



**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
08.06.2020	PAR Index	Dr.Priyadharshini	14

Zoom Meeting 40-Minutes



Recording

### Anitha Nallusamy's Personal Meeting Room

Meeting ID 622 465 6491

Host Anitha Nallusamy

Password 12345

Invite Link <https://us04web.zoom.us/j/6224656491?pwd=dUJCdy94N1h2UHMrLzd3dzJNVjdWQT09>

Copy Link

Participant ID 541475

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**Anitha Nallusamy**

Sagaya Mary

Priyanga Ravi

Gokul Dpm

SUSHMITHA RA...

Yamini Jeyaraj

Baala Gopal

Sriman Vishnu

Priya Darshini

Dr. Varu

Joshua Stalin

Nivethitha Bhas...

Saravanakumar Su...

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**PEER ASSESSMENT INDEX**

DR ANITHA  
DEPT OF ORTHODONTICS  
CDCRI

Unmute Start Video

Participants 13 Chat 1 Share Screen Record Reactions

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Recording

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PAR INDEX

- Developed by a group of experienced British orthodontists at Manchester, UK who agreed that individual features should be assessed to obtain an estimate of alignment and occlusion.
- Their aim was to quantify the changes that occurred after orthodontic treatment and therefore measure the success based on the initial severity of malocclusion
- A weightage score was given for various traits of malocclusion

Anitha Nallusamy

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Priyanga Ravi

Gokul Dpm

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Yamini Jeyaraj

Baala Gopal

Sriman Vishnu

Priya Darshini

Dr. Varu

Joshua Stalin

Nivethitha Bhas...

Saravanakumar...

Prema Anbarasu

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Table 1 Components of the PAR Index.

1.	Upper right segment
2.	Upper anterior segment
3.	Upper left segment
4.	Lower right segment
5.	Lower anterior segment
6.	Lower left segment
7.	Right buccal occlusion
8.	Overjet
9.	Overbite
10.	Centreline
11.	Left buccal occlusion

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Priyanga Ravi

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Baala Gopal

Sriman Vishnu

Priya Darshini

Dr. Varu

Joshua Stalin

Nivethitha Bhas...

Saravanakumar...

Prema Anbarasu

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Score	Discrepancy
0	0 mm to 1 mm
1	1.1 mm to 2 mm
2	2.1 mm to 4 mm
3	4.1 mm to 8 mm
4	greater than 8 mm
5	impacted teeth

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Sriman Vishnu

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Saravanakumar...

Prema Anbarasu

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Score	Discrepancy
Antero-posterior	
0	Good interdigitation Class I, II and III
1	Less than half unit discrepancy
2	Half a unit discrepancy (cusp to cusp)
Vertical	
0	No discrepancy in intercuspal
1	Lateral open bite on at least two teeth greater than 2 mm
Transverse	
0	No cross-bite
1	Cross-bite tendency
2	Single tooth in cross bite
3	More than one tooth in cross-bite
4	More than one tooth in scissor bite

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PAR Score	Centre lines discrepancy assessment
0	Coincident and up to $\frac{1}{4}$ lower incisor width
1	$\frac{1}{4}$ to $\frac{1}{2}$ lower incisor width
2	Greater than $\frac{1}{2}$ lower incisor width

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Sagaya Mary



Priyanga Ravi



Gokul Dpm



SUSHMITHA RAM



Yamini Jeyaraj

Baala Gopal



Sriman Vishnu

Priya Darshini



Joshua Stalin



Saravanakumar S...

Prema Anbarasu



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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
10.06.2020	Six elements in orthodontics	Dr.Varalakshmi	15

 Zoom Meeting 40-Minutes



### Dr. Varu's Personal Meeting Room

Meeting ID	614 851 6030
Host	Dr. Varu
Password	welcome
Numeric Password (Telephone/Room Systems)	438136
Invite Link	<a href="https://us04web.zoom.us/j/6148516030?pwd=WFIFWDFJem1ISy9GUlZlelpGUGt0UT09">https://us04web.zoom.us/j/6148516030?pwd=WFIFWDFJem1ISy9GUlZlelpGUGt0UT09</a>  Copy Link
Participant ID	327199

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Zoom Meeting 40-Minutes

Remaining Meeting Time: 09:12

00:30:26

Speaker View

Anitha Nallusamy

Navin N

Prema Anbarasu

Dr. Varu

Joshua Stalin

Sagaya Mary

Baala Gopal

SUSHMITHA RAM

Gokul Dpm

Sriman Vishnu

Priyangha Ravi

Nivethitha Bhaskar

Saravanakumar Subram...

