



Chettinad

Dental College & Research Institute

DEPARTMENT OF ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

E-Teaching/Learning sessions for Post Graduate

Post Graduate academic schedule

DATE	TOPIC	PRESENTER	PARTIPANTS
11.05.2020	Growth of cranial base	Dr.Mary	15


Mary's Zoom Meeting

Meeting ID 760-6869-9097

Host Sagaya Mary

Password 12345

Invitation URL <https://us04web.zoom.us/j/76068699097?pwd=UHJPMm1VVTZNR2NXMjBJME1mZjdEdz09>

 [Copy URL](#)

Participant ID 311244



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Zoom

00:07:03 Speaker View

Saravanakumar Subramanian Dr Navin.N Yamini Jeyaraj Sagaya Mary Sriman Vishnu

SUSHMITHA RAM Anitha Nallusamy Joshua Stalin Nivethitha Bhaskar Annamalai Orthodontist

Priyanga Ravi Varalakshmi Orthodontist Prema Anbarasu Somya Wilson Priya Darshini

Mute Start Video Participants 15 Chat Share Screen Record Reactions Leave Meeting

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ENG IN 9:37 AM 5/11/2020

Participants (15)

Find a participant

Dr Navin.N (Me)

Sagaya Mary (Host)

Annamalai Orthodontist

Anitha Nallusamy

Joshua Stalin

Nivethitha Bhaskar

Prema Anbarasu

Priya Darshini

Priyanga Ravi

Saravanakumar Subramanian

Somya Wilson

Sriman Vishnu

SUSHMITHA RAM

Varalakshmi Orthodontist

Yamini Jeyaraj

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ENG IN 9:44 AM 5/11/2020

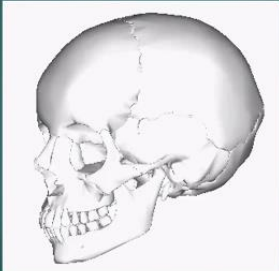


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You are viewing Sagaya Mary's screen View Options 00:08:28 Speaker View Exit Full Screen

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GROWTH AND DEVELOPMENT – CRANIAL BASE



SAGAYA MARY
1 YEAR MDS
DEPT OF ORTHODONTICS
& DENTOFACIAL ORTHOPEDICS

Participants: 15

Unmute Start Video (Alt+V) Chat Share Screen Record Reactions Leave Meeting

Grid of participants: Saravanakum..., Dr Navin.N, Yamini Jeyaraj, Annamalai Orth..., Nivethitha Bh..., Joshua Stalin, Prema Anbar..., Sagaya Mary, Sriman Vishnu, SUSHMITHA ..., Anitha Nallusamy, Priyanga Ravi, Varalakshmi ..., Somya Wilson, Priya Darshini

Zoom You are viewing Sagaya Mary's screen View Options 00:08:50 Speaker View

Recording

CONTENTS

- ❖ Introduction
- ❖ Cranial bones
- ❖ Regions of craniofacial complex
- Neurocranium**
- Cranial base**
 - ❖ Functions
 - ❖ Anatomy
- Prenatal development**
 - ❖ Chondrification
 - ❖ Cartilages
 - ❖ Ossification
 - ❖ Characteristics of bone growth
 - ❖ Cranial base angulation
- Postnatal development**
 - ❖ Fossa enlargement
 - ❖ Synchondrosis
- Clinical significance**

Sagaya Mary

Participants: 15

Unmute Stop Video Chat Share Screen Record Reactions Leave Meeting

Grid of participants: Saravanakum..., Dr Navin.N, Yamini Jeyaraj, Annamalai Orth..., Joshua Stalin, Prema Anbar..., Sriman Vishnu, Anitha Nallus..., Nivethitha Bh..., Sagaya Mary, SUSHMITHA ..., Priyanga Ravi, Varalakshmi ..., Somya Wilson, Priya Darshini

Windows taskbar: Type here to search, 99+, Ps, Chrome, WhatsApp, 9:39 AM 5/11/2020



Zoom | You are viewing Sagaya Mary's screen | View Options | 00:03:33 | Speaker View

NEUROCRANIUM

- ▶ Cranial vault and base starts developing in the early stage of embryo
- ▶ Ossification of bones start in the postsomite and will extend into the period of fetus
- ▶ Ossification of most bones complete only postnatally
- ▶ **ECTOMENIX** - Neural crest cell origin → Dura matter
- ▶ → Superficial membrane- Vault & Base
- ▶ **ENDOMENIX** - Neural crest & paraxial mesoderm

Participants: 15 | Chat | Share Screen | Record | Reactions | Leave Meeting

Windows taskbar: Type here to search | 9:44 AM 5/11/2020

Zoom | You are viewing Sagaya Mary's screen | View Options | 00:02:17 | Speaker View | Exit Full Screen

PRENATAL DEVELOPMENT

Neurocranium

The neurocranium covers the brain

Viscerocranium

The viscerocranium comprises the facial bones

Participants: 15 | Chat | Share Screen | Record | Reactions | Leave Meeting



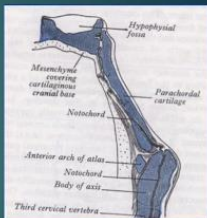
Zoom You are viewing Sagaya Mary's screen View Options

Recording 00:07:21 Speaker View

CARTILAGES

PARACHORDAL CARTILAGE

- ❖ Extending from hypophysis to caudal end of hindbrain
- ❖ Chondrification centers forming around the cranial end of the notochord
- ❖ Parachordal cartilages fuse with the sclerotomes arising from occipital somites surrounding the neural tube



Participants: 16

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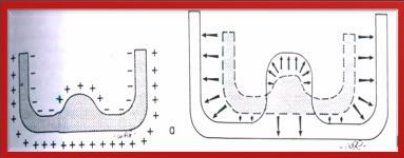
ENG IN 9:48 AM 5/11/2020

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Recording 00:18:47 Speaker View

Bony elevations b/w fossae divide fossa into various compartments :

- ▶ Middle & post fossae by petrous elevation
- ▶ Olfactory fossae by crista galli
- ▶ Right & left mid cranial fossae by midline sphenoidal elevation
- ▶ Rt & left ant & post cranial fossae by longi midline bony ridge
- ▶ Fossa expands outward by resorption, Partitions between them enlarge inward by deposition



Participants: 15

Unmute Stop Video Participants Chat Share Screen Record Reactions Leave Meeting

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Zoom Meeting 40-Minutes

You are viewing Rangarajan Vedantham's screen

View Options

Recording

00:02:42

Speaker View

0:01:48

Skeletal factors

- Severe skeletal malformations, steep articular eminence, inter-arch and intra-arch discrepancies, and past injuries to the teeth may play a role in TMDs, but this role may be less strong than previously believed.

De Leeuw R, Klasser G: Orofacial pain: Guidelines for assessment, diagnosis and management, ed 6, Chicago, 2018, Quintessence Publishing Co.

Participants: 25

Chat

Share Screen

Record

Reactions

Leave

Unmute

Start Video

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Windows Taskbar: 7:50 PM 5/11/2020

Zoom Meeting 40-Minutes

You are viewing Rangarajan Vedantham's screen

View Options

Recording

00:02:20

Speaker View

0:01:27

Attrition severity second cannot distinguish TM asymptomatic individuals hyperactivity has not been associated with arthralgia disorders.

De Leeuw R, Klasser G: Orofacial pain: Guidelines for assessment, diagnosis and management, ed 6, Chicago, 2018, Quintessence Publishing Co.

