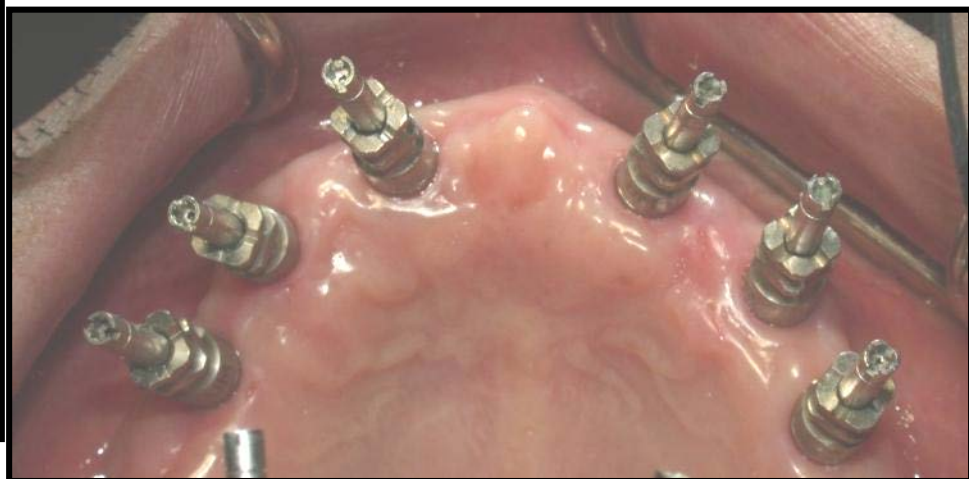


"Sure they're expensive, but the Lab guarantees 300 words a minute."

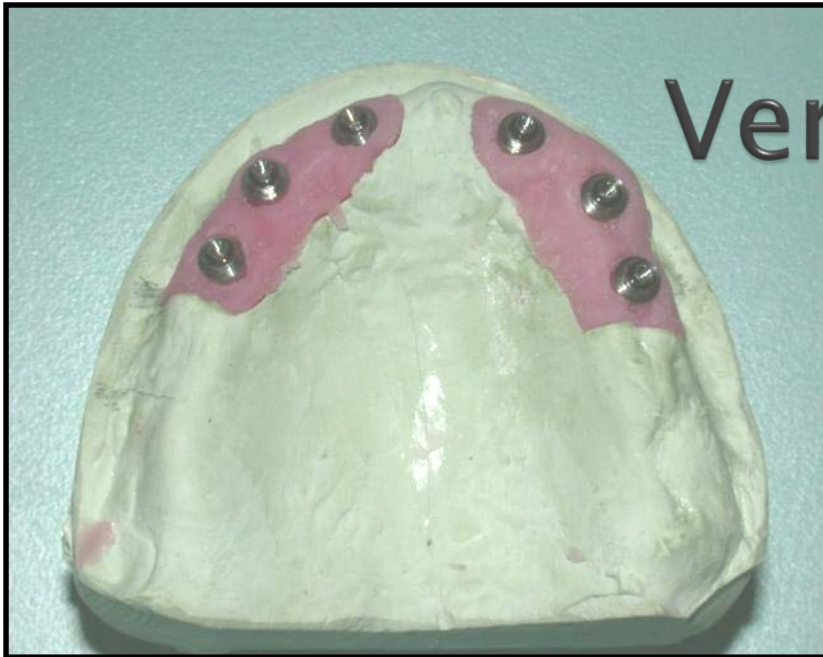
Detaljert informasjon om
prosedyrene presentert fra
Ohio State University

