



Department of Conservative Dentistry and Endodontics
E-Learning sessions –
CRI Students Involving Postgraduates

S.No	Date	Faculty In-charge	Topic of discussion	No. of students attended
1.	06/04/2020	Dr.K.Senthil Kumar	Diagnosis & treatment planning in Endodontics	17
2.	07/04/2020	Dr.Sadasiva	Access cavity preparation- part I	19
3.	08/04/2020	Dr.Anupama	Access cavity preparation – part II	20
4.	09/04/2020	Dr.Manjiri Honap	Working length estimation	22
5.	10/04/2020	Dr.K.Senthil Kumar	Biomechanical preparation	22
6.	11/04/2020	Dr.Sadasiva	Clinical case presentation- Blunderbuss canal and its management	21

Department of Conservative Dentistry & Endodontics

Attendance Report

Date: 06.04.2020

CRRI (2015-16 Batch)

Staff: Dr. K. Senthil Kumar

Timings: 11.30 am to 12:30pm

Revathy is inviting you to a scheduled Zoom meeting.

Clinical Posting – CRRI

Time: Apr 6, 2020, 11:30AM India.

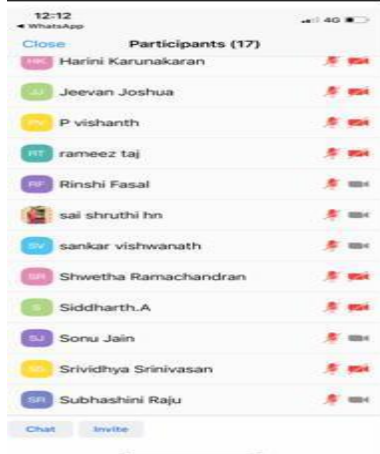
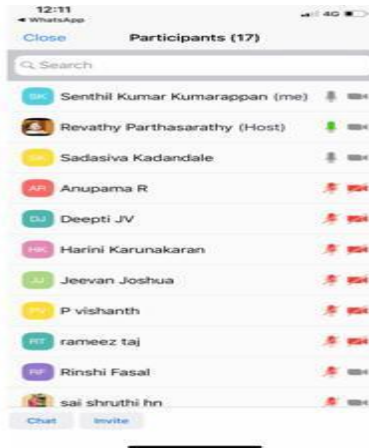
Join Zoom meeting

<https://us04web.zoom.us/j/6276235022?pwd=MWlvTWZ3bTgzM3QwODVWeHl0dVQT09>

Meeting ID: 6276235022

Password: 683974

No of students participated: 17




Chettinad
 Dental College & Research Institute

DIAGNOSIS & TREATMENT PLANNING



Close

Participants (13)

Search

- | | | | |
|---|------------------------------|---|---|
| SK | Sadasiva Kadandale (me) |   | > |
|  | Revathy Parthasarathy (host) |   | > |
| JJ | Jeevan Joshua |   | > |
| RF | Rinshi Fasal |   | > |
| SV | sankar vishwanath |   | > |
| SR | Shwetha Ramachandran |   | > |
| SS | Srividhya Srinivasan |   | > |
| HK | Harini Karunakaran |   | > |
| RT | rameez taj |    | > |
|  | sai shruthi hn |   | > |
| SJ | Sonu Jain |   | > |
| PV | P vishanth |  | > |

Chats

Invite



Close

Participants (13)

 Search

- | | | |
|---|------------------------------|---|
| SK | Sadasiva Kadandale (me) |   > |
|  | Revathy Parthasarathy (host) |   > |
| JJ | Jeevan Joshua |   > |
| RF | Rinshi Fasal |   > |
| SV | sankar vishwanath |   > |
| SR | Shwetha Ramachandran |   > |
| SS | Srividhya Srinivasan |   > |
| HK | Harini Karunakaran |   > |
| RT | rameez taj | 1   > |
|  | sai shruthi hn |   > |
| SJ | Sonu Jain |   > |
| PV | P vishanth |  > |

Chats

Invite



Close

Participants (17)

 Search

- | | | |
|---|------------------------------|---|
| SK | Sadasiva Kadandale (me) |   > |
|  | Revathy Parthasarathy (host) |   > |
| JJ | Jeevan Joshua |   > |
| SK | Senthil Kumar Kumarappan |   > |
| AR | Anupama R |   > |
| DJ | Deepti JV |   > |
| HK | Harini Karunakaran |   > |
| PV | P vishanth |   > |
| RT | rameez taj |   > |
| RF | Rinshi Fasal |   > |
|  | sai shruthi hn |   > |
| SV | sankar vishwanath |   > |

