

UNIVY

T E C H N O L O G Y

UNIVY TECHNOLOGY ADVANCED CO. LTD.

SINCE 2010 - BRAZIL

SINCE FACTORY - 2021 CHINA

SINO-BRAZILIAN COMPANY





Company information



RESEARCH, DEVELOPMENT, MANUFACTURING AND SALES

- Endodontic and Orthodontic Products



GLOBAL SITUATION

- Export to over 30 countries
- All products has ISO, CFDA e ANVISA certified.
- Worldwide sales representatives.



FOCOUS ON TECHNOLOGY AND DEVELOPMENT

- 3% of annual revenue invested in Research and Development.
- Launching new products and applying patents annually.

ENDODONTIC PRODUCTS

PLUS
UNIVY

Glide
UNIVY

NEW
UNIVY

AMV2

SENSE
UNIVY

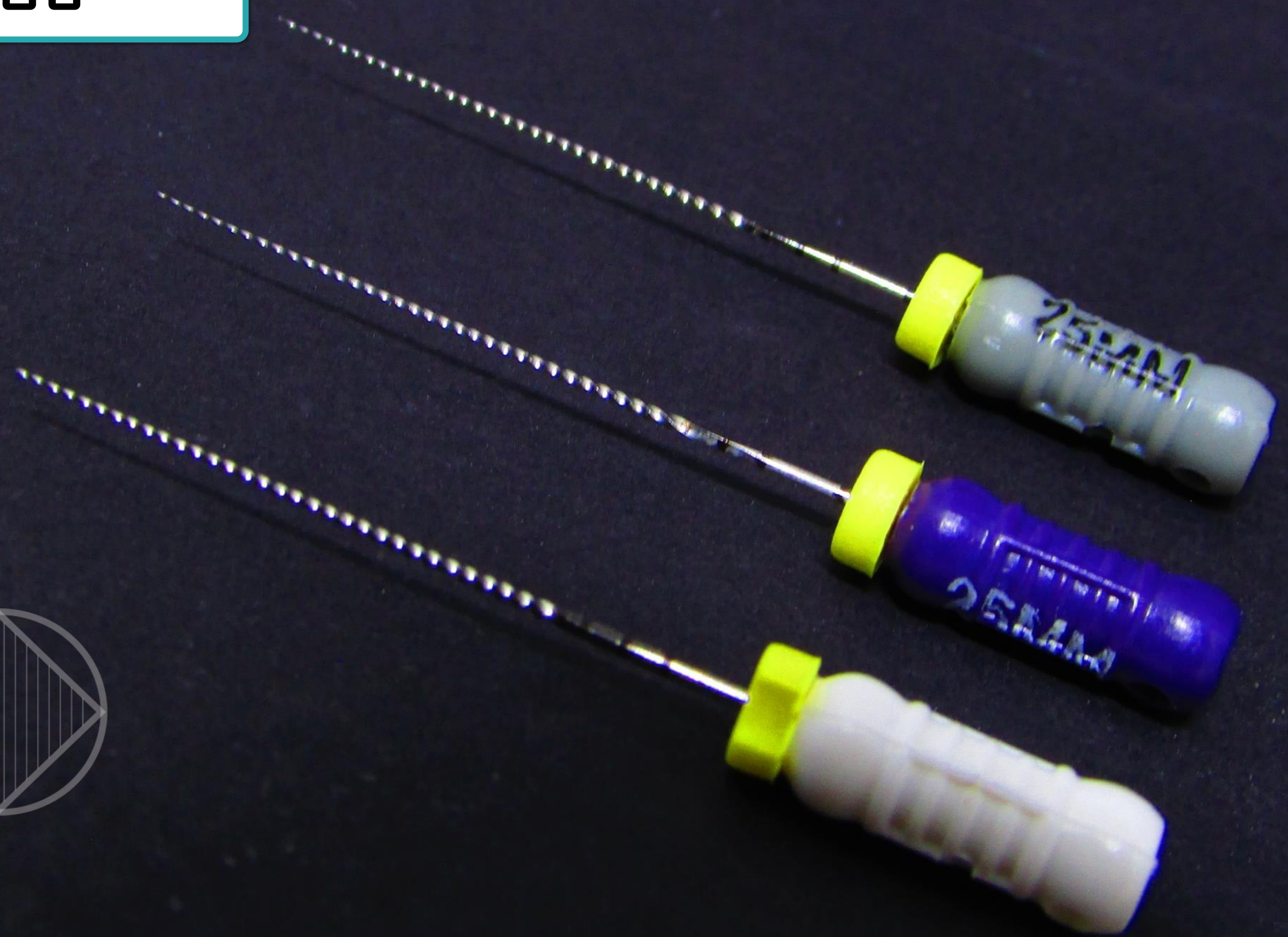
Taper
UNIVY

RENEW
UNIVY

KIDS
UNIVY

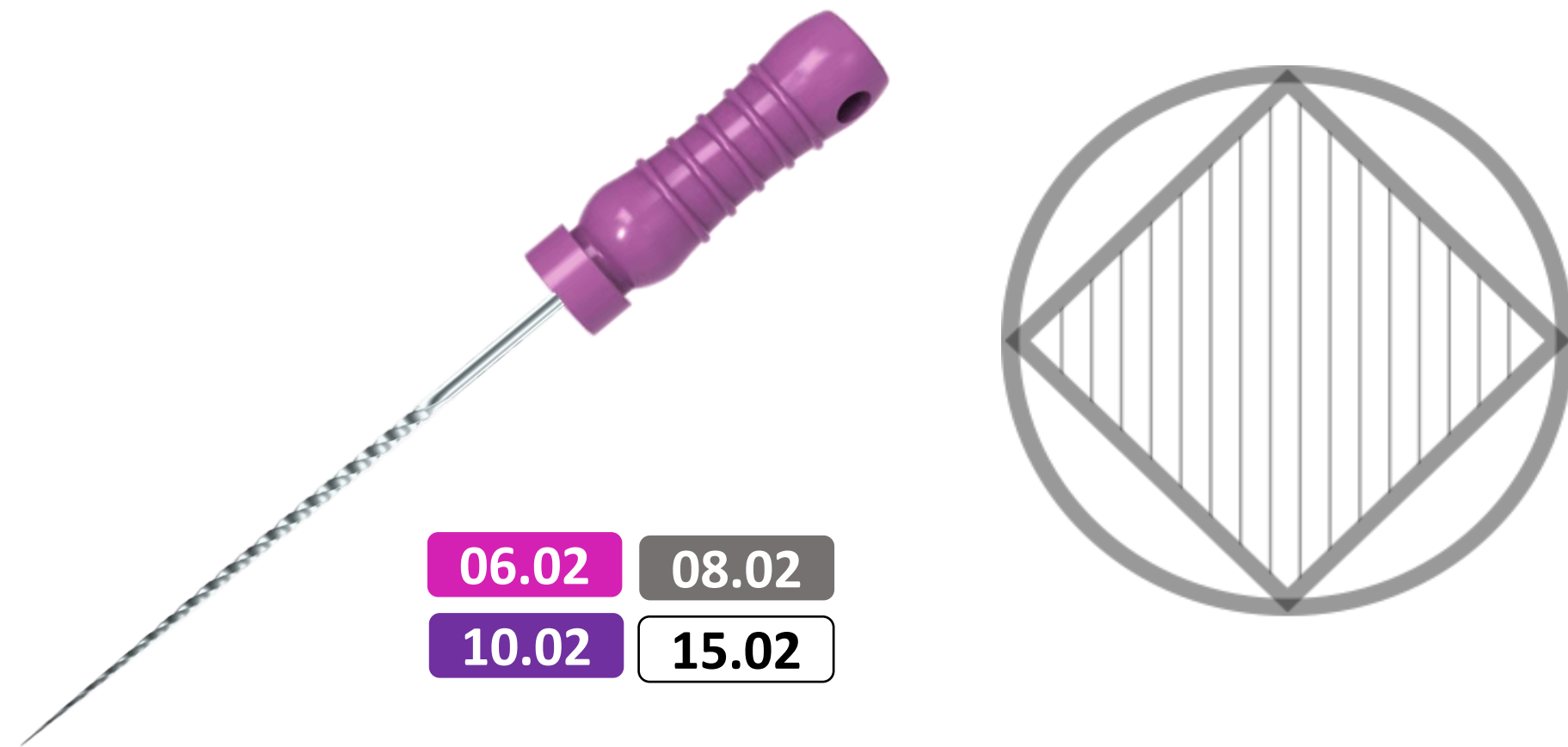


univy PLUS



univy PLUS

Square Cross Section



- 4 cutting edges that improve cutting efficiency
- Excellent fracture resistance
- **Twisted Steel**

Special Heat Treatment

The files have a special heat treatment **increasing their rigidity and fracture resistance**

Especial Design of point



- Special **round tip** design maximizing cutting power and debris removal
- Taper de 0.2 exclent for narrow root canal
- Excellent for patency and channel exploration

univy PLUS



KIT WITH 6 PCS		
Size	Tip	Code
25 mm	8, 10, 15	UP000125
21mm	8, 10, 15	UP000121
31mm	8, 10, 15	UP000131

KIT WITH 4 PCS					
Tip	Taper	21 mm	25mm	31mm	
6 ●	.02	UP060221	UP060225	x	
8 ●	.02	UP080221	UP080225	UP080231	
10 ●	.02	UP100221	UP100225	UP100231	
15 ○	.02	UP150221	UP150225	UP150231	
20 ●	.02	UP200221	UP200225	UP200231	
25 ●	.02	UP250221	UP250225	UP250231	

Univy-T

Univy-T hardening is the procedure performed on all Univy instruments, its main function being to offer flexibility and resistance, providing more efficient cutting and preventing fractures. This is a complex procedure that has several steps, the last being the most important, which basically consists of quickly heating the files to a temperature of 750°C, and then slowly cooling them to obtain greater rigidity in the surface layer of the file.

All Univy files have:

Heat treatment

Univy-T Memory Control

Manufactured with excellent NiTi alloy

UNIVY *Glide*



UNIVY *Glide*

	10.02
	10.03
	13.02
	15.02
	15.03
	20.02
	25.02

Square Cross Section



Especial Design of Taper

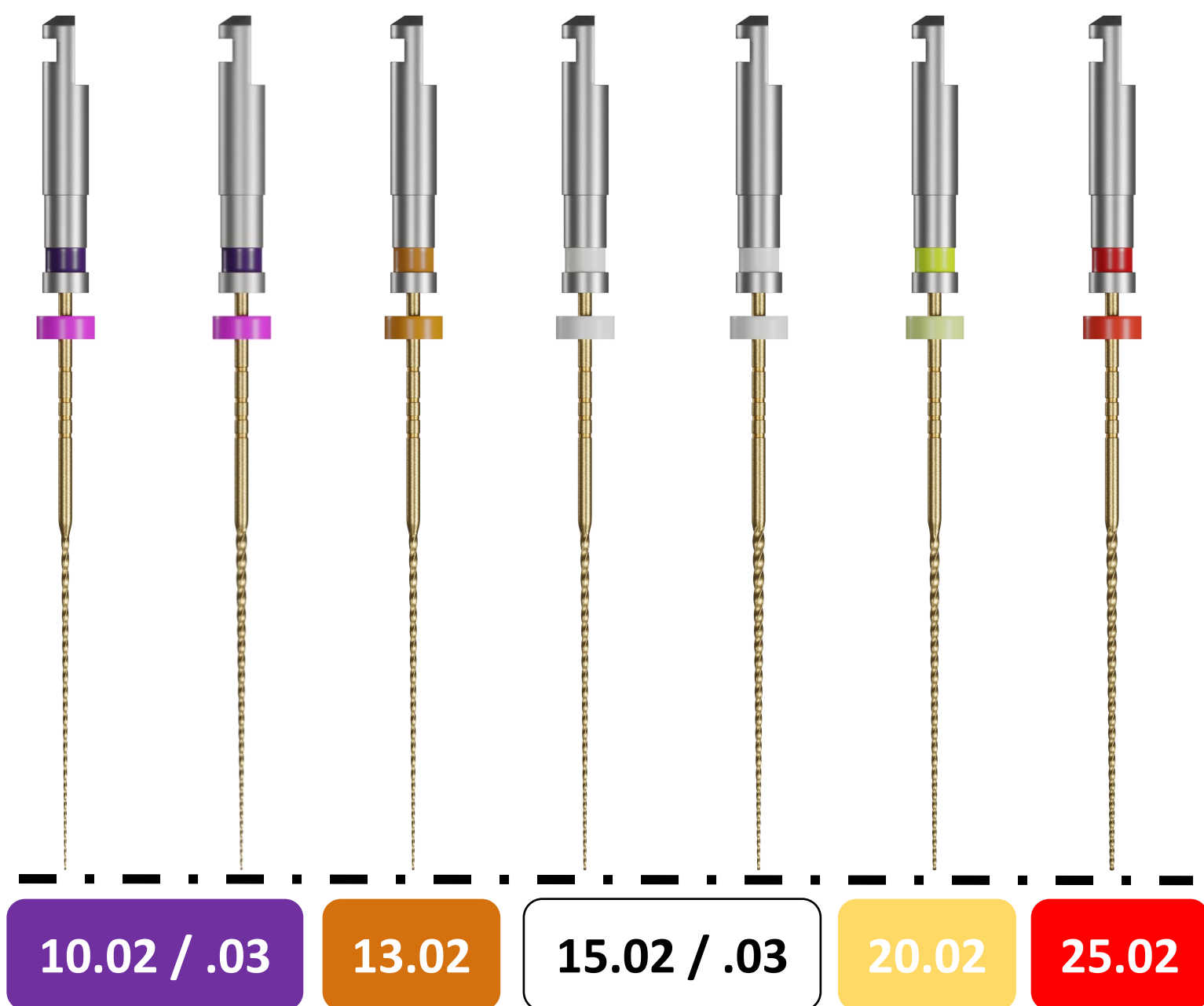
- Four cutting edges that improve cutting efficiency
- Excellent fracture resistance

Special Heat Treatment

- The files have a **special heat treatment** increasing flexibility and fracture resistance
- Greater usage possibilities with differentiated tips and Tapers
- Reduces friction for molding next files
- Extended wear cycle with fatigue resistance
- Excellent for patency and channel exploration



UNIVY *Glide*



Univy Glide (Rotatary)

1° Start preparing with a manual file (#8) and find the real length of the canal.

2° Explore with the Univy Glide file (10.02).

3° Finish the canal until the proper Univy Glide.

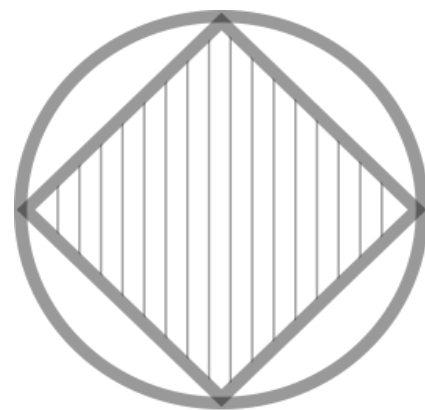
Note: Usage may vary according to professional practice..

KIT WITH 6 PCS		
Size	Tip e Tapers	Code
25 mm	10.02,10.03, 15.02, 15.03,20.02,25.02	UG000125
25 mm	10.03, 15.03	UG000325
21mm	10.02,10.03, 15.02, 15.03,20.02,25.02	UG000125
31mm	10.03, 15.03	UG000325

KIT WITH 4 PCS						
Tip	Taper	Torque	Velocidade	21 mm	25mm	31mm
10 ●	.02	100gcm(1N.cm)	250rpm	UG100221	UG100225	X
10 ●	.03	100gcm(1N.cm)	250rpm	UG100321	UG100325	UG100331
13 ●	.02	100gcm(1N.cm)	250rpm	UG130221	UG130225	X
15 ○	.02	100gcm(1N.cm)	250rpm	UG150221	UG150225	X
15 ○	.03	100gcm(1N.cm)	250rpm	UG150321	UG150325	UG150331
20 ●	.02	100gcm(1N.cm)	250rpm	UG200221	UG200225	UG200231
25 ●	.02	100gcm(1N.cm)	250rpm	UG250221	UG250225	UG250231

Reciprocating System: Univy Sense (Left cutting)
Rotary System: Univy New (Right cutting)

15.04



Glide with four cutting edges

- ✓ Four cutting edges that improve cutting efficiency
- ✓ **Greater mass concentration increasing endurance and strength extending the wear cycle.**

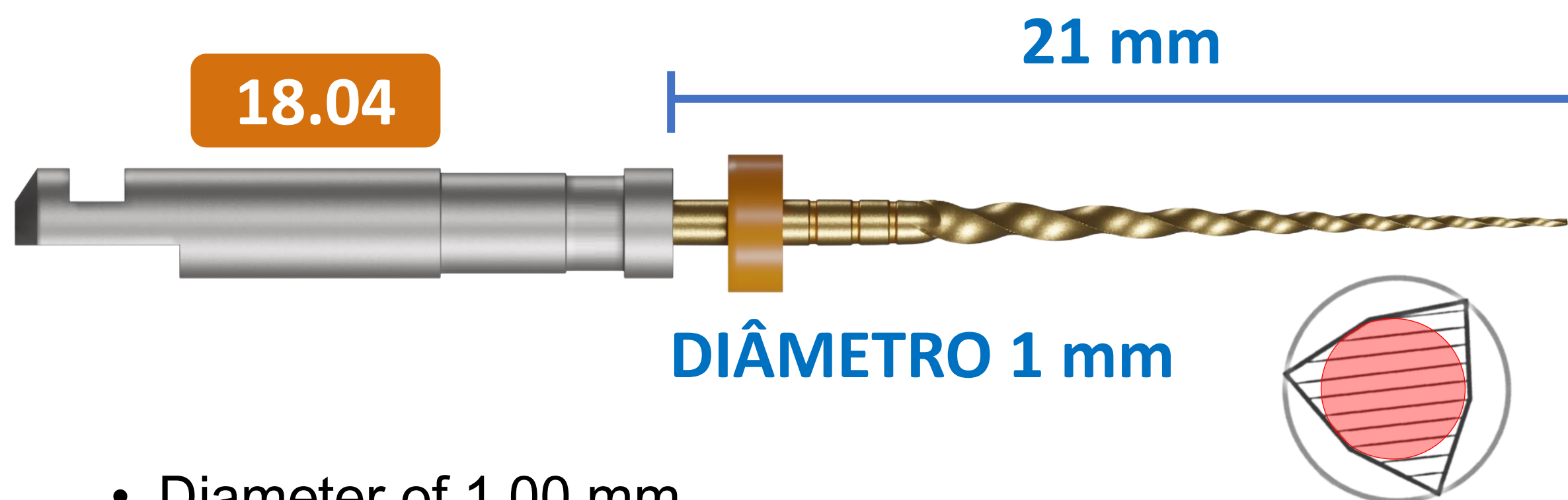
Special Heat Treatment

- ✓ Excellent fracture resistance
- ✓ This file has a **special heat treatment** increasing flexibility and fracture resistance

univy **NEW**

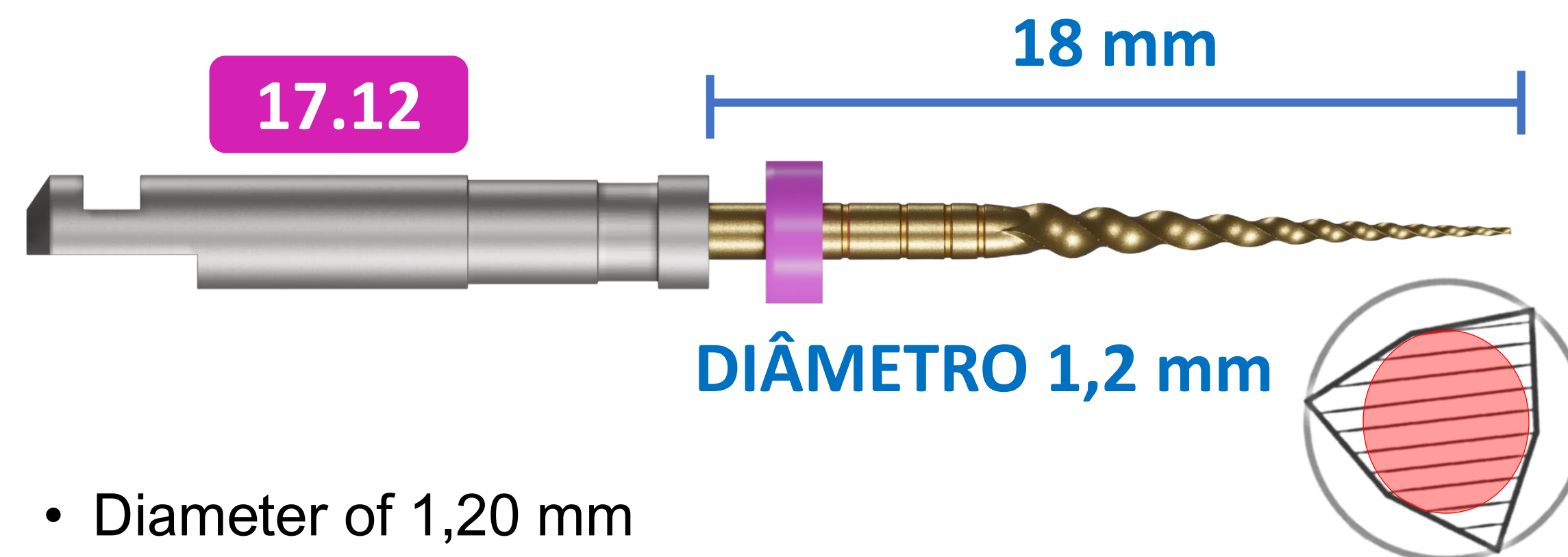


Conservative Orifice Shaper



- Diameter of 1,00 mm
- More Conservative cutting
- Opner design for every size of teeth
- Three cutting edges that improve cutting efficiency
- Excellent fracture resistance

