# Endodontiai (Pizzolálás A napi praxis gyakonat aktuális kérdésel (Pizzolálás) PTE M. Krain

#### QUALITY GUIDELINES

# Quality guidelines for endodontic treatment: consensus report of the European Society of Endodontology

**European Society of Endodontology** 

### Isolation of tooth

Root canal treatment procedures should be carried out only when the tooth is isolated by rubber dam to: prevent salivary and bacterial contamination, prevent inhalation and ingestion of instruments and prevent irrigating solutions escaping into the oral cavity.



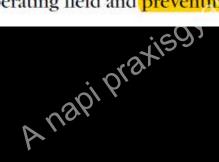
### **AAE POSITION STATEMENT**

The following statement was prepared by the AAE Clinical Practice Committee. AAE members may photocopy this position statement for distribution to patients or referring dentists.

#### **DENTAL DAMS**

The American Association of Endodontists is dedicated to excellence in the art and science of endodontics and to the highest standards of patient care. The accumulated clinical knowledge and judgment of the practitioner supported by evidence-based scientific research is the basis for endodontic treatment. Tooth isolation using the dental dam is the standard of care; it is integral and essential for any nonsurgical endodontic treatment.

A dental dam is a latex or nonlatex sheet with a hole punched in the material to allow placement around the tooth during the endodontic procedure. One of the primary objectives of endodontic treatment is disinfection of the root canal system. Only dental dam isolation minimizes the risk of contamination of the root canal system by indigenous oral bacteria. The dental dam also offers other benefits, such as aiding in visualization by providing a clean operating field and preventing ingestion or aspiration of dental materials, irrigants and instruments.





# Guide to Clinical Endodontics

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Sixth Edition

### Dental Dams

#### Indications for Treatment

Tooth isolation using the dental dam is the standard of care; it is integral and essential for any nonsurgical endodontic treatment. One of the primary objectives of endodontic treatment is disinfection of the root canal system. Only dental dam isolation minimizes the risk of contamination of the root canal system by indigenous oral bacteria. The dental dam also offers other benefits, such as aiding in visualization by providing a clean operating field and preventing ingestion or aspiration of dental materials, irrigants and instruments.



BMJ Open Discordance between presumed standard of care and actual clinical practice: the example of rubber dam use during root canal treatment in the National Dental Practice-Based Research Network 2015.5:e009779. doi:10.1136/bmiopen-2015-009779

Gregg H Gilbert, 1 Joseph L Riley, 2 Paul D Eleazer, 3 Paul L Benjamin, 4 Ellen Funkhouser, 5 National Dental PBRN Collaborative Group

Conclusions: General dentists have substantial variation in attitudes about rubber dam use. Beliefs that rubber dam use is not effective, inconvenient, time-consuming, not easy to place or affected by patient factors were independently and significantly associated with lower rubber dam use. These attitudes explain why there is substantial discordance between presumed standard of care and actual practice.

### RESEARCH ARTICLE

### **Open Access**

# Why dentists don't use rubber dam during endodontics and how to promote its usage?

CrossMark

Ahmad A. Madarati

**Table 1** Frequency of rubber dam use

Use of rubber dam (%)			
Yes	No	Total	
28 (84.8 %)	5 (15.2 %)	33 (100 %)	
9 (100 %)	0 (0 %)	9 (100 %)	
33 (21.6 %)	120 (78.4 %)	153 (100 %)	
8 (57.1 %)	6 (42.9 %)	14 (100 %)	
78 (37.3 %)	131 (62.7 %)	209 (100 %)	
	Yes 28 (84.8 %) 9 (100 %) 33 (21.6 %) 8 (57.1 %)	Yes No  28 (84.8 %) 5 (15.2 %) 9 (100 %) 0 (0 %)  33 (21.6 %) 120 (78.4 %) 8 (57.1 %) 6 (42.9 %)	

Table 2 Reasons for not using rubber dam (%)					
Respondents	Difficult use	Time consuming	Not available at work	Others	Total
Endodontists	0	0	80	20	100
GDPs	23.3	16.7	39.2	20.8	100
Others	0	16.7	33.3	50	100
Total	21.4	16	40.5	22.1	100

TOtal 21	1.1	40.5	221 100	
Table 7 Rubber of	dam use accor	ding to type (pla	ice) of work (%)	
Respondents		Private	Academic	Government
GDP		60.8 (9.7)	0.6	38.3 <mark>(37.9)</mark>
Endodontists		27.3 (55.6)	24.2 (100)	48.5 (93.8)
Endo Postgraduate	students	0 (0)	0 (0)	37.5 (100)
Other		31.6 (33.3)	21.1 (66.7)	42.1 (80)
Total		51.5 (14.8)	5.6 (90)	40.3 (53.7)

The values in parentheses represent proportion of respondents who currently use RD

## Attitudes and use of rubber dam by Irish general dental practitioners

### C. D. Lynch<sup>1</sup> & R. J. McConnell<sup>2</sup>

<sup>&</sup>lt;sup>1</sup>Division of Adult Dental Health, School of Dentistry, Cardiff University, Cardiff, UK; <sup>2</sup>University Dental School & Hospital, Wilton, Cork, Ireland

487		
Anterior teeth, n (%)	Premolar teeth, n (%)	Molar teeth, n (%)
114 (39)	84 (32)	51 <mark>(26)</mark>
51 (17)	36 (14)	24 (12)
6 (2)	18 (6)	15 (7)
18 (6)	6 (2)	12 (6)
27 (9)	36 (14)	18 (9)
78 <mark>(27)</mark>	84 <mark>(32)</mark>	78 <mark>(40)</mark>
294 (100)	264 (100)	198 (100)
	n (%)  114 (39)  51 (17)  6 (2)  18 (6)  27 (9)  78 (27)	n (%)  114 (39)  51 (17)  6 (2)  18 (6)  18 (6)  27 (9)  36 (14)  78 (27)  84 (32)

#### THE USE OF RUBBER DAM AMONG CZECH DENTAL PRACTITIONERS

Martin Kapitán, Zdeňka Šustová

Charles University in Prague, Faculty of Medicine and University Hospital Hradec Králové, Czech Republic: Department of Dentistry

ACTA MEDICA (Hradec Králové) 2011; 54(4):144–148

### Tab. 2: Reported use of rubber dam in different materials and treatment

Material/	Regularly	Occasion-	Never
treatment	n (%)	ally n (%)	n (%)
Amalgam	10(2)	43 (10)	392 (88)
Composite resin	39 (9)	100 (22)	309 (69)
Glassionomer	16 (4)	64 (14)	366 (82)
cement	10 (4)	04 (14)	300 (82)
Root canal	42(9)	76 (17)	329 (74)
treatment	42 (7)	/6(1/)	329 (74)

# Influence of rubber dam on objective and subjective parameters of stress during dental treatment of children and adolescents – a randomized controlled clinical pilot study

### PATRICIA AMMANN¹, ANDREAS KOLB², ADRIAN LUSSI¹ & RAINER SEEMANN¹.3

<sup>1</sup>Department of Preventive, Restorative and Pediatric Dentistry, University of Bern, Bern, Switzerland, <sup>2</sup>Dental Practice Dr. Andreas Kolb, Heide (Holstein), Germany, and <sup>3</sup>Universitätsmedizin Charité, Berlin, Germany

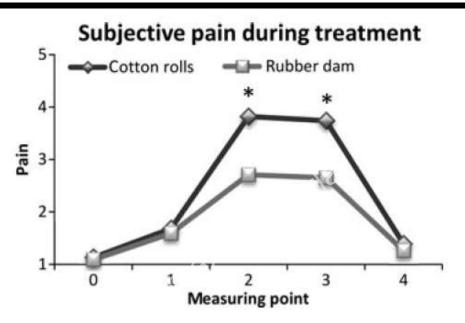


Fig. 1. Patient's subjective pain perception (1 = no pain and 10 = strong pain) (\*P < 0.05). See Table 1 for explanation of measuring points.