Chats

Invite



11:34

VoWiFi 78%

Close

Participants (14)

Search

- | | | |
|---|----------------------------|---|
| SK | Sadasiva Kadandale (me) |   > |
| JC | Jayabalan C (host) |   > |
|  | Harish P |   > |
| SK | Senthil Kumar Kumarappan |   > |
| AR | Anupama R |   > |
|  | Balan Edward |   > |
| C | Chandhni's iPhone |   > |
|  | Deepika Ramachandra Murali |   > |
| GB | Gautham B |   > |
| HR | Harish Raghav |   > |
|  | Hema Suresh |   > |
|  | Jaya Kumar |   > |

Chats

Invite



Department of Conservative Dentistry & Endodontics

Attendance Report

Date: 07.04.2020

CRRI (2015-16 Batch)

Staff: Dr. Sadasiva K.

Timings: 12.00 pm to 1:00 pm

Senthil Kumar is inviting you to a scheduled Zoom meeting.

Clinical Posting – CRRI

Time: Apr 7, 2020, 12:00 PM India.

Join Zoom meeting <https://us04web.zoom.us/j/3225943888>

Meeting ID: 3225943888

Password: None

No of students participated: 19

[Close](#)

Participants (18)

AR

Anupama R



HK

Harini Karunakaran



JJ

Jeevan Joshua



MH

Manjiri Honap



PV

P vishanth



r

rameez taj



saishruthi



SR

Shwetha Ramachandran



SJ

Sonu Jain



SR

Subhashini Raju



S

Siddharth.A



YT

Yashini Thanikachalam

[Chat](#)[Invite](#)[Mute All](#)[Unmute All](#)



You

53 minutes ago

Participants (18)



Search



Senthil Kumar Kuma... (Host, me)



Sadasiva Kadandale



Srividhya Srinivasan



Kalaiarasi Murugesan



Ramya Rajaram



SANKAR AVG

REC



Anupama R



Harini Karunakaran



Jeevan Joshua



Manjiri Honap



P vishanth



Chat

Invite

Mute All

Unmute All

12:36



[Close](#)

Participants (19)

JJ	Jeevan Joshua		
MH	Manjiri Honap		
PV	P vishanth		
r	rameez taj		
RR	Ramya Rajaram		
SK	Sadasiva Kadandale		
	saishruthi		
SR	Shwetha Ramachandran		

2:01



You

53 minutes ago



Sreeram left the meeting

ACCESS CAVITY PREPARATION

S.Srividhya

1st yr PG

Dept of conservative dentistry
and endodontics



Ch Dr. Senthil Sir

Senthil Kumar Kumarappan is inviting you to a scheduled Zoom meeting.

Topic: Senthil Kumar Kumarappan's Zoom Meeting

Time: Apr 7, 2020 12:30 PM Mumbai, Kolkata, New Delhi

Join Zoom Meeting

<https://us04web.zoom.us/j/3225943888>

Meeting ID: **322 594 3888**

12:17 pm

REC



Department of Conservative Dentistry & Endodontics

Attendance Report

Date: 08.04.2020

CRRI (2015-16 Batch)

Staff: Dr. Anupama R.

Timings: 12.00 pm to 1:00 pm

Anupama is inviting you to a scheduled Zoom meeting.

Clinical Posting – CRRI

Time: Apr 8, 2020, 12:00 PM India.

Join Zoom meeting <https://us04web.zoom.us/j/6107038974>

Meeting ID: 6107038974

Password: None

No of students participated: 20

Ch Dr. Anupama Mam

zoom

**Join our Cloud HD Video Meeting
now**

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us04web.zoom.us

Anupama R is inviting you to a scheduled
Zoom meeting.

Topic: Anupama R's Zoom Meeting
Time: Apr 8, 2020 12:00 PM Mumbai,
Kolkata, New Delhi

Join Zoom Meeting
<https://us04web.zoom.us/j/6107038974>

Meeting ID: [610 703 8974](#)

11:56 am

12:11



VoWiFi 1



Close

Participants (20)

K	Kalaiarasi Murugesan			>
	POOJA LAKSHMANAN			>
r	rameez taj			>
RR	Ramya Rajaram			>
R	Revathy			>
RF	Rinshi Fasal			>
SK	Sadasiva Kadandale			>
SA	SANKAR AVG			>
SR	Shwetha Ramachandran			>
SJ	Sonu Jain			>
S	Sreeram			>
SR	Subhashini Raju			>
YT	Yashini Thanikachalam			>