Rigid Orifice Shaper



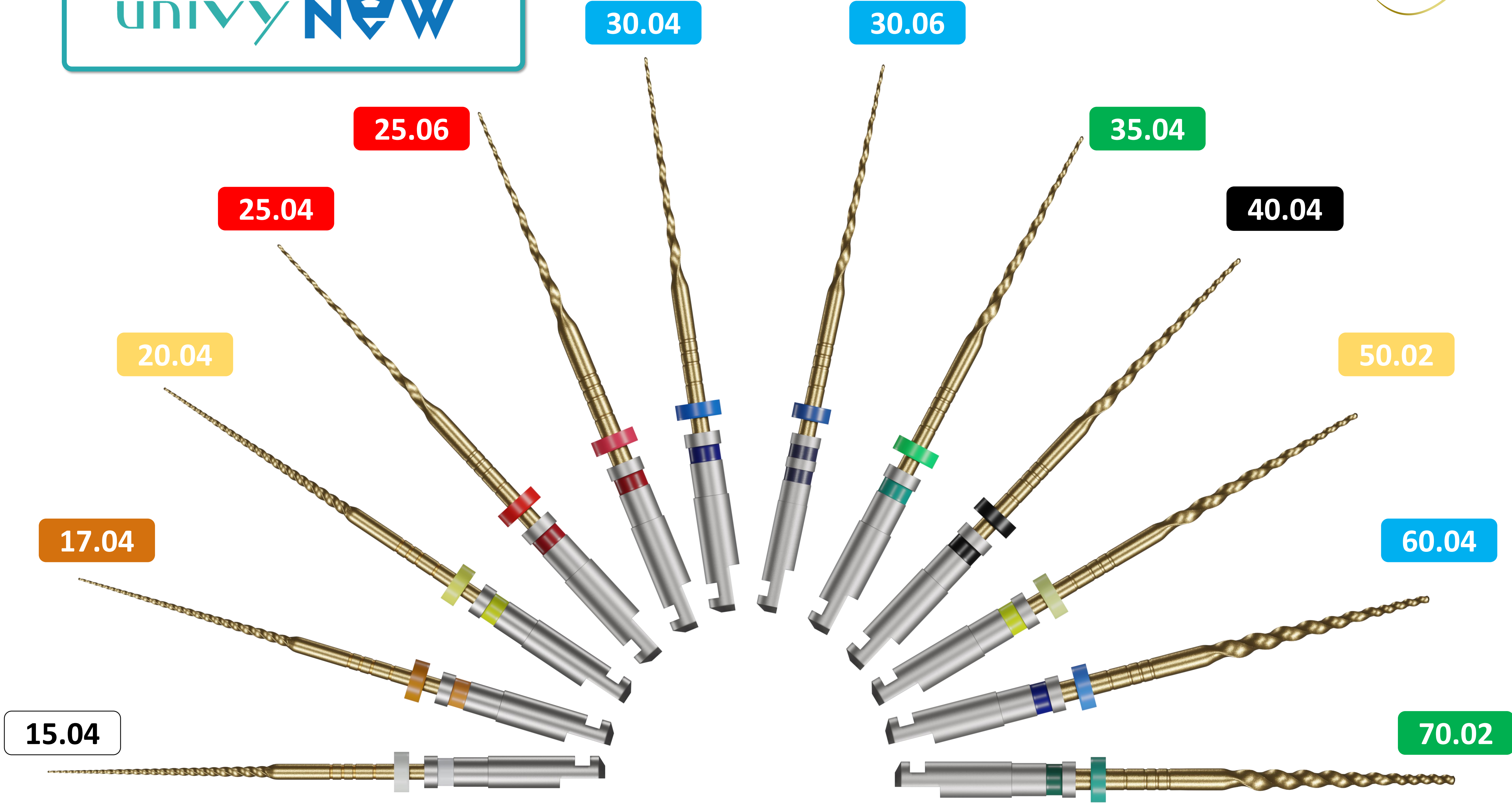
- Diameter of 1,20 mm
- Good cervical cutting
- Rigid and strong fille
- Three cutting edges that improve cutting efficiency
- Excellent fracture resistance

KIT COM 4 LIMAS IGUAIS					
Tip	Taper	Torque	Velocidade	18 mm	21mm
18	● .04	200gcm (2 N.cm)	450rpm	x	UN0180421
17	● .12	200gcm (2 N.cm)	450rpm	UN0171218	X

UNIVY NEW



UNIVY NEW



15.04

17.04

20.04

25.04

25.06

30.04

30.06

35.04

40.04

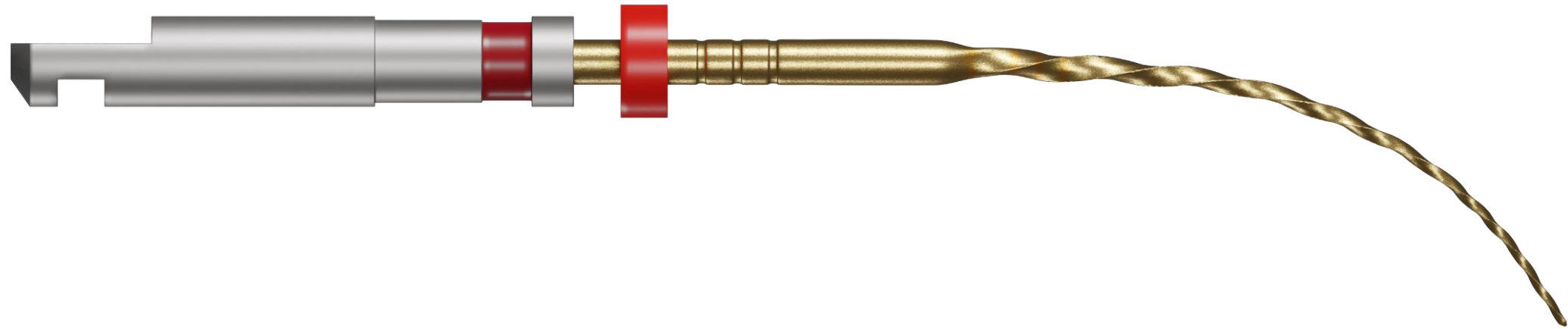
50.02

60.04

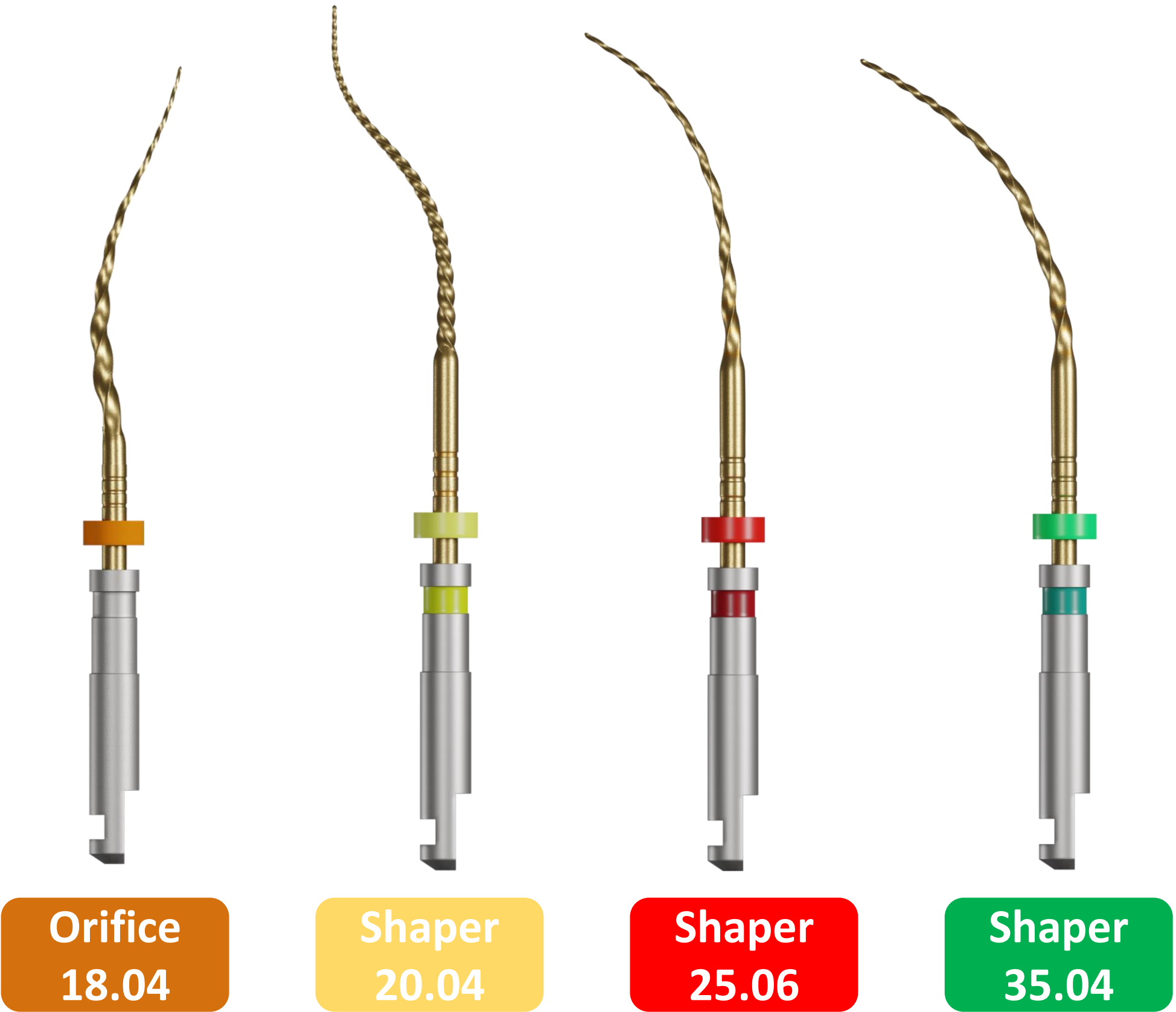
70.02

UNIVY NEW

Memory Control, Sharp Cutting and Uncut Rounded Tip Design



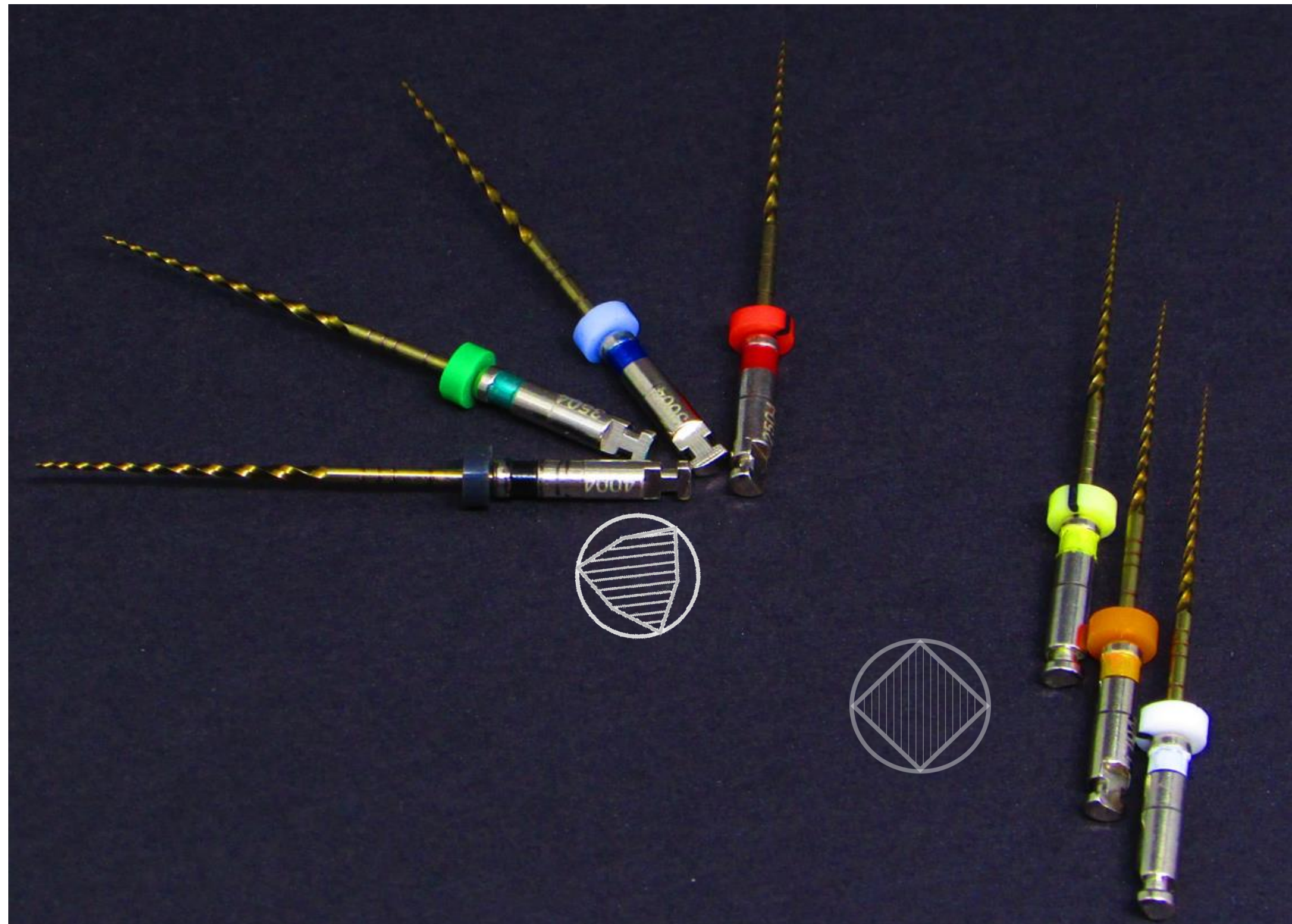
- ✓ **Reduces risk** of exceeding actual channel length
- ✓ **Best resistance for cutting**
- ✓ **Efficient and safe shaping**
- ✓ Greater mass concentration **increasing endurance and strength** extending the wear cycle.



T-Wire with Especial NiTi

- Special heat treatment
- Excellent **memory control**
- Great **flexibility and fracture resistance**

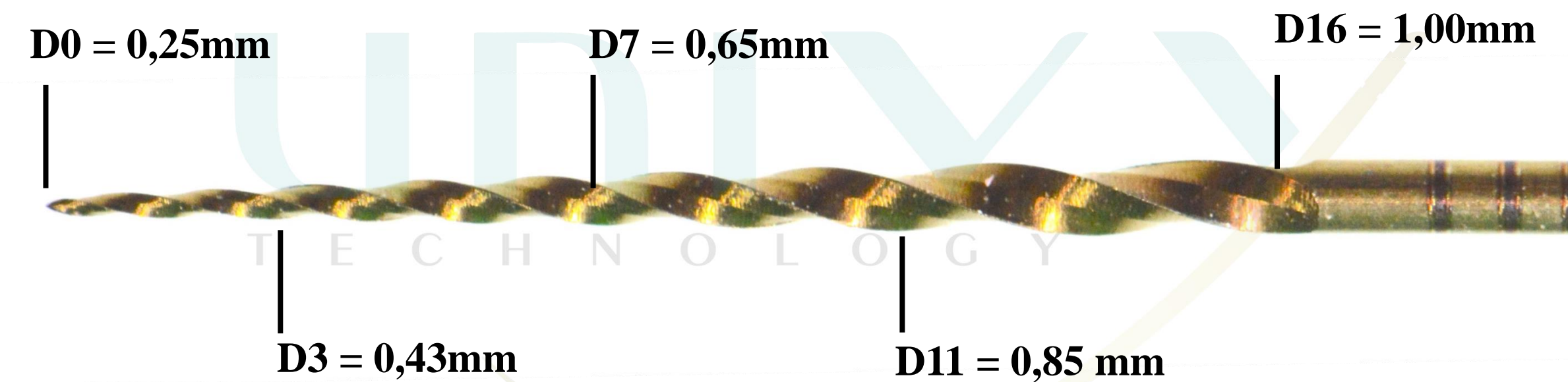
Convex Triangular Cross Section



✓ #15.04, #17.04 and #20.04 size files with square section **to give more resistance.**

Other sizes of files with a triangular section.

Increased gap at the tip progressively



Para lima Univy New #25.06

- 0.06 taper in 3mm
- 0.06 taper D3 to D7
- 0.05 taper D7 to D11
- 0.02 taper D11 to D16

Variable Taper

- Taper is .04 to filles #17, #20, #25, #30, #35, #40 and #60
- Taper is .06 to fille #25.
- Taper é .02 to fille #50 and #70.



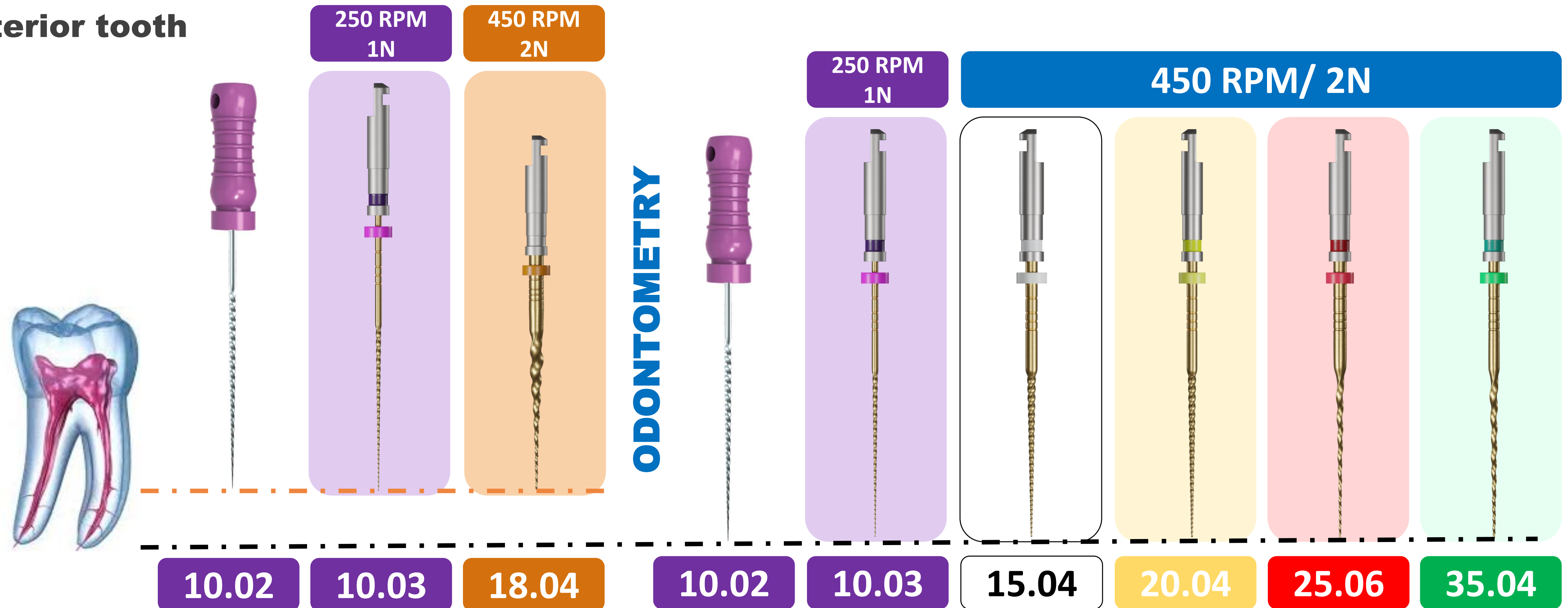
UNIVY NEW

Desafio do canal com dupla curvatura



WORK SUGGESTION

Posterior tooth



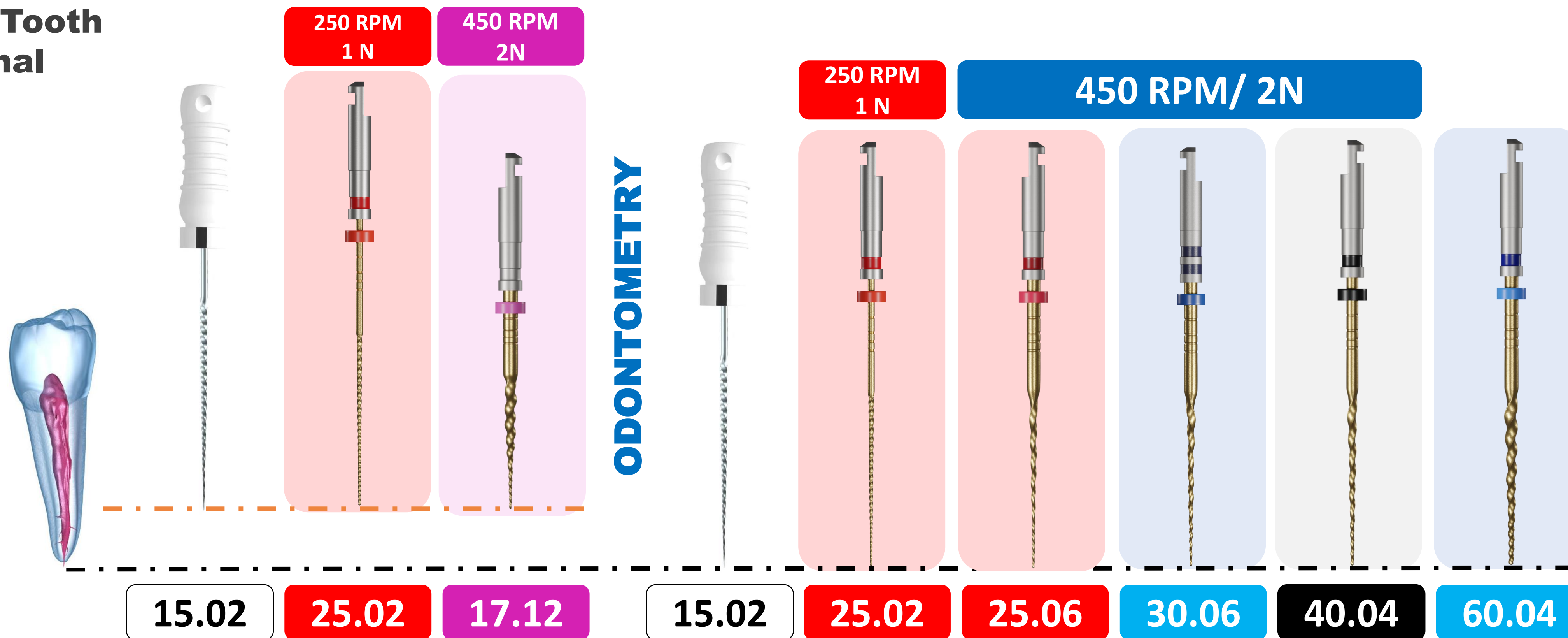
- 1° Start preparation with a manual file (#10), Univy Glide (10.03) and Univy New (18.04) in the cervical and middle third.
- 2° After odontometry, explore with the manual file Univy Glide (10.03) and Univy New (15.04 to 35.04).
- 3° Finish the channel until the proper Univy New. The 40.04 measurement can be used on the distal and palatal side of a molar.