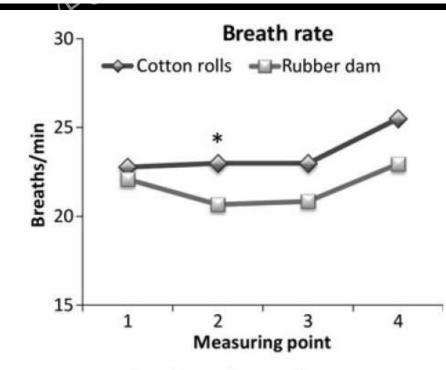
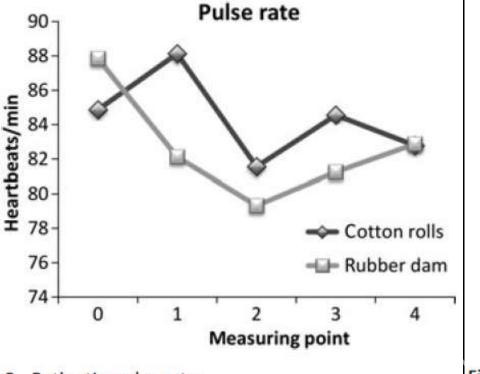


Fig. 2. Patient's breath rate (\*P < 0.05).



Measuring point

3. Patient's pulse rate.

Fig. 5. Deviation from operator's rest pulse (\*P < 0.05).

Conclusion. Isolation with rubber dam caused less stress in children and adolescents compared to relative isolation with cotton rolls if applied by an experienced dentist.

Deviation from rest pulse

(heartbeats/min)

10-

8-

6-

Deviation from rest pulse

Cotton rolls

---Rubber dam \*

### Figyelembe venni:

Latex allergia: szilikon lepedő.

Szájlégzők: "elcsúsztatott" keret elhelyezés a szájnyílás részleges szabadonhagyásával Biszfoszfonát terápia

Review

### Bisphosphonates and their clinical implications in endodontic therapy International Endodontic Journal, 46, 391–398, 2013

A.-T. Moinzadeh<sup>1</sup>, H. Shemesh<sup>1</sup>, N. A. M. Neirynck<sup>2</sup>, C. Aubert<sup>3</sup> & P. R. Wesselink<sup>1</sup>

Endodontic therapy has not been identified as a significant risk factor for promoting BRONJ and is therefore considered as the favoured alternative to extraction



A one minute mouth rinse with chlorhexidine prior to the start of the treatment would lower the bacterial load of the oral cavity (Cousido *et al.* 2010) and aim at decreasing the bacteremia caused by any soft tissue trauma.

Working under aseptic conditions is mandatory. This includes steps such as the removal of caries and leaking restorations, the cleaning of the tooth and the placement of a rubber dam prior to the start of the intracanal procedures. The proper adaptor of the intracanal procedures.

Particular care should be given to avoid any damage to the gingival tissues during the placement of a rubber dam clamp (Kyrgidis 2009). An alterna-