Implantat-retinert avtakbar protese

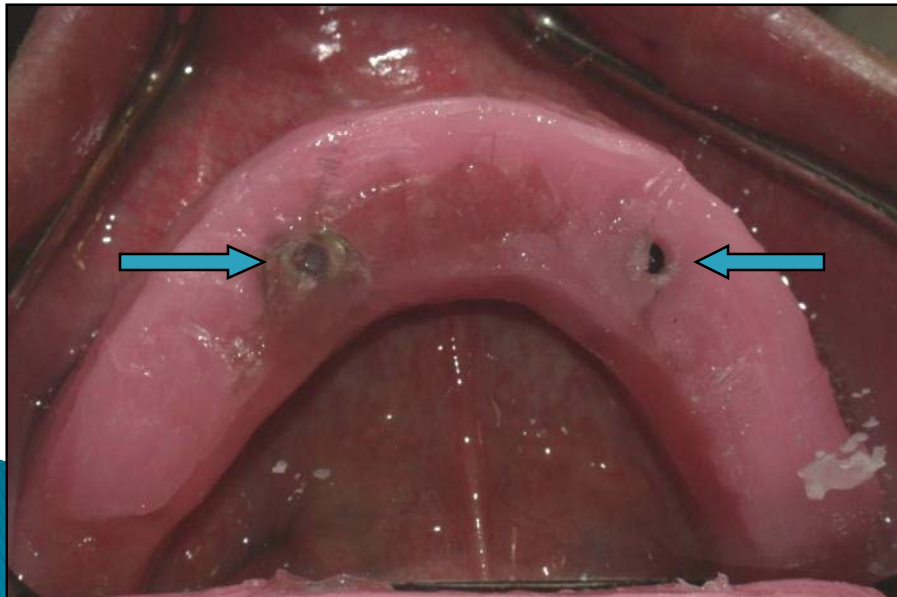
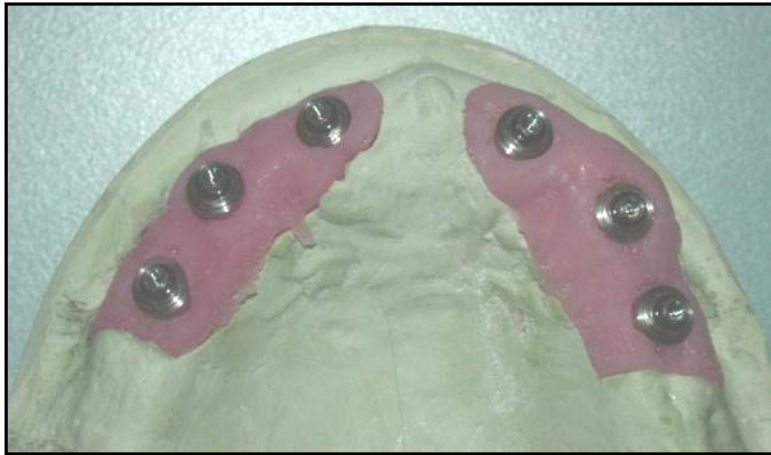




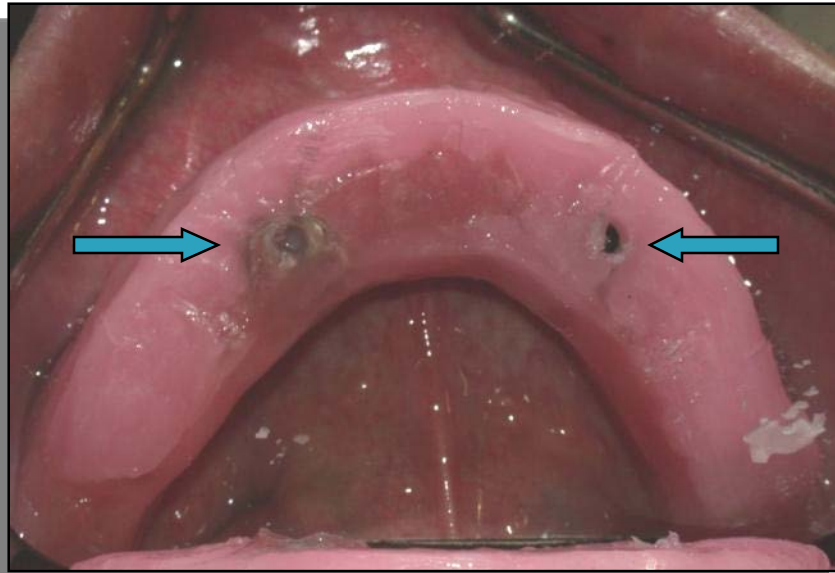
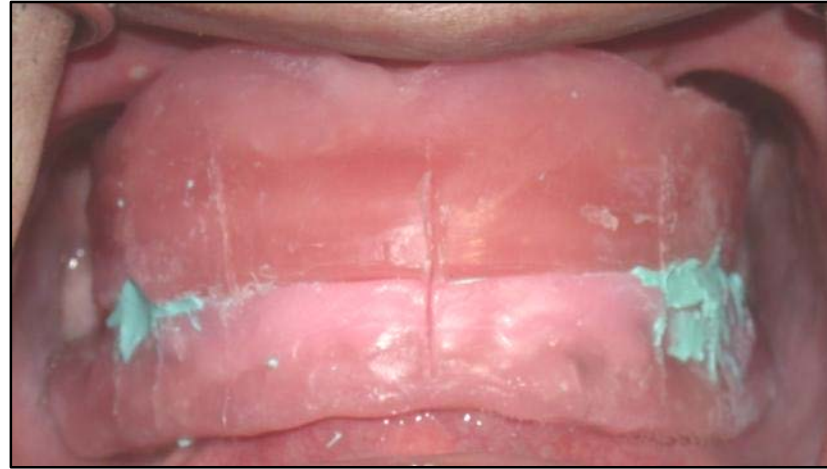
Verifikasjons-jig