Note: Usage may vary according to professional practice.

UNIVY NEW

WORK SUGGESTION

Anterior Tooth Wide Canal



- 1° Start preparing with a manual file (#15) Univy Glide (25.02) and Univy New (17.12) in the cervical and middle third.
- 2° After odontometry, explore with the manual file Univy Glide (25.02) and Univy New (25.06 to 40.04).
- 3° Finish the channel until the proper Univy New. The 60.04 measurement can be used in cases with broader anatomies.

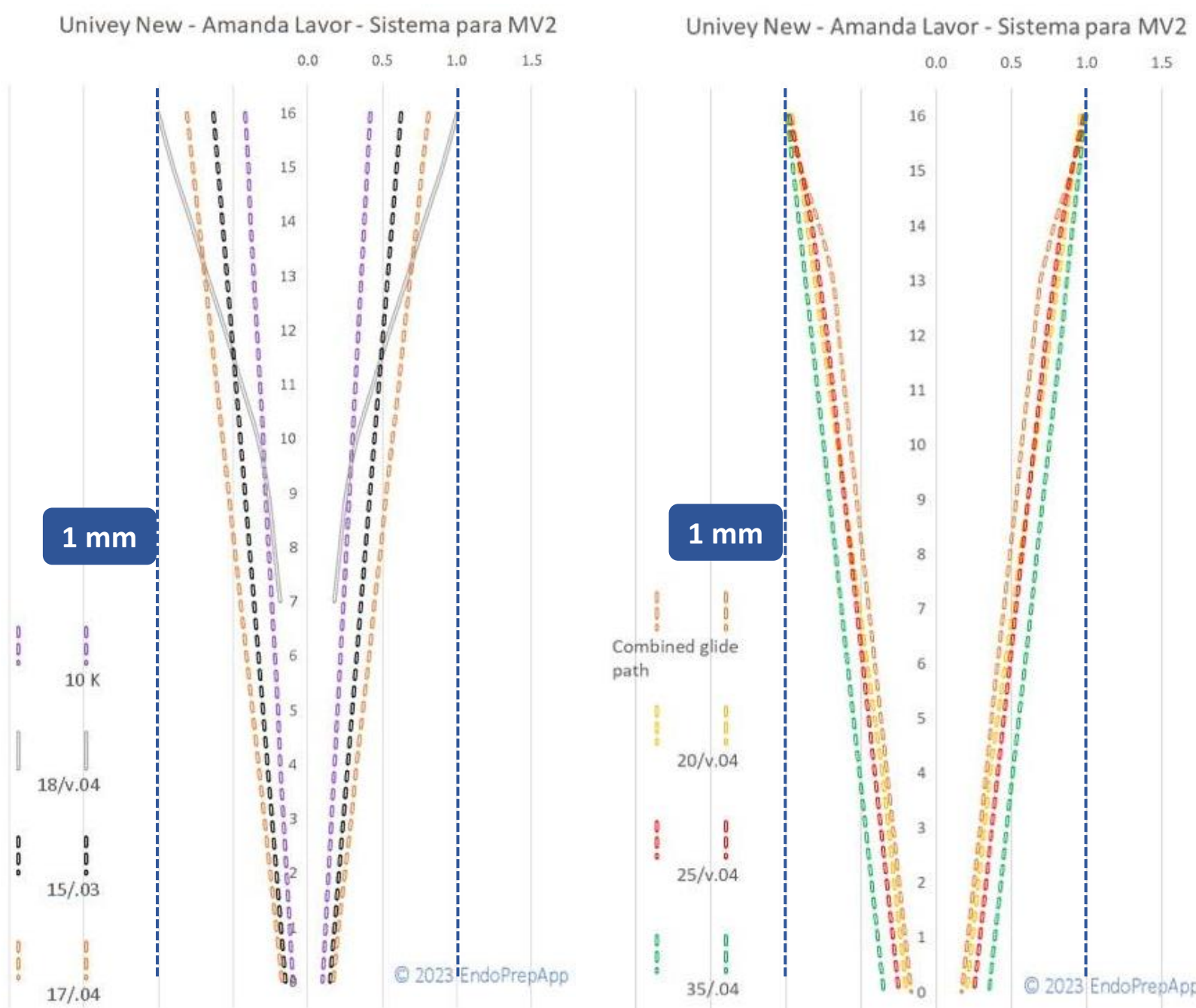
Note: Usage may vary according to professional practice.

UNIVY NEW

AMV2

By Prof^a Amanda Lavor

WORK SUGGESTION

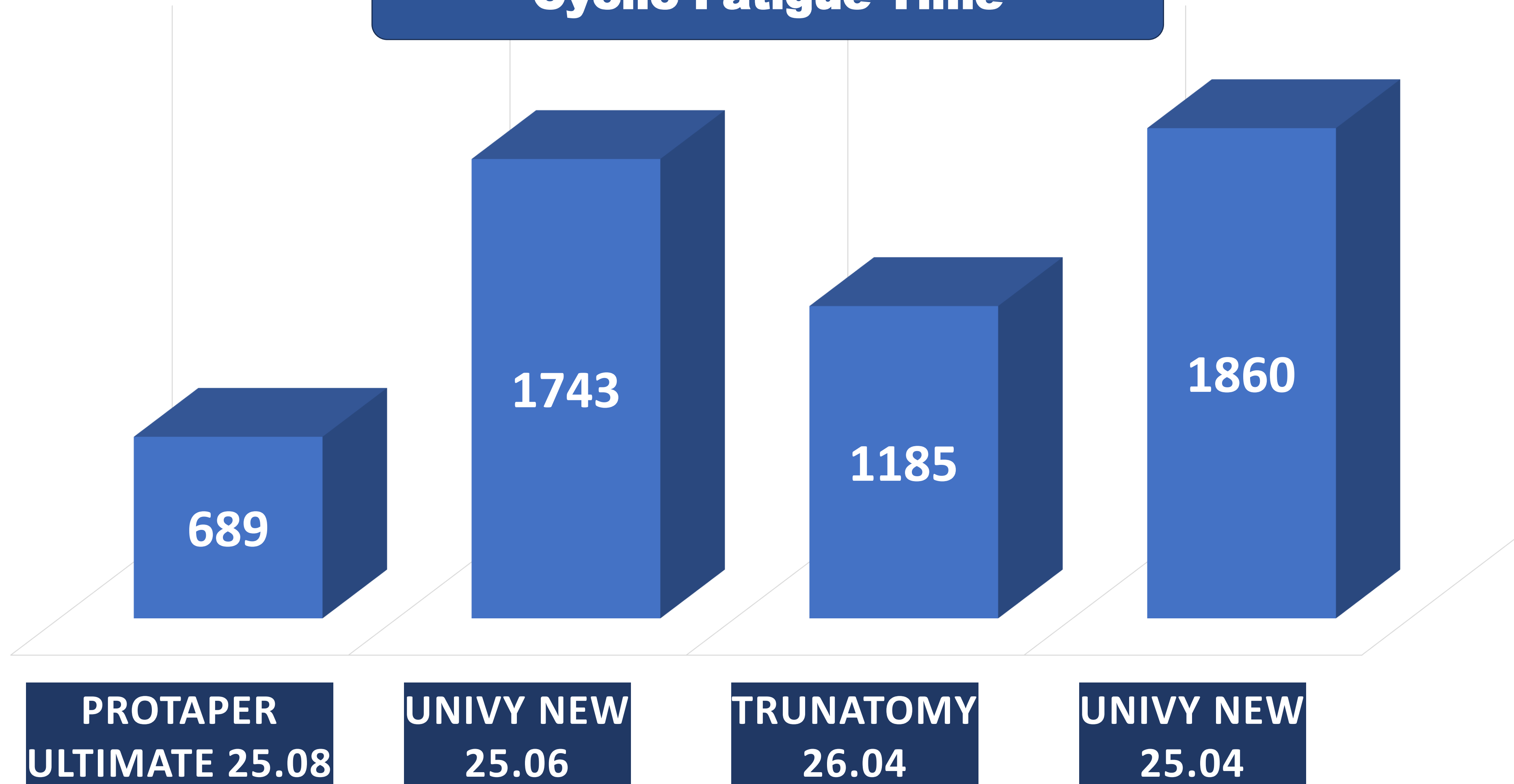


	450 RPM 2N	250 RPM 1N	450 RPM/ 2N			
10.02	18.04	15.03	17.04	20.04	25.04	35.04

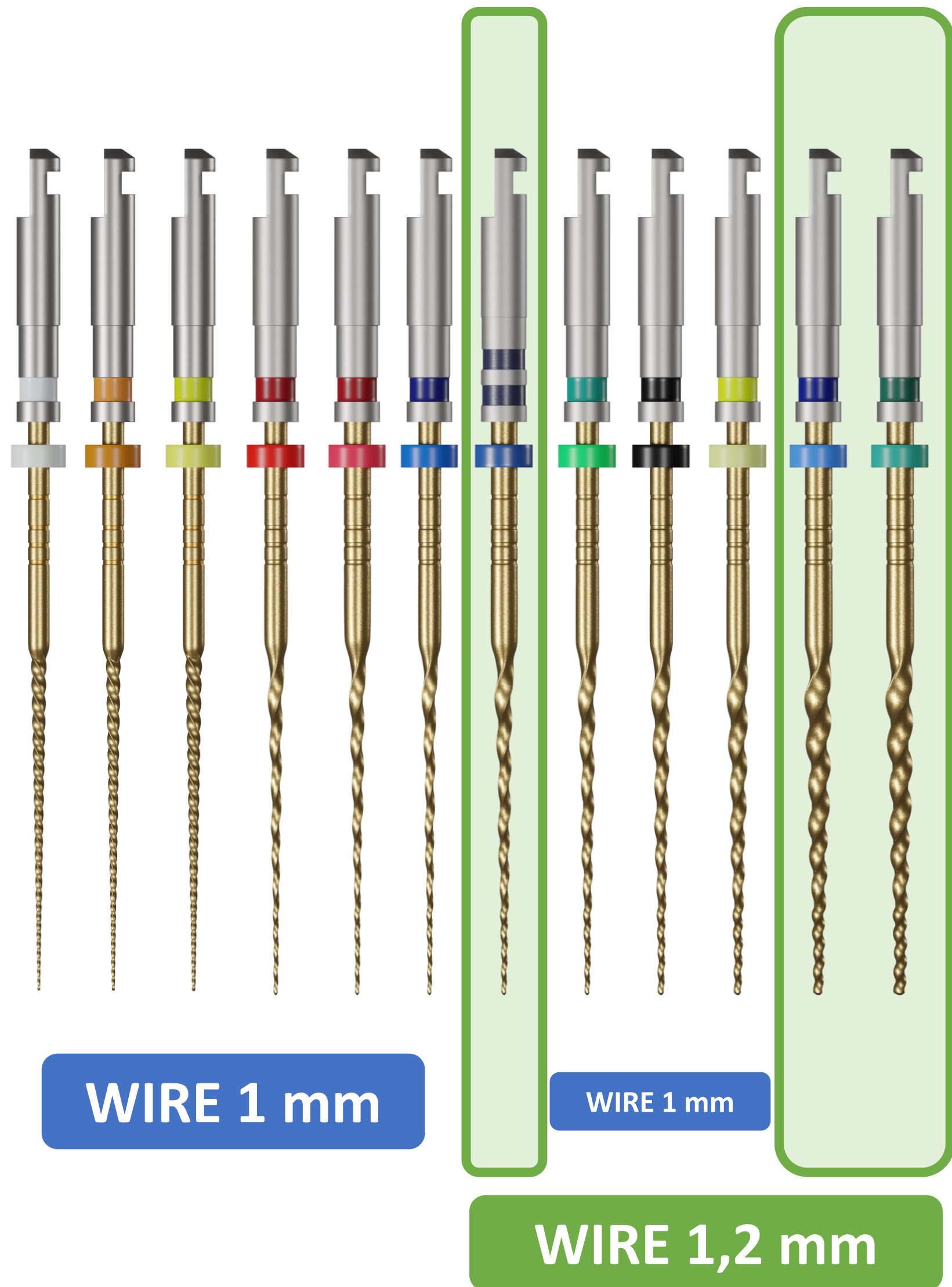


- 1° Start preparing with a manual file (#8, #10) and find the real length of the canal.
 - 2° Use the Univy New file (#18.04) to open 2/3 of the canal.
 - 3° Explore with the Univy Glide file (10.03 and 17.04) in the stipulated limit of the canal.
 - 4° Finish the channel until the proper Univy New.
- Note: Usage may vary according to professional practice.

Cyclic Fatigue Time



UNIVY NEW



KIT WITH 6 PCS		
Size	Tip e Tapers	Code
25 mm	Univy New File, (#18.04, #20.04, #25.06)	UN100125
25 mm	Univy New File, (#15.04, 20.04, 25.04, 30.04, 35.04, 40.04)	UN100225
25 mm	Univy New File, (#50.02, 60.04, 70.02, 50.02, 60.04, 70.02)	UN100325
25 mm	Glide #10.03, #15.04+ Univy New #18.04, #20.04, #25.6, #35.04	UN100425
25 mm	MV2 - Univy New 15.03, 17.04, 18.04, 20.04, 25.04, 35.04	AL-MV2
21 mm	Univy New File, (#15.04, 20.04, 25.04, 30.04, 35.04, 40.04)	UN100221
21 mm	Univy New File, (#50.02, 60.04, 70.02, 50.02, 60.04, 70.02)	UN100321
21 mm	Glide #10.03, #15.04+ Univy New #18.04, #20.04, #25.06, #35.04	UN100421
31 mm	Univy New File, (#15.04, 20.04, 25.04, 30.04, 35.04, 40.04)	UN100231
31 mm	Univy New File, (#50.02, 60.04, 70.02, 50.02, 60.04, 70.02)	UN100331
31 mm	Glide #10.03, #15.04+ Univy New #18.04, #20.04, #25.6, #35.04	UN100431

KIT WITH 4 PCS						
Tip	Taper	Torque	Velocidade	21mm	25mm	31mm
15 ○	.04	[1,5~2,5] N.cm	450rpm	UN0150421	UN0150425	UN0150431
17 ●	.04	[1,5~2,5] N.cm	450rpm	UN0170421	UN0170425	UN0170431
20 ●	.04	[1,5~2,5] N.cm	450rpm	UN0200421	UN0200425	UN0200431
25 ●	.04	[1,5~2,5] N.cm	450rpm	UN0250421	UN0250425	UN0250431
25 ●	.06	[1,5~2,5] N.cm	450rpm	UN0250621	UN0250625	UN0250631
30 ●	.04	[1,5~2,5] N.cm	450rpm	UN0300421	UN0300425	UN0300431
30 ●	.06	[1,5~2,5] N.cm	450rpm	UN0300621	UN0300625	UN0300631
35 ●	.04	[1,5~2,5] N.cm	450rpm	UN0350421	UN0350425	UN0350431
40 ●	.04	[1,5~2,5] N.cm	450rpm	UN0400421	UN0400425	UN0400431
50 ●	.02	[1,5~2,5] N.cm	450rpm	UN0500221	UN0500225	UN0500231
60 ●	.04	[1,5~2,5] N.cm	450rpm	UN0600421	UN0600425	UN0600431
70 ●	.02	[1,5~2,5] N.cm	450rpm	UN0700221	UN0700225	UN0700231



WIRE 1,2 mm



15.04



20.06



20.07



25.04



25.06



25.08



30.05



35.04



35.06



40.04



40.06

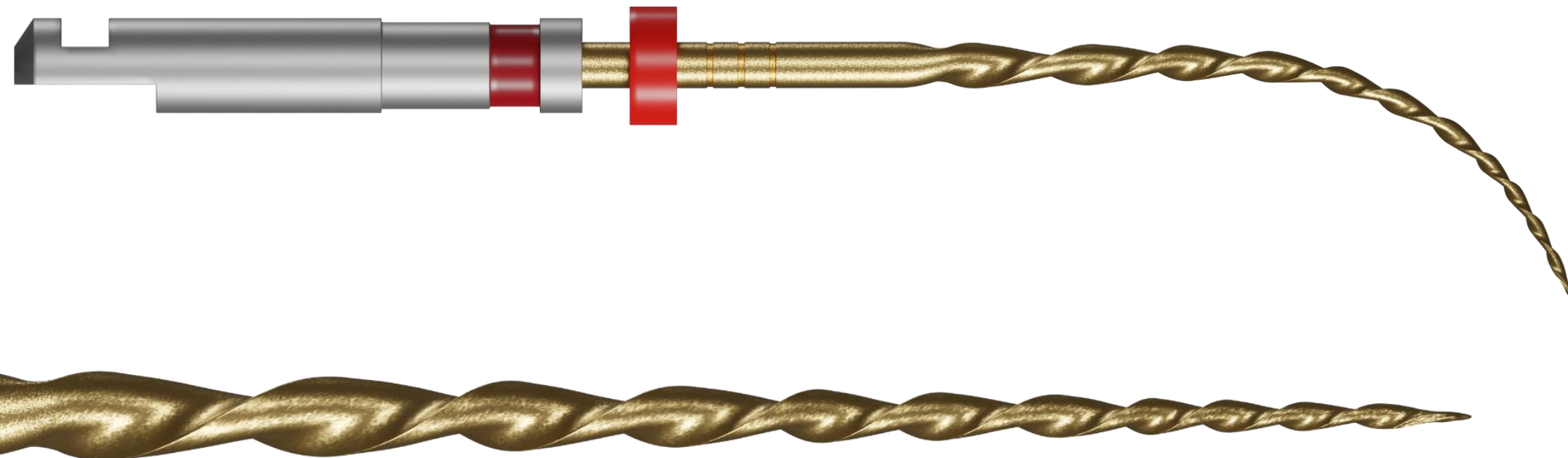


45.05



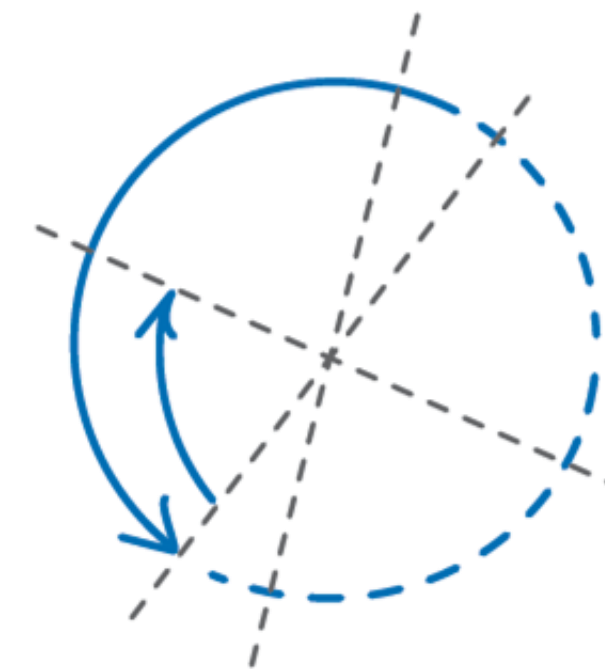
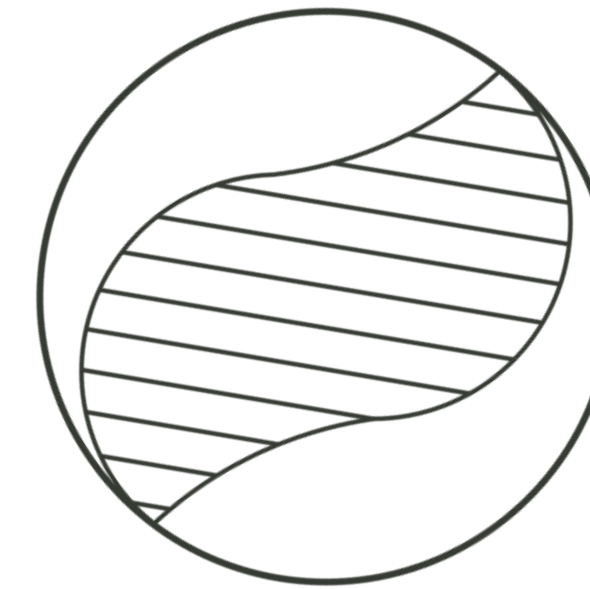
50.04