### Kofferdam felhelyezése Szárnyas technika

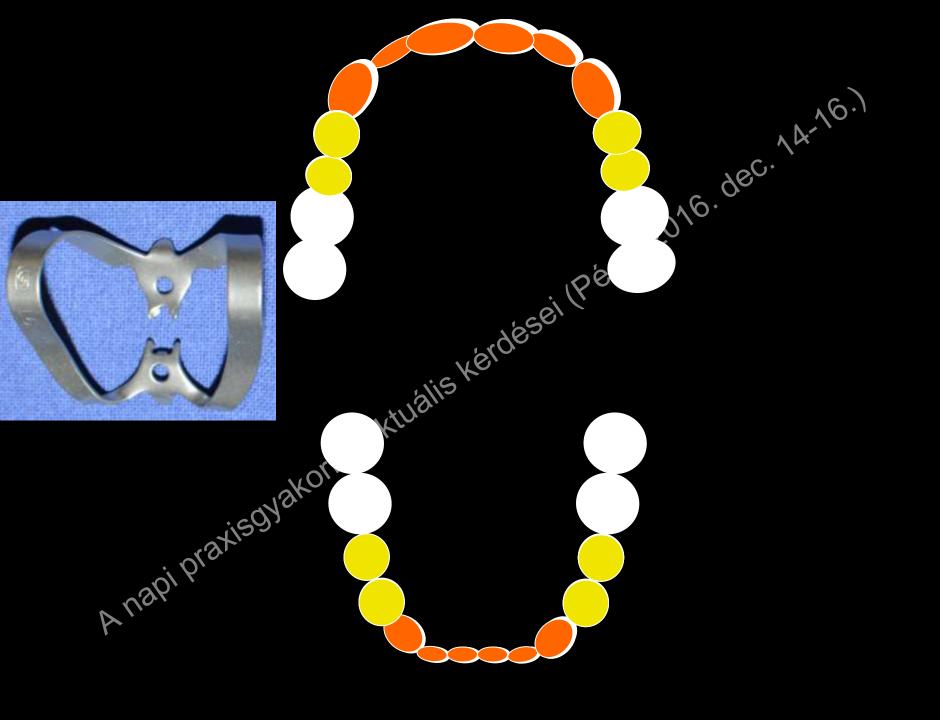














Anapi praxisgyakon

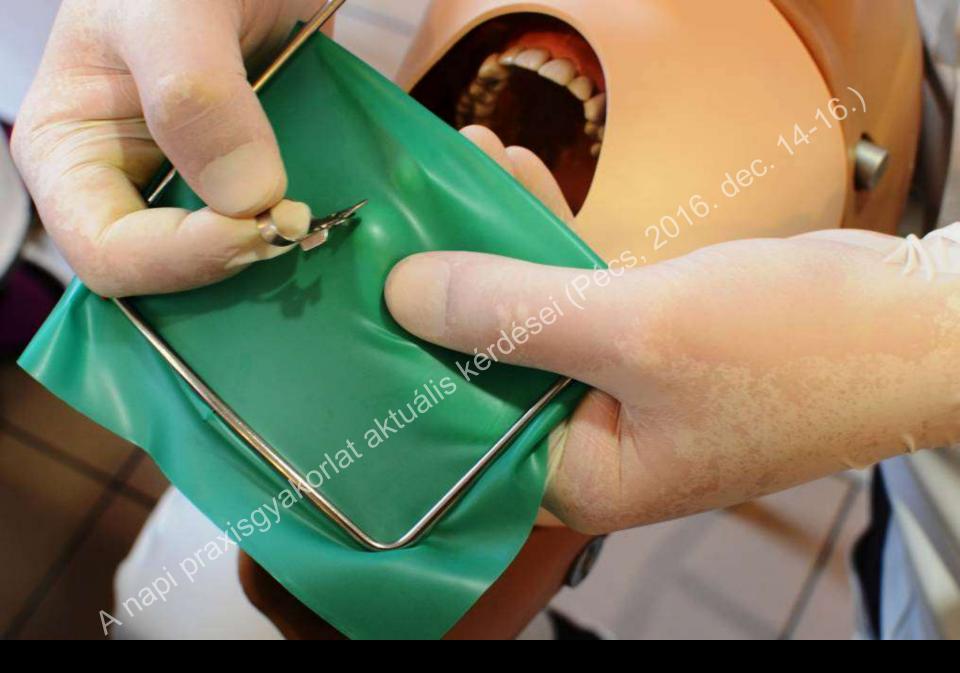








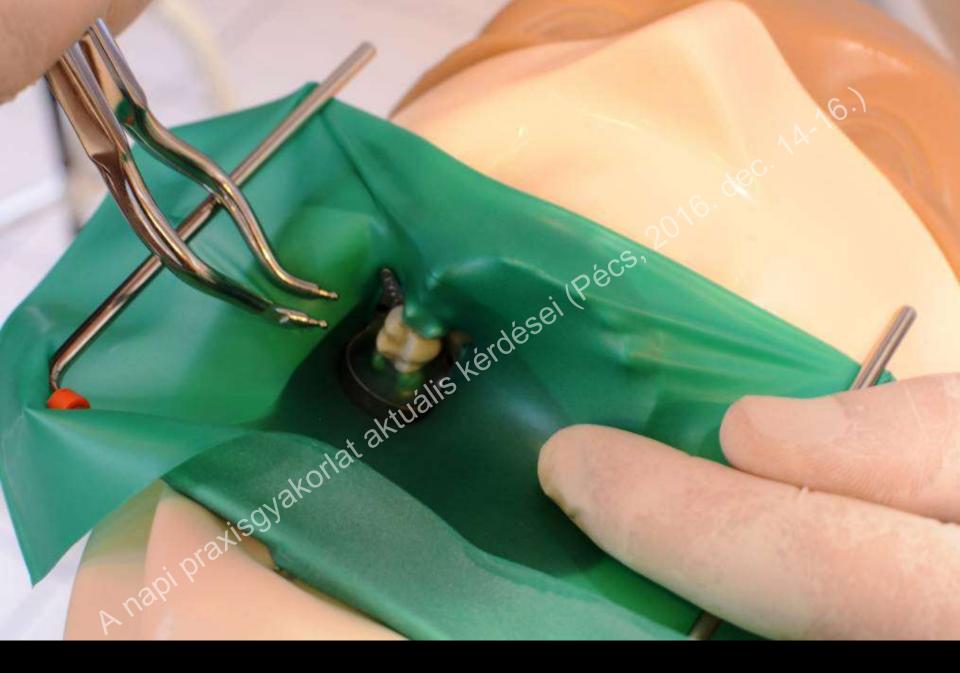