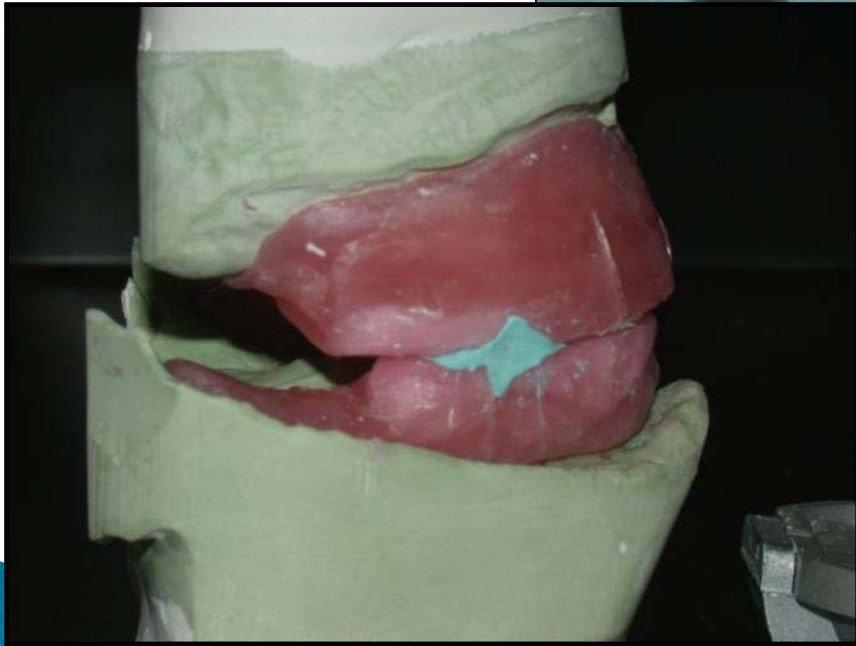
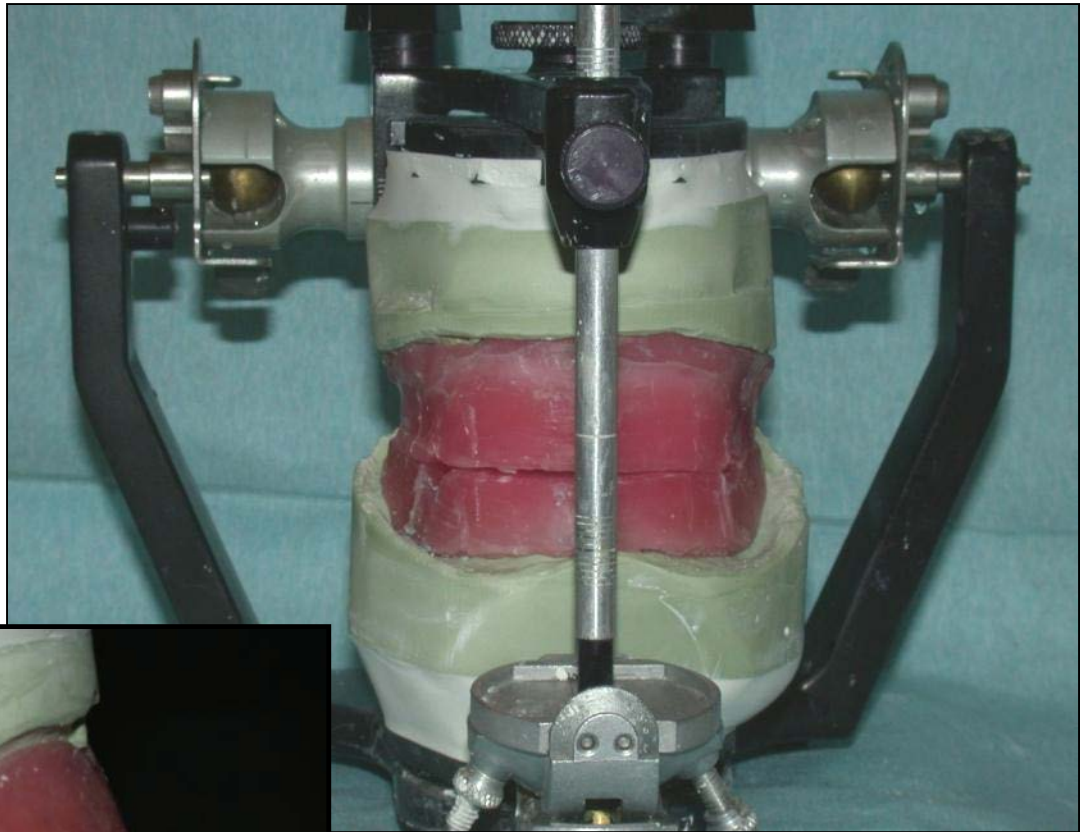