Chats

Invite

12:11



VoWiFi 1



Close

Participants (20)

Search

- | | | |
|----|--------------------------|---|
| MH | Manjiri Honap (me) | > |
| AR | Anupama R (host) | > |
| | Senthil Kumar Kumarappan | > |
| SS | Srividhya Srinivasan | > |
| DJ | Deepti JV | > |
| HK | Harini Karunakaran | > |
| JJ | Jeevan Joshua | > |
| K | Kalaiarasi Murugesan | > |
| | POOJA LAKSHMANAN | > |
| r | rameez taj | > |
| RR | Ramya Rajaram | > |
| R | Revathy | > |
| | | > |

Chats

Invite

12:11



V&WIFI 1



 Recording



 Harini Karunakaran



 Ramya Rajaram



 Jeevan Joshua



Connecting to audio ✓







 Recording

 Yashini Thanikachalam



 Shwetha Ramachandran



 Sonu Jain



 Kalaifarasi Murugesan

12:10



VaWiFi 1



 Recording



 Sadasiva Kadandale

r

 rameez taj



 Revathy



 Rinshi Fasal



12:10



VWiFi 1



Recording



Sreeram



Senthil Kumar Kumarappan



Anupama R



Srividhya Srinivasan



12:10



VoWiFi 1



610-703-8974

Leave



Recording

Manjiri Honap



Deepti JV



SANKAR AVG



Subhashini Raju



Unmute



Start Video



Share



Participants



More



Shwetha Ramachandran joined



610-703-8974

Leave



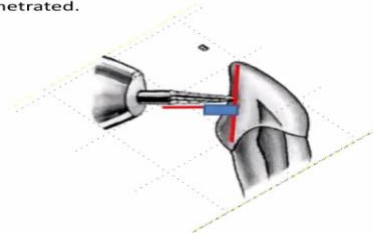
610-703-8974 

Leave



2

Initial entrance is prepared with a round bur at a high speed operated at a right angle to the long axis of the tooth. Only enamel is penetrated.



Unmute



Start Video



Share



Participants



More

Department of Conservative Dentistry & Endodontics

Attendance Report

Date: 09.04.2020

CRRI (2015-16 Batch)

Staff: Dr. Mnajiri Honap.

Timings: 12.00 pm to 12:30pm

Mnajiri Honap is inviting you to a scheduled Zoom meeting.

Clinical Posting – CRRI

Time: Apr 9, 2020, 12:00PM India.

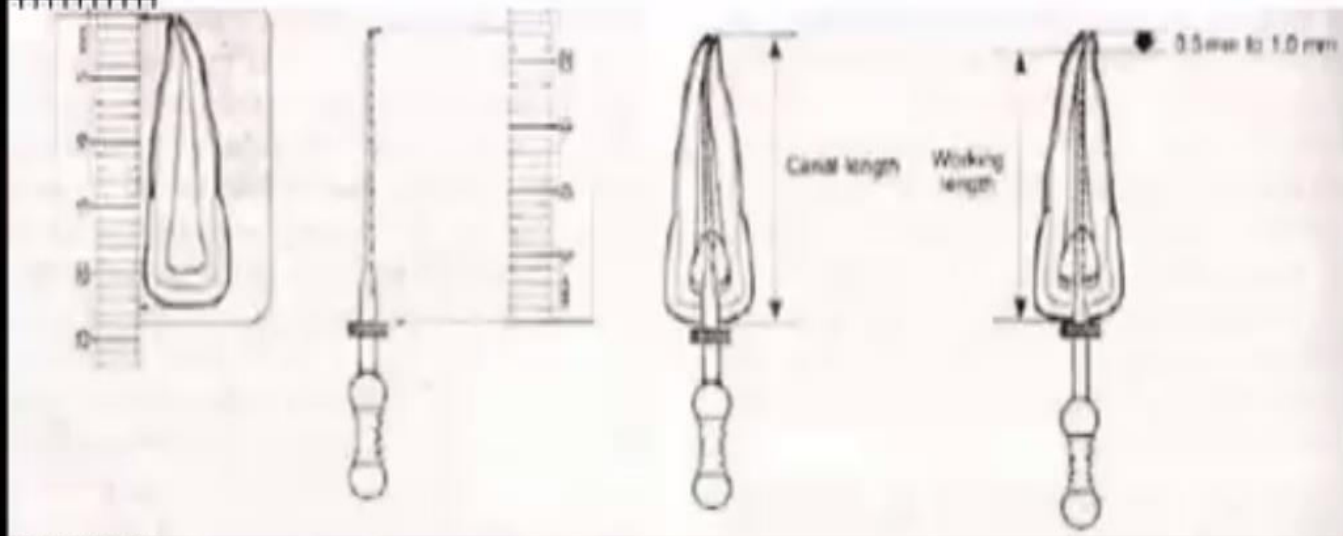
Join Zoom meeting <https://us04web.zoom.us/j/687003864>