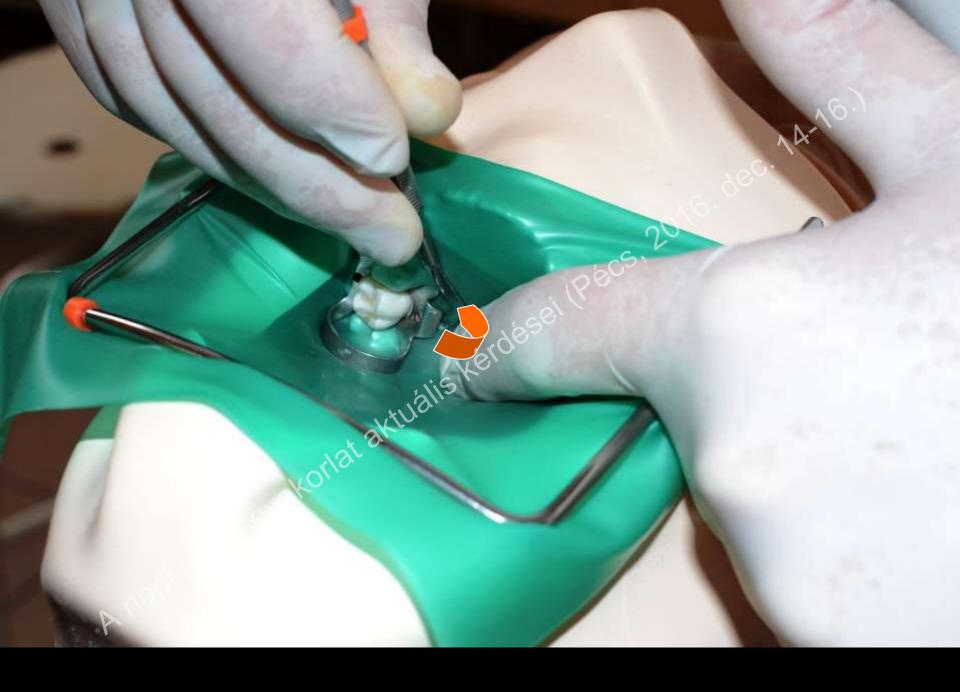




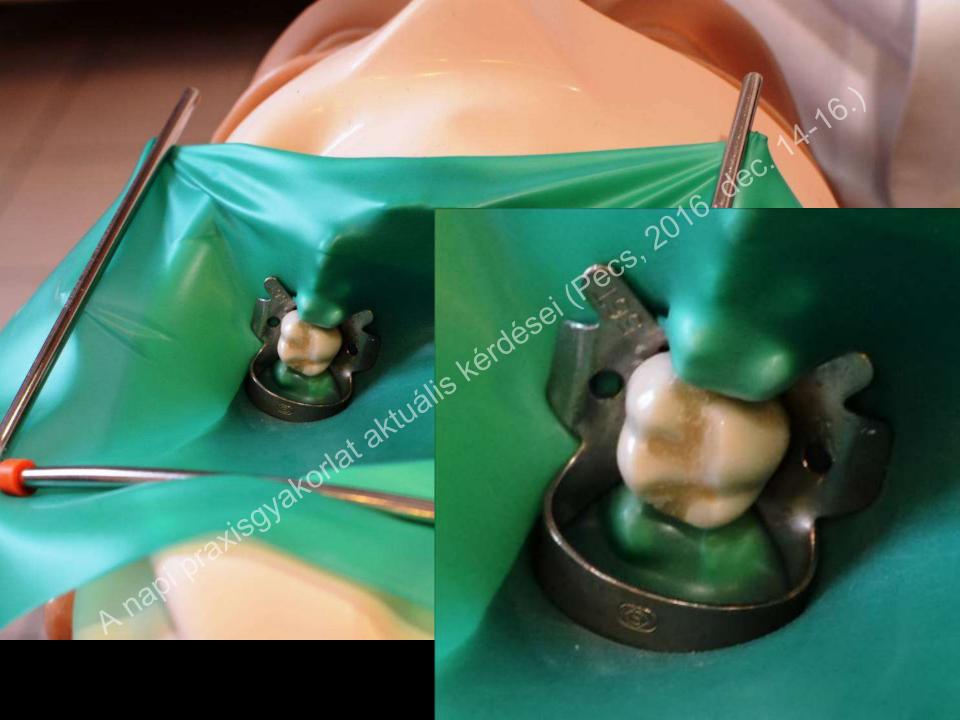






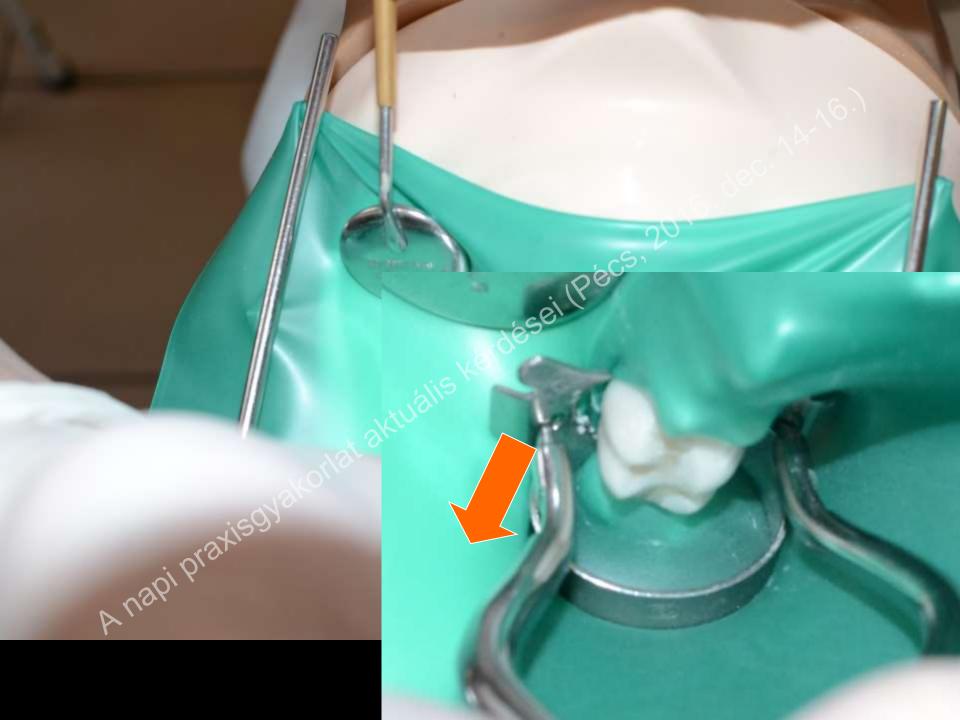








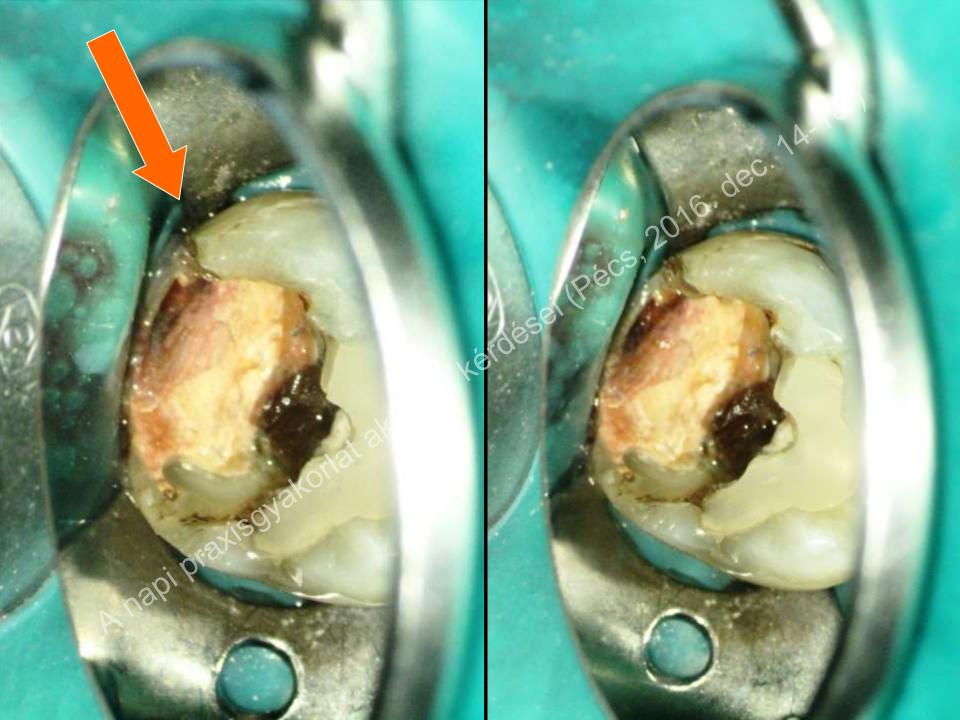




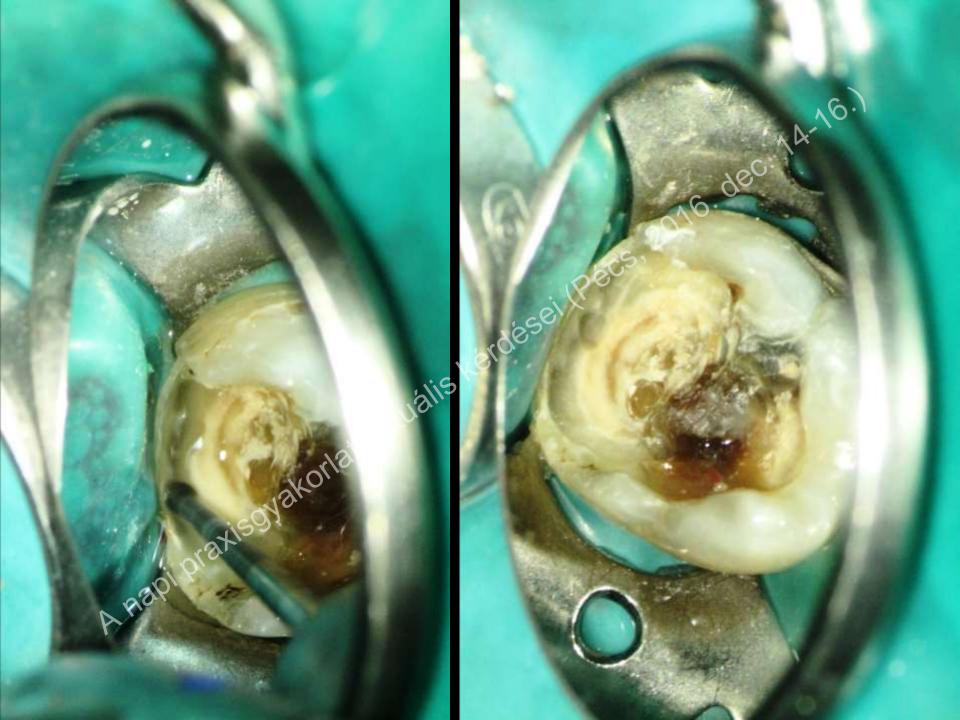