Participants (25)

Find a participant

- Dr Navin.N (Me)
- Eazhil R (Host)
- Rangarajan Vedantham
- Anitha Nallusamy
- Anu Priya
- Dr Sridharan R

Invite

Unmute Me

Participants: 25

Chat

Share Screen

Record

Reactions

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847-1483-1516

Password: KubavatAK

2 LIVE LESSONS EVERY MONTH

Recording

Chats Raise Hand Q&A More

Leave

BASIC STEPS TO REVIEW A CLINCHECK

Recording

1. Final Position
2. Interproximal Reduction (IPR)
3. Staging
4. Attachments & Pontics
5. Overcorrection

Dr. Pedro Costa Monteiro's screen



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9:00 AM

0.95K/s 4G VoLTE

15.5K/s 4G VoLTE



Seminar Approval - Growth of mandible

Inbox



begg stage 3 seminar mam

Inbox



SrImaN ViShNu

to me

[Hide details](#)

From: SrImaN ViShNu
srimanvishnu.vishnu@gmail.com

To: prema.arasu@gmail.com

Date: 11 May 2020, 4:50 PM

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varalakshmi raja

to me

[Hide details](#)

From: varalakshmi raja
varalakshmiraja288@gmail.com

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7:02   

VoLTE 4G 86%



Approval for jc mam

Add label



naveen natarajan Yesterday
to yamini.ortho ^



From naveen natarajan • naveenbdsksr@gmail.com

To yamini.ortho@gmail.com

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Journal of Orthodontics



ISSN: 1465-3125 (Print) 1465-3133 (Online) journal homepage: <http://www.tandfonline.com/loi/ijor20>

Tooth wear during orthodontic treatment with fixed appliances: a systematic review



makrygiannakis2018.pdf



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Tooth wear during orthodontic treatment with fixed appliances: a systematic review

Miltiadis A. Makrygiannakis, Eleftherios G. Kaklamas





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Post Graduate academic schedule

DATE	TOPIC	PRESENTER	PARTIPANTS
12.05.2020	Growth of mandible	Dr.Sriman	14
12.05.2020	Splint fabrication in orthognathic surgery-Guest Lecture	Dr.Mukundan	16

Zoom Meeting 40-Minutes

 Recording

Sriman Vishnu's Zoom Meeting

Meeting ID	750 3219 7094
Host	Sriman Vishnu
Password	12345
Invitation URL	https://us04web.zoom.us/j/75032197094?pwd=SXR2ZDgzdEVvY0hTVU9kKzIIQTRHZz09  Copy URL
Participant ID	405170

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Participants (14)

Find a participant

- Dr Navin.N (Me)
- Sriman Vishnu (Host)
- Annamalai Orthodontist
- Saravanakumar Subramanian
- AN Anitha Nallusamy
- Joshua Stalin
- Nivethitha Bhaskar
- Prema Anbarasu
- Priya Darshini
- Priyanga Ravi
- SM Sagaya Mary
- SUSHMITHA RAM
- Varalakshmi Orthodontist
- YJ Yamini Jeyaraj



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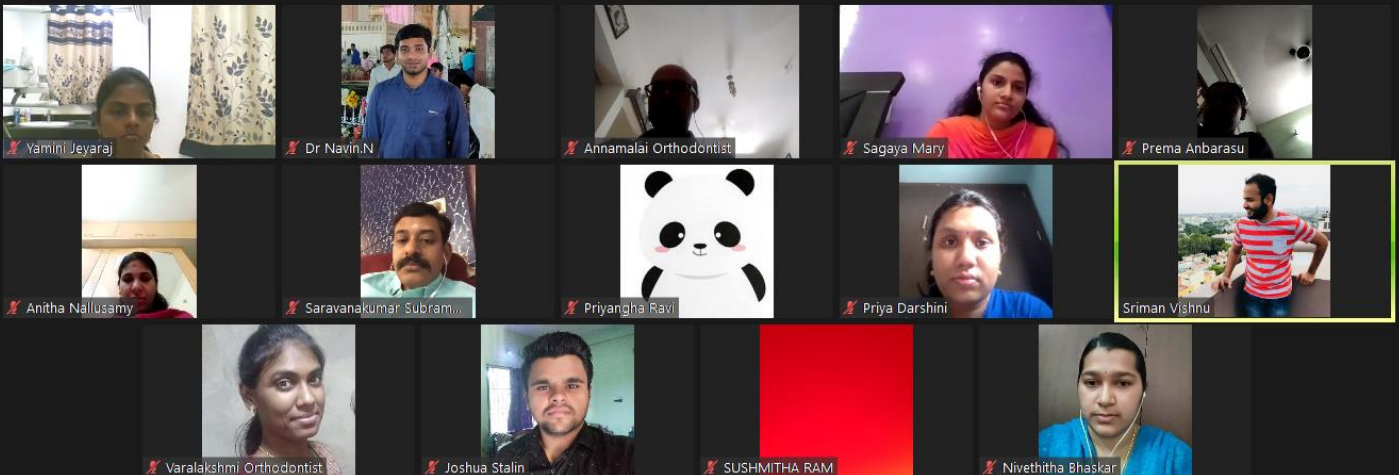


ENG 9:42 AM 5/12/2020 28

Zoom Meeting 40-Minutes

Recording

00:09:58 Speaker View



Unmute Start Video (Alt+V) Start Video

Participants Chat Share Screen Record Reactions

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ENG 10:20 AM 5/12/2020 28



Zoom Meeting 40-Minutes

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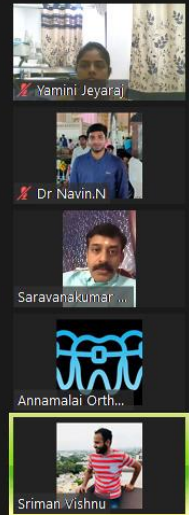
View Options

00:07:32

Speaker View

INTRODUCTION

- The mandible is the largest, strongest and lowest bone in the face, has a horizontally curved body, and two broad rami ascending posteriorly, and condyles resting in the mandibular fossa of the temporal bone.
- It is attached only by ligaments and muscles to immovable bones of the skull.
- The temporomandibular or ginglymo-diarthroidal joints are the only visible movable articulations in the head.



Unmute Start Video Participants Chat Share Screen Record Reactions Leave

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Zoom Meeting 40-Minutes

You are viewing Sriman Vishnu's screen

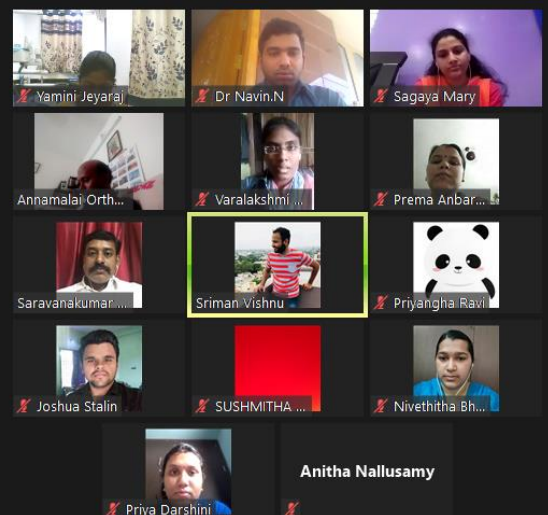
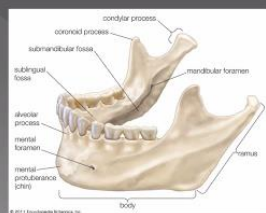
View Options

00:08:23

Speaker View

MANDIBLE

- It consists of
 - Condylar process
 - Coronoid process
 - Ramus
 - Angle
 - Body
 - Chin



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Zoom Meeting 40-Minutes You are viewing Sriraman Vishnu's screen View Options 00:09:35 Speaker View

Recording

- **BRODIE** believed that superior and posterior growth of the condyle along with apposition of the posterior border of the ramus and alveolar border resulted in development of mandible.
- **RICKETTS(1950)** by superimpositions on lower border of the mandible showed that the condyle followed a superior and posterior course. He also noted that the mandibular growth was not same and that the relationship of the mandibular plane to the FH plane was changing about one degree every 3 yrs in a typical facial pattern.
- **MOSS(1960)** envisioned the growth of the mandible as a logarithmic spiral constructed via the path of the mandibular nerve.