Meeting ID: 687003864

Password: None

No of students participated: 22

WORKING LENGTH DETERMINATION



Mute



Start Video



Security



Manage Participants



Chat



Share Screen



Pause/Stop Recording



Reactions

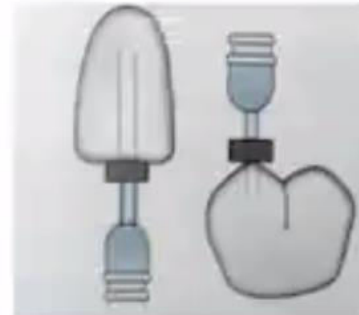
End Meeting

Few other definitions...



REFERENCE POINT:

The Reference point is that site on occlusal or the incisal surface from measurements are made.

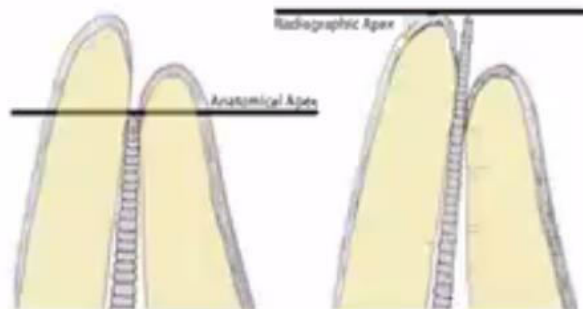


REFERENCE POINT

ANATOMIC APEX:

Anatomic apex is the tip or end of root determined morphologically.

RADIOGRAPHIC APEX: is the tip or end of root determined radiographically



Manjiri Honap



sankar vishwanath

Ramya Rajaram

Yashini Thanika...



Mute



Start Video



Security



Manage Participants



Chat



Share Screen






























































Pause/Stop Recording



Reactions

End Meeting

	Manjiri Honap (Host, me)	  
	Yashini Thanikachalam	  
	Anupama R	  
	Deepti JV	  
	Harini Karunakaran	  
	Jeevan Joshua	  
	Kalaiaarasi Murugesan	  
	P vishanth	  
	POOJA LAKSHMANAN	  
	Ramya Rajaram	  
	Rinshi Fasal	  
	Sadasiva Kadandale	 
	saishruthi	  
	sankar vishwanath	  
	Senthil Kumar Kumarappan	  

Invite

Mute All

Unmute All

...

Ramya Rajaram

Manjiri Honap

Rinshi Fasal

Yashini Thanikac...

Jeevan Joshua

Sreeram

P vishanth

Senthil Kumar Kumarappan

Shwetha Ramac...

rameez taj

Anupama R



Endo K batch interns

Ch Dr., Ch Dr., Ch Dr., Ch Dr., Ch Dr., Ch D...



Good morning all,
Today's topic is Working length
determination

8:36 am ✓✓

Date: 9-4-2020

Clinical posting - Interns

Discussion Topic: Working length
determination

12.30 to 1.30 : Topic discussion through
zoom video meeting.

8:36 am ✓✓

Join our Cloud HD Video Meeting now

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communications, with an easy, reliable cloud pla...
us04web.zoom.us

Manjiri Honap is inviting you to a scheduled
Zoom meeting.

Topic: Interns Clinical Posting Discussion
Time: Apr 9, 2020 12:00 PM Mumbai,
Kolkata, New Delhi

Join Zoom Meeting

<https://us04web.zoom.us/j/687003864>

Meeting ID: **687 003 864**

8:37 am ✓✓

We all will meet for discussion at 12.

8:37 am ✓✓

+91 86809 87563 ~sonujain

Okay ma'am

8:42 am



Type a message



Department of Conservative Dentistry & Endodontics

Attendance Report

Date: 10.04.2020

CRRI (2015-16 Batch)

Staff: Dr.K.Senthil Kumar

Timings: 12.15 pm to 12:50pm

Senthil Kumar is inviting you to a scheduled Zoom meeting.

Clinical Posting – CRRI

Time: Apr 10, 2020, 12:15 PM India.

Join Zoom meeting <https://us04web.zoom.us/j/3225943888>

Meeting ID: 3225943888

Password: None

No of students participated: 22

TODAY

Ch Dr. Senthil Sir

Senthil Kumar Kumarappan is inviting you to a scheduled Zoom meeting.