Basisplater m/ bittvoller



Bitt-registrering





Teeth set-up & try-in









Implantat-retinert fast protese

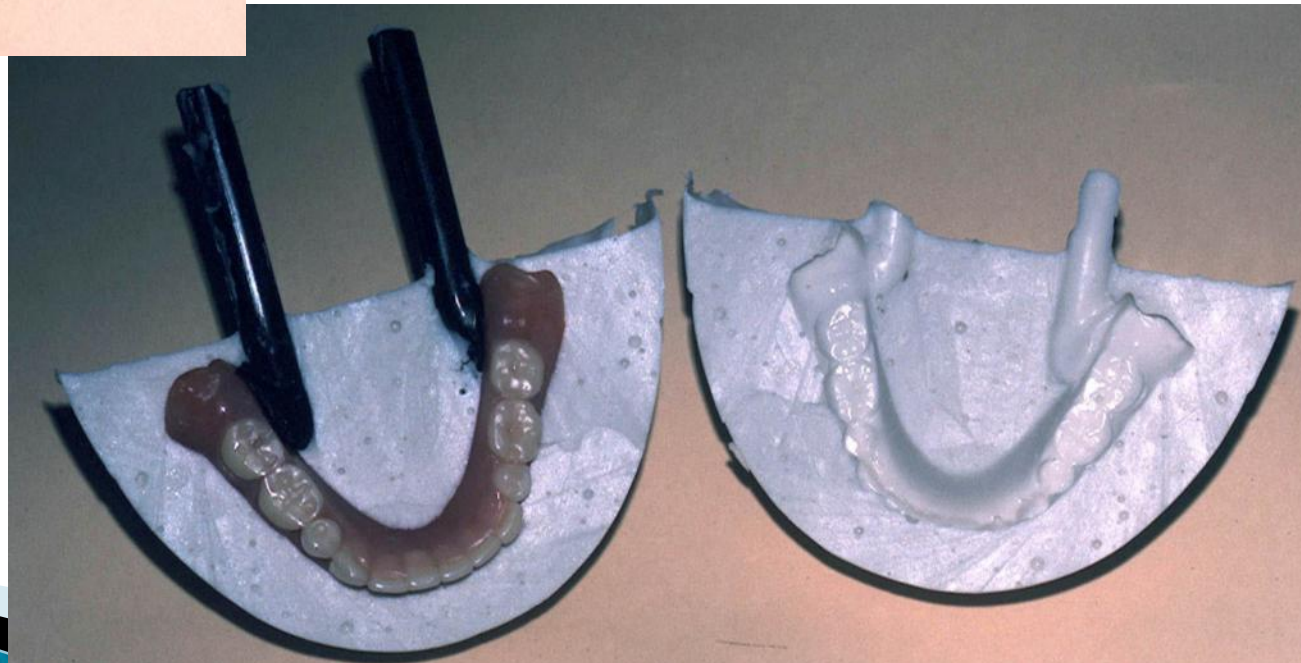
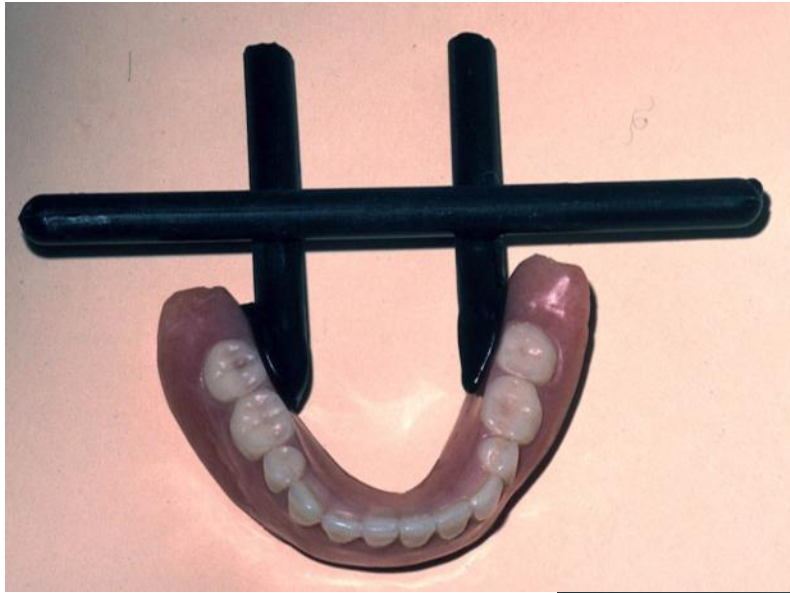