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Participants: 14 Chat Share Screen Record Reactions Leave

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Recording

At 36-38 days of IUF there is an ectomesenchymal condensation seen on the lateral part of meckels cartilage

↓

These cells enlarge and develops into osteoblasts

↓

The osteoblasts secrete osteoid and results in ossification

↓

In the 6th week of IUF a single ossification centre for each half of the mandible arises at the level of bifurcation of inferior alveolar nerve to mental and incisal branches

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Recording 00:05:07 Speaker View

Servosystem theory – Petrovic (1970)
Mid face growth – mandibular growth

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Recording 00:20:52 Speaker View

At Birth

- The condyles are poorly developed
- The alveolar process not yet formed
- The body of mandible is like a shell of bone with tooth follicles which are covered by occlusal gum pads
- Ramus is low and wide
- Coronoid process is larger and projects above the condyle
- The angle of the mandible is about 130 with condyle nearly in line with the body
- Initial separation of the two mandibular halves by fibrocartilage eliminated gradually as ossification occurs between 4th month to 1st year.

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GUEST LECTURE-SPLINT FABRICATION IN ORTHOGNATHIC SURGERY

 Zoom Meeting



Dr Navin.N's Personal Meeting Room

Meeting ID 942 393 2361

Host Dr Navin.N (You)

Password ortho

Numeric Password
(Telephone/Room
Systems) 770993

Invite Link <https://us04web.zoom.us/j/9423932361?pwd=N0VNSWplemo4ZXFjMIRJNEFvQTRjUT09>

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Participant ID 157393

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Participants (16)

Find a participant

- Dr Navin.N (Host, me)
- Mukundan Vijayan
- AN Anitha Nallusamy
- Annamalai Orthodontist
- Dr. Varu
- Joshua Stalin
- NB Nivethitha Bhaskar
- Prema Anbarasu
- PD Priya Darshini
- Priyanga Ravi
- SM Sagaya Mary
- Saravanakumar Subramanian
- Somya Wilson
- Sriman Vishnu
- SUSHMITHA RAM

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Zoom Meeting 40-Minutes

You are viewing Mukundan Vijayan's screen

View Options

Recording 00:09:00 Speaker View

Nivethitha Bhas...		Yamini Jeyaraj	Anitha Nallusamy
	Sagaya Mary		
	Priya Darshini		

Unmute Start Video Security Participants Chat Share Screen Record Reactions End

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Windows taskbar with various application icons



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Zoom Meeting 40-Minutes You are viewing Mukundan Vijayan's screen View Options 00:19:08 Speaker View

Recording

Splint fabrication in Orthognathic Surgery

Dr. Mukundan Vijayan
MDS, MOrth (Edin), FFD Orth (Ire), MOrth (Eng), MOrth (Glasg)
Associate Professor
Government Dental College, Alappuzha, Kerala

Mukundan Vijay... Dr. Navin.N Nivethitha Bhask...
Yamini Jeyaraj Annamalai Orth... Saravanakum...
Prema Anbarasu Sriman Vishnu Priyanga Ravi...
Sagaya Mary Dr. Ivaru Priya Darshini
SUSHMITHA ... Joshua Stalin

Unmute Start Video Security Participants 14 Chat Share Screen Record Reactions End

Type here to search

ENG IN 11:39 AM 5/12/2020 28

Recording You are viewing Mukundan Vijayan's screen View Options 00:22:54 Speaker View Exit Full Screen

History of dentofacial deformity treatment

- Before 1960s.
 - › Orthognathic surgery without orthodontic treatment
 - › Skeletal relationships were not satisfactorily improved
 - › Lack of occlusal interlocking -Unstable results
 - › Wire osteosynthesis

Mukundan Vijay... Dr. Navin.N Yamini Jeyaraj
Sriman Vishnu Annamalai O... Saravanakum...
Nivethitha Bhas... Prema Anbar... Priyanga Ravi...
Sagaya Mary Dr. Ivaru Priya Darshini
Joshua Stalin SUSHMITHA ...

Unmute Stop Video Participants 14 Chat Share Screen Record Reactions Leave



Zoom Meeting interface showing a presentation slide titled "Need for a splint:" with the following bullet points:

- Incorporates all the surgical treatment plans and transfers it onto the surgeon.
- It ensures accurate performance of the surgical movements.
- Eliminates the need for the orthodontist to be present during surgery.
- Prevents post-surgical relapse.

The right sidebar displays a grid of participant video feeds, including Mukundan Vijayan, Dr. Navin.N, Annamalai O..., Sriman Vishnu, Yamini Jeyaraj, Saravanakum..., Nivethitha Bhas..., Prema Anbar..., Priyanga Ravi, Sagaya Mary, Dr. Waru, Priya Darshini, Joshua Stalin, SUSHMITHA..., and Anitha Nallusamy.

At the bottom, the Zoom toolbar shows options: Unmute, Start Video, Participants (15), Chat, Share Screen, Record, Reactions, and a red "Leave" button.

Zoom Meeting interface showing a presentation slide titled "Splint fabrication for mandibular surgery" with three images of dental splints.

The right sidebar displays a grid of participant video feeds, including Mukundan Vijayan, Dr. Navin.N, Sriman Vishnu, Annamalai O..., Saravanakum..., Yamini Jeyaraj, Dr. Waru, SUSHMITHA..., Sagaya Mary, Prema Anbar..., Anitha Nallusamy, Nivethitha Bhas..., Priyanga Ravi, Priya Darshini, and Joshua Stalin.

At the bottom, the Zoom toolbar shows options: Unmute, Stop Video, Security, Participants (15), Chat, Share Screen, Record, Reactions, and a red "End" button.

The Windows taskbar at the very bottom shows the search bar with "Type here to search" and various application icons including Edge, File Explorer, and Microsoft Office apps. The system clock indicates 12:14 PM on 5/12/2020.



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Zoom Meeting 40-Minutes You are viewing Mukundan Vijayan's screen View Options

Recording 00:22:00 Speaker View



Distance between 1 & 2- depends on surgical plan (here 8 mm)

Participants: 15

Chat Share Screen Record Reactions Leave

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ENG IN 12:25 PM 5/12/2020


Participant list:

- Mukundan Vijay...
- Dr. Navin.N
- Sriman Vishnu
- Annamalai O...
- Nivethitha Bhas...
- Prema Anbar...
- Saravanakum...
- Yamini Jeyaraj
- Dr. Varu
- SUSHMITHA ...
- Sagaya Mary
- Anitha Nallusamy
- Priyanga Ravi
- Priya Darshini
- Joshua Stalin

Recording 00:05:25 Speaker View Exit Full Screen

You are viewing Mukundan Vijayan's screen View Options

Align and decompensate the duplicated models



Mukundan Vijayan has Screen sharing

Participants: 16

Chat Share Screen Record Reactions End

Unmute Start Video

Participant list:

- Mukundan Vijayan
- Dr. Navin.N
- Annamalai Orthod...
- Saravanakuma...
- Joshua Stalin
- Dr. Varu
- Nivethitha Bhas...
- Anitha Nallusamy
- SUSHMITHA R...
- Sagaya Mary
- Sriman Vishnu
- Yamini Jeyaraj
- Prema Anbarasu
- Somya Wilson
- Priyanga Ravi
- Priya Darshini




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Zoom Meeting 40-Minutes You are viewing Mukundan Vijayan's screen View Options

00:08:41 Speaker View

Recording



Participants (16):

- Mukundan Vijayan
- Dr. Navin.N
- Annamalai Ort...
- Saravanakuma...
- Nivethitha Bhas...
- Sriman Vishnu
- Yamini Jeyaraj
- Anitha Nallusamy
- SUSHMITHA R...
- Sagaya Mary
- Dr. Varu
- Joshua Stalin
- Priyanga Ravi
- Priya Darshini
- Prema Anbarasu
- Somya Wilson

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Windows Taskbar: e, 99+, Ps, Chrome, W, 3, Zoom, ENG IN 12:57 PM 5/12/2020

Zoom Meeting 40-Minutes You are viewing Mukundan Vijayan's screen View Options

00:14:20 Speaker View

Recording

Fabricate the splint



Participants (16):

- Mukundan Vijay...
- Dr. Navin.N
- Annamalai O...
- Saravanakum...
- Anitha Nallusamy
- Yamini Jeyaraj
- Prema Anbar...
- Joshua Stalin
- Dr. Varu
- Nivethitha Bhas...
- SUSHMITHA ...
- Sagaya Mary
- Sriman Vishnu
- Somya Wilson
- Priyanga Ravi