Reciprocating, Conservative and S-shaped Section with Rounded Tip

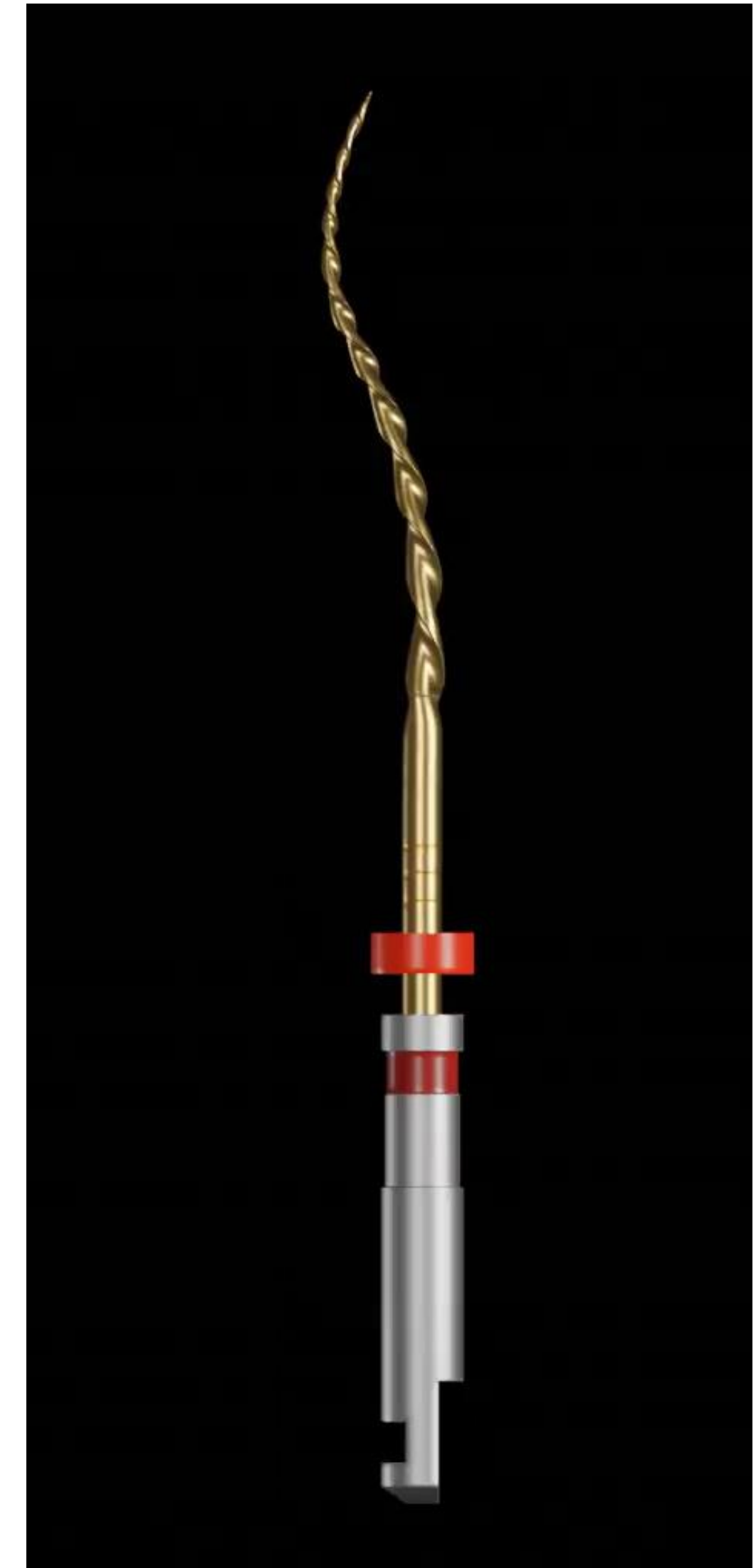


- ✓ Minimal side contact that increases cutting.
- ✓ Maximum space to remove debris.
- ✓ Wide angle counterclockwise cut to enter the root canal.
- ✓ The file returns with a small clockwise angle, releasing torque to reduce the risk of fracture.

Reciprocating Movement



150° / 30°



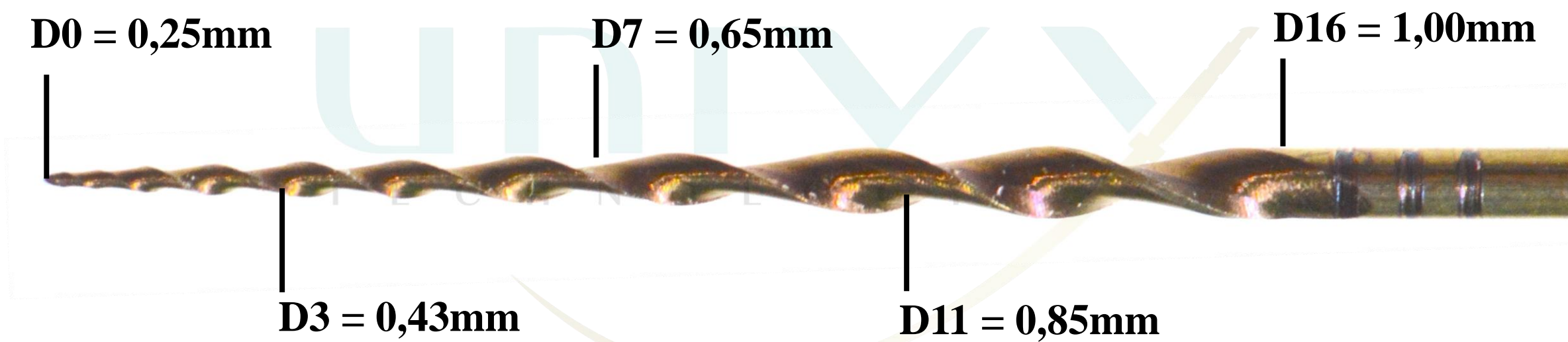
Excellent Flexibility



T-Wire with Especial NiTi

- It has special heat treatment
- Excellent **memory control**
- Great flexibility and fracture resistance

Increased gap at the tip progressively

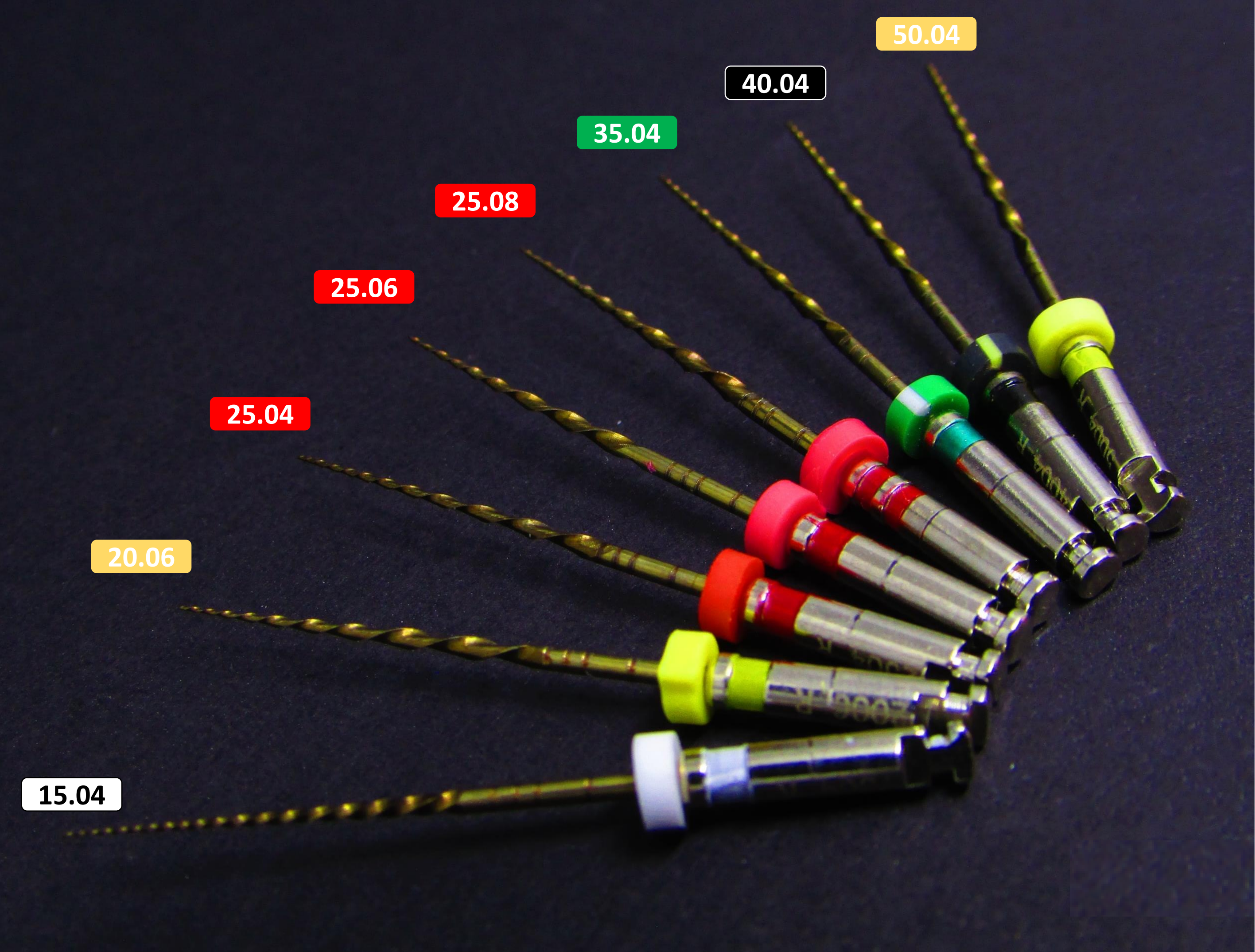
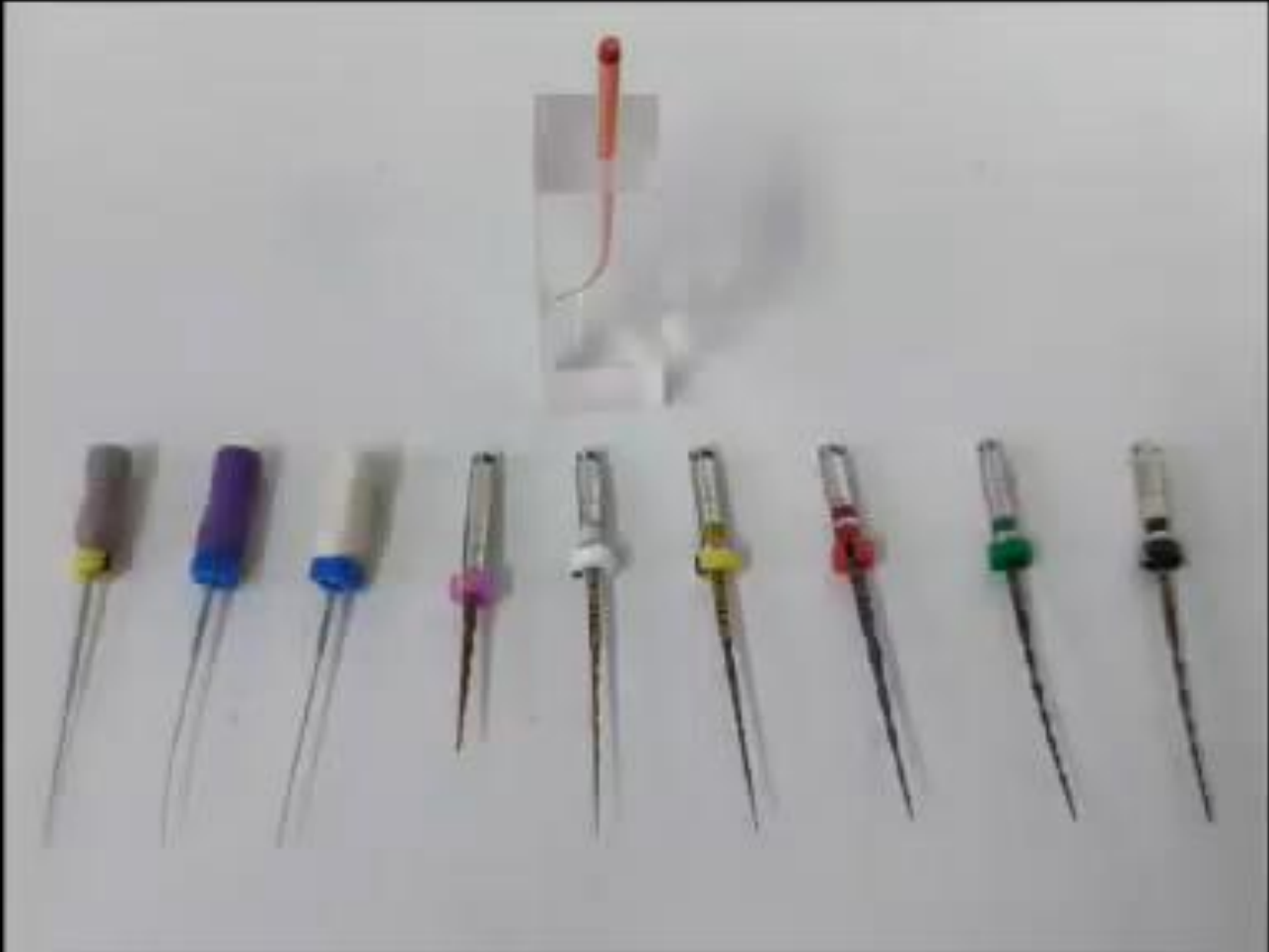


Lima Univy Sense #25.06

- 0.06 taper in 3mm
- 0.055 taper D3 To D7
- 0.05 taper D7 to D11
- 0.03 taper D11 to D16

• Variable taper

- Taper is .04 to files #15, #25, #35, #40 e #50
- Taper is .06 to files #20, #25
- Taper is .08 to files #25.





WORK SUGGESTION

Indicação FOB-USP

Upper side
Upper premolar
Incisors
Mesial molar



450 RPM
2 N

10.02 15.04 18.04

ODONTOMETRY

MOVIMENTO RECIPROCANTE

10.02 15.04 20.06 25.06 35.04 40.04

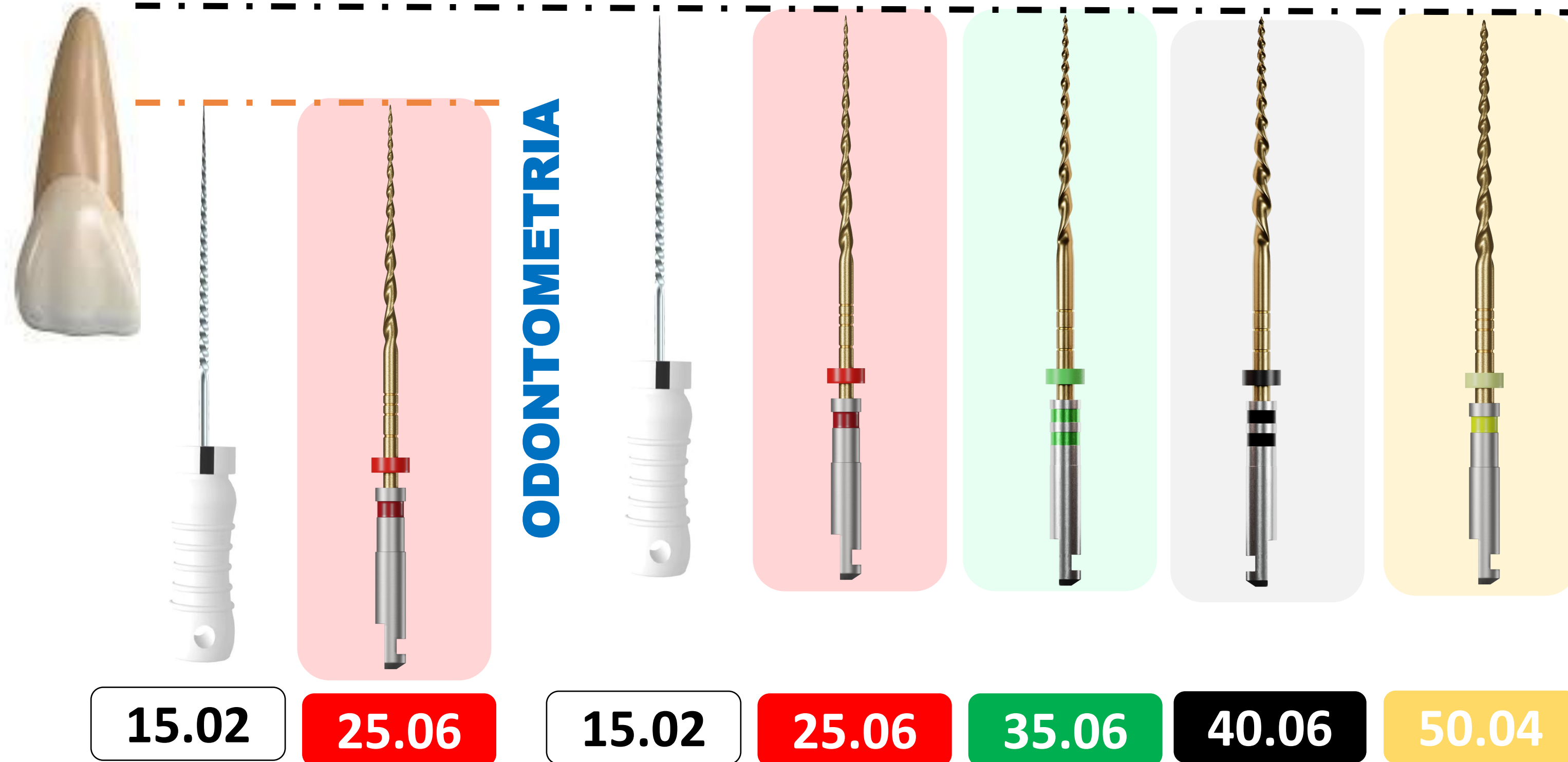
1° Start preparation with a manual file (#10), Univy Sense (15.04) and Univy New (18.04) in the cervical and middle third.
 2° After odontometry, explore with a manual file (#10) and Univy Sense (15.04 to 35.04).
 3° Finish the channel until the appropriate Univy Sense. The 40.04 measurement can be used on the distal and palatal side of a molar.
 Note: Usage may vary according to professional practice.