Topic: Senthil Kumar Kumarappan's Zoom Meeting

Time: Apr 10, 2020 12:15 PM Mumbai, Kolkata, New Delhi

Join Zoom Meeting

<https://us04web.zoom.us/j/3225943888>

Meeting ID: **322 594 3888**

11:49 am

Good morning all, this is the meeting ID for today's discussion

11:50 am



Type a message



12:37



VoWiFi



Close

Participants (22)

- | | | | | |
|----|--------------------------|--|--|---|
| RR | Ramya Rajaram | | | > |
| R | Revathy | | | > |
| RF | Rinshi Fasal | | | > |
| | Sadasiva Kadandale | | | > |
| | saishruthi | | | > |
| | Senthil Kumar Kumarappan | | | > |
| SR | Shwetha Ramachandran | | | > |
| S | Siddharth.A | | | > |
| SJ | Sonu Jain | | | > |
| S | Sreeram | | | > |
| SS | Srividhya Srinivasan | | | > |
| SR | Subhashini Raju | | | > |
| YT | Yashini Thanikachalam | | | > |

[Invite](#)

Close

Participants (22)

 Search

Manjiri Honap (me)



SV

sankar vishwanath (host)



AR

Anupama R



DJ

Deepti JV



HK

Harini Karunakaran



JJ

Jeevan Joshua



K

kalai



POOJA LAKSHMANAN



r

rameez taj



RR

Ramya Rajaram



R

Revathy



RF

Rinshi Fasal



Invite

BIOMECHANICAL PREPARATION

sankar vishwanath's screen





BIOMECHANICAL PREPARATION

sankar vishwanath's screen



12:17

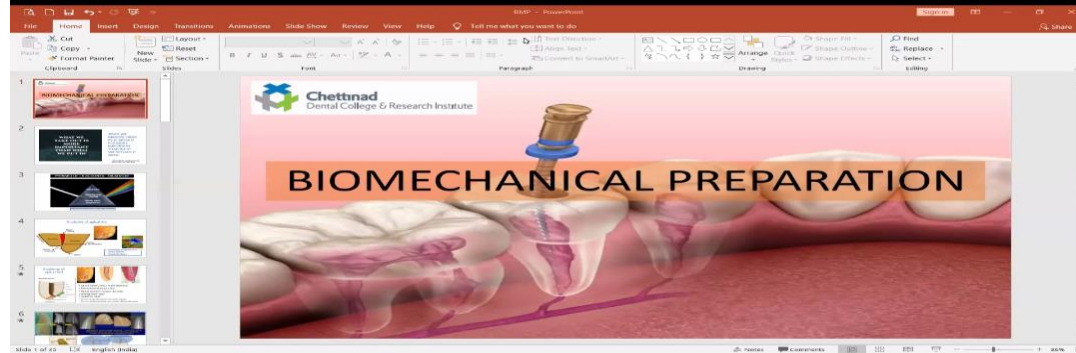


VoLTE 1



322-594-3888

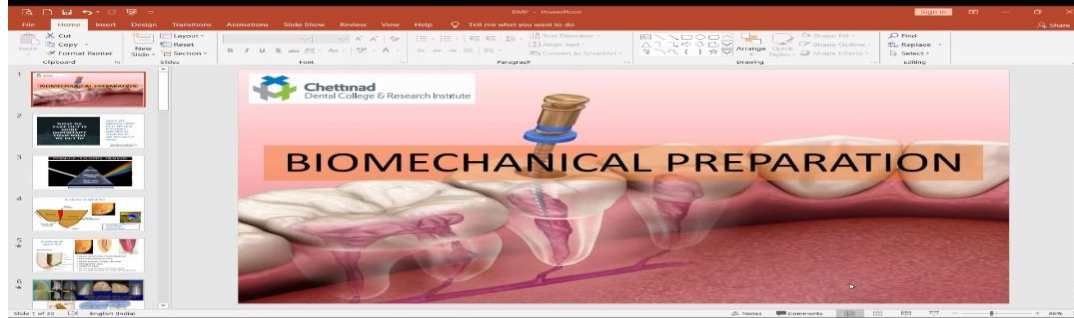
Leave





322-594-3888

Leave



Unmute



Start Video



Share



Participants



More