Unmute Start Video Participants Chat Share Screen Record Reactions Leave

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Windows Taskbar: e, 99+, Ps, Chrome, W, 2, Zoom, ENG IN 1:43 PM 5/12/2020



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DEPARTMENT OF ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

E-Teaching/Learning sessions for Post Graduate


Post Graduate academic schedule

DATE	TOPIC	PRESENTER	PARTIPANTS
13.05.2020	Tooth wear in orthodontics	Dr.Navin.N	15

 Zoom Meeting 40-Minutes



Dr Navin.N's Personal Meeting Room

Meeting ID	942 393 2361
Host	Dr Navin.N (You)
Password	55555
Invite Link	https://us04web.zoom.us/j/9423932361?pwd=a1pEeTQwU3RrOEVmOUNHWE83Rk0wQT09  Copy URL
Participant ID	424244

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Participants (15)

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- Dr Navin.N (Me)
- Sagaya Mary (Host)
- Annamalai Orthodontist
- Anitha Nallusamy
- Joshua Stalin
- Nivethitha Bhaskar
- Prema Anbarasu
- Priya Darshini
- Priyanga Ravi
- Saravanakumar Subramanian
- Somya Wilson
- Sriman Vishnu
- SUSHMITHA RAM
- Varalakshmi Orthodontist
- Yamini Jeyaraj

Invite

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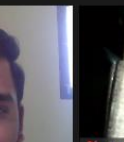



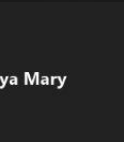


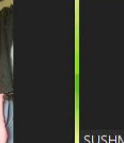


...

Zoom Meeting 40-Minutes

Less than 1 minute | Upgrade to Pro

00:36:11

Speaker View

 Saravanakumar Subram...	 Dr Navin.N	 Sriman Vishnu	Anitha Nallusamy	 Prema Anbarasu
 Somya Wilson	 Priyanga Ravi	Sagaya Mary	Yamini Jeyaraj	 Priya Darshini
 Joshua Stalin	 Dr. Varu	 SUSHMITHA RAM	 Annamalai Orthodontist	 Nivethitha Bhaskar

Mute Stop Video

Security Participants Chat Share Screen Record Reactions

End



Naveen jc.mp4 - Gc X + -

https://drive.google.com/file/d/1QYRUr9JV7S40CBiE8bEmtzybV-ekoN6/view

Naveen jc.mp4 Open with

Domain	Inclusion criteria
Participants	Individuals of any age, gender and ethnicity having undergone a full course of orthodontic treatment
Interventions	Comprehensive orthodontic treatment with fixed appliances of any type of material
Comparisons	. Tooth wear evaluated in individuals before and after the completion of comprehensive orthodontic treatment with fixed appliances . Measurements of tooth wear immediately before the initiation of orthodontic treatment

Windows taskbar: Type here to search, 99+, Ps, WhatsApp, 9:29 AM 5/14/2020

Study characteristics

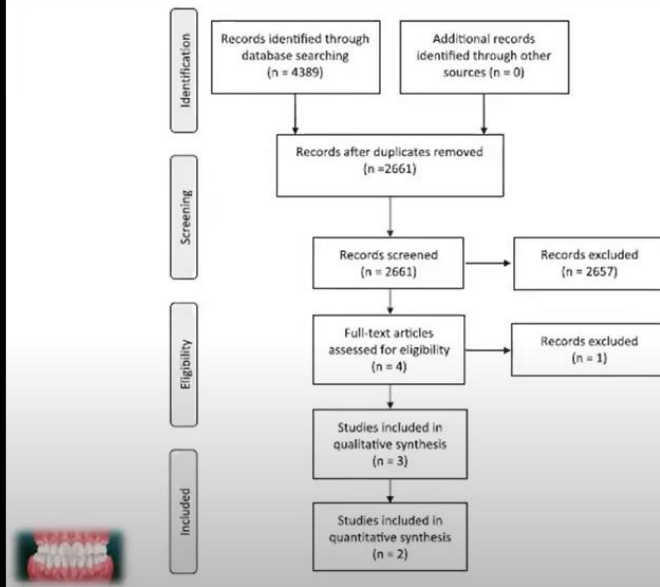
- They were published between 2009 and 2014.
- Investigated either surface tooth wear using **grading scales** (Kuijpers et al. 2009) or the **differences in tooth volume before and after comprehensive orthodontic treatment on digitized casts** (Panos et al. 2011; Park et al. 2014).
- The length of the orthodontic treatment varied **from 29 to 35.5 months in average**.

Press F11 to exit full screen.



Naveen jc.mp4

STUDY SELECTION



5:01 / 25:58



Naveen jc.mp4

Open with



Table 2. General characteristics of the studies included in the systematic review.

Study	Intervention characteristics	Teeth assessed and assessment methods	Other variables	Additional information
Kuijpers et al. (2009)	Comprehensive orthodontic treatment [bracket type not mentioned]	Incisors (U and L): Silness et al. (1993) grading scale Canines (U and L): grading scale adapted from Carlson et al. (1985) and Bauer et al. (1997)	Little's Irregularity Index, intercanine width	Power calculations: No Method error: kappa statistics
Panos et al. (2011)	Comprehensive orthodontic treatment without extractions or accompanied with 2 U or 2 U and 2 L premolar extractions [stainless steel brackets]	Incisors, Canines, Premolars and molars (U and L): 3D volumetric measurements	Tx duration, gender, extractions or not, type of tooth, type of malocclusion	Power calculations: No Method error: Dahlberg's formula
Park et al. (2014)	Comprehensive orthodontic treatment with 4 premolar extractions [bracket type not mentioned]	Canines (U and L): 3D volumetric measurements	Gender, age, Tx duration, ANB angle, FMA angle	Power calculations: No Method error: Dahlberg's formula

Note: L: lower, U: upper, Tx: treatment.





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3:32 PM 0.00K/s 4G VoLTE



Approval for seminar mam

Inbox



naveen natarajan

to me

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From: naveen natarajan
naveenbdsksr@gmail.com

To: prema.arasu@gmail.com

Date: 12 May 2020, 10:20 PM

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3:32 PM 68.0K/s 4G VoLTE



R Priyanga-Test on 13th May 2020

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Priyanga Ravi

to me

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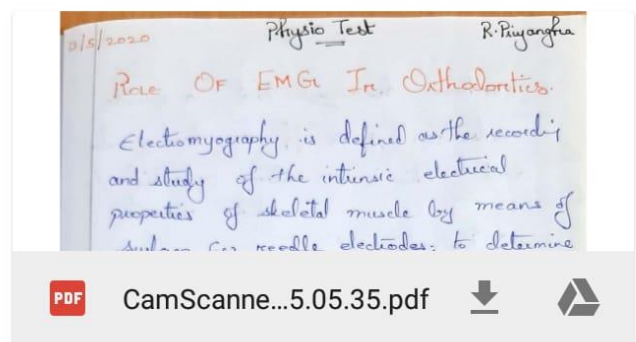
From: Priyanga Ravi prii.ravi@gmail.com

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Sriman - Physiology test (Applied basic science)

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SrlmaN ViShNu

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srimanvishnu.vishnu@gmail.com

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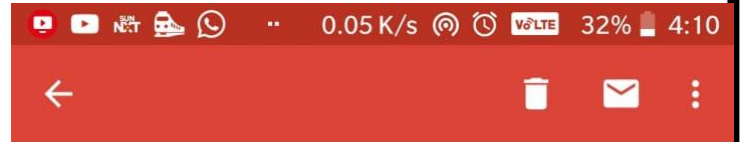
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Mary - Physiology test (13.05.20)

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Priya Raymond

to prema.arasu

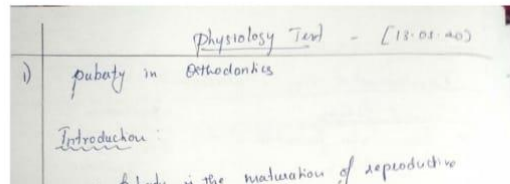
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4:25 PM

