

## ZEPF ApoCAPPING

- faster
- easier to handle
- covering the apex delta
- no microscope required
- no unnecessary weakening of the surrounding areas
- clean conditions behind the tooth

Since 2007 University Professor DDr. Alexander Gaggl (University of Salzburg) and Helmut Zepf are addressing an efficient surgical-endodontical procedure to cover the apical delta of teeth with a root resection which were supposed to be extracted as a last option.

The idea of Prof. Gaggl has been technically tested and implemented with **HELMUT ZEPF**. In the further course of the project the system was made ready for series production with DDr. Enzinger (University of Salzburg).

The aim of this development was to establish a fast and easy procedure to cover the apical delta in a safe way, without using a surgical microscope. The natural tooth must be preserved without weakening its structures unnecessarily. Regular or existing instruments can be used for accessing and closing the surgical field.

Only for the preparation of the edge at the apex special retrograde piezo inserts are used which are compatible with Mectron. For closing, newly developed titanium closing caps are used. The caps are fixed on the snag with retrograde inserts using glass ionomer cement.

This makes it possible to achieve **ApoCAPPING**.



47.041.00

ZEPF ApoCAP Set



## ZEPF ApoCAPPING

### Clinical use:

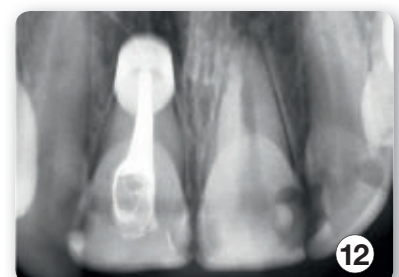
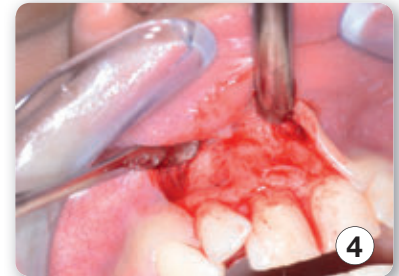
- clinical studies with 25 patients showing apical radiolucencies for more than 1 year
- present period of study 2 years and 3 months
- 25 probands with a post-operative follow-up period of more than 6 months (32 caps)
- clinical and radiological control directly post-operative, 3, 6 and 12 months post-operative