Yamini Jeyaraj

Annamalai Orthodontist

Unmute

Start Video

Participants 15

Chat

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Windows taskbar with various icons and system clock showing 11:31 AM on 6/10/2020.

## Participants (15)

Find a participant

Navin N (Me)

Dr. Varu (Host)

AN Anitha Nallusamy

Annamalai Orthodontist

BG Baala Gopal

Gokul Dpm

Joshua Stalin

Nivethitha Bhaskar

PA Prema Anbarasu

Priyangha Ravi

SM Sagaya Mary

Saravanakumar Subramanian

Sriman Vishnu

SUSHMITHA RAM

Yamini Jeyaraj

Invite

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Windows taskbar with various icons and system clock showing 11:17 AM on 6/10/2020.



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Zoom Meeting

Recording 00:10:08

ANDREWS 6 ELEMENT PHILOSOPHY  
K.A. NALLUSAMY  
POSTGRADUATE STUDENT, CDCRI

Anitha Nallusa... Navin N Dr. Varu Joshua Stalin

Sagaya Mary Baala Gopal SUSHMITHA R... Gokul Dpm

Sriman Vishnu Priyanga Ravi Nivethitha Bha... Saravanakuma...

Yamini Jeyaraj Prema Anbarasu Annamalai Orth...

Search here 99+ 11:10 AM 6/10/2020

Zoom Meeting 40-Minutes

You are viewing Dr. Varu's screen View Options 00:10:28 Speaker View

The Andrews Foundation has been a leader in orthodontic research and education since its formation in the 1960's. Findings at the foundation, which include the Six Key to Optimal Occlusion and the Straight-Wire Appliance, have had a profound influence on the specialty of orthodontics. The founder, Dr. Larry Andrews, along with his son and co-director Dr. Will Andrews, have more recently been dedicated to research which has led to finding the Six Elements of Orofacial Harmony; the Six Elements are three-dimensional goals for the jaws and teeth.

Anitha Nallusa... Navin N Dr. Varu Joshua Stalin

Sagaya Mary Baala Gopal SUSHMITHA R... Gokul Dpm

Sriman Vishnu Priyanga Ravi Nivethitha Bha... Saravanakuma...

Yamini Jeyaraj Prema Anbarasu Annamalai Orth...

Unmute Start Video (Alt+V) 15 Participants Chat Share Screen Record Reactions Leave

Search here 99+ 11:11 AM 6/10/2020



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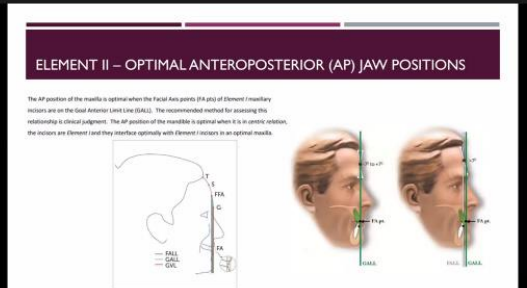
Zoom Meeting 40-Minutes

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View Options

00:16:50

Speaker View



Anitha Nallusamy



Navin N

Prema Anbarasu



Dr. Varu



Joshua Stalin

Sagaya Mary

Baala Gopal



SUSHMITHA RAM



Gokul Dpm



Sriman Vishnu



Priyanga Ravi



Nivethitha Bhaskar



Saravanakumar ...



Yamini Jeyaraj



Annamalai Ortho...

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Participants 15

Chat

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ENG 11:17 AM 6/10/2020

Zoom Meeting

Recording

00:18:45



Anitha Nallusamy



Navin N

Prema Anbarasu



Dr. Varu



Joshua Stalin

Sagaya Mary

Baala Gopal



SUSHMITHA RAM



Gokul Dpm



Sriman Vishnu



Priyanga Ravi



Nivethitha Bhaskar



Saravanakumar ...



Yamini Jeyaraj



Annamalai Ortho...