4G



my thesis statistics mam



good afternoon mam.
here i attach my seminar
ppt (orthopedic
appliance). Add label



me

To prema.arasu@gmail.com

May 13 at 4:05 PM

1 attachment



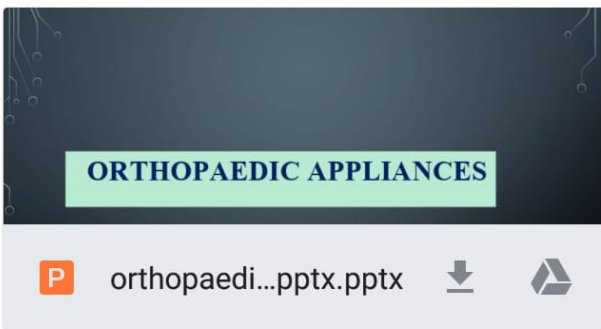
varalakshmi raja 1:04 pm

to nivibhaskar



priya intro.docx

124.4kB



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DEPARTMENT OF ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

E-Teaching/Learning sessions for Post Graduate


Post Graduate academic schedule

DATE	TOPIC	PRESENTER	PARTIPANTS
14.05.2020	Begg stage 3	Dr.varalakshmi	14

 Zoom Meeting 40-Minutes

varalakshmi Dr's Personal Meeting Room

Meeting ID	555 637 7285
Host	varalakshmi Dr
Password	welcome
Numeric Password (Telephone/Room Systems)	994653
Invite Link	https://us04web.zoom.us/j/5556377285?pwd=RTRQMWhyWDRtVDFyTzBiV3Vrb3hTQT09  Copy URL
Participant ID	344021

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Participants (14)

Find a participant

- Dr Navin.N (Me)
- varalakshmi Dr (Host)
- Anitha Nallusamy
- Annamalai Orthodontist
- Joshua Stalin
- Nivethitha Bhaskar
- Prema Anbarasu
- Priya Darshini
- Priyanga Ravi
- Sagaya Mary
- Saravanakumar Subramanian
- Somya Wilson
- SUSHMITHA RAM
- Yamini Jeyaraj

Invite

Unmute Me



Zoom Meeting 40-Minutes

You are viewing varalakshmi Dr's screen

View Options

Recording

Remaining Meeting Time: 07:05

00:18:33 Speaker View

Yamini Jeyaraj

Dr Navin.N

Anitha Nallusamy

Annamalai Orthodon...

Saravanakumar Subr...

Prema Anbarasu

Sagaya Mary

Joshua Stalin

varalakshmi Dr

Priyanga Ravi

SUSHMITHA RAM

Nivethitha Bhaskar

Priya Darshini

Somya Wilson

Unmute Stop Video

Participants Chat Share Screen Record Reactions

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Windows taskbar with search bar and system tray



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Zoom Meeting 40-Minutes

You are viewing varalakshmi Dr's screen

View Options

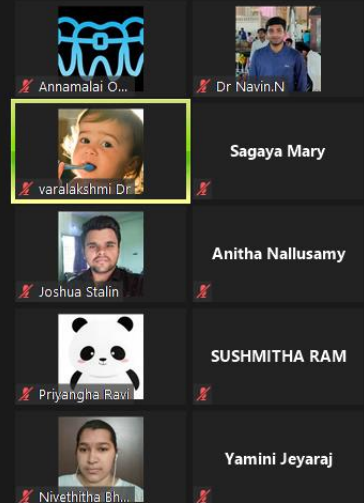
00:06:18

Speaker View



Stage III -Begg Technique

K. R. Varalakshmi
Postgraduate student
Dept. of orthodontics, CDCRI



Unmute Start Video Participants Chat Share Screen Record Reactions

Leave

Zoom Meeting 40-Minutes

You are viewing varalakshmi Dr's screen

View Options

00:10:34

Speaker View

EVOLUTION OF BEGG TECHNIQUE

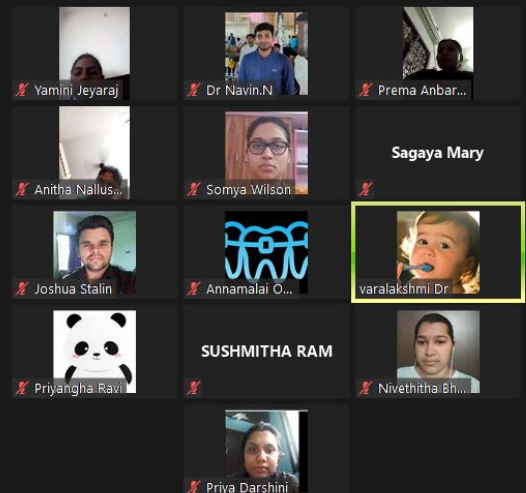
Dr. P. Raymond Begg was graduated in dentistry from the University of Melbourne, Australia in 1923

He became interested in orthodontics almost immediately and attended Dr. Edward H. Angle's courses in Pasadena, California from March 1924 to November 1925

In 1924, coincidentally with Dr. Begg's arrival in California, Dr. Angle was developing the edgewise mechanism.

Dr. Angle took ribbon archwire which was normally inserted vertically from the incisal and turned it on its edge-"edgewise" to insert it horizontally.

Dr. Begg returned to Adelaide and started a practice of orthodontics utilizing the edgewise technique.



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ENG 9:43 AM 5/14/2020



Zoom Meeting 40-Minutes You are viewing varalakshmi Dr's screen View Options

00:12:39 Speaker View

THEORY OF DIFFERENTIAL FORCE

The theory of differential forces in its original form was described by Dr.Begg in an article AJO (1956) his observation was based to a large extent on the work of **Storey and Smith**.

Light pressures- teeth to move at an optimum rate with minimal disturbance of the supporting tissues

Pressures below this range would produce a slow rate of response

Above incurred a reaction within the bone support, referred as **undermining resorption**

Applying these principles to the begg technique, the force of the **intermaxillary elastics** used in stage I of treatment

Light so that the **upper labial segment** was retracted while the lower anchor molars has negligible mesial movement

Residual extraction spaces should be closed largely by the mesial movement of the posterior teeth, the **elastic forces are increased**

Participants: 13 Chat Share Screen Record Reactions

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ENG IN 9:56 AM 5/14/2020

Leave

Zoom Meeting 40-Minutes You are viewing varalakshmi Dr's screen View Options

00:15:02 Speaker View

ADVANTAGES

- Through out the treatment light forces are used, which are physiologically more acceptable and are comfortable to the patient
- The anchorage control is very efficient, thus permitting maximum use of the available or created space to bring about pronounced tooth movements
- Deep over bites can be opened quickly and effectively & quick alignment of teeth can be obtained.
- An early resolution of the malocclusion is achieved by the en-masse movement of the anterior and posterior groups of teeth, for quick overjet reduction and correction of molar relationship
- The roots can be efficiently uprighted and torqued. A unique feature is the ability to upright or torque a single tooth or groups of teeth without appreciable reciprocal effects on the adjacent teeth
- The demands on patient's co-operation is minimal. The cost is low.