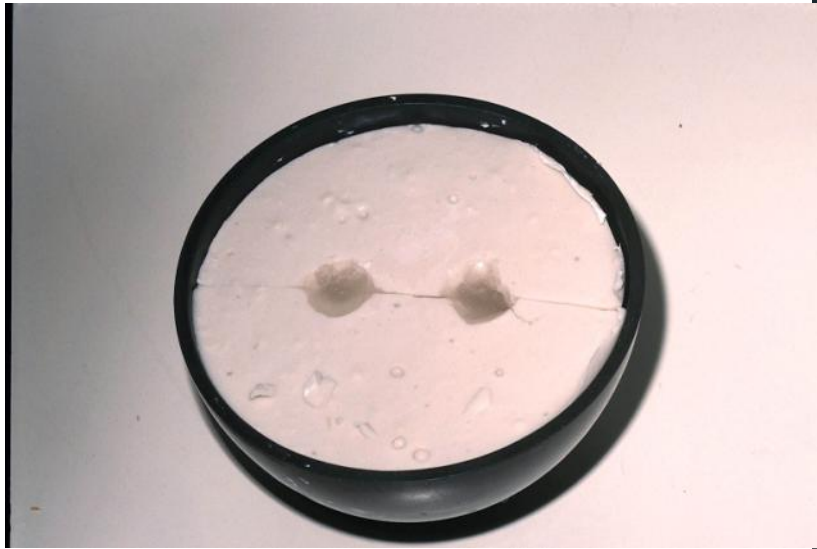
Liner + tilheling 3 mnd



Duplisering av form i akryl



Til kirurgisk guide

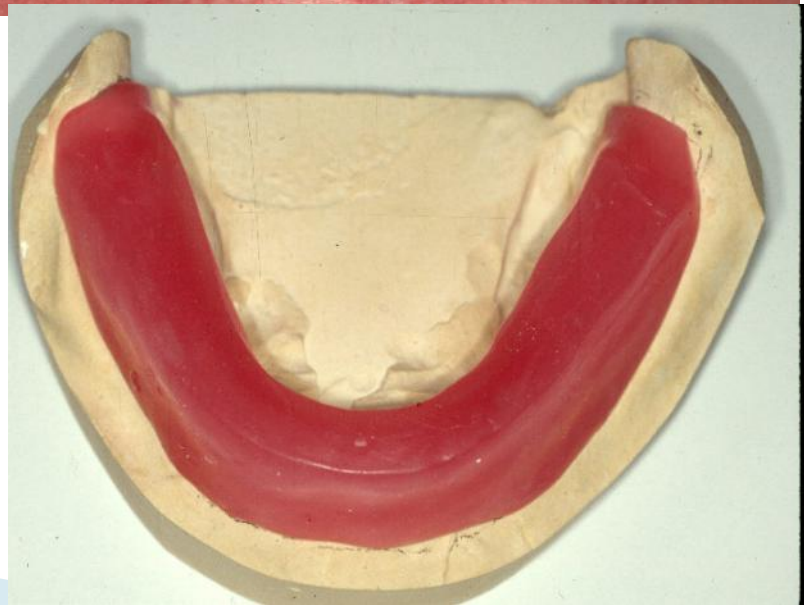