SUGESTÃO DE TRABALHO

Indicação FOB-USP

MOVIMENTO RECIPROCANTE

Upper incisors



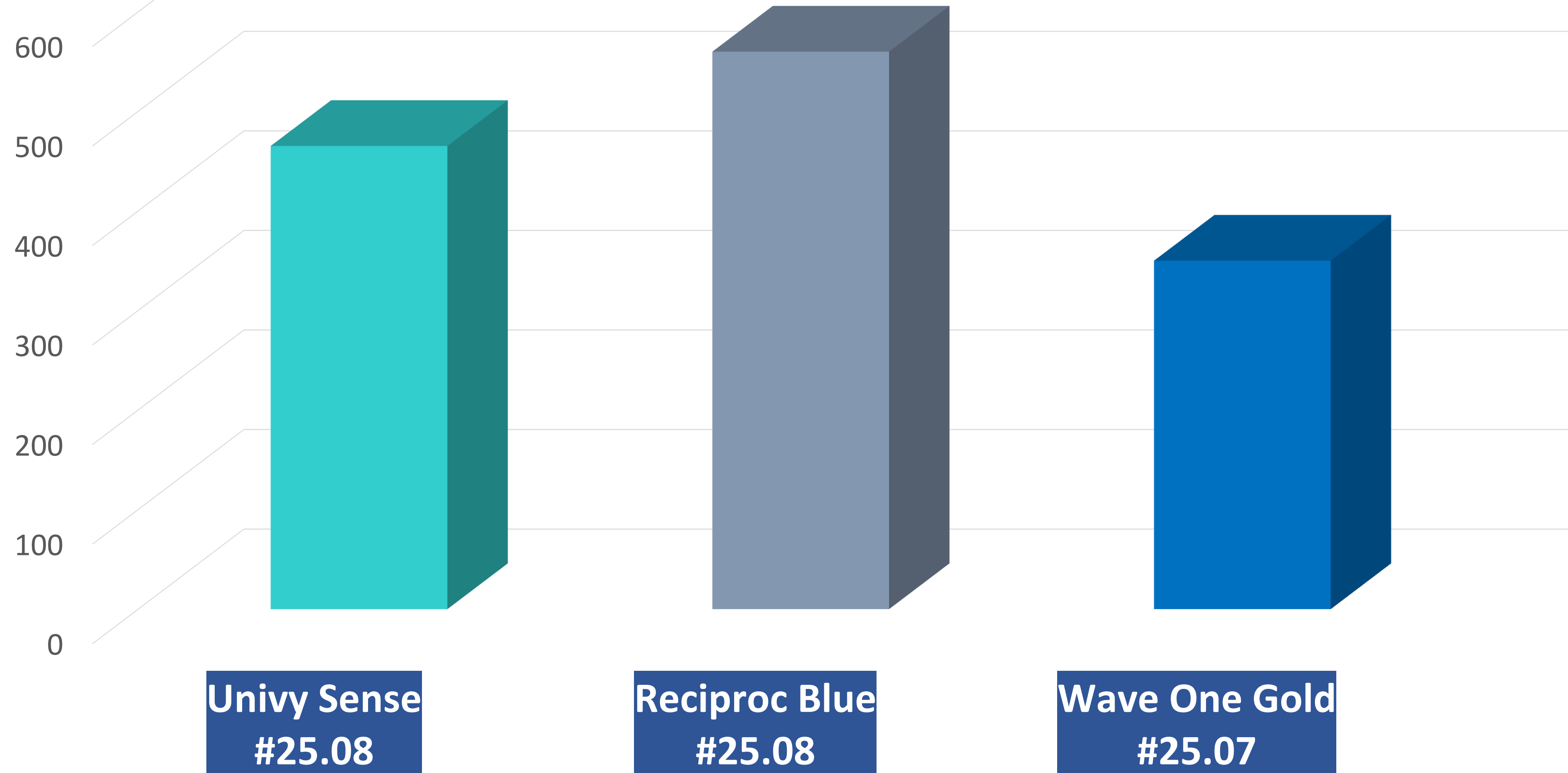
1° Start preparation with a manual file (#15), Univy Sense (25.06) in the cervical and middle third.

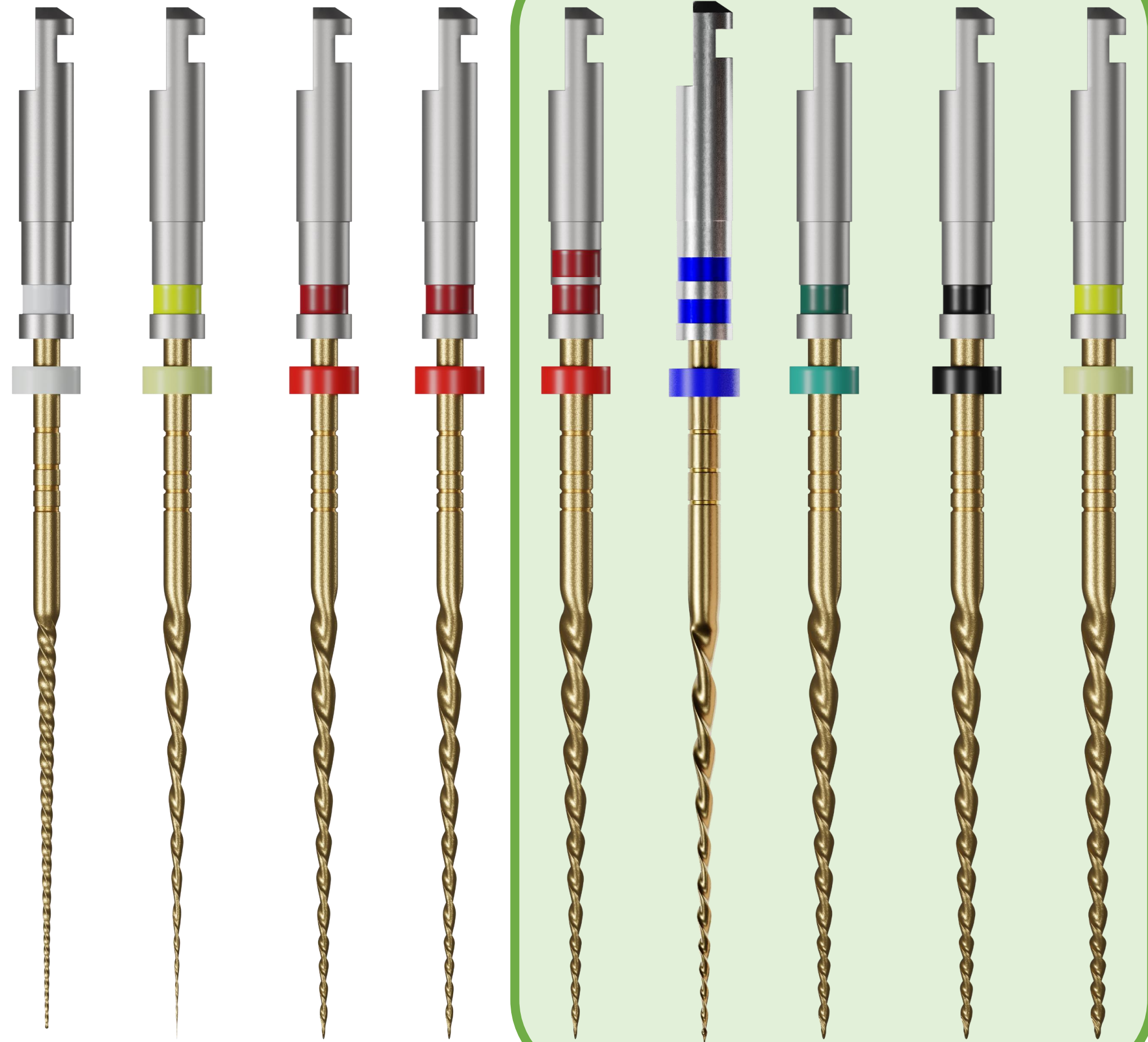
2° After odontometry, explore with a manual file (#15) and Univy Sense (25.06 to 50.04).

3° Finish the channel until the appropriate Univy Sense. The 60.04 measurement can be used in cases with broader anatomies.

Note: Usagemay vary according to professional practice.

Cyclic Fatigue Time





FIO DE 1 mm

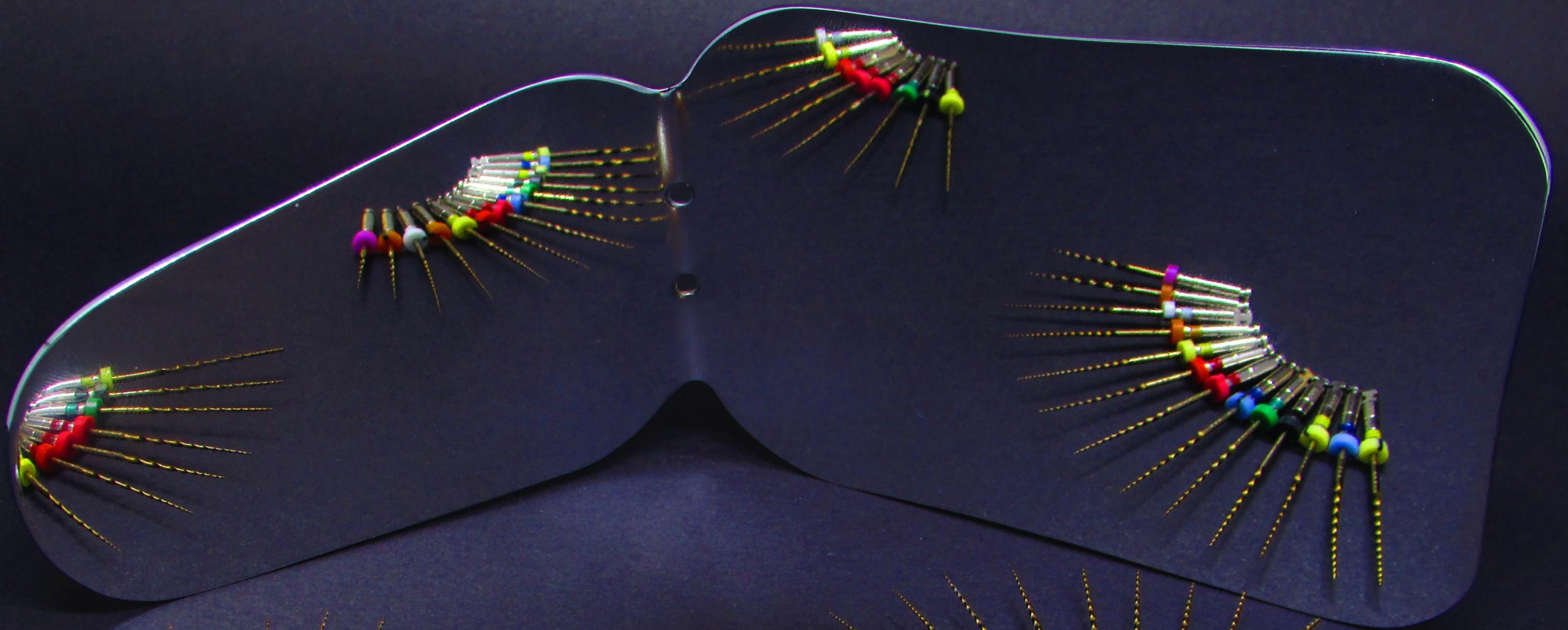
FIO DE 1,2 mm

KITS WITH 6 PCS

Tamanho	Tip e Tapers	Código
25 mm	15.04#, 20.06#,25.06#, 35.04#,40.04#,50.04#	US100125
25 mm	20.06#, 25.06#, 35.04#	US100225
21mm	15.04#, 20.06#,25.06#, 35.04#,40.04#,50.04#	US100121
31mm	15.04#, 20.06#,25.06#, 35.04#,40.04#,50.04#	US100131

KIT WITH 4 PCS

Tip	Taper	21 mm	25mm	31mm
15 ○	.04	US150421	US150425	US150431
20 ●	.06	US200621	US200625	US200631
20 ●	.07	US200721	US200725	US200731
25 ●	.04	US250421	US250425	US250431
25 ●	.06	US250621	US250625	US250631
25 ●	.08	US250821	US250825	US250831
30 ●	.05	US300521	US300525	US300531
35 ●	.04	US350421	US350425	US350431
35 ●	.06	US350621	US350625	US350631
40 ●	.04	US400421	US400425	US400431
40 ●	.06	US400621	US400625	US400631
50 ●	.04	US500421	US500425	US500431





OTHER SYSTEMS

UNIVY **NEW**

**Memory Control, Excellent Cutting and
Inactive Round Tip Design**



- ✓ Inactive tip
- ✓ Efficient for safe shaping
- ✓ Excellent cut resistance

UNIVY
TECHNOLOGY

UNIVY **RENEW**

**Memory Control, Excellent Cutting and
Active Tip Design**

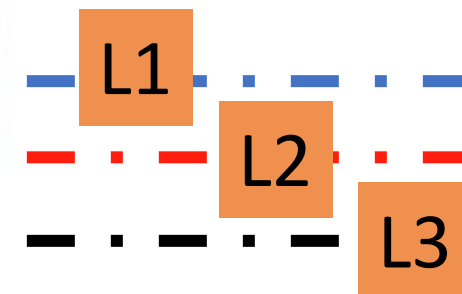


- ✓ Active Tip
- ✓ Larger taper that increases resistance
- ✓ Efficient for penetration
- ✓ Excellent cut resistance

WOR SUGESTION

Protocolo Prof. Ary Motta Jr

- **Efficiently removes material**
- **Triangular Section**
- **Active End**



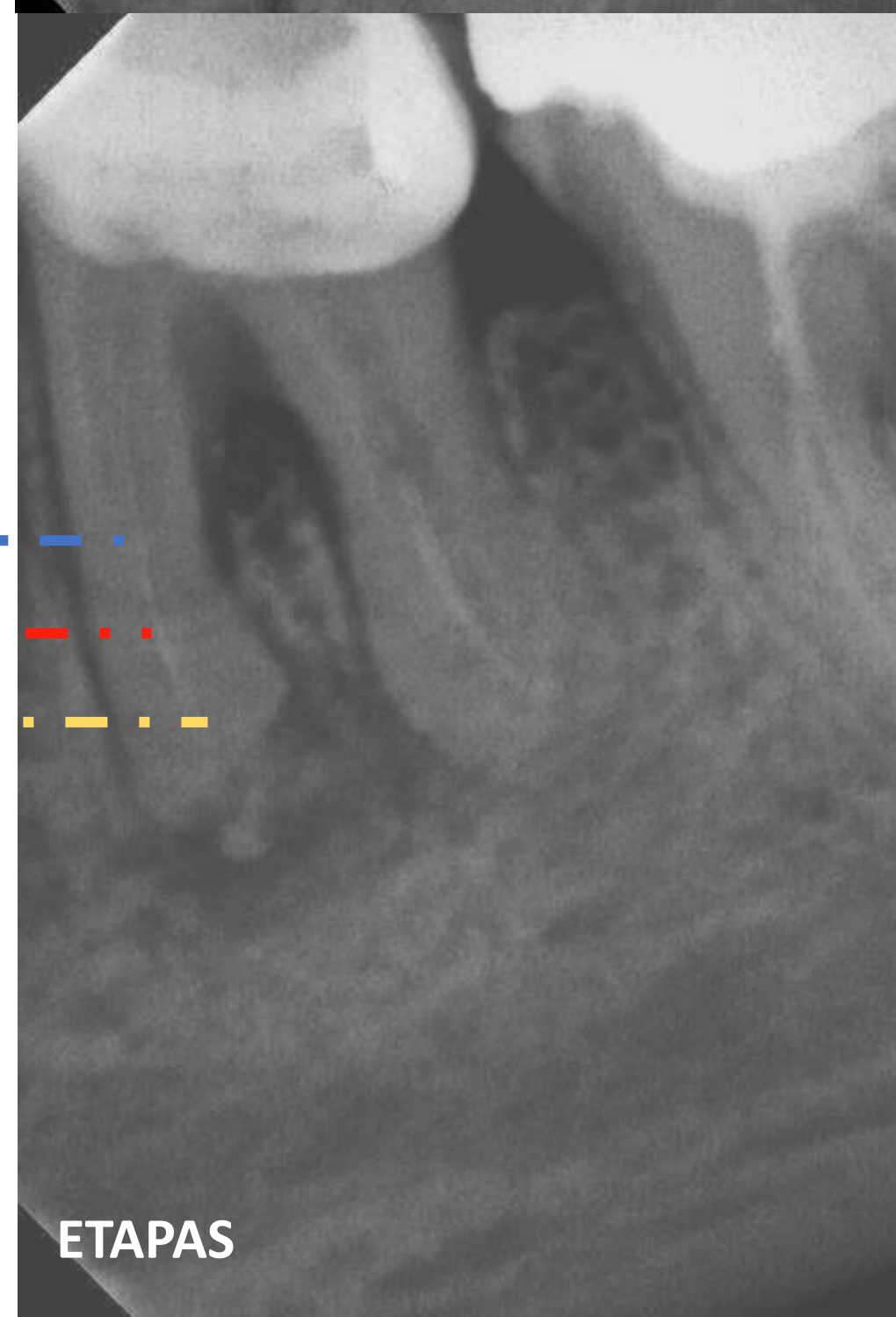
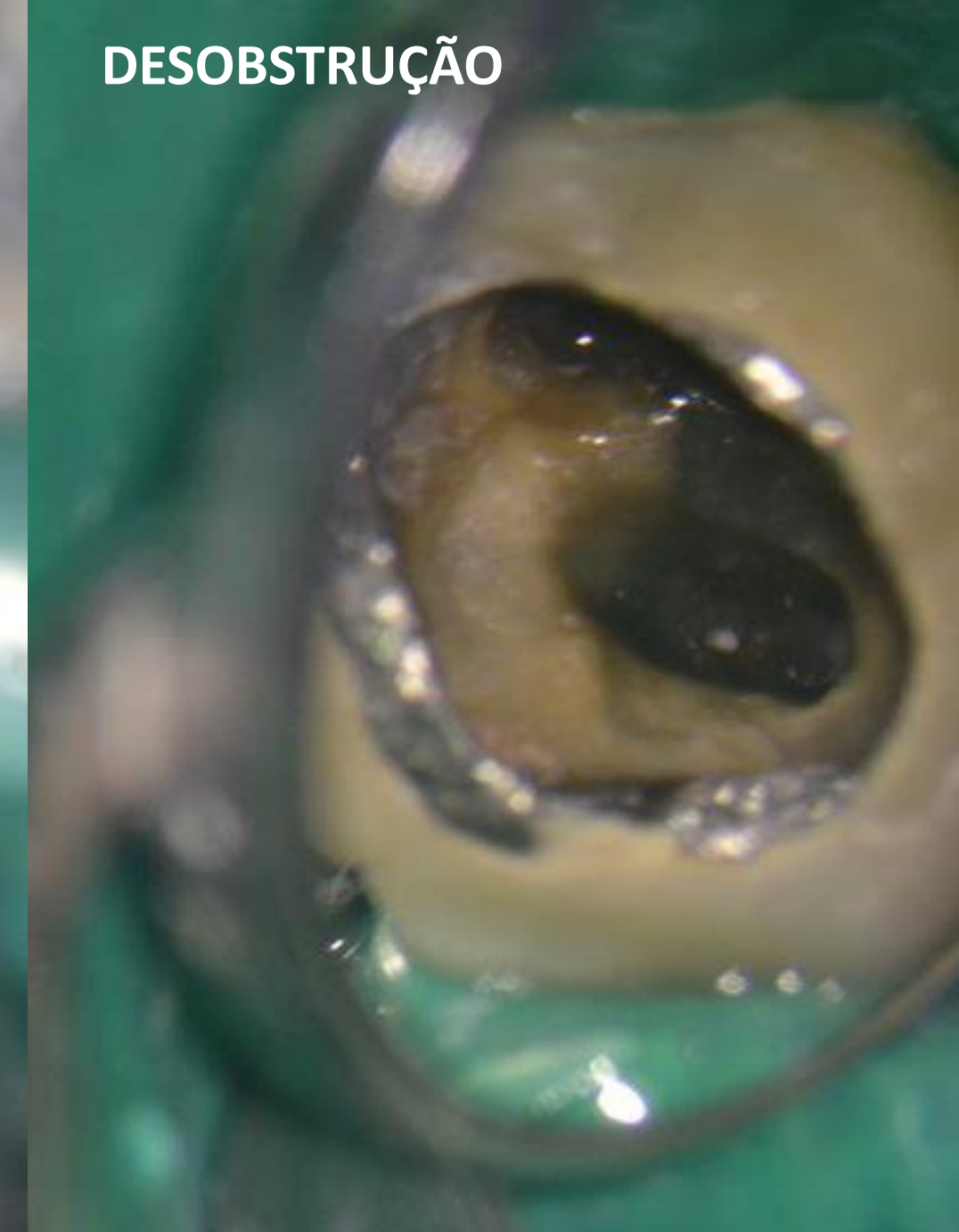
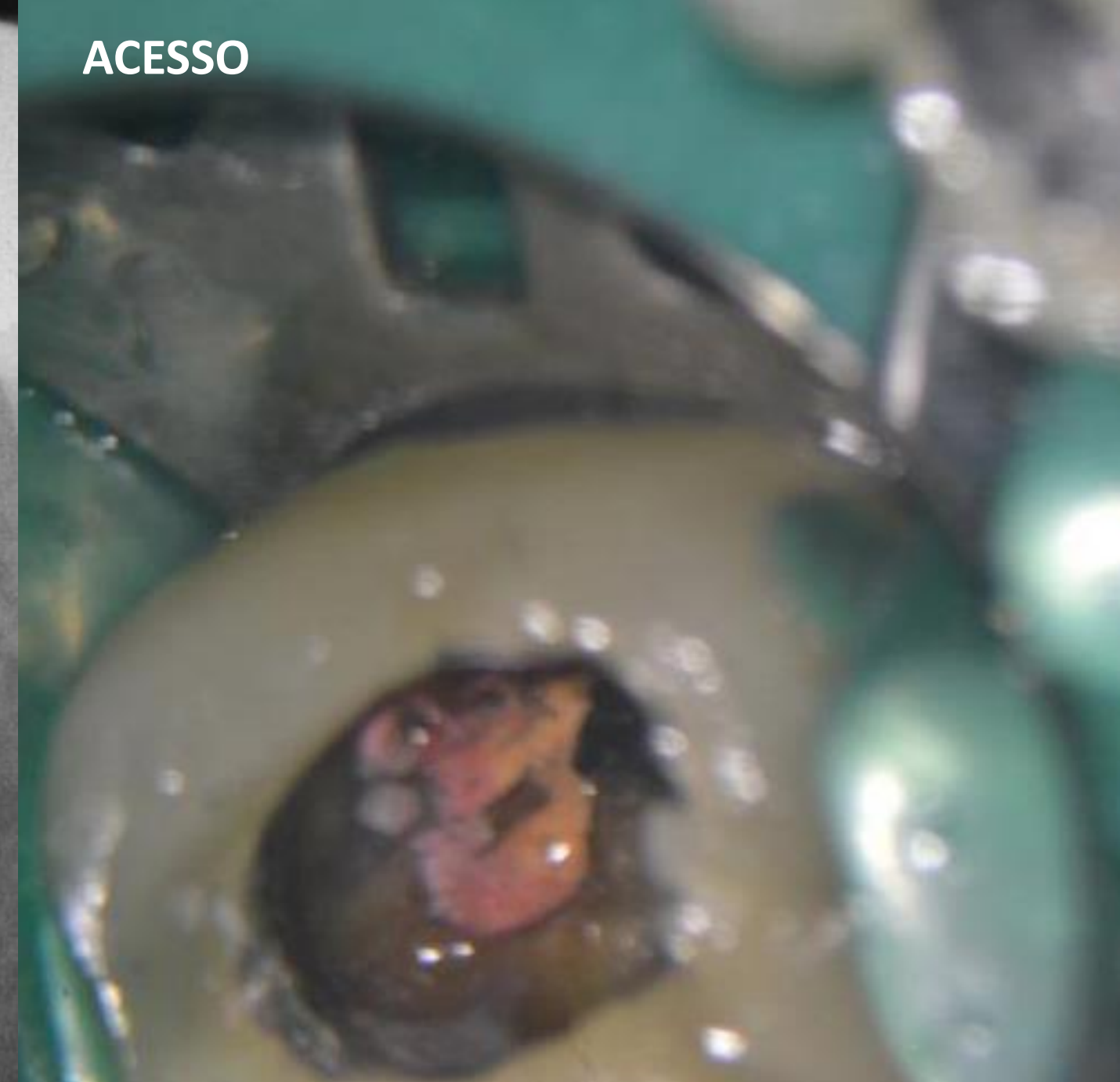
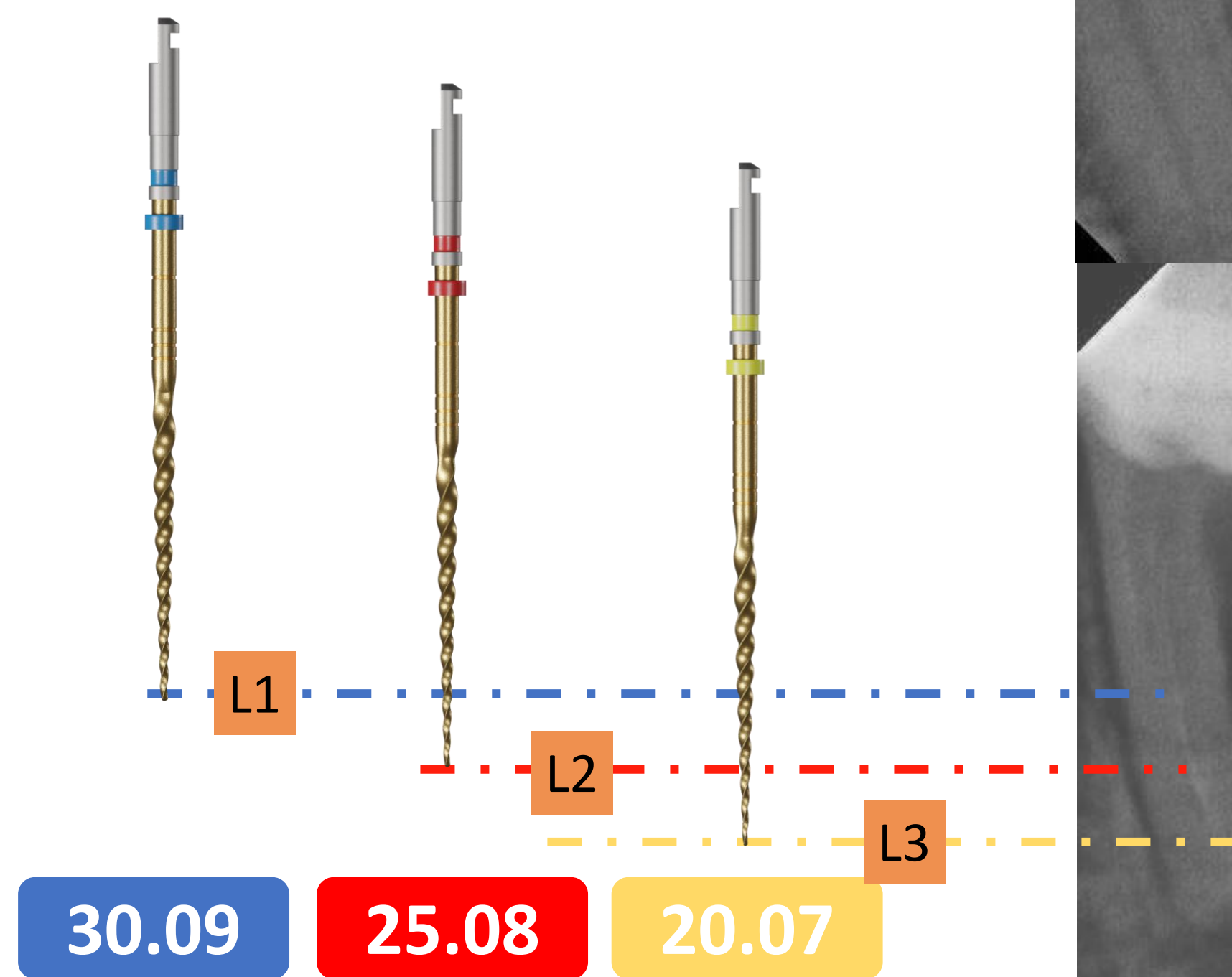
1° Start the retreatment with the Renew 30.09 file to remove the gutta in the cervical and middle third.
 2° Proceed with the Renew file 25.08 or 20.07 for the apical 1/3, according to the caliber of the canal.
 3° Perform odontometry (electronic or radiographic). 4° Preparation with the New 25.06 or 35.04 file according to the caliber of the canal. 5th Canal ready for obturation.
 Note: Usage may vary according to professional practice.