Search here

ENG 11:19 AM 6/10/2020

Vaathukkari  
Santhosh Anna: Photo  
WhatsApp



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Zoom Meeting 40-Minutes

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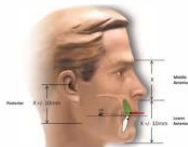
00:18:52

Speaker View

## ELEMENT IV – OPTIMAL JAW HEIGHTS

Jaw heights are optimal when:

- the arches are Element I and in full occlusion
- the middle anterior, lower anterior, and posterior face heights are in harmony with each other
- the maxillary incisor FA pts are level with the inferior border of the upper lip in repose
- the occlusal plane orientation (inclination and cant) is in harmony with function and esthetics



Anitha Nallusamy



Navin N

Prema Anbarasu



Dr. Varu



Joshua Stalin



Sagaya Mary



Baala Gopal



SUSHMITHA RAM



Gokul Dpm



Sriman Vishnu



Priyangha Ravi



Nivethitha Bhaskar



Saravanakumar ...



Yamini Jeyaraj



Annamalai Ortho...

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Participants 15

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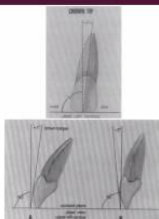
Zoom Meeting

Recording

00:22:45

## ELEMENT VI – OPTIMAL OCCLUSION( 6 KEYS)

Key I (interarch relationships)	
Key II (angulations)	
Key III (inclinations)	
Key IV (rotations)	
Key V (right contacts)	
Key VI (curve of Spee)	



Anitha Nallusamy



Navin N

Prema Anbarasu



Dr. Varu



Joshua Stalin



Sagaya Mary



Baala Gopal



SUSHMITHA RAM



Gokul Dpm



Sriman Vishnu



Priyangha Ravi



Nivethitha Bhaskar



Saravanakumar ...



Yamini Jeyaraj



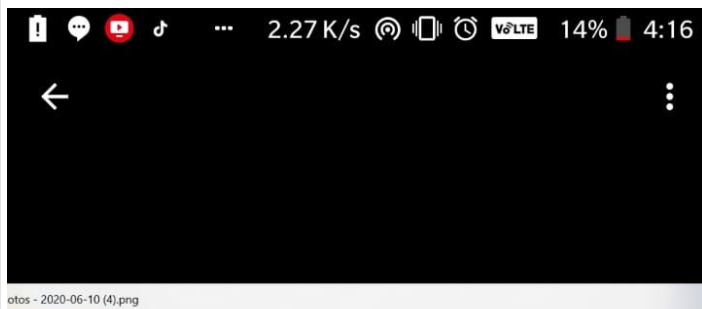
Annamalai Ortho...

Search here





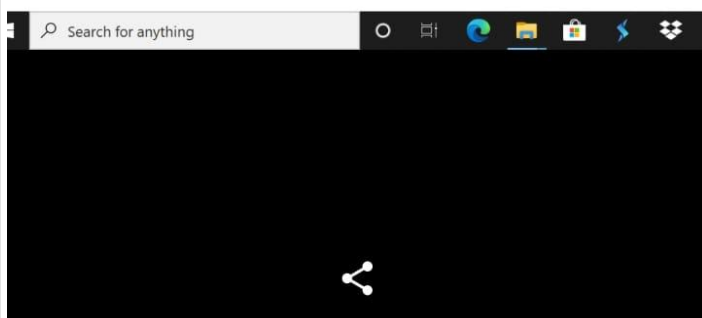
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**Recent advances in orthodontics**

Meeting ID	783 4680 4388
Host	Sagaya Mary (You)
Password	12345
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Participant ID	278855

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**RECENT ADVANCES IN ORTHODOTHONICS**

Dr. SAGAYA MARY  
POST GRADUATE  
CDCRI



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Close

Participants (82)

SR	Shweta Ranjith (me)			>
SM	Sagaya Mary (host)			>
	Aamina Afra			>
AK	Adithi Karthik			>
	Akshayaa Shankar			>
AR	Anusha R			>
AS	ARCHANA S			>
	Arunachalesh Anbazhagan			>
a	Ateeq Ahamed			>
	Balan Edward			>
CS	Chandhni Shanker			>
C	Chandhni's iPhone			>
	Deepika R M			>

Invite

11:46 0.21 KB/s Vo LTE 4G

SK. Ortho Chettin...