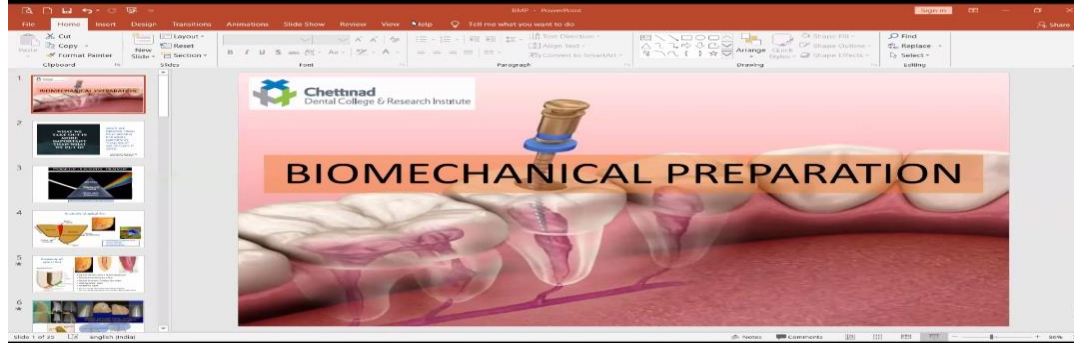
12:21



VoWiFi



Recording

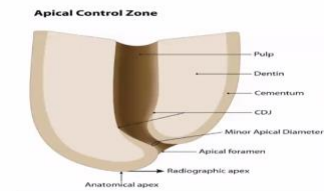


sankar vishwanath's screen

WORKING WIDTH

- **Definition:** Working width is defined as "initial and postinstrumentation horizontal dimensions of the root canal system at working length and other levels"
 - the minimum initial working width = initial apical file size which binds at working length and other levels
 - The maximum final working width corresponds to the master apical file size

- **At least three sizes beyond initial working width**
- **Until clean – white dentinal shavings seen**



VII. WEINE'S MODIFICATION

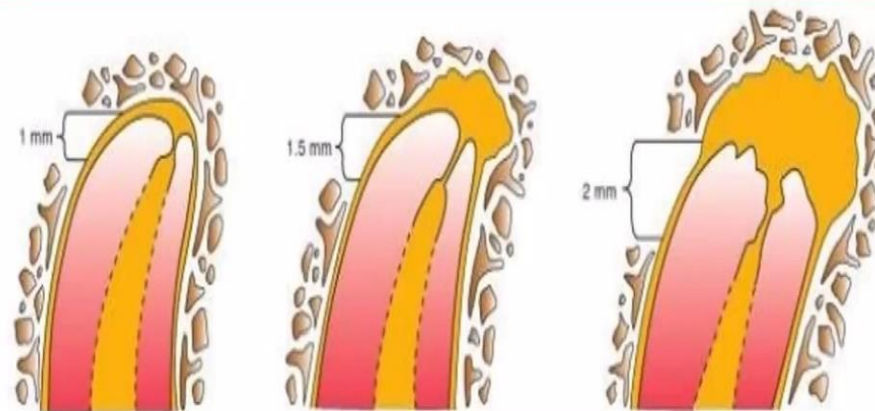
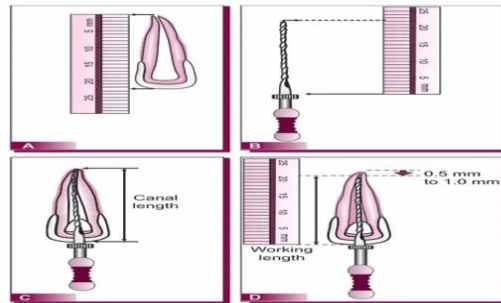


Figure 11.6 Wein's recommendation in cases of resorption.

MODIFICATION IN LENGTH SUBTRACTION :

- 1) No resorption – subtract 1mm
- 2) Periapical bone loss – subtract 1.5mm
- 3) Periapical bone loss+root apex resorption – subtract 2mm





Methods of working length determination

I. Radiographical methods

1. Grossman formula.
2. Ingles method.
3. Swine's method.
4. Xeroradiography.
5. RadioVisioGraphy.

II. Nonradiographical methods

1. Digital tactile sense.
2. Apical periodontal sensitivity.
3. Paper point method.
4. Electronic apex locator.

Ingles method

- 0.5 – 1mm “safety allowance” - To compensate for radiographic distortion
- Radiographic working length doesnot corresponds to minor diameter – apex locators useful