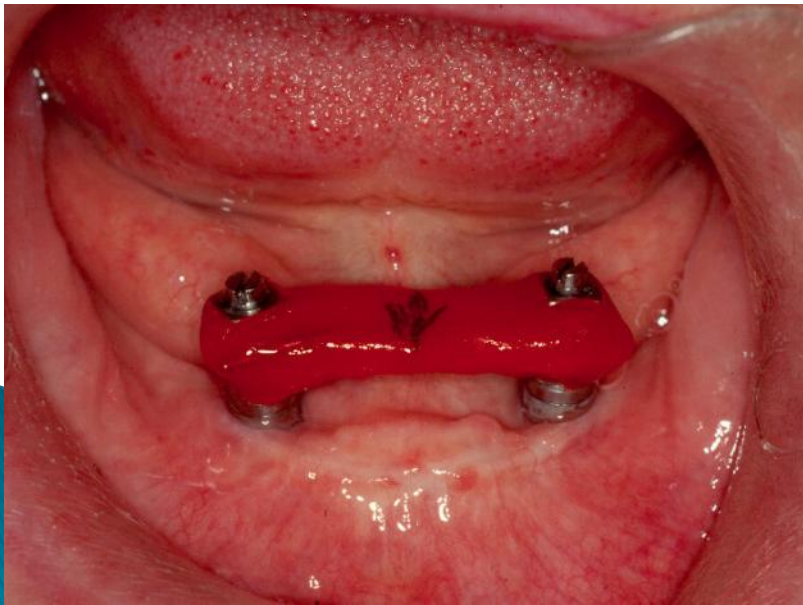
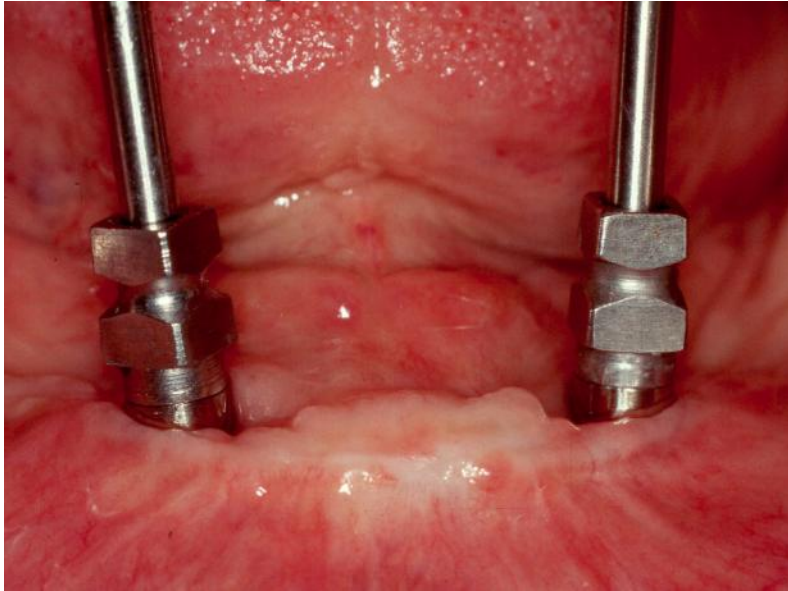


Uthuling av basis og liner





Avtrykk, verifikasjon & bittvoll



Indeks guide posisjon & barr