Participants: 13 Chat Share Screen Record Reactions

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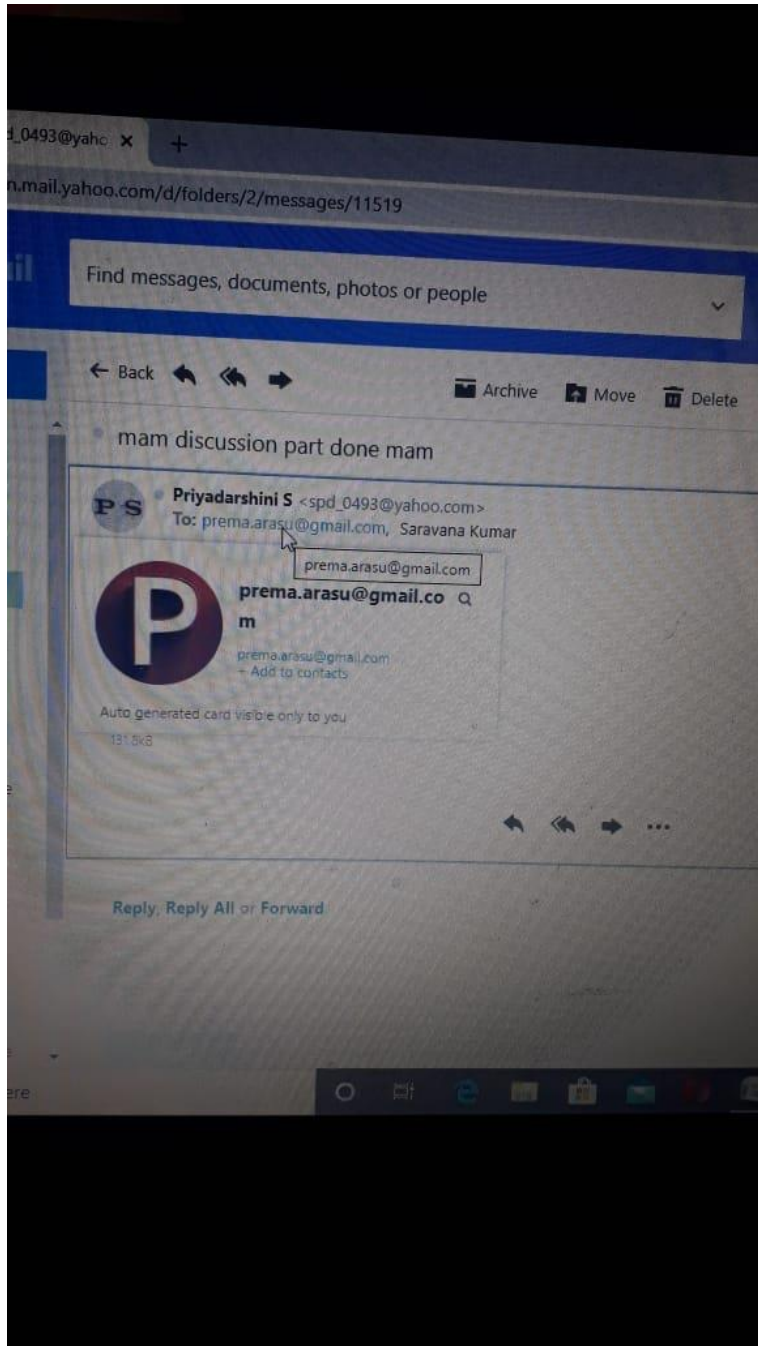
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Participants (12)

Search



Priyanga Ravi (me)



Biochemistry e-lear... (host)



gayathri devi



Leo Caroline



Anu Priya



Dr. Prisilla



Kalaifarasi Murugesan



Manonmani Subramani



Priyanka M



sankar vishwanath



Shruthi M



Srividhya Srinivasan



Invite



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DEPARTMENT OF ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

E-Teaching/Learning sessions for Post Graduate


Post Graduate academic schedule

DATE	TOPIC	PRESENTER	PARTIPANTS
15.05.2020	Self ligating bracket-Part 1	Dr.Navin.N	16

 Zoom Meeting 40-Minutes



Dr Navin.N's Personal Meeting Room

Meeting ID	942 393 2361
Host	Dr Navin.N (You)
Password	55555
Invite Link	https://us04web.zoom.us/j/9423932361?pwd=a1pEeTQwU3RrOEVmOUNHWE83Rk0wQT09  Copy URL
Participant ID	424244

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Microsoft PowerPoint interface showing a presentation titled "Self ligating brackets". The slide features the Chettinad Dental College & Research Institute logo, the title "Self ligating brackets", and an image of a self-ligating bracket. The presenter is Dr. Naveen.N, 2nd yr Post Graduate, Dept. of Orthodontics. The presentation is being shared via a video conference.

Slide 1 of 193 | English (United States)

Remaining Meeting Time: 09:25

Microsoft PowerPoint interface showing a presentation titled "SPEED APPLIANCE (1980)". The slide features the title "SPEED APPLIANCE (1980)" and two images of the appliance. The presenter is Dr. Naveen.N, 2nd yr Post Graduate, Dept. of Orthodontics. The presentation is being shared via a video conference.

Slide 1 of 193 | English (United States)

Remaining Meeting Time: 09:25

SPEED APPLIANCE (1980)

- ❖ Hanson in 1975, combined Angle's edgewise appliance with his own concept of developing both a dynamic and self-ligating appliance.
- ❖ Active system
- ❖ The SPEED appliance has undergone numerous refinements since its introduction in 1980



3. Less chair time and faster ligation

- Maiier and Smith(1990)showed 4 fold reduction in ligation time with SPEED brackets compared to conventional brackets
- Voudouris(1997)showed 4 fold decrease in ligation time with Interactwin brackets
- Harradine(2001)showed a modest saving in ligation time with Damon SL-average of 24 sec/archwire removal



2020-05-15 10:14:25



Time Savings with Self-Ligating Brackets

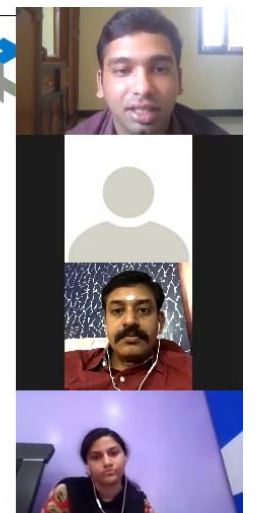
- JCO 1990:29 - 31
- ROLF MAIJER, DENNIS C. SMITH,
- Consider a scheduled appointment of 30 minutes.
- For the edgewise cases, an average of 10 minutes was required for archwire removal and replacement, and six minutes for the orthodontist's adjustments.
- Assuming that the average patient takes five minutes to arrive and depart, a total of 21 minutes has been used. On the other hand, the average self-ligating case would take 14 minutes.
- Using the self-ligating brackets therefore frees an additional seven minutes of the appointment for positive reinforcement of proper oral hygiene, discussion of progress, or simply communicating with the patient.
- Another possibility is that two patients with self-ligating brackets could be scheduled in the time of one conventional half-hour arch change appointment.

0:01:30



0:24:39

2020-05-15 10:15:01






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←

Elastic ligatures create friction and binding and require more force and more-frequent adjustment



Damon passive self-ligating brackets allow freedom of movement and thus faster results with gentler forces



- PSL results in **reduction**
- In the use of anchorage devices because frictional resistance generated by ligatures is not present.
- in the need of extraction to facilitate orthodontic mechanics


0:11:49

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0:14:20

2020-05-15 10:25:20



⏮️

Treatment phases, Archwire selection and Archwire sequencing

- **Phase 1- Light round high technology wire**
 - this phase of treatment uses 0.013", 0.014" or 0.016" Cu niti archwire

Aim:

1. Tooth alignment
2. Level the arches. 2nd molars are not engaged in initial archwire until second phase of treatment

- prevent archwire being dislodged from 2nd molar tubes. inter tube span between 1st and 2nd molar too large to reliably support small diameter niti archwire


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0:14:20

2020-05-15 10:30:12



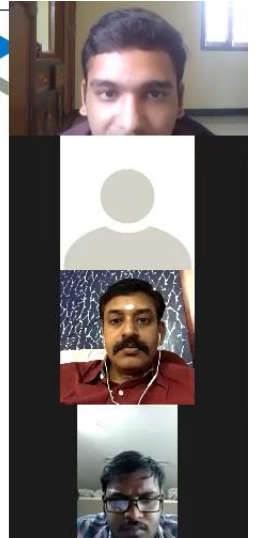


Managing severely displaced or rotated teeth

- Create space for teeth with open coil spring
- Coil spring should be no longer than width of space plus a bracket width (approx 3 mm)
- A traction hook is bonded to displaced tooth
- Displaced tooth is tied to archwire with elastic thread
- 2 types of traction hook:
 1. a thin wire loop traction hook on a bondable base
 - positioned so that lumen of the hook will allow archwire to pass through it as tooth approaches line of arch
 - its minimal mesiodistal width maximizes inter bracket span