Reintervenção

Protocol created by Prof. Ary Motta Jr

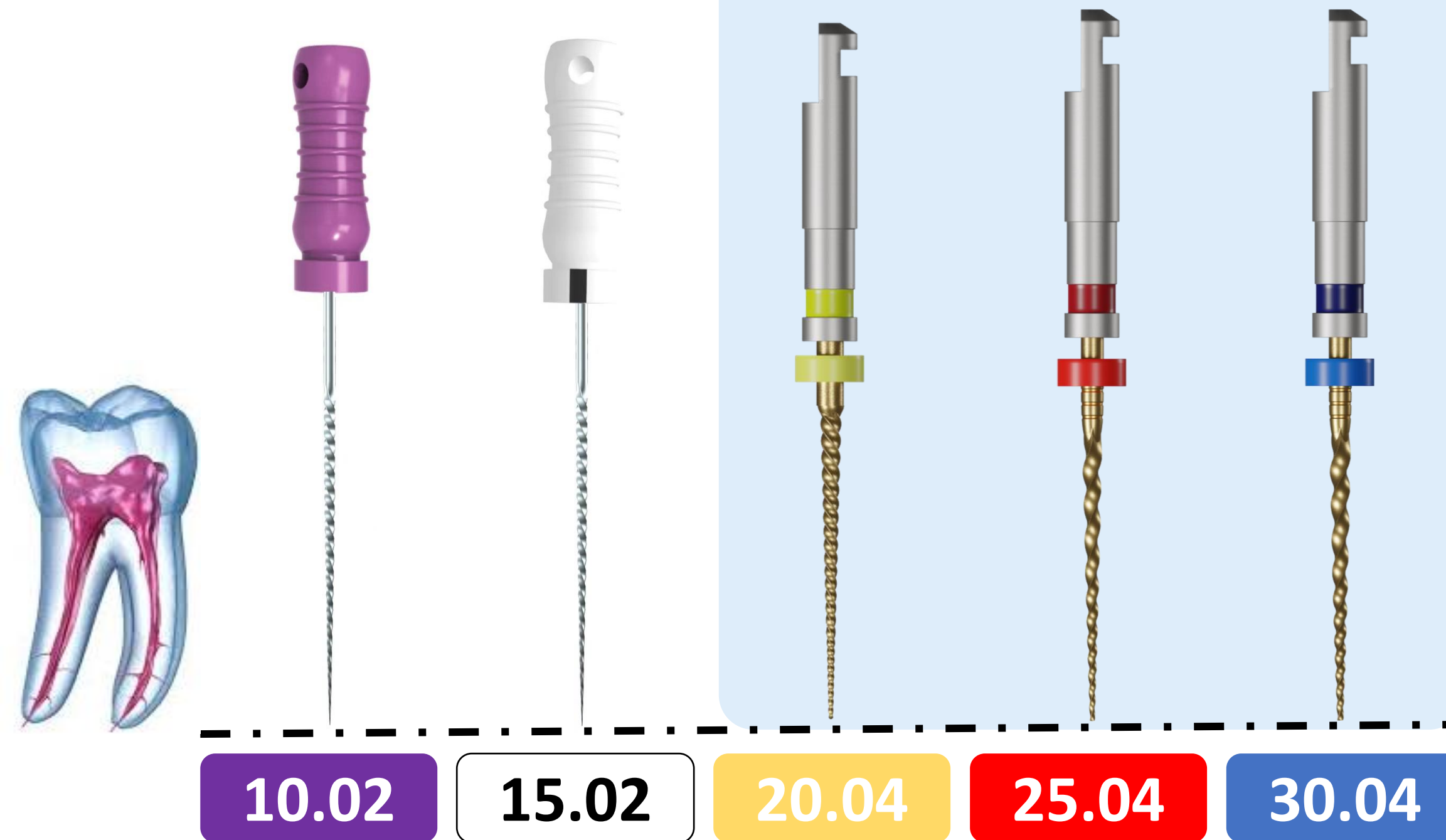
- 1) Estimate the momentary working length of the canal (CTM), which is the radiographic length minus 3 mm;**
 - 2) Start with the ReNew file 30.09 or 25.08 in the cervical and middle third (L1) according to the caliber of the canal.**
 - 3) Determine the Approximate Working Length of the channel (CTAP):**
 - The. After removing the filling material in the cervical and middle thirds, place the file that performed the removal and take an X-ray;**
 - B. Measure the distance from the tip of the file to the end of the canal;**
 - w. CTAp= Length of the Renew File + distance from the tip to the end of the canal (apical 1/3 lacks gutta removal to the foramen)**
 - 4) Adjust the cursor of the L2 file (25.08 or 20.07- Renew) in the CTAp and work in the canal until the remaining filling material is completely removed;**
 - 5) After arriving at the CTAp, obtain the real working length of the canal (CRT) through apex locators or radiographic method;**
 - 6) Re-prepare the canal with a L3 file (25.06 or 35.04 - New) on the CRT.**
- Usage kinematics are smooth entry and exit movements of about 2mm until the desired length.

Estudo de Caso



Rotary system for deciduous teeth

- Memory Control



WORK SUGGESTION

350 RPM/1,5N

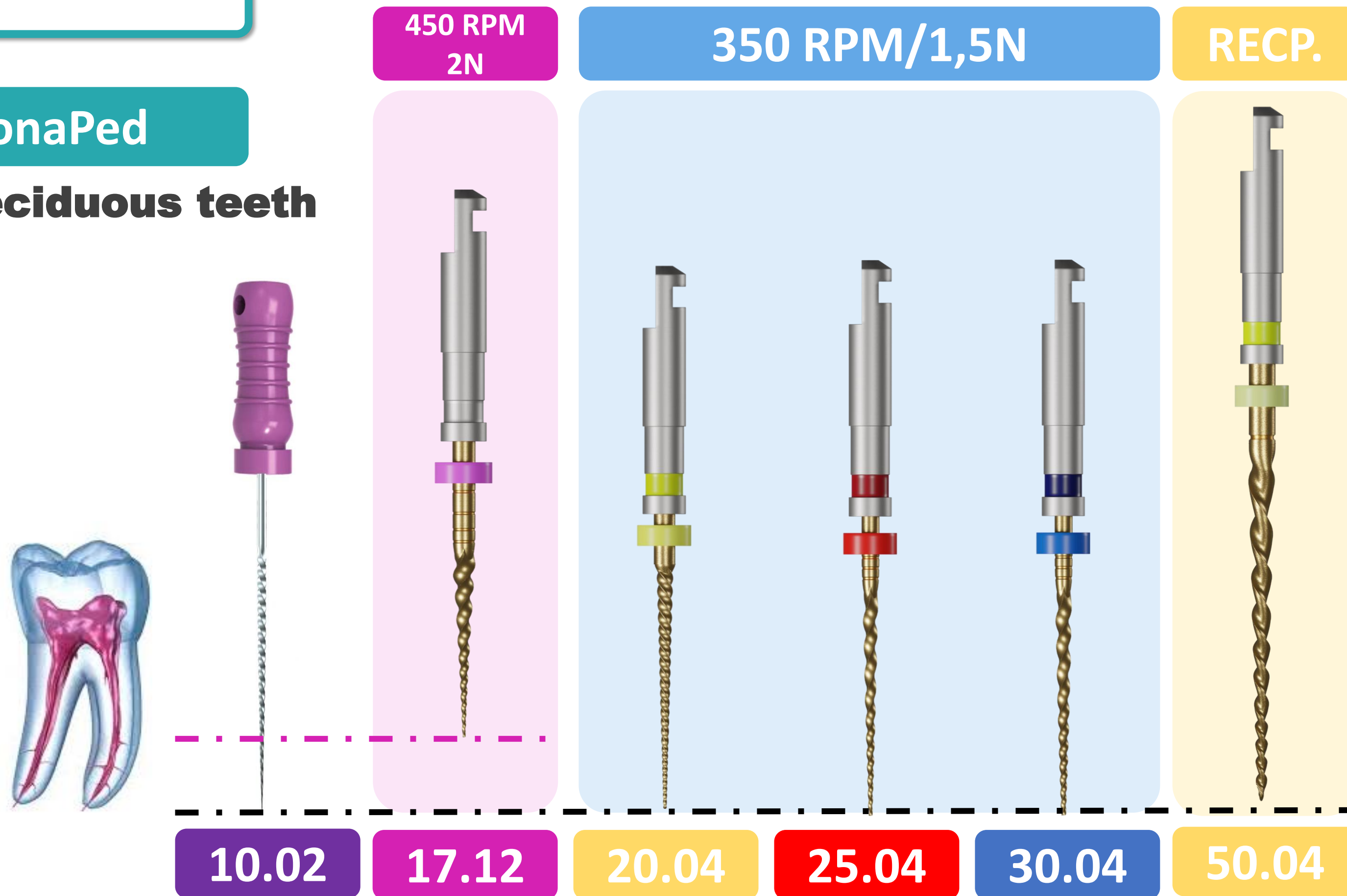
- 1° Start preparation with the manual files (#10 and #15) and find the real length of the canal.
 - 2° Start preparing with Univy Kids file (20.04).
 - 3° Proceed with the Univy Kids file (25.04).
 - 4° Explore the canal with the appropriate Univy file to finish the canal.
- Note: Usage may vary according to professional practice.

WORK SUGGESTION

Protocolo by EndonaPed

Rotary system for deciduous teeth

- Memory Control



1° Explore with the manual file (#10) up to the working length

2nd Start preparing the cervical and middle thirds with univy New (#17.12)

3° Continue preparing the apical third with the appropriate Univy Kids (20.04, 25.04 and 30.04) or depending on the indication, use the Univy Sense 50.04 file, as indicated by the Endonaped method

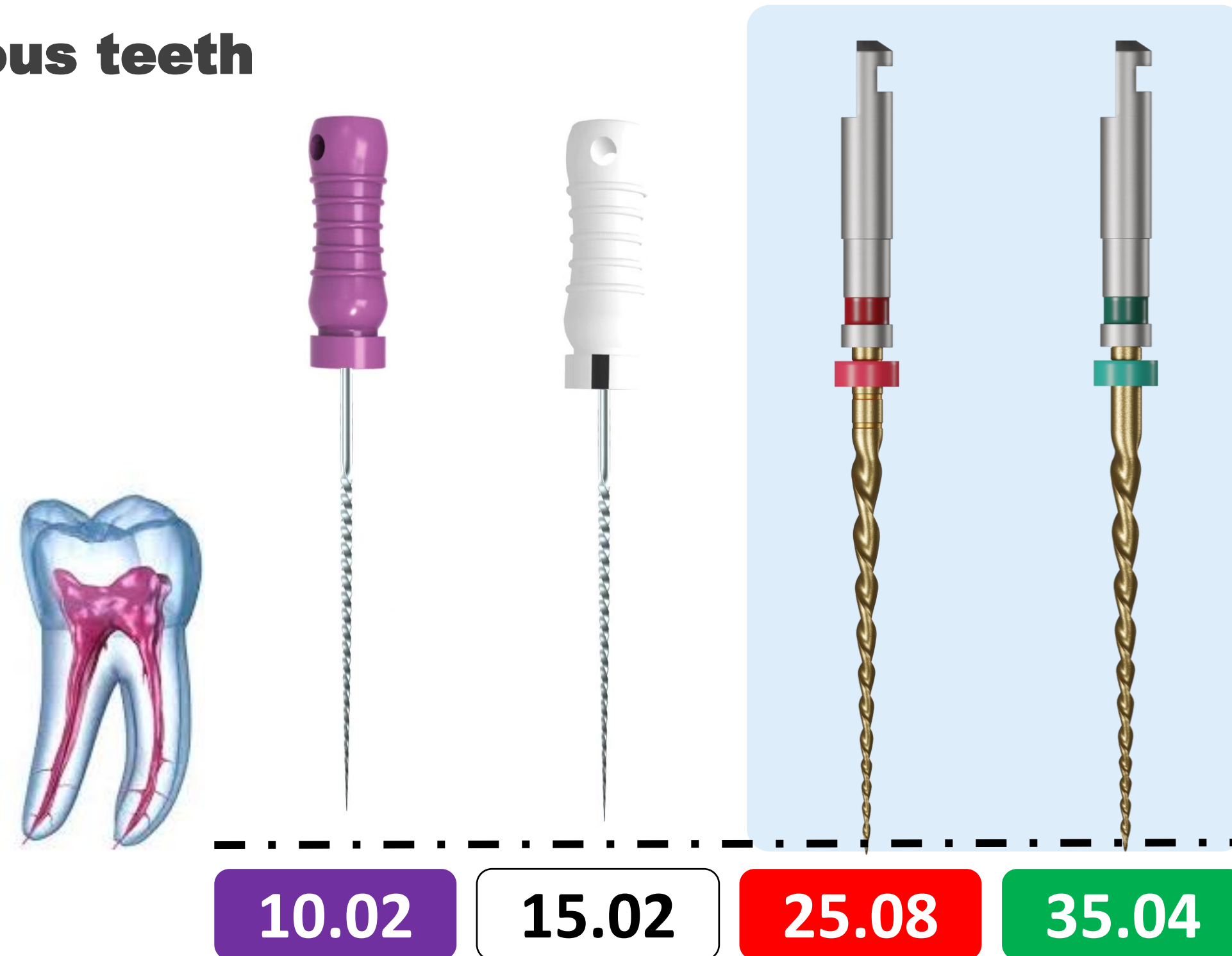
Note: Usage may vary according to professional practice.

WORK SUGESTION

Protocolo by Renata Marques

Rotary system for deciduous teeth

- Memory Control



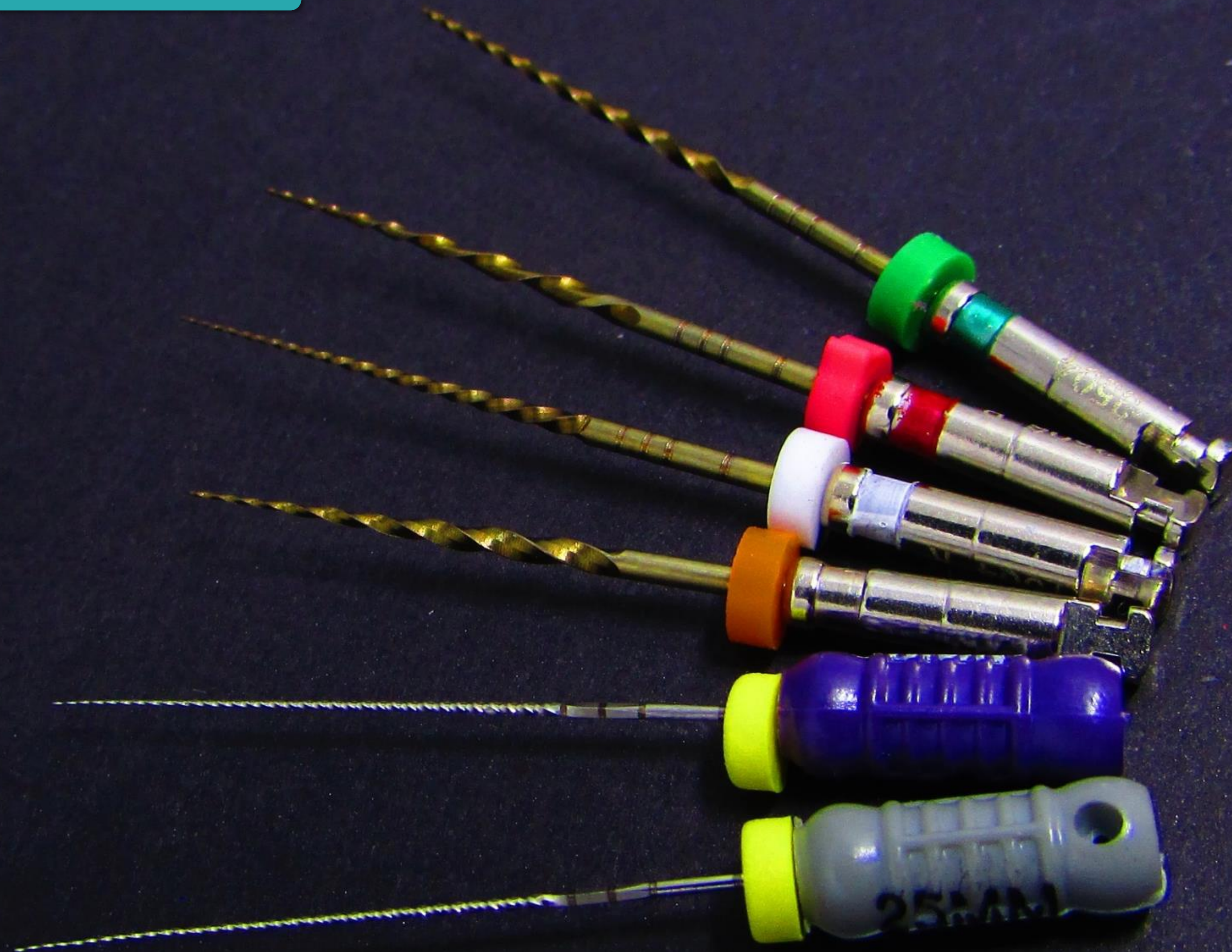
1° Start channel negotiation with manual file (#10 and #15) and find the real length.

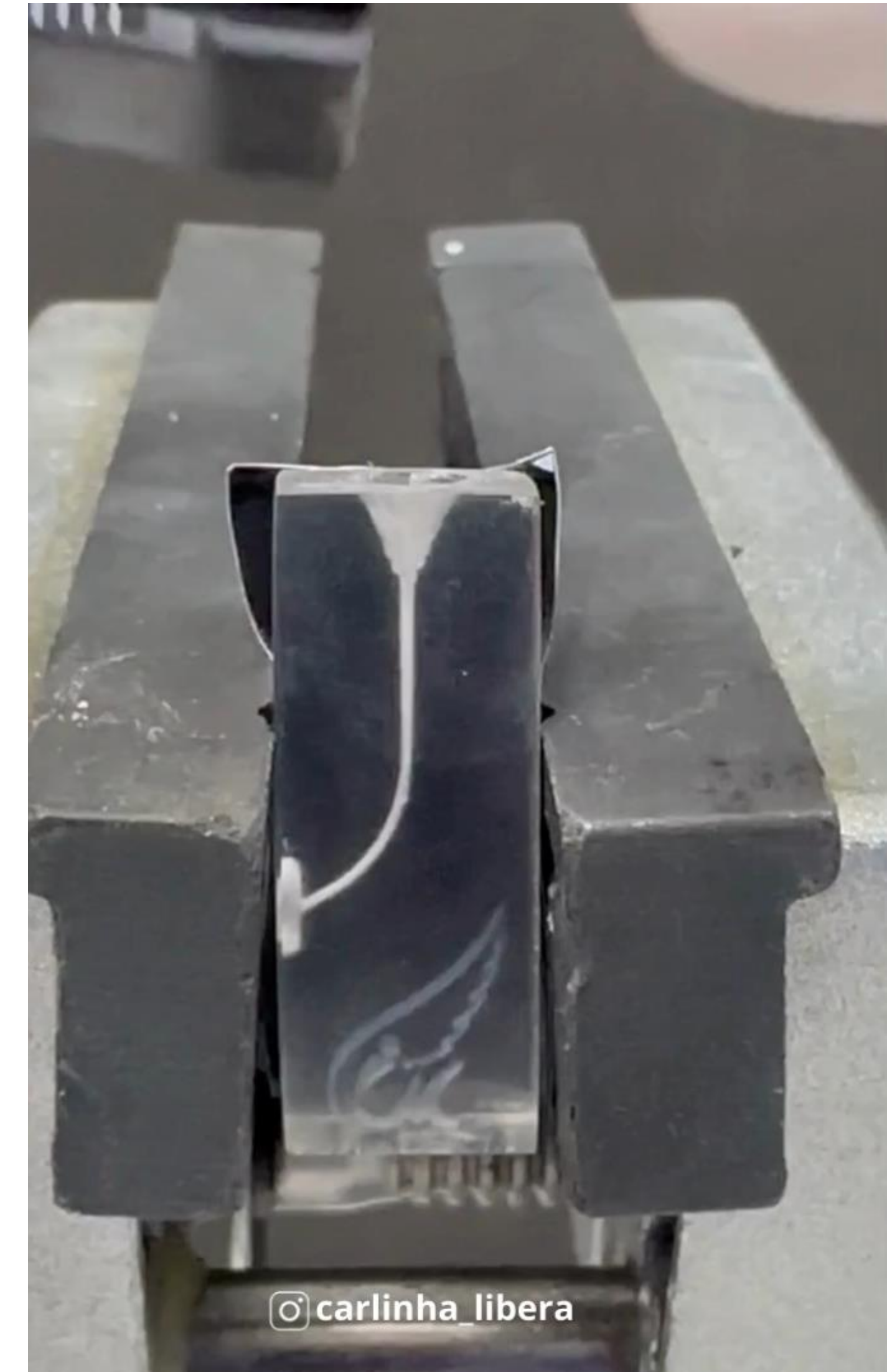
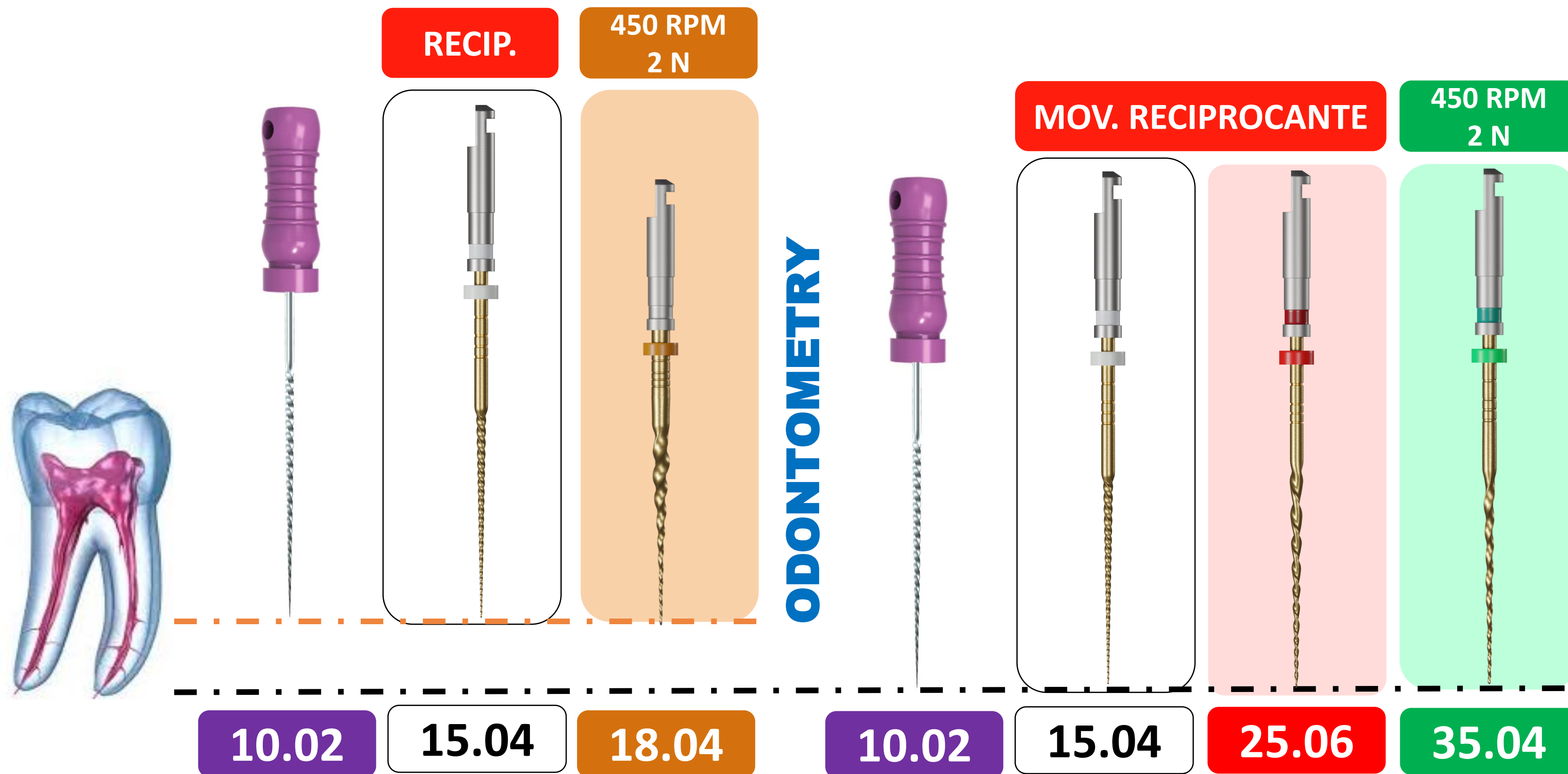
2° Using the Univy Sense Kids files, carry out “pecking” movements alternating with irrigation and abundant aspiration until reaching the working length

3° At the working length, make light brush strokes against the walls.

Note: Usage may vary according to professional practice.

HANDS ON





- 1° Start the preparation with a manual file (#10), Univy Sense (15.04) and Univy New (18.04) in the cervical and middle third.
 - 2° After odontometry, explore with the Univy Sense manual file (15.04 and 25.06) and Univy New (35.04).
 - 4° Finish the channel until the proper Univy.
- Note: Usage may vary according to professional practice.



17.03



15.05



20.05



25.05



30.05



40.05



50.04





WORK SUGGESTION

Wide Channel

450 RPM/ 2N

450 RPM/ 2N

ODONTOMETRIA

15.02 15.05 17.03 15.02 15.05 20.05 25.05 30.05 40.05 50.04

- 1° Start preparation with a hand file (#10,15) Univy New (13.04 and 17.03) in the cervical and middle third.
- 2° After odontometry, explore with the Univy New (13.04) and Univy New (20.04 to 30.05) manual file.
- 3° Finalize the channel until Univy New suitable. Measurement 50.04 can be used in cases with wider anatomies.

Note: Usage may vary according to professional practice.



CASES STUDY

Case Study

Dr.^a M.^a Milena Perrado Martins

Univy New 15.04, 20.04, 25.04, 30.04, 35.04 e 40.04



Case Study

Upper Molar Protocol and MV2

Catheterization File C-pilot #8 and #10

MV1, DV and P channels

Orifice shaper #18.04

Univy new #15.04

Univy Sense #25.06

Univy New #35.04 – MV1 and DV

Univy New #40.04

MV2

Orifice shaper #18.04

Univy glide #15.03

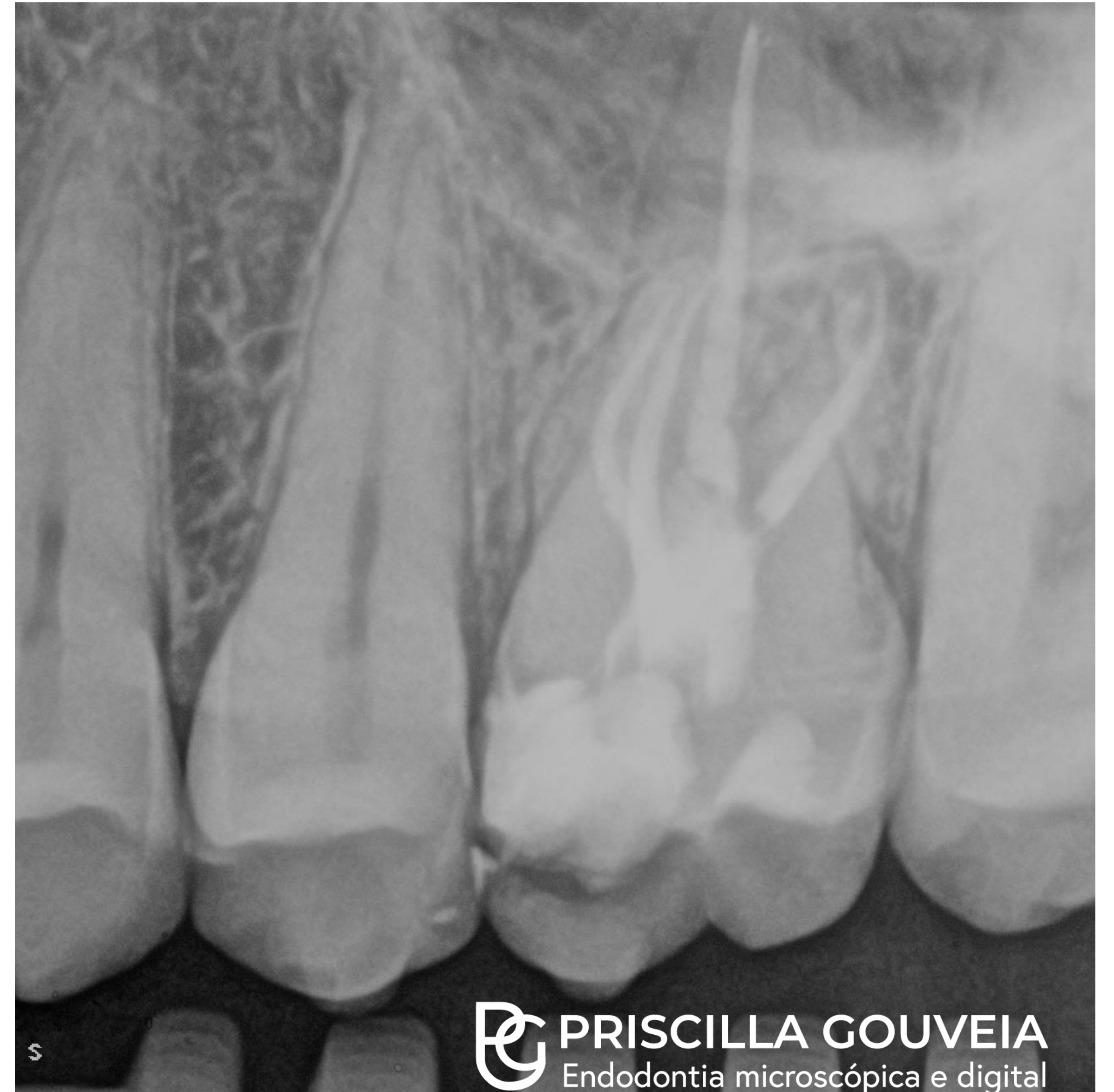
Univy New #17.04

Univy New #20.04

Univy New #25.04



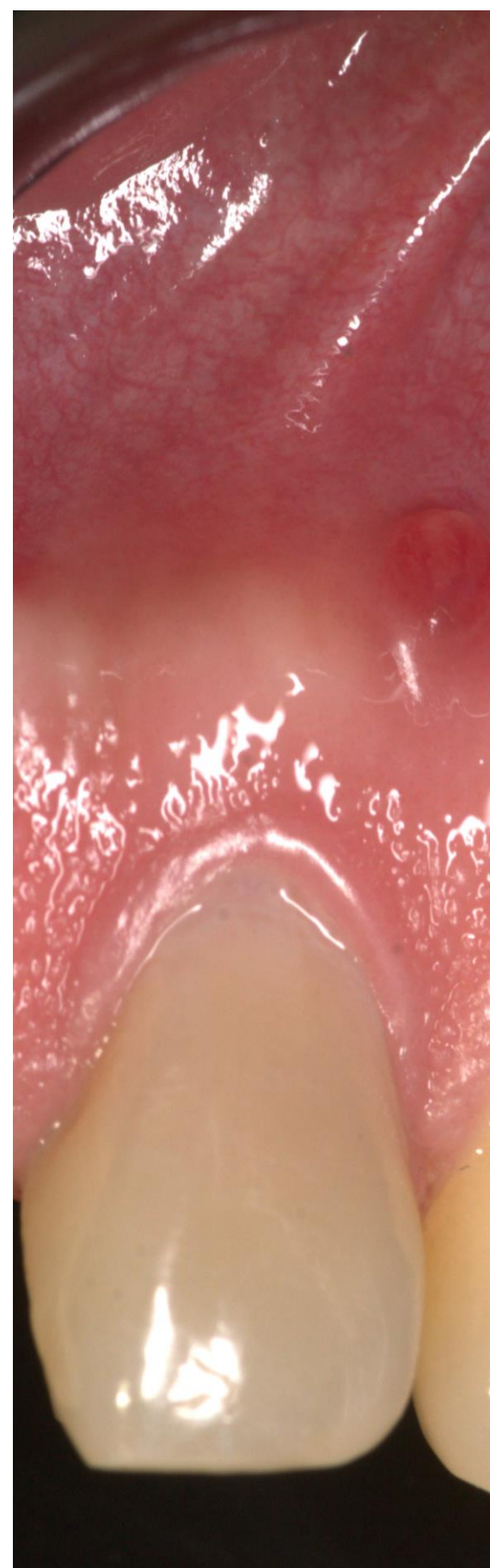
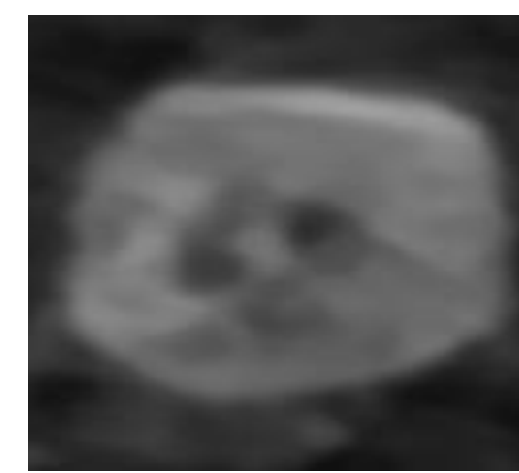
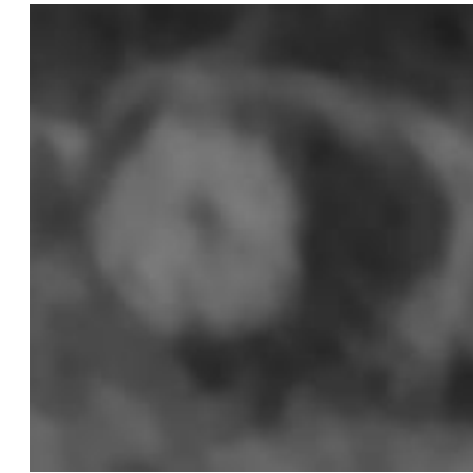
Case Study