### Results:

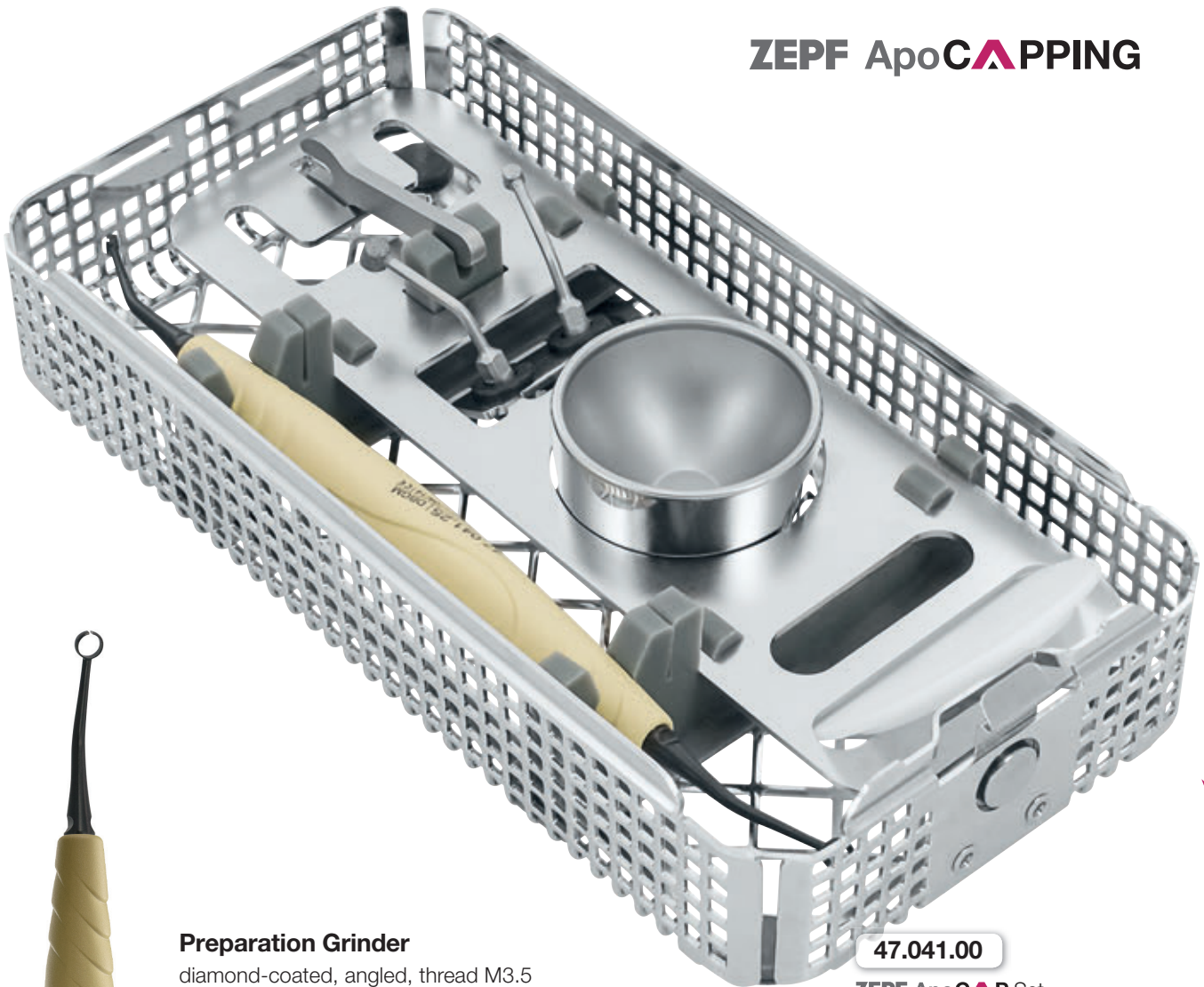
- all procedures were performed without essential technical difficulties
- patients showed mild post-operative health discomforts
- entire release of discomfort (NAS) at the latest 5 days post operation
- one tooth was lost (only after a longitudinal fracture was caused by a pin insertion)
- radiological checks 1 year post operation shows a good bone regeneration

### Source:

DDr. Enzinger,  
 Universität Salzburg, Austria



## ZEPF ApoCAPPING



### Preparation Grinder

diamond-coated, angled, thread M3.5

47.041.00

ZEPF ApoCAP Set



47.041.10

Ø 3 mm



47.041.11

Ø 4 mm

### Optional: Caps

Titanium, PU 5 pieces



47.041.31\*

3 mm, small



47.041.32\*

4 mm, big



47.041.50

Fork Wrench

47.041.25

Fixation Instrument Universal



85.251.04

Mixing Cup, stainless steel, with plastic lid, Ø 4 cm

Illustration	Article Description	Order Quantity
	<b>47.041.00</b> <b>ZEPF ApoCAP Set,</b> Apical Capping System, incl. washbasket 1/3	1 set
consisting of:		
	<b>47.041.25</b> Fixation Instrument Universal, in <b>BIONIK</b> handle, yellow	1 piece
	<b>47.041.10</b> Preparation Grinder, Ø 3 mm, diamond-coated, angled, thread M3.5	1 piece
	<b>47.041.11</b> Preparation Grinder, Ø 4 mm, diamond-coated, angled, thread M3.5	1 piece
	<b>47.041.50</b> Fork Wrench	1 piece
	<b>85.251.04</b> Mixing Cup, stainless steel, with plastic lid, Ø 4 cm	1 piece
<b>Optional: Not included in the set</b>		
	<b>47.041.31*</b> Caps, 3 mm, titanium, small	5 pieces
	<b>47.041.32*</b> Caps, 4 mm, titanium, big	5 pieces