2020-05-15 10:34:21

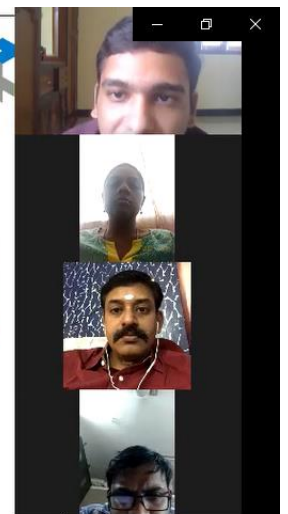


Archwire stops

- Archwires are free to swivel to mesio-distally and may cause wire pokes distal to terminal buccal attachment
- So archwires need to be stabilized using stops to prevent irritation to buccal mucosa
- Originally single stop was placed in inter bracket span(between lower incisors/upper 1st and 2nd premolars)



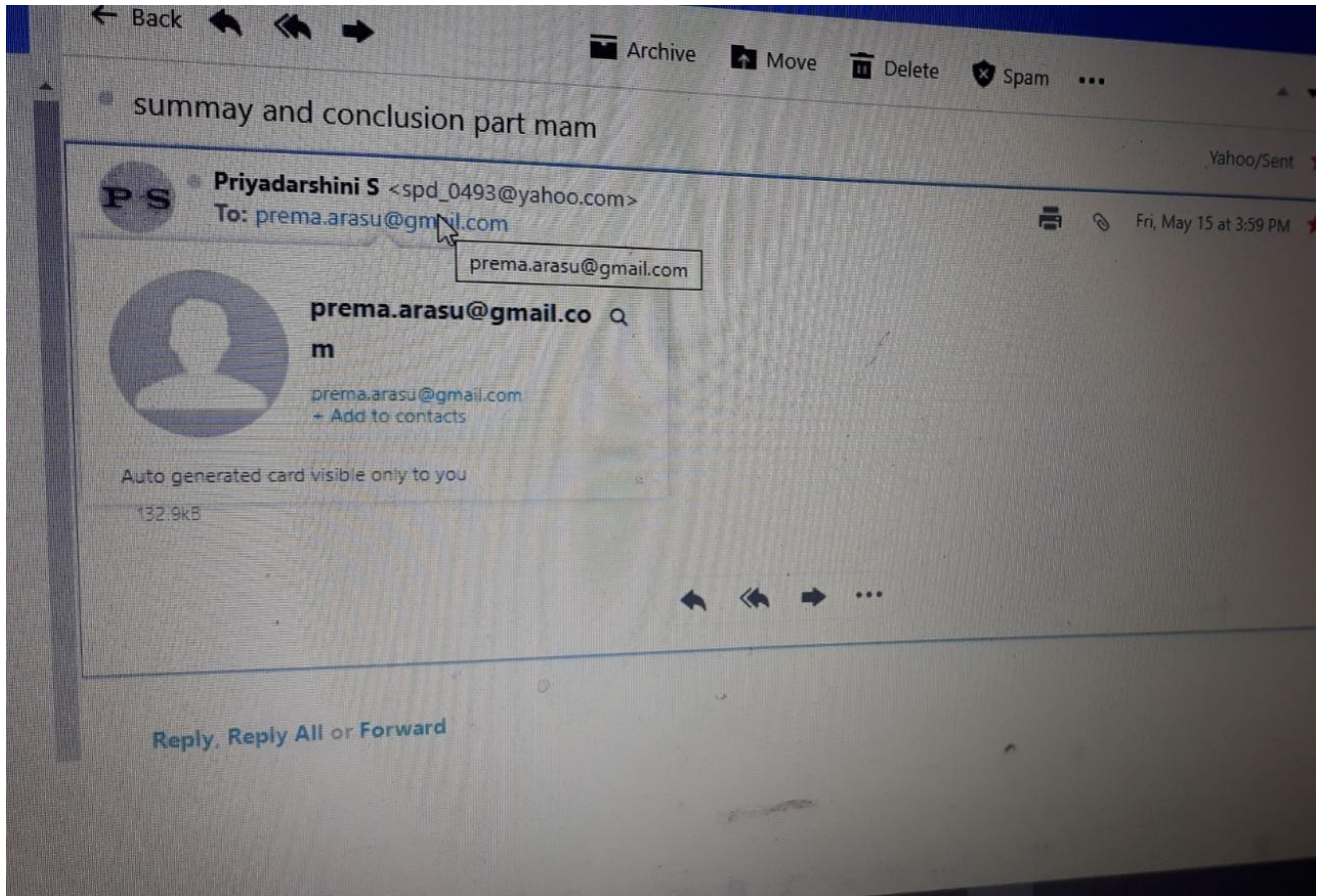
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DEPARTMENT OF ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

E-Teaching/Learning sessions for Post Graduate


Post Graduate academic schedule

DATE	TOPIC	PRESENTER	PARTIPANTS
16.05.2020	Dentofacial orthopaedics	Dr.varalakshmi	12

 Zoom Meeting 40-Minutes



varalakshmi Dr's Personal Meeting Room

Meeting ID	555 637 7285
Host	varalakshmi Dr
Password	welcome
Numeric Password (Telephone/Room Systems)	994653
Invite Link	https://us04web.zoom.us/j/5556377285?pwd=RTRQMWhyWDRtVDFyTzBiV3Vrb3hTQT09  Copy URL
Participant ID	344021

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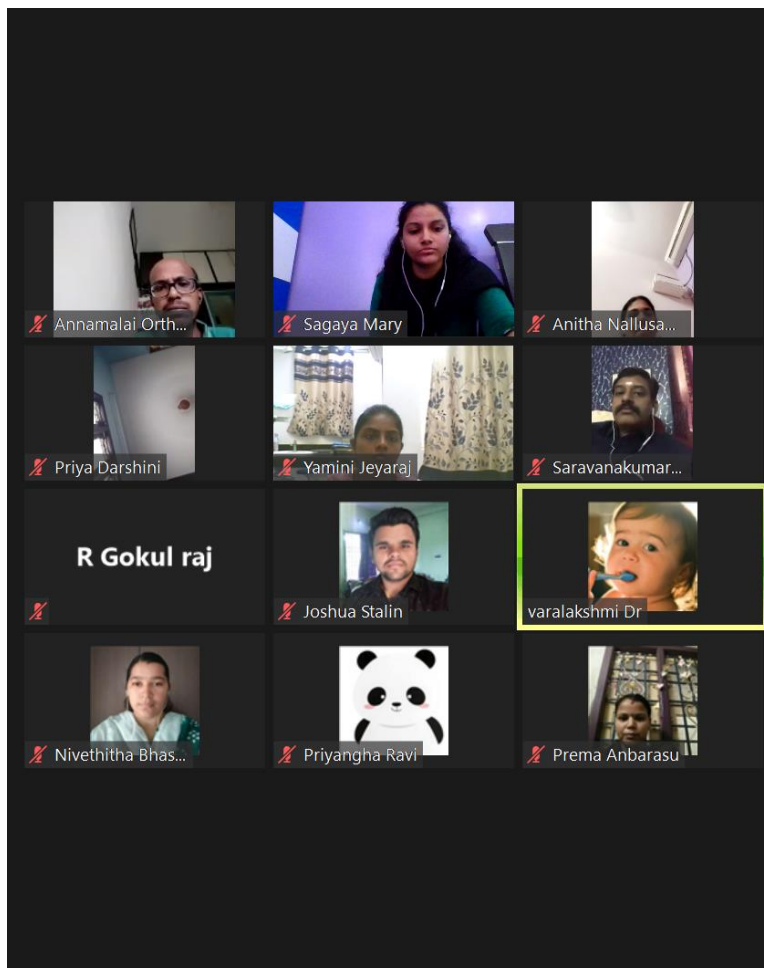
- SM** Sagaya Mary (Me)
- varalakshmi Dr (Host)
- Saravanakumar Subramanian
- AN** Anitha Nallusamy
- Annamalai Orthodontist
- Joshua Stalin
- Nivethitha Bhaskar
- Prema Anbarasu
- PD** Priya Darshini
- Priyanga Ravi
- RG** R Gokul raj
- YJ** Yamini Jeyaraj