Case Study

• Tooth 22

M.D. Alan Raúl Hernández Mendoza



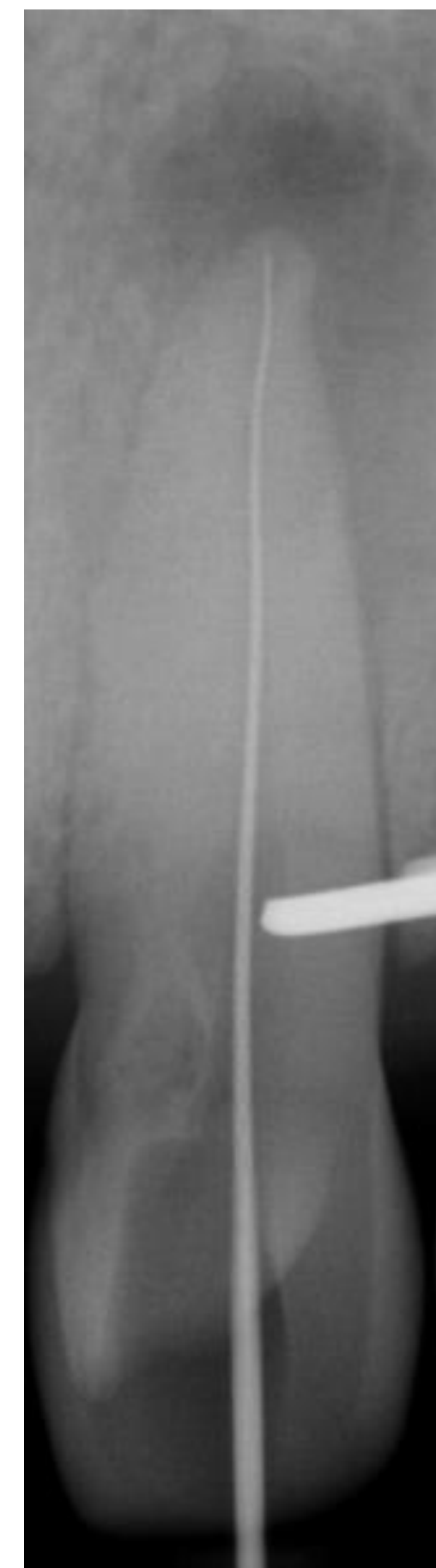
Fotografía inicial



Rx inicial



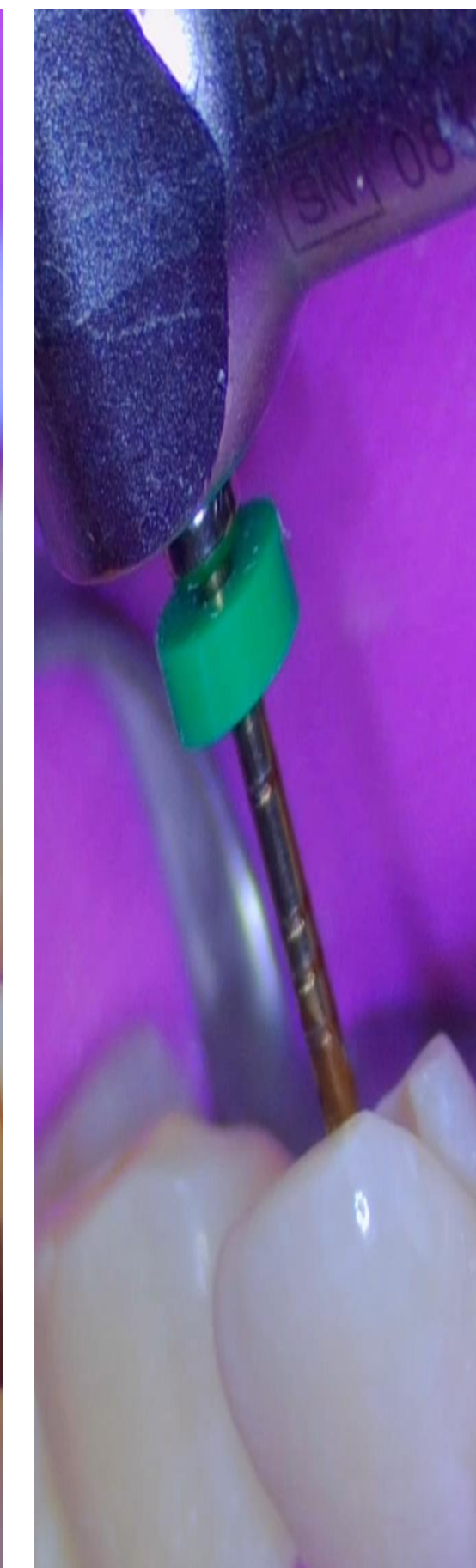
LT Dens in dente



LT conducto principal



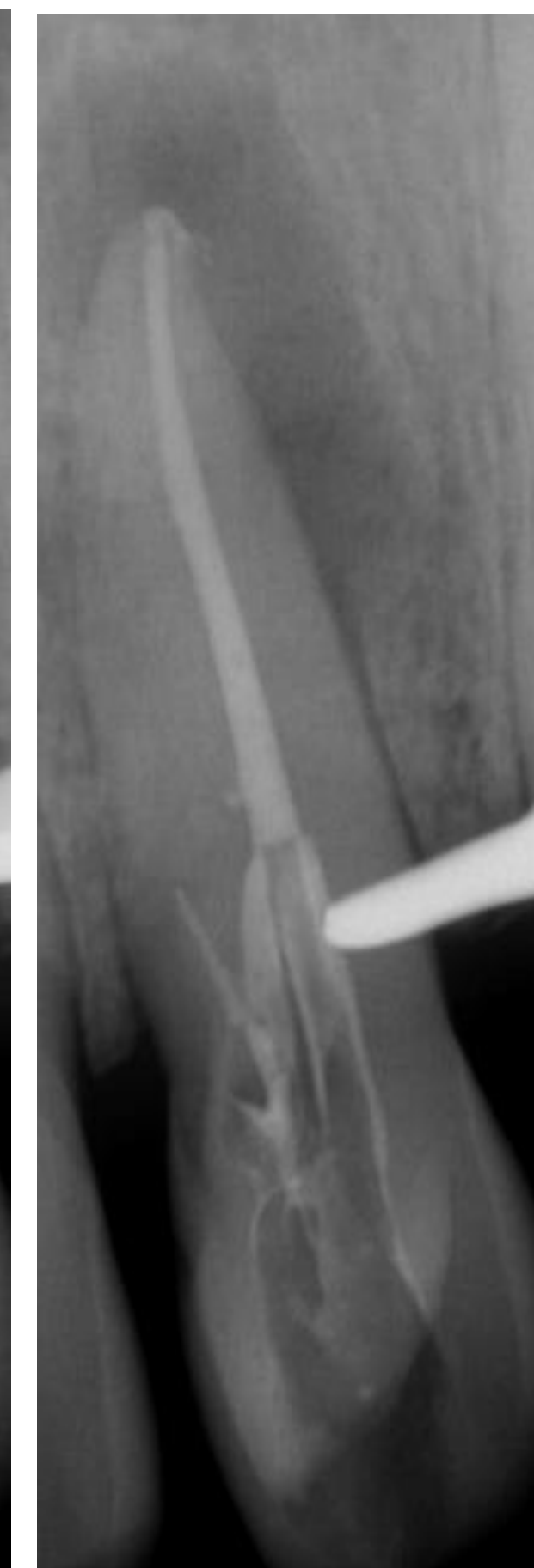
UNIVY SENSE 25.06



UNIVY SENSE 35.04



Prueba de cono



Obturación TP



Rx final

Case Study

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Asunción, PY

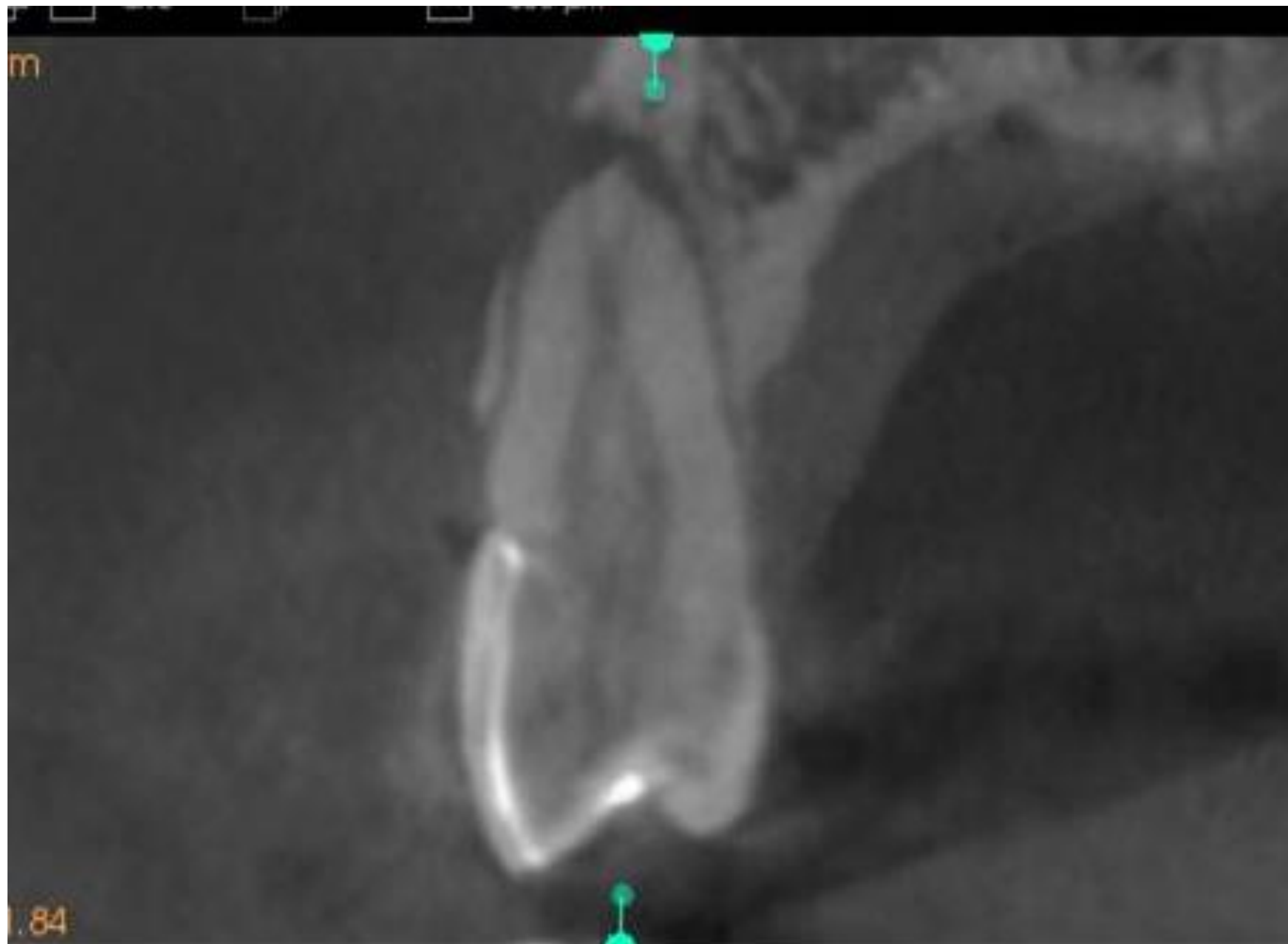
TOMOGRAFIA CONE BEAN PRÉ-OPERATORIA



Case Study

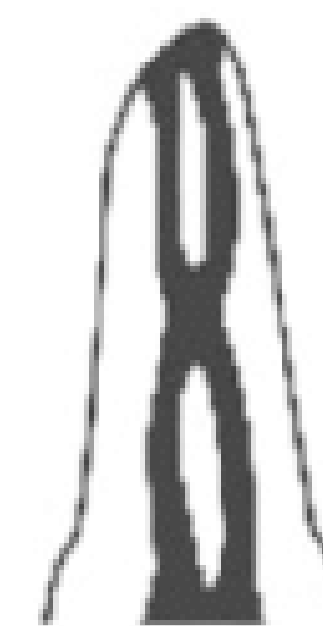
Dr. Carlos Heilborn
Asunción, PY

TOMOGRAFIA CONE BEAN PRÉ-OPERATORIA



Ahmed, HMA, Versiani, MA, De-Deus, G, Dummer, PMH.

A new system for classifying root and root canal morphology. *International Endodontic Journal*, 50, 761–770, 2017.



Type VI

Vertucci FJ (1984) Root canal anatomy of the human permanent teeth. *Oral Surgery, Oral Medicine and Oral Pathology* 58, 589–99.

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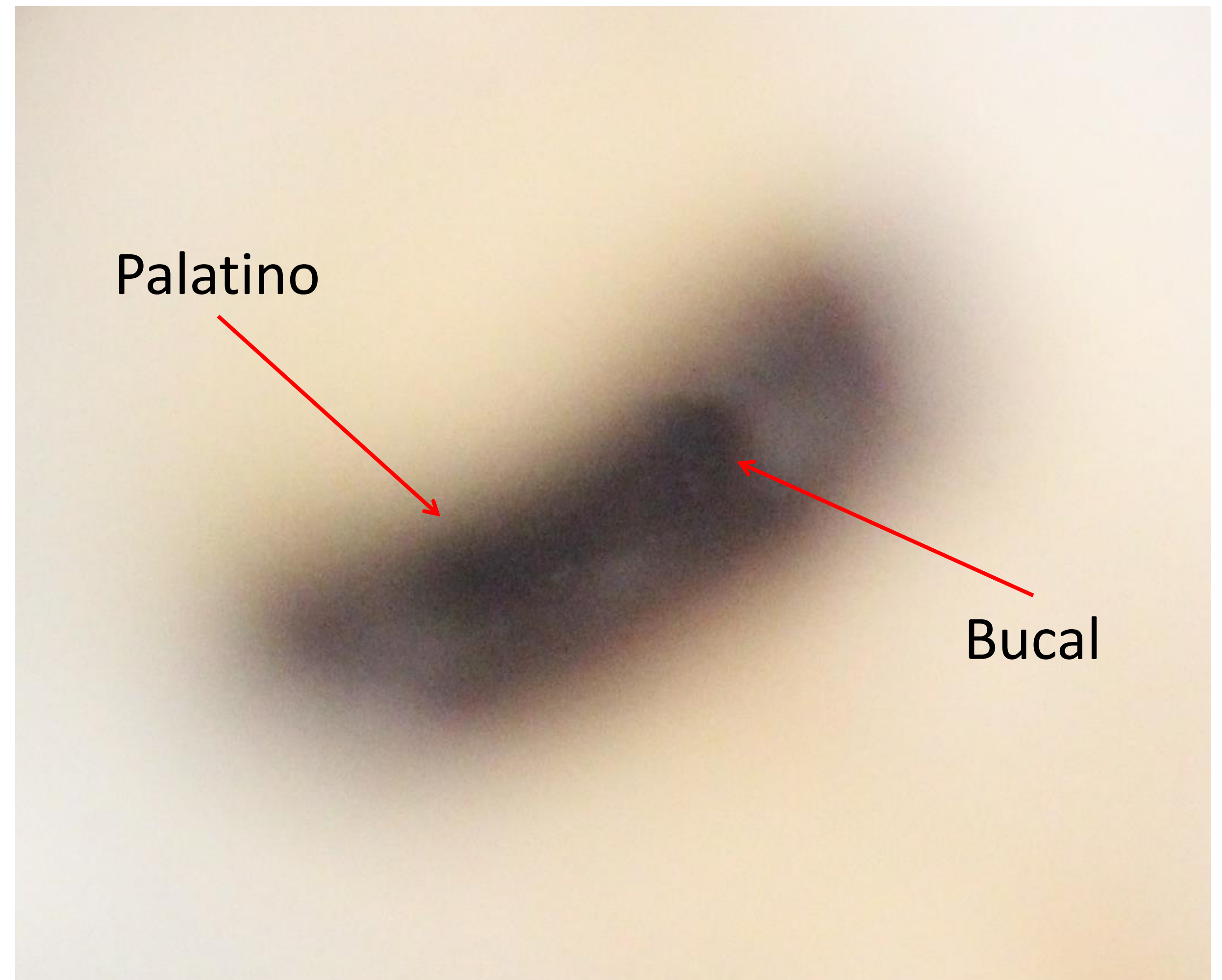
- **Tooth 14**
- **Pulp Dx: Pulp Necrosis**
- **Dx. Periapical: Chronic Apical Periodontitis.**
- **Dx. Anatomical: 2-1-2, Vertucci Type VI**
- **Full isthmus instrumentation to transform anatomy to type 1-2 using Helse ultrasonic inserts (Clearsonic, Flatsonic)**
- **Instrumentation of all conduits up to 40.04. (Univy New Rotary System)**
- **Passive ultrasonic irrigation with 5.5% NaOCl (Irrisonic Helse)**
- **Medication with Ca(OH) CHX for 30 days.**
- **Root filling and composite resin core reinforced with fiberglass.**
- **All procedures performed with magnification with an Operative Microscope.**

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Case Study

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Case Study

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TOMOGRAFIA CONE BEAN PRÉ-OPERATORA

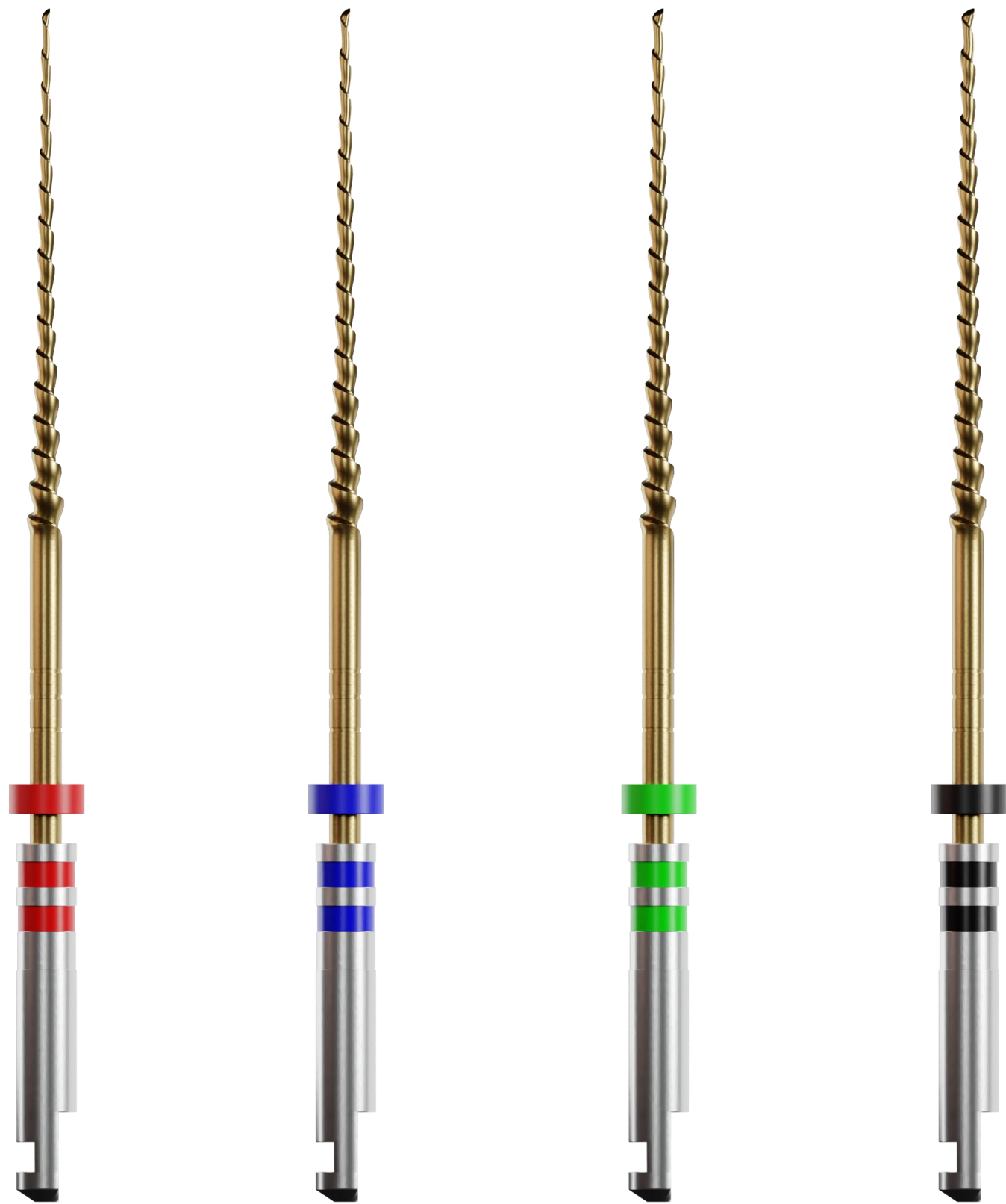




OTHER PRODUCTS

Instruments

CONDENSADOR UNIVY

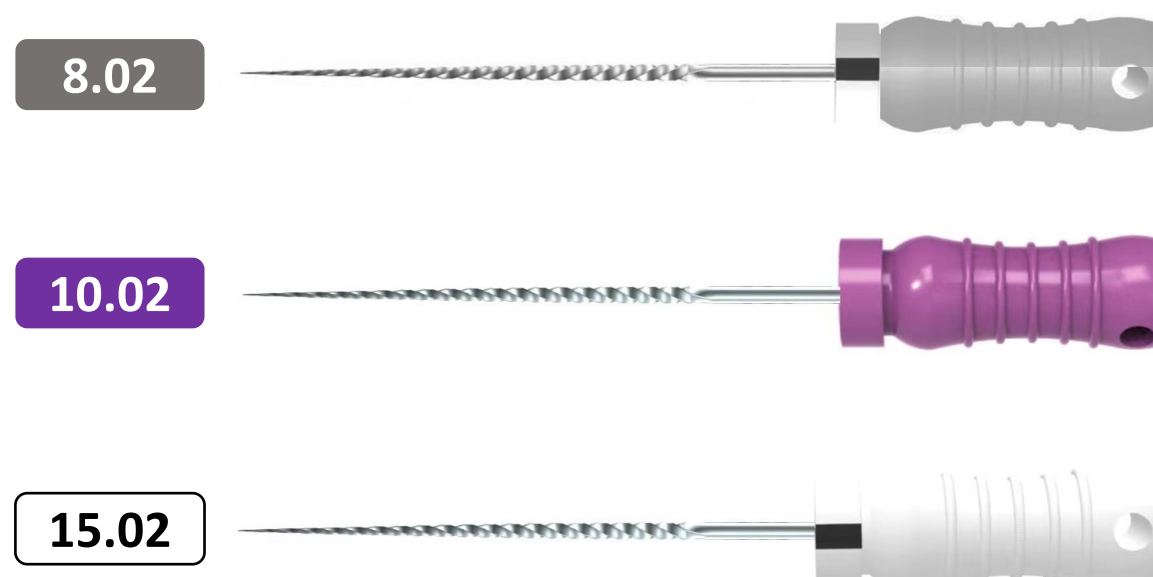


LENTULO UNIVY



Manual Files

UNIVY STEEL / NiTi - K & H





Obrigado!

Thank you! Gracias! Merci! Xie Xie!

Univy Technology Advanced Co. Ltd

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