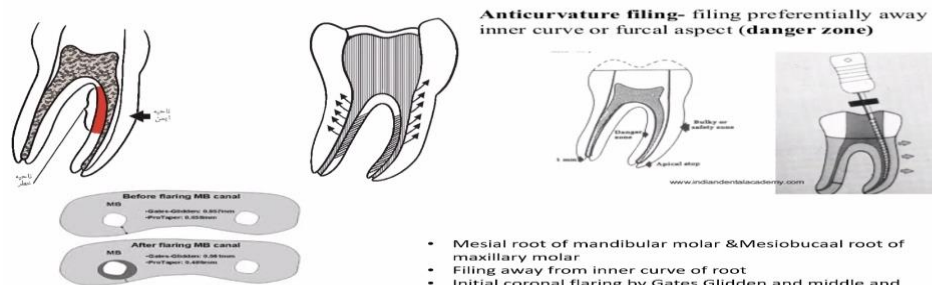
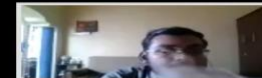


Figure 3 - Means of the measurement of the dentin thickness (mm) mesio Buccal (MB) canals of lower molars, before (A) and after (B) flaring after using Gates Glidden drills and ProTaper rotary files



12:24



VWiFi



322-594-3888

Leave

Recording

Manjiri Honap



sankar vishwanath



Ramya Rajaram

Senthil Kumar Kumarappan

Unmute

Stop Video

Share

Participants

More

12:19



VOLTE 1



 Shwetha Ramachandran



Harini Karunakaran



Sadasiva Kadandale



12:19



VolTE1



 Sreeram

r

 rameez taj



 Siddharth.A



 Anupama R



12:19



V<E 1



saishruthi



Jeevan Joshua



Srividhya Srinivasan



Rinshi Fasal



12:19



VOLTE1



 Yashini Thanikachalam




 Subhashini Raju



 POOJA LAKSHMANAN



 Sonu Jain



12:19



VOLTE 1



322-594-3888

Leave

Manjiri Honap



sankar vishwanath



Ramya Rajaram



Senthil Kumar Kumarappan



Unmute



Start Video



Share



Participants

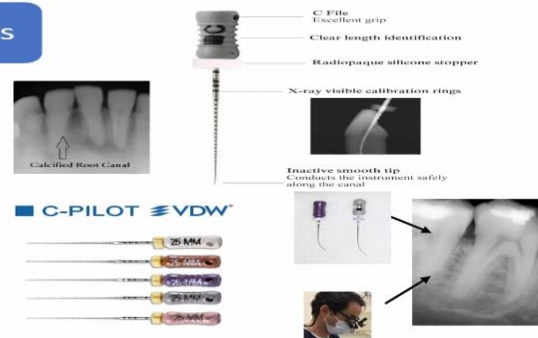


More



Management of calcified canals

- Follow laws of access opening
- Use DG16 explorer – firm pressure – stick at orifice
- Lesser size files k file no 8 and 10 is preferred
- Pathfinder files – c files
- Use EDTA gel – chelating agent
- Once Fine instrument reach apex verify with apex locator and xrays
- and prepare it in a gradual manner



sankar vishwanath's screen



Department of Conservative Dentistry & Endodontics

Attendance Report

Date: 11.04.2020

CRRI (2015-16 Batch)

Staff: Dr. Sadasiva K.

Timings: 12.00 pm to 12:45pm

Sadasiva K. is inviting you to a scheduled Zoom meeting.

Clinical Posting – CRRI

Time: Apr 11, 2020, 12:00PM India.

[https://us04web.zoom.us/j/386144298?pwd=ak0zRzgZV2JEM3dy](https://us04web.zoom.us/j/386144298?pwd=ak0zRzgZV2JEM3dyN0hGSdHjQ1RjZz09)

N0hGSDhjQ1RjZz09 Meeting ID: 386144298

Password: 031049

No of students participated: 21

Ch Dr. Sadashiva Sir

zoom

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now**

Zoom is the leader in modern enter...
us04web.zoom.us

Sadasiva Kadandale is inviting you to a
scheduled Zoom meeting.

Topic: Interns and PG's case discussion
Time: Apr 11, 2020 12:00 PM Mumbai,
Kolkata, New Delhi

Join Zoom Meeting
[https://us04web.zoom
.us/j/386144298?pwd=
ak0zRzgZV2JEM3dyN0hGSDhjQ1RjZz09](https://us04web.zoom.us/j/386144298?pwd=ak0zRzgZV2JEM3dyN0hGSDhjQ1RjZz09)

Meeting ID: **386 144 298**
Password: 031049

9:31 am



Type a message



12:10








VoLTE 1



Close

Participants (21)

PL	POOJA LAKSHMANAN	  >
r	rameez taj	  >
RR	Ramya Rajaram	  >
RF	Rinshi Fasal	  >
SS	sai shruthi	  >
SV	sankar vishwanath	   >
	Senthil Kumar Kumarappan	  >
S	Siddharth.A	  >
SJ	Sonu Jain	  >
SS	Srividhya Srinivasan	  >
SR	Subhashini Raju	  >
YT	Yashini Thanikachalam	  >
	Sriram pugalenth	 >

[Invite](#)

Close

Participants (21)

 Search

Manjiri Honap (me)



Sadasiva Kadandale (host)



SR

Shwetha Ramachandran



AR

Anupama R



DJ

Deepti JV



HK

Harini Karunakaran



JJ

Jeevan Joshua



P vishanth



PL

POOJA LAKSHMANAN



r

rameez taj



RR

Ramya Rajaram



RF

Rinshi Fasal

[Invite](#)

12:03



V&WIFI 1



1 OF 34

386-144-298



Password: 031049



Leave



Chettinad
Dental College & Research Institute

BLUNDERBUSS CANAL



Presented by:
Dr.Shwetha RK
II yr PG



Unmute



Start Video



Share



Participants



More





Chettinad
Dental College & Research Institute

BLUNDERBUSS CANAL



Presented by:
Dr.Shwetha RK
II yr PG



12:00



VWiFi 1



Recording



Chettinad
Dental College & Research Institute

BLUNDERBUSS CANAL



Presented by:
Dr.Shwetha RK
II yr PG

Shwetha Ramachandran's screen



12:19



VoLTE 1



386-144-298



Password: 031049

Leave

Recording



Unmute



Start Video



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Participants



More





386-144-298



Leave

Password: 031049

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ALTERNATIVE METHODS

- Although never proven accurate for open apices, the [paper point technique](#) described by [Rosenberg \(2003\)](#) to supplement initial EAL readings could be considered for the working length determination of open apices in relatively straight canals (± 10 degrees).
- This method found to be reliable in straight canals. It was 87% accurate to within ± 0.5 mm of the apical foramen.



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WORKING LENGTH DETERMINATION

- Numerous researchers recommend **Ingle's** (1957) method, the radiographic estimation of the working length 1–2 mm short of the **radiographic apex** determined from a pre-operative radiograph or from tactile sense (Ingle 1957, Friend 1966, Duell 1973, Gilbert 1983, Dummer et al. 1984)
- **Whitworth & Nunn** (2001) suggested preparing the canals 2–3 mm short of an estimated working length obtained from an undistorted pre-operative periapical radiograph.
- **Moore et al.** (2011) reported using both conventional radiographs and an EAL.
- **Omitting local anaesthesia** has also been suggested, as any sensitivity or haemorrhage may indicate the need to adjust file length (**Duell 1973**)

Kim Y-JA, Chandler NP. Determination of working length for teeth with wide or immature apices: a review. International Endodontic Journal



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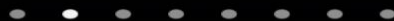
ETIOLOGY

The development of the root begins after the enamel and dentin formation has reached the future cemento-enamel junction.

At the time of tooth eruption root development is only 62-80% i.e., 2/3rd of the root is formed.

If trauma or caries occurs, the pulp undergoes necrosis, dentin formation ceases and root growth is arrested.

Oral Histology – A.R.Ten Cate, Mosby Publications (3rd edition).



12:11



VOLTE 1





A man with glasses and a mustache, wearing a blue patterned shirt, is speaking. Behind him is a blue board with white text.


 Recording


 Senthil Kumar Kumarappan




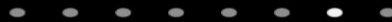
 Yashini Thanikachalam



 Subhashini Raju



 Sonu Jain



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VOLTE 1



 Recording



 Jeevan Joshua



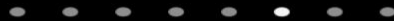
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VOLTE 1



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VOLTE 1






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 Sadasiva Kadandale



 Ramya Rajaram



 Srividhya Srinivasan



Shwetha Ramachandran



12:11



VFLTE 1



Recording

Manjiri Honap



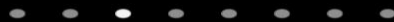
sankar vishwanath



Deepti JV



Harini Karunakaran



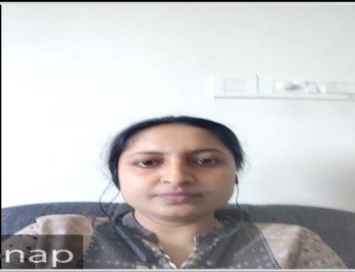
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VOLTE 1








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 Manjiri Honap






 sankar vishwanath



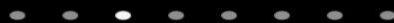


 Deepti JV





 Harini Karunakaran



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V@LTE 1



Recording

P vishanth