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5:17 PM



ORTHOPAEDIC APPLIANCES

K.R VARALAKSHMI
POSTGRADUATE STUDENT
DEPT. OF ORTHODONTICS &
DENTOFACIAL ORTHOPEDICS
CDCRI

Recording

RME – spontaneous improvement of sagittal malocclusion



Class II

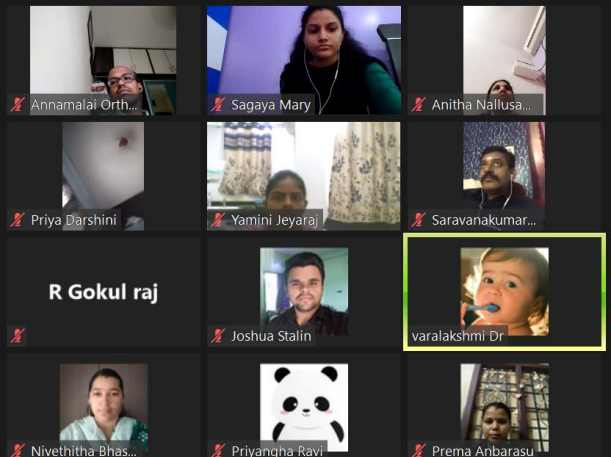
Noted during retention phase of RME

Teeth – endogenous functional appliance

Class III

Noted during active phase of RME

Slight forward movement of maxilla has been documented





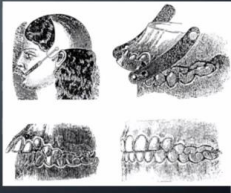
Recording

NORMAN WILLIAMS KINGSLEY

❖ First reported use of headgear anchorage for correction of protrusion of upper anterior teeth was made by Kingsley in 1986.

❖ The upper first bicuspid teeth were extracted, a gold frame was made to fit around the upper anterior teeth.

❖ This was attached with elastic ligature to a leather headcap



Cervical Headgear Usage and the Bioprogessive Orthodontic Philosophy
Charles T. Pavlick, Jr. sem orthod. 1998

Chettinad Dental College & Research Institute

Participants: Annamalai Orth..., Sagaya Mary, Anitha Nallusa..., Priya Darshini, Yamini Jeyaraj, Saravanakumar..., R Gokul raj, Joshua Stalin, varalakshmi Dr, Nivethitha Bhas..., Priyanga Ravi, Prema Anbarasu

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Molar Tube:

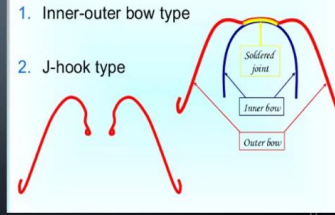
Fixed appliance

Removable appliance

0.045 inch

Facebows – types:

1. Inner-outer bow type
2. J-hook type



Participants: Annamalai Orth..., Sagaya Mary, Anitha Nallusa..., Priya Darshini, Yamini Jeyaraj, Saravanakumar..., R Gokul raj, Joshua Stalin, varalakshmi Dr, Nivethitha Bhas..., Priyanga Ravi, Prema Anbarasu

Unmute Start Video (Alt+V) Participants 12 Chat Share Screen Record Reactions Leave




Recording You are viewing varalakshmi Dr's screen View Options Speaker View Exit Full Screen

RECENT MODIFICATION

A standard facebow may be contoured to insert in the maxillary molar tube from the distal end
Then the outer bow is adjusted so that the line of action of the protraction force is controlled

Face masks were contraindicated in class III cases characterized by maxillary retrognathism and an open-bite tendency



Clockwise rotation of maxillary dentition and the occlusal plane
The maxillary incisors extruded & were retroclined because of the clockwise rotation of maxillary dentition
Can be used in Class III malocclusion combined with an anterior open bite

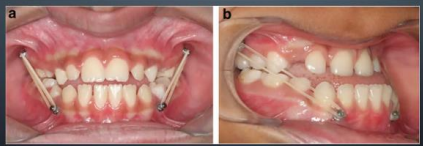
Participants: 12 Chat Share Screen Record Reactions Leave

Participants: Yamini Jeyaraj, Annamalai Orth..., R Gokul raj, Nivethitha Bhas..., Sagaya Mary, Saravanakumar..., Priyanga Ravi, Priya Darshini, Anitha Nallusa..., Prema Anbarasu, varalakshmi Dr, Joshua Stalin

Recording

BONE ANCHORED MAXILLARY PROTRACTION

- Introduced by CEVIDANES uses mini plates
- Greater maxillary advancement
- Vertical changes are better controlled
- Lack of clockwise rotation of the mandible and retroclination of the mandibular incisors



Evolution of Class III treatment in orthodontics Peter Ngana, AJODO 2015

Participants: 12 Chat Share Screen Record Reactions Leave

Participants: Yamini Jeyaraj, Annamalai Orth..., R Gokul raj, Joshua Stalin, Sagaya Mary, Saravanakumar..., Priyanga Ravi, Priya Darshini, Anitha Nallusa..., Prema Anbarasu, varalakshmi Dr, Nivethitha Bhas...



FIRST ASK YOURSELF WHAT IS THE RESEARCH QUESTION?

ABSOLUTELY ESSENTIAL IN ORDER TO FOCUS
ON RESEARCH

HOW TO DEVELOP A RESEARCH QUESTION?

- Choose an appropriate topic or issue of interest to you.
- List all the questions that you'd like answer.
- Then choose the best question, one that is neither too broad or narrow.

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➤ Webcam

➤ Audio

➤ Dashboard

Attendees: 101 of 101 (max)

Attendees (97)

Staff (4)

NAMES

Dr. Viswanathan Mohan (Presenter)

Navin N (Organizer, Me)

P. Rajesh (Organizer)

Sriman Vishnu (Organizer)

All

All

Invite

Polls (0/0)

Questions

Handouts: 0 of 5

Chat

Audience view

Webinar ID: 345-374-275

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Ps

Chrome

ENG IN

11:16 AM

5/16/2020

STEP BY STEP APPROACH TO

- ❖ Initiate small research projects /
- ❖ Develop some infrastructural facilities with dedicated staff
- ❖ Grants from national funding agencies
- ❖ Gradually progress towards basic research
- ❖ Collaborate with Indian / Foreign institutions (if necessary)

"DO WHAT IS POSSIBLE WITH AVAILABLE INFRASTRUCTURE"

File Options View Help

➤ Sharing

➤ Webcam

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Attendees: 101 of 101 (max)

Attendees (97)

Staff (4)

NAMES

Dr. Viswanathan Mohan (Presenter)

Navin N (Organizer, Me)

P. Rajesh (Organizer)

Sriman Vishnu (Organizer)

All

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Questions

Handouts: 0 of 5

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Dr. Viswanathan Mohan

MADRAS DIABETES RESEARCH FOUNDATION (MDRF)
A 100% non-profit organization established in 1996

Objective:- To carry out research on diabetes and its complications

Madras Diabetes Research Foundation - Currently in 4 locations



Clinical Research,
Gopalapuram



Epidemiology, Food & Nutrition Research
and Prevention, Gopalapuram



Clinical Trials,
Gopalapuram



Basic Science Research,
Siruseri

- ❖ Collaborations with various national and international universities
- ❖ Recognised by the ICMR, DST and DBT
- ❖ Recognised by Madras University, Tamil Nadu Dr MGR Medical University, Deakin University, Melbourne, Australia & University of Warwick, UK

File Options View Help

▶ Sharing [X]

▶ Webcam [X]

▶ Audio [X]

▶ Dashboard [X]

▶ Attendees: 100 of 101 (max) [X]

Attendees (97) Staff (3)

NAMES

Show Organizers, Presenters, and Panelists

Navin N (Organizer, Me)

Sriman Vishnu (Organizer)

All All Invite

▶ Polls (0/0) [X]

▶ Questions [X]

▶ Handouts: 0 of 5 [X]

▶ Chat [X]

▶ Audience view [X]

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