Thank u sir 3:27 pm

Looks good for now we will evaluate once again after college reopens 3:42 pm

Type a message



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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
11.06.2020	Phenotype of Class II	Dr.Navin.N	16

 Zoom Meeting 40-Minutes



### Navin N's Personal Meeting Room

Meeting ID	942 393 2361
Host	Navin N (You)
Password	55555
Invite Link	<a href="https://us04web.zoom.us/j/9423932361?pwd=a1pEeTQwU3RrOEVmOUNHWWE83Rk0wQT09">https://us04web.zoom.us/j/9423932361?pwd=a1pEeTQwU3RrOEVmOUNHWWE83Rk0wQT09</a>  Copy Link
Participant ID	186502

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Participants (16)

Find a participant

- AN Anitha Nallusamy
- Annamalai Orthodontist
- BG Baala Gopal
- Dr. Varu
- Gokul Dpm
- Joshua Stalin
- Nivethitha Bhaskar
- PA Prema Anbarasu
- P priyadarshini
- Priyanga Ravi
- SM Sagaya Mary
- Saravanakumar Subramanian
- SV Sriman Vishnu
- SUSHMITHA RAM
- Yamini Jeyaraj



Invite

Mute All

...



Participants (16)

Find a participant

- Navin N (Host, me)
- AN Anitha Nallusamy
- Annamalai Orthodontist
- BG Baala Gopal
- Dr. Varu
- Gokul Dpm
- Joshua Stalin
- Nivethitha Bhaskar
- PA Prema Anbarasu
- P priyadarshini
- Priyanga Ravi
- SM Sagaya Mary
- Saravanakumar Subramanian
- SV Sriman Vishnu
- SUSHMITHA RAM



Invite

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...





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Zoom Meeting 40-Minutes

00:08:35

Speaker View

 Saravanakumar Subra...	 Navin N	 Dr. Varu	Anitha Nallusamy
 Gokul Dpm	Sagaya Mary	priyadarshini	 Joshua Stalin
 Priyanga Ravi	 Annamalai Orthodontist	 Nivethitha Bhaskar	 Yamini Jeyaraj
 SUSHMITHA RAM	Sriman Vishnu	Baala Gopal	<b>Prema Anbarasu</b>

Mute Start Video Security Participants Chat Share Screen Record Reactions

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ENG 9:37 AM 6/11/2020

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**PHENOTYPE OF CLASS II MALOCCLUSION**

By;  
Dr Navin.N  
Dept. Of Orthodontics  
CDCRI

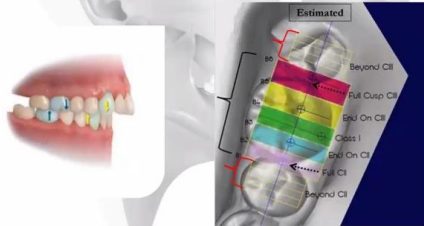
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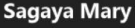











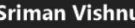

 Navin N	Sagaya Mary	 Saravanakumar...
 Nivethitha Bhas...	 Dr. Varu	Anitha Nallusamy
 Gokul Dpm	priyadarshini	 Joshua Stalin
 Priyanga Ravi	 Annamalai Orth...	 Yamini Jeyaraj
 SUSHMITHA RA...	Sriman Vishnu	Baala Gopal



Recording

The mesiobuccal cusp of the maxillary first permanent molar articulates mesial to the buccal groove of the mandibular first permanent



 Navin N	 Sagaya Mary	 Saravanakumar...
 Nivethitha Bhas...	 Dr. Varu	 Anitha Nallusamy
 Gokul Dpm	 priyadarshini	 Joshua Stalin
 Priyanga Ravi	 Annamalai Orth...	 Yamini Jeyaraj
 SUSHMITHA RA...	 Sriman Vishnu	 Baala Gopal

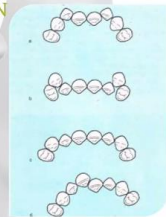
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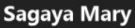











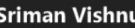

#### ❖SUBDIVISION-

When the distocclusion occurs on one side.

#### CLASS II DIV 2 MALOCCLUSION CLASSIFICATION

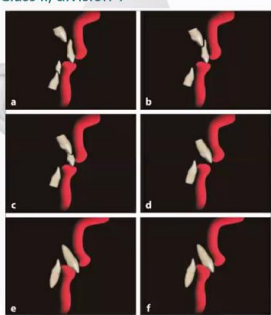
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- Type b
- Type c &
- Type d



 Navin N	 Sagaya Mary	 Saravanakumar...
 Nivethitha Bhas...	 Dr. Varu	 Anitha Nallusamy
 Gokul Dpm	 priyadarshini	 Joshua Stalin
 Priyanga Ravi	 Annamalai Orth...	 Yamini Jeyaraj
 SUSHMITHA RA...	 Sriman Vishnu	 Baala Gopal

Recording

Development of the incisors in relation to the lips in a severe Class II, division 1 malocclusