

# Brannslukking i Protetikk

Asbjørn Jokstad  
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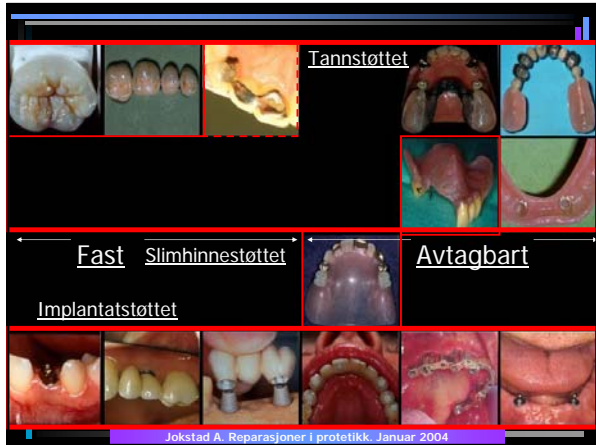
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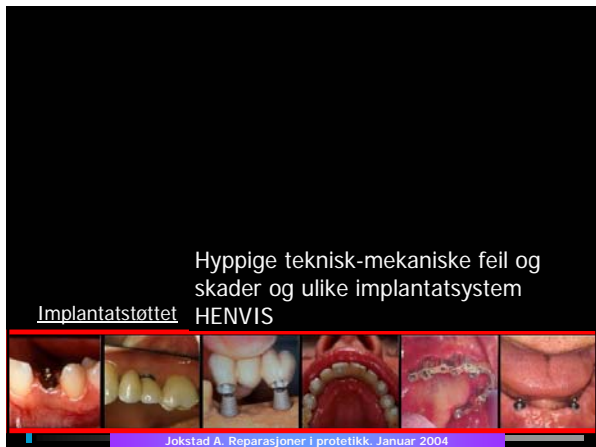
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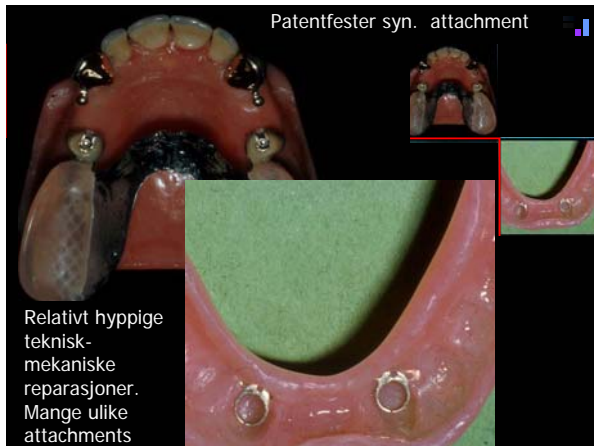
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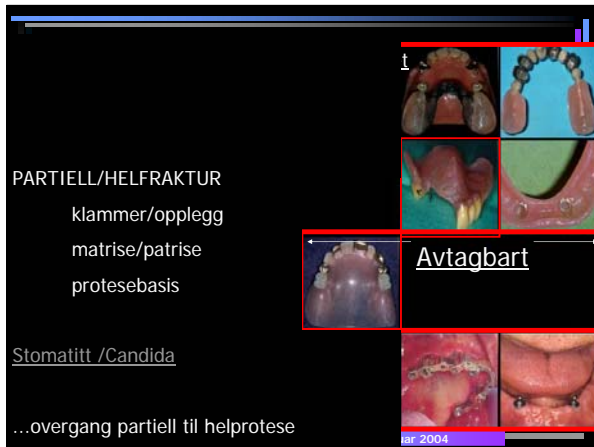
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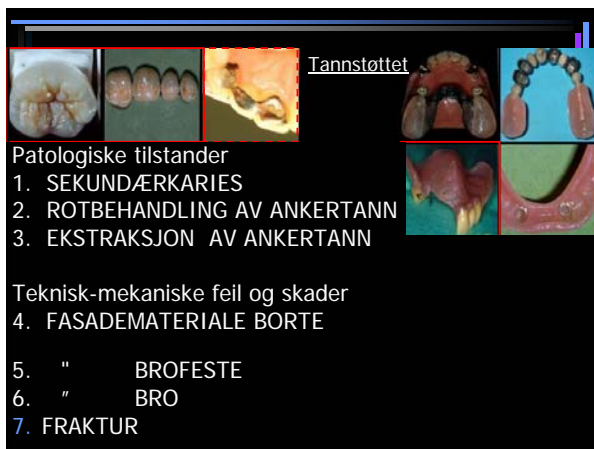
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Hvor ofte er det problemer med fast protetikk?

- Helkeramkroner (8%)
- Stiftkonus (10%)
- Konvensjonelle singlekroner (11%)
- Etsbroer (26%)
- Konvensjonelle broer (27%)

Goodacre et al. Clinical complications in fixed prosthodontics. J Prosthet Dent 2003; 90: 31-41.

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### Vanligste problem med etsbroer

	Number of prostheses studied/affected	Mean incidence
Debonding	7029/1481	21%
Tooth discoloration	343/62	18%
Caries	3426/242	7%
Porcelain fracture	1126/38	3%
Periodontal disease	748/0	0.0% (no significant changes)

Goodacre et al. 2003

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### Vanligste problem med broer

	Number of prostheses or abutments studied/affected	Mean incidence
Need for endodontic treatment		
Caries	3360/602 abutments	18% of abutments
	1354/113 prostheses	8% of prostheses
Need for endodontic treatment	2514/276 abutments	11% of abutments
	1357/86 prostheses	7% of prostheses
Loss of retention	1906/137 prostheses	7%
Esthetics	1024/38 prostheses	6%
Periodontal disease	1440/62 prostheses	4%
Tooth fracture	1602/44 prostheses	3%
Porcelain fracture	1192/24 prostheses	2%
Porcelain veneer fracture	768/17 prostheses	2%

Goodacre et al. 2003

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Patologiske tilstander i tenner og støttevev

1. SEKUNDÆRKARIES
2. ROTBEHANDLING AV PILAR
3. EKSTRAKSJON AV BROPILAR

Teknisk-mekaniske feil og skader

4. FASADEMATERIALE BORTE
5. " BROFESTE
6. " BRO
7. BROFRAKTUR



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## Vanligste problem med single kroner

	Number studies/affected crowns	Mean incidence
Need for endodontic treatment	823/27	3%
Pencilin fracture	199/6	3%
Loss of retention	1.061/19	3%
Periodontal disease	986/6	0.6%
Caries	1.105/4	0.4%

MK-kroner		
	Number of crowns studied/affected	Mean incidence
Fracture	4277/318	7%
Loss of retention	543/11	2%
Pulpal health	1638/15	1%
Caries	1630/13	0.8%
Periodontal disease	992/0	0.0% (no significant changes)

Helkeram-kroner		
	Number of crowns studied/affected	Mean incidence
Fracture	4277/318	7%
Loss of retention	543/11	2%
Pulpal health	1638/15	1%
Caries	1630/13	0.8%
Periodontal disease	992/0	0.0% (no significant changes)

Goodacre et al. 2003

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## Singel krone:

- Keram:
  - Fraktur
  - Puss & poler
- Fjerne:
  - Krone
    - Tentativt reversibelt
    - Irreversibelt
  - Stift
- Resementering
- Tilpasse ny krone til eksisterende partiell protese-klammer

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## Porselensreparasjon



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### Porselensreparasjon – Konsept 1/3

<b>Flusssyre + Silanisering</b>	<b>Eksempel:</b> Porcelain Repair Kit. Ultradent Porcelain Prep Kit PulpDent
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### Porselensreparasjon – Konsept 2/3

<b>Flusssyre +silan</b>	“Porcelain Prep Kit” PulpDent (9,6% HF->Dry-Rite-> Silane Bond->...)
<b>Fosforsyre + silan</b>	“Ceramic Repair Set” Vivadent (37% PA-> Monobond-S-> Heliobond-> Monopaque-> Heliobond-> Microhybrid)

17

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### Porselensreparasjon – Konsept 3/3

<b>Konsept 1: Flusssyre +silan</b>	“Porcelain Prep Kit” PulpDent (9,6% HF->Dry-Rite-> Silane Bond->...)
<b>Konsept 2: Fosforsyre +silan</b>	“Ceramic Repair Set” Vivadent (37% PA-> Monobond-S-> Heliobond-> Monopaque->Heliobond->Microhybrid)
<b>Porcelain Liner M, Super-Bond C&amp;B</b>	<b>Sun Medical Kuraray/J. Morita</b>

18

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## Porcelain Repair Kits

1. **Clearfil Repair**  
Kuraray
2. **Porcelain Repair Kit**  
Ultradent
3. **Ceramic Repair**  
Ivoclar Vivadent
4. **Porcelain Prep Kit**  
Pulpdent
5. **Porcelain Bonding Kit**  
Sultan Chemists

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## Porselensreparasjon – Konsept 3/3

Flusssyre +silan	"Porcelain Prep Kit" PulpDent (9,6% HF->Dry-Rite-> Silane Bond->...)
Fosforsyre +silan	"Ceramic Repair Set" Vivadent (37% PA-> Monobond-S-> Heliobond-> Monopaque->Heliobond->Microhybrid)
Porcelain Liner M, Super-Bond C&B	Sun Medical, Kuraray/J. Morita
<b>Silane ((Ceramic) Primer)</b>	<b>e.g. Bisco, Kerr, Ultradent, 3M-ESPE</b>

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## Silane Coupling Agents

- 1a. **Clearfil Porcelain Bond Activator**  
Kuraray
- 1b. **RelyX Ceramic Primer**  
3M ESPE
2. **Monobond-S**  
Ivoclar Vivadent
- 3a. **Silane**  
Ultradent
- 3b. **Silane Bond Enhancer**  
Pulpdent
- 3c. **Silane Primer**  
sds/Kerr
4. **Silanator**  
Cosmedent

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### Rubber Polishing Instruments

**Composite**

- 1a. Astropol Ivoclar Vivadent
- 1b. D<sup>2</sup>Fine Diamond Polishers for Hybrid Composites Clinician's Choice
- 1c. Howe HiLuster sds/Kerr
- 1d. Jiffy HiShine Ultradent
- 2a. Diacomp Brasseler
- 2b. PoGo Dentsply/Caulk
- 3a. Howe Occlubrush sds/Kerr
- 3b. Jiffy Brushes Ultradent
- 4. Jiffy Polishing Cups, Points, Disks Ultradent

**Porcelain**

- 1. Dialite Brasseler
- 2a. CeraGlaze Ultimate Axis
- 2b. CeraMaster Shofu
- 3. D<sup>2</sup>Fine Diamond Polishers for Porcelain Clinician's Choice
- 4a. Ceramisté Shofu
- 4b. Ceramisté Soft Shofu

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### Polishing Pastes

**Composite**

- 1. Prisma-Glass/ Prisma-Glass Extra Fine Dentsply/Caulk
- 2. Insta-Glaze HYB George Taub
- 3a. CompoSite Shofu
- 3b. Enamelize Cosmedent

**Porcelain**

- 1. Diamond Polish Ultradent
- 2a. Diamond Polishing Paste Ivoclar Vivadent
- 2b. Diamond Restoration Polish Vident
- 2c. Diashine VH Technologies
- 2d. Porcelize Cosmedent
- 2e. Truluster Brasseler

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# Tentativt reversibel kronefjerning

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### Crown and Bridge Removers

1. CORONAFlex 2005  
KaVo
- 2a. ATD Automatic Crown and Bridge Remover  
J. Morita USA
- 2b. Hawn Universal  
NAE-Tech
3. Crown Spreader  
Brasseler
4. Easy Pneumatic Crown and Bridge Remover  
Dent Corp
5. Richwil  
Almore

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### Richwill Teknikk

- Evaluer antagonist
- Varm pastillen i pakken
- Instruer pasient
- Tørrlegg krone og antagonist
- Tilpass pastille til kronen – gjerne tang
- Pasient lukker og holder lukket i 10 sek.
- Pasient gaper raskt opp
- Gjenta dersom behov

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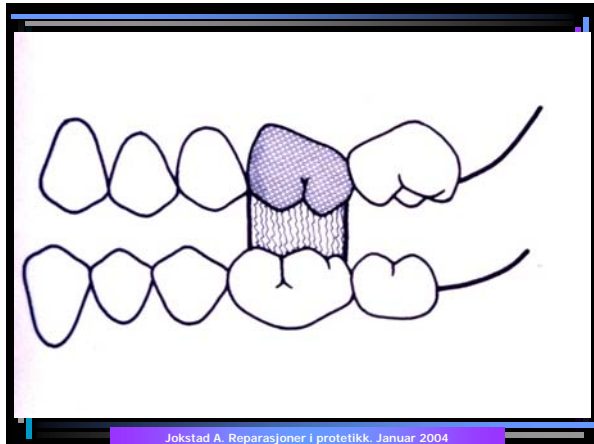
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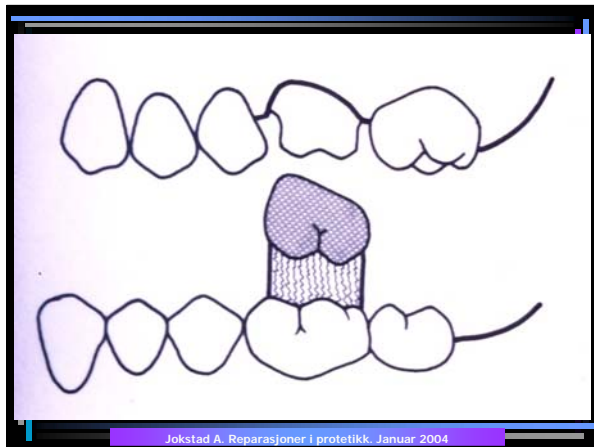
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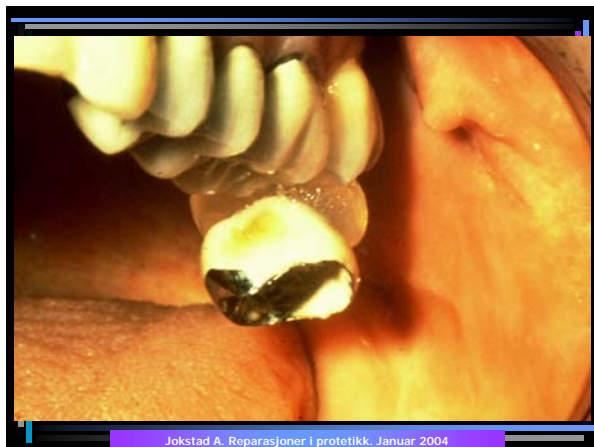
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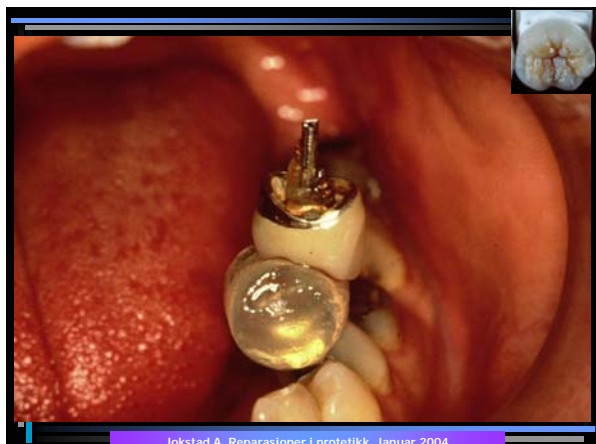
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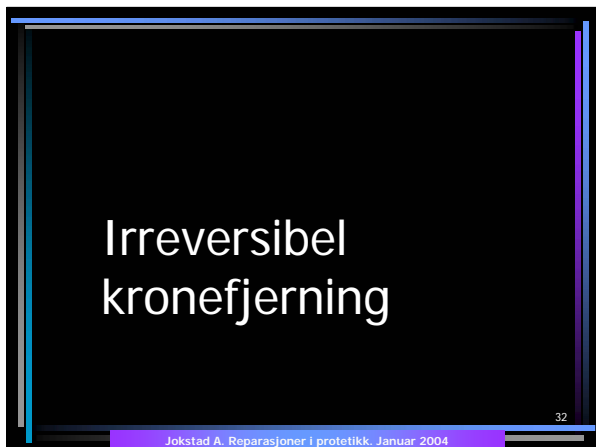
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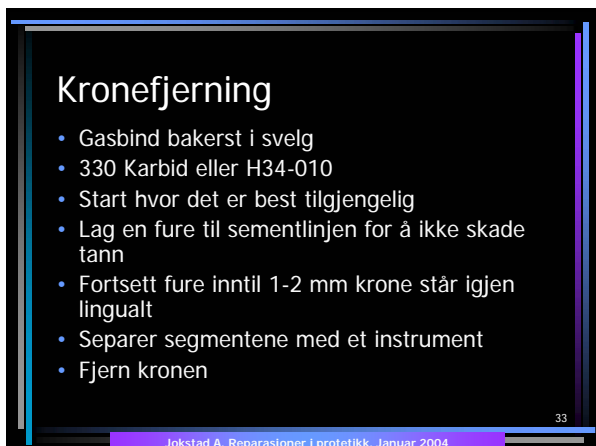
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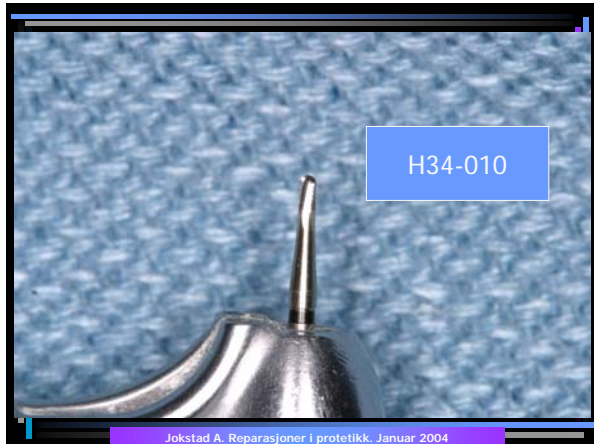
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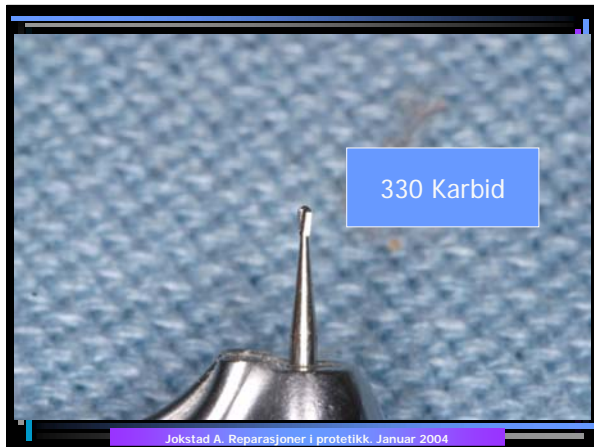
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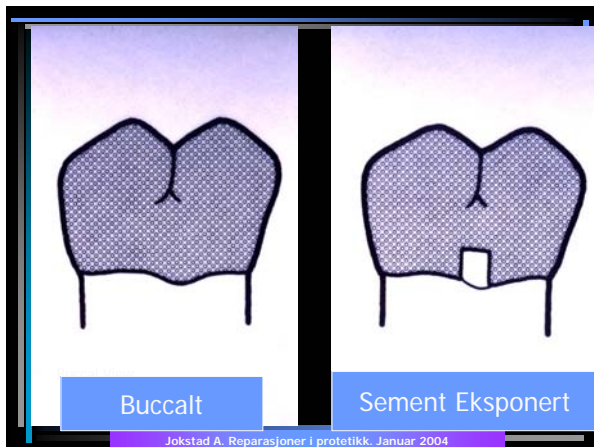
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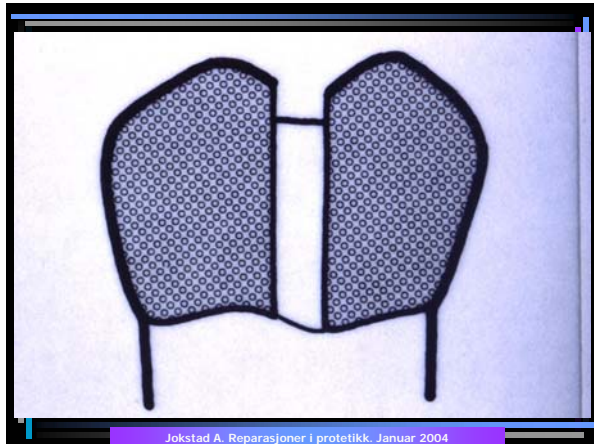
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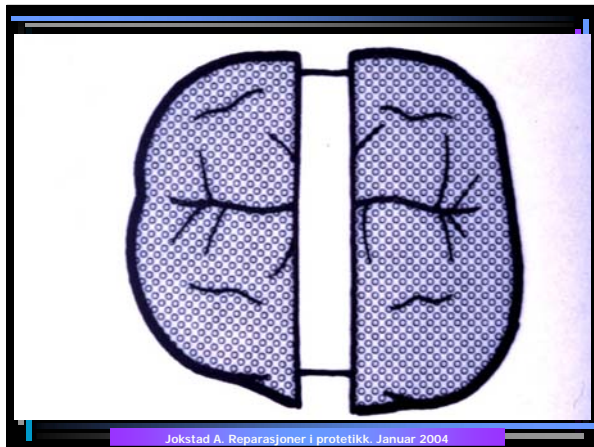
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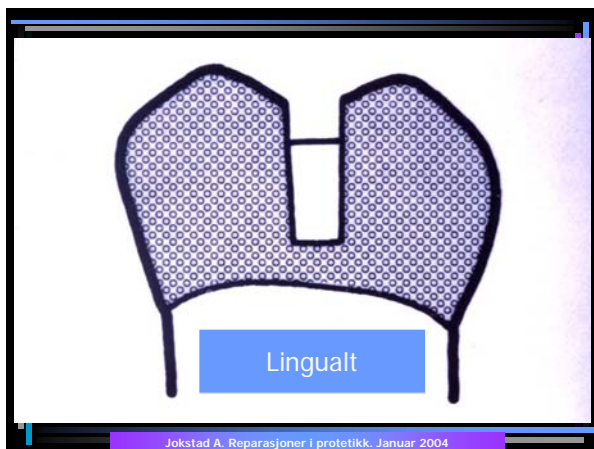
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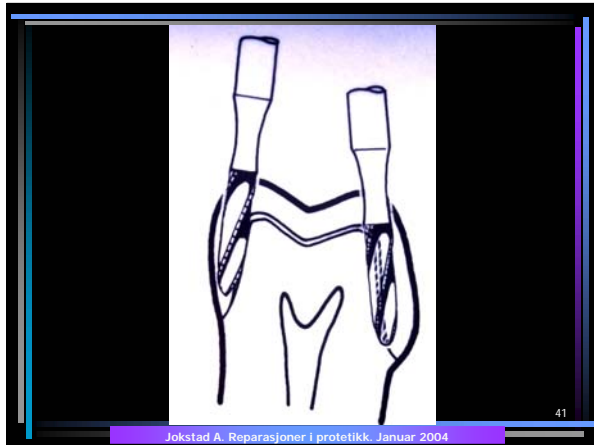
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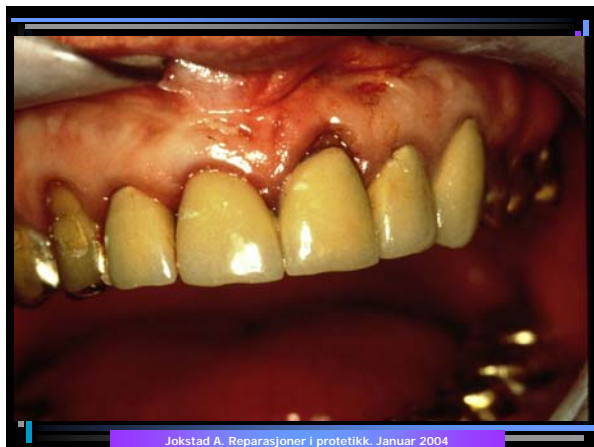
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Vanligste problem med stifter

	Number of posts and cores studied/affected	Mean incidence
Post loosening	2596/135	5%
Root fracture	3043/95	3%
Caries	1047/16	2%
Periodontal disease	283/6	2%

Goodacre et al. 2008

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## Stifter - fjerning

Abbott PV. Incidence of root fractures and methods used for post removal. Int Endod J 2002; 35: 63-7.

Hulsmann M. Methods for removing metal obstructions from the root canal. Endod Dent Traumatol 1993; 9(6): 223-37.



Method	Cast	Parallel	Threaded	Flexipost	Totals
Eggler post remover	91 (39.0)	5 (2.1)	-	-	96 (41.0)
Ultrasonics alone	9 (3.8)	39 (16.7)	-	-	48 (20.5)
Masserann + ultrasonics	5 (2.1)	19 (8.1)	-	1 (0.4)	25 (10.7)
Came out with crown	49 (20.9)	6 (2.6)	1 (0.4)	-	56 (23.9)
Unscrawed with pliers	-	-	9 (3.8)	-	9 (3.8)
Totals	154 (65.8)	69 (29.5)	10 (4.3)	1 (0.4)	234 (100)

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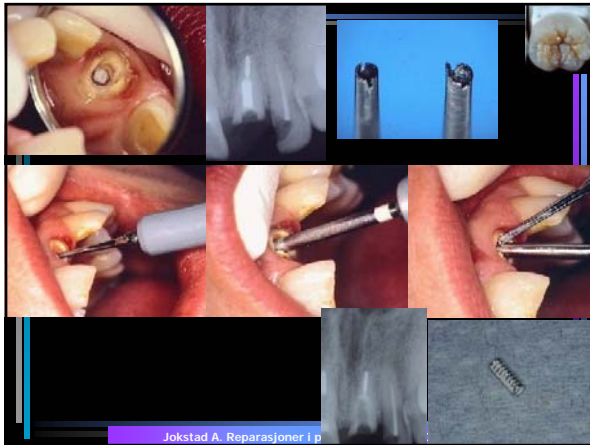
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## Resementering

- Retensjonen blir alltid redusert
- Sementers retinerende egenskaper er redusert ved dårlig tilpassning:
  - Glassionomersement: noe
  - SinkFosfatsement: mye
  - Polykarbosylatsement: svært mye
- Sandblås insiden før resementering
- Vurder preparering og/eller sementlås og/eller innerkonus



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# Sandblasters

- 1a. Accu-Prep Deluxe/Dento-Prep  
Rönvig/Bisco
- 1b. Microetcher II/Microetcher IIA  
Danville Engineering

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## BEHANDLING - CANDIDA

- ORAL HYGIENE
- DAG OG NATT
- FJERNING AV TRYKK IRRITASJON
- MEDIKAMENTELL
- KIRURGISK

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## BEHANDLING - CANDIDA

### TRYKKAVLASTNING

- VISCO-GEL
- KERR-FITT

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BEHANDLING - CANDIDA -  
MEDIKAMENTELL



- CORSODYL
- FUNGIZONE
- DUMICOAT
- MYCOSTATIN
- SPESIFIKKE ANTIFUNGALE LM
  - NYSTATIN
  - AMFOTERICIN B

52

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