A napi praxisgyakonat aktualis kerdései (Pecs, Ante











### Marginális szivárgás

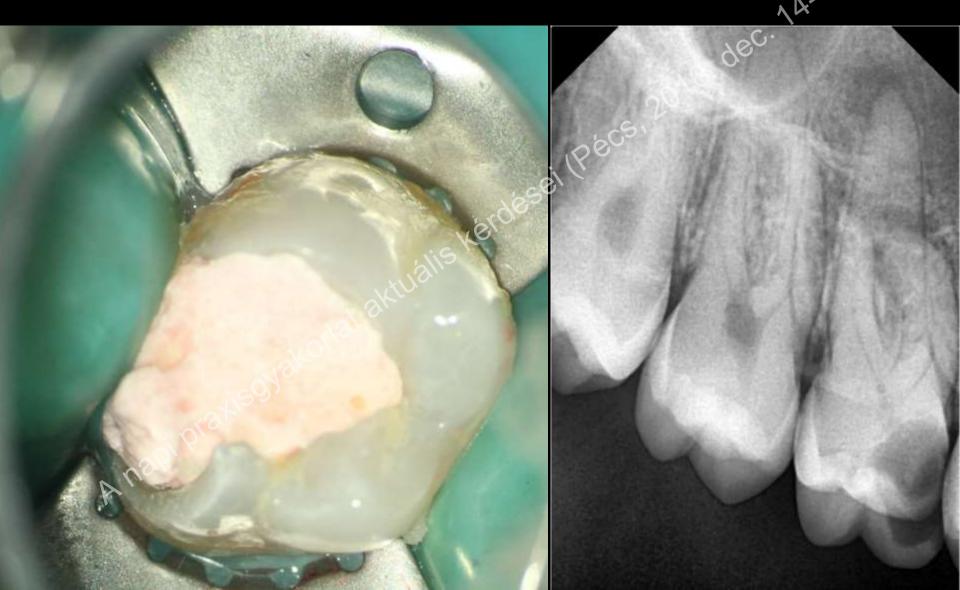






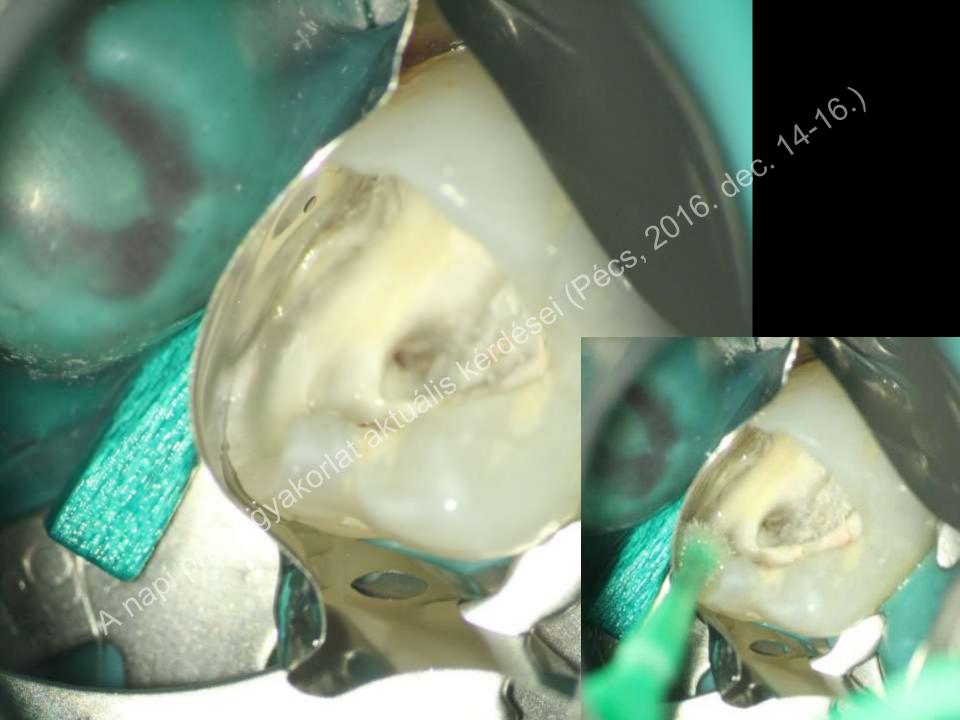


# Preendodontiai felépítés

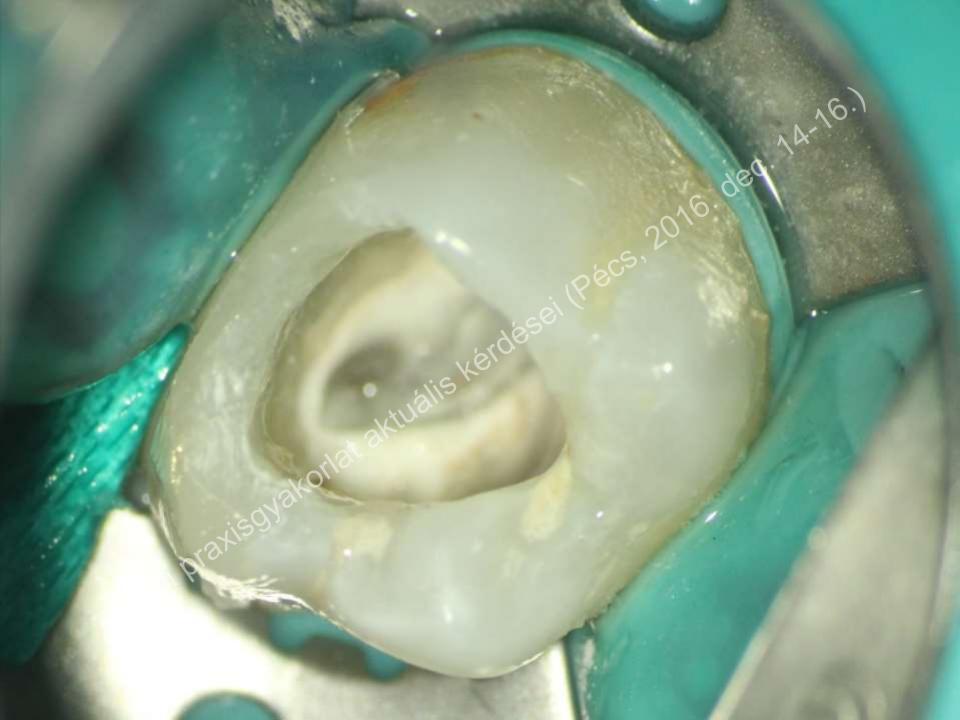








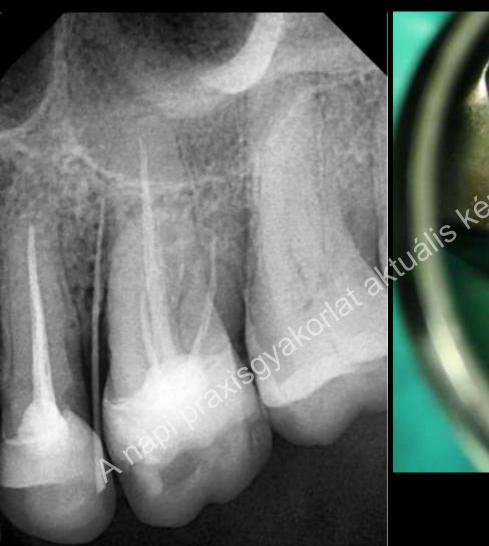






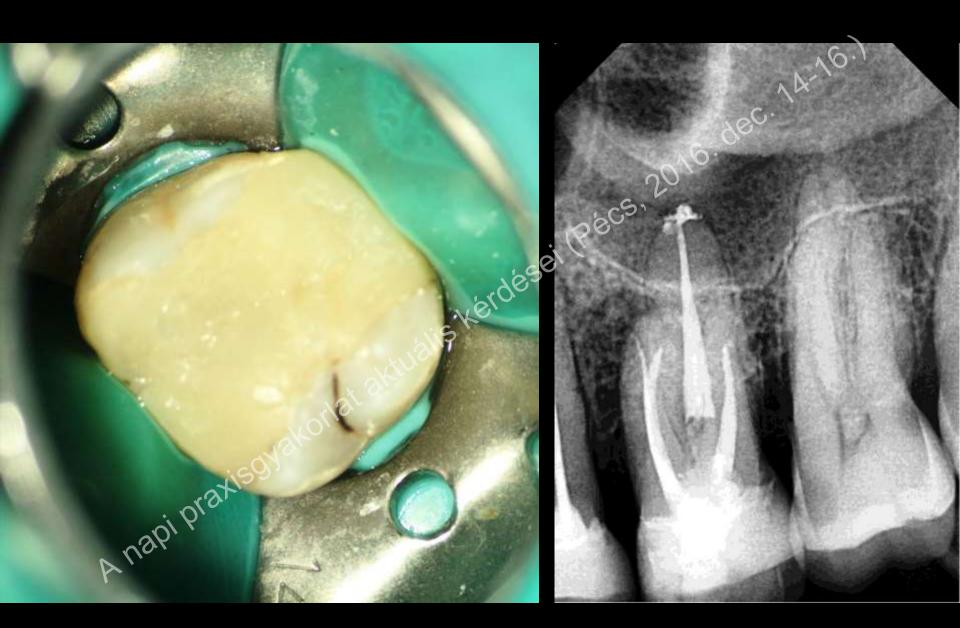


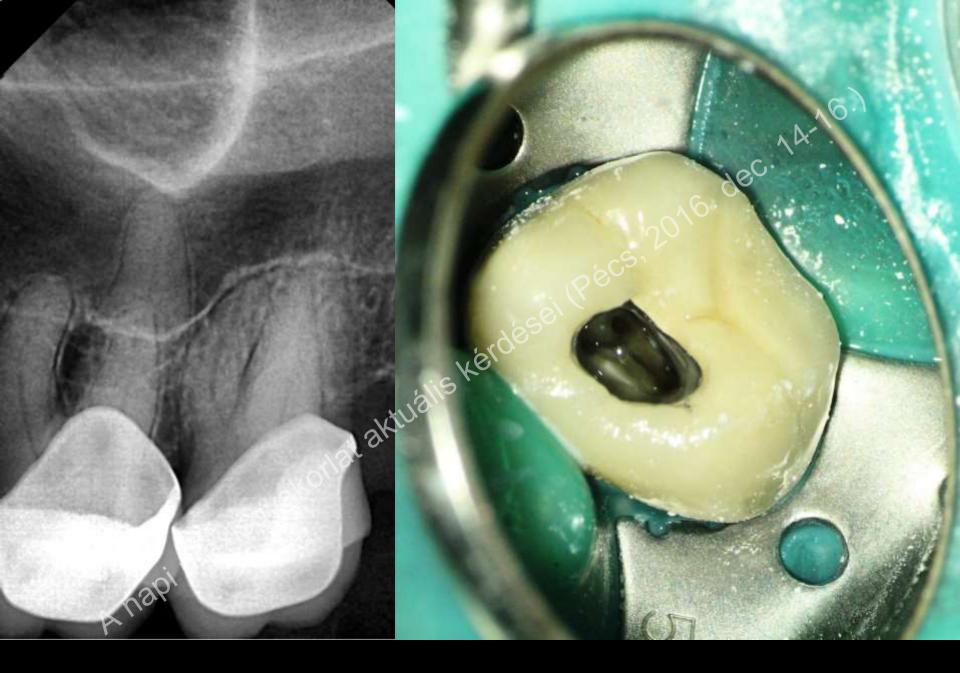
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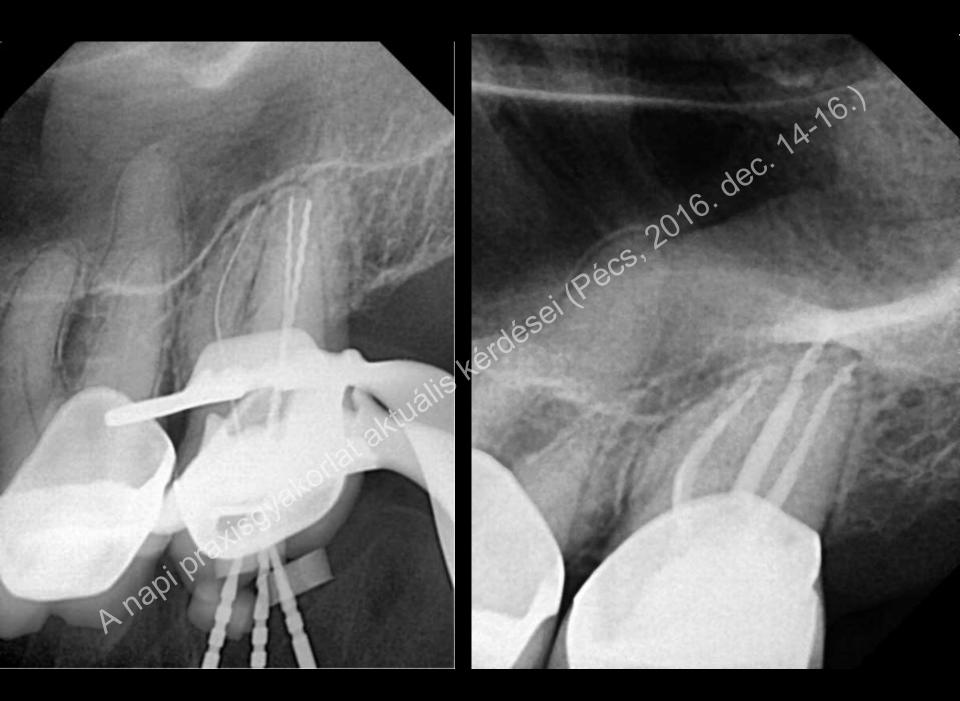


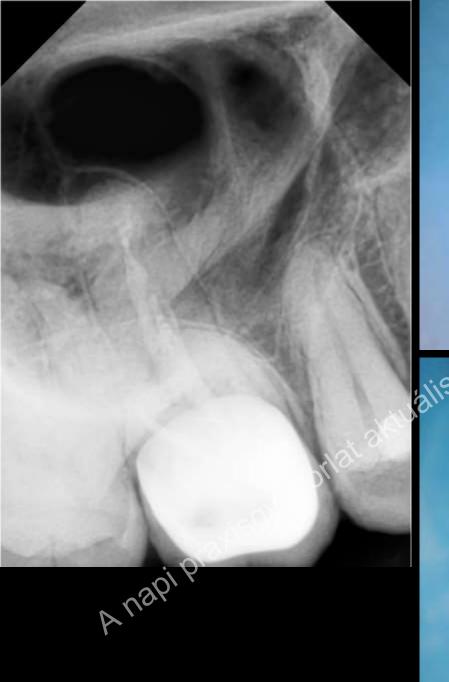




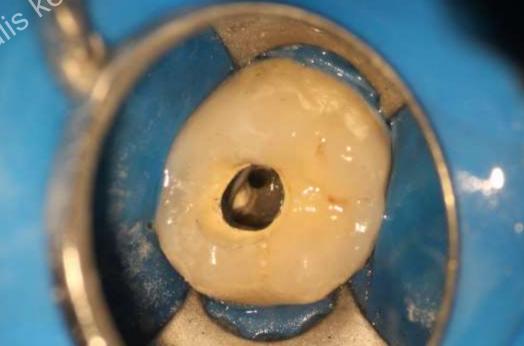






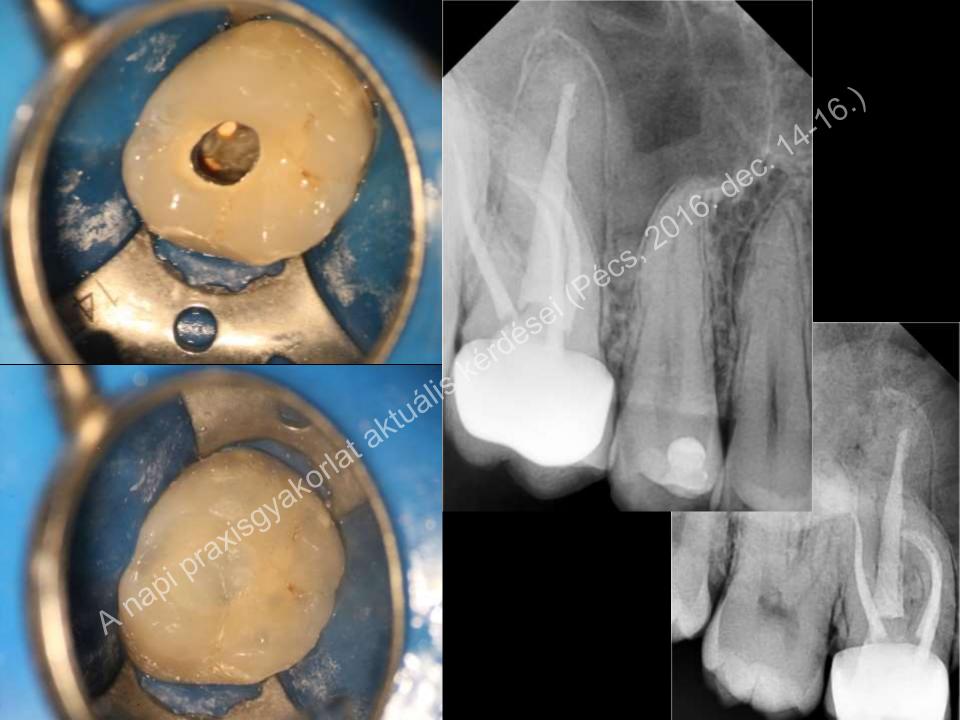






### Átöblítéskor elszívás!







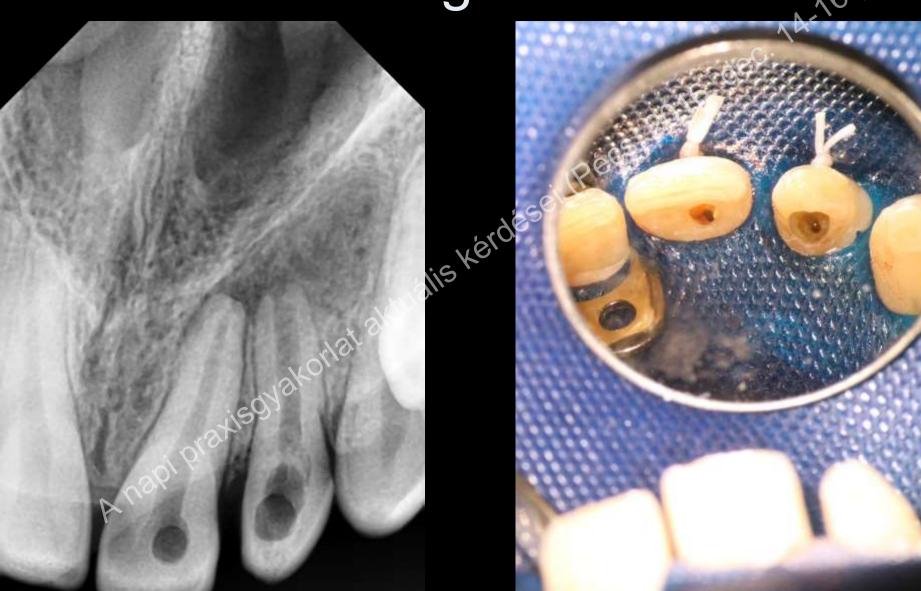


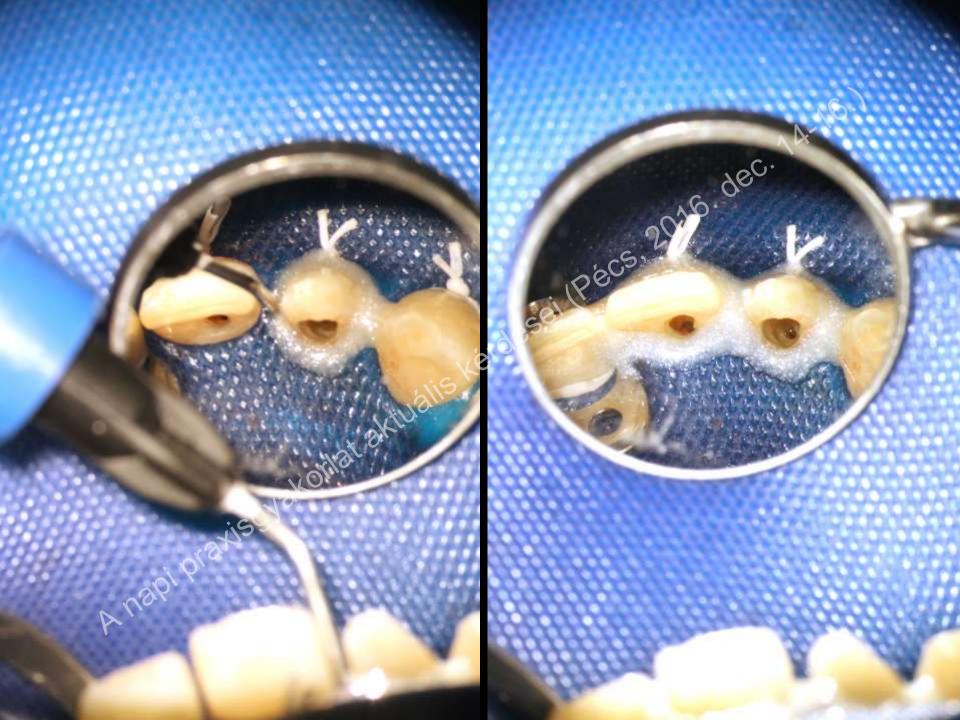
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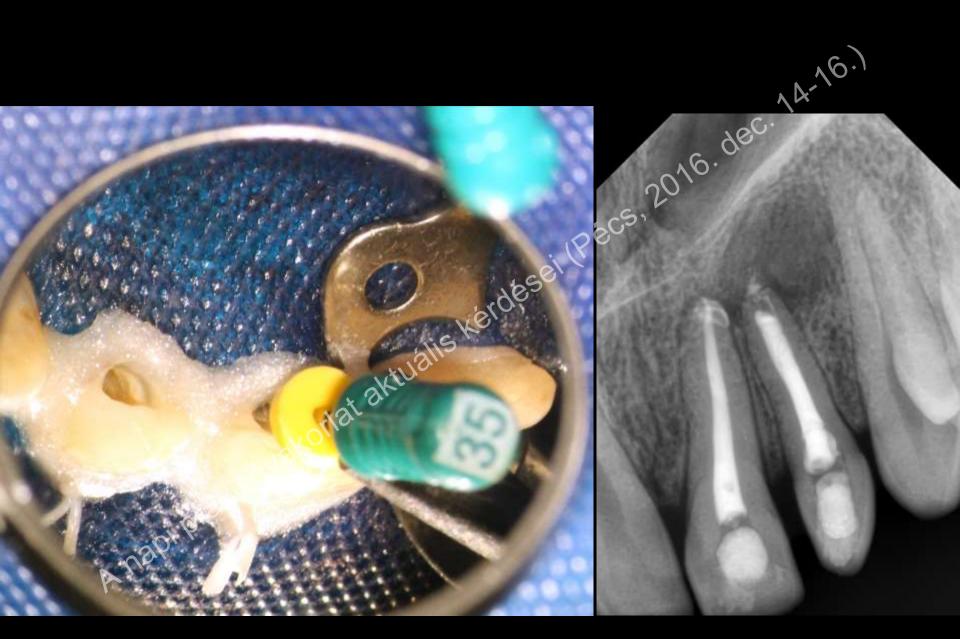




Több fog izolálása





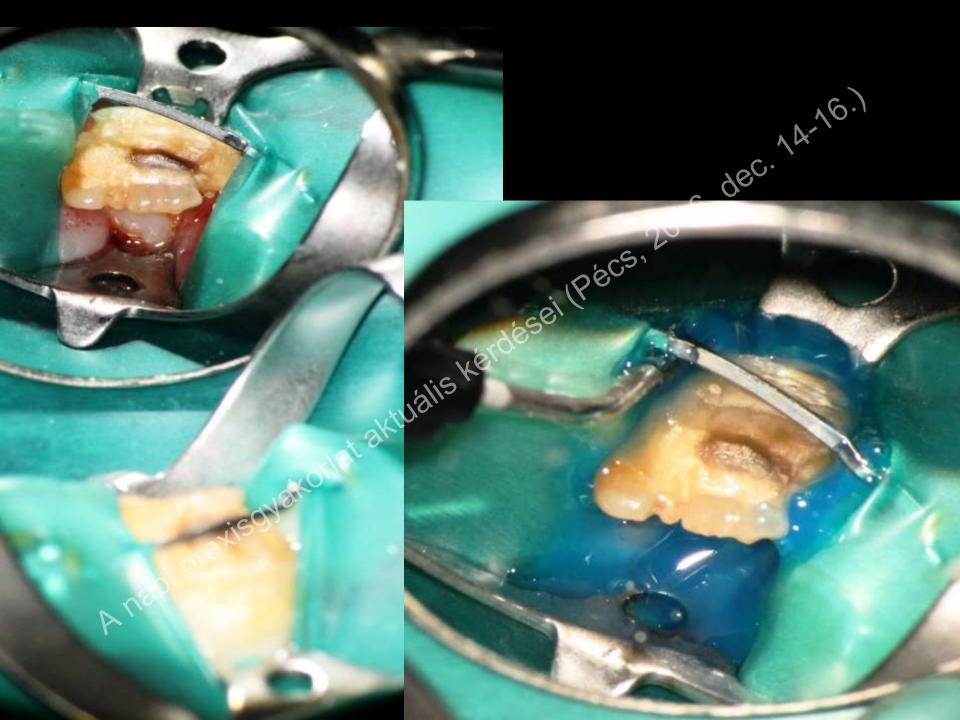






## Fogszabályozó készülék (6.)







antualis kėrdėsei (Pėcs, 2016, dec. 14-1 ar praxisgyakori

## Nehéz kapocsrögzítés







### Összefoglalás

Kofferdam izolálás kötelező.

Sokan mégsem akalmazzák.

Egyszerű akaptechnika (szárnyas).

A rapi prelőfordul izolálási nehézség.

### Destruált fog helyreállíthatósága is kérdéses.

## Quality guidelines for endodontic treatment: consensus report of the European Society of Endodontology International Endodontic Journal, 39, 921–930, 2006

**European Society of Endodontology** 

doi:10.1111/j.1365-2591.2006.01180.x

### Contra-indications for root canal treatment

- 1 Teeth that cannot be made functional nor restored.
- **2** Teeth with insufficient periodontal support.
- **3** Teeth with poor prognosis, uncooperative patients or patients where dental treatment procedures cannot be undertaken.
- **4** Teeth of patients with poor oral condition that cannot be improved within a reasonable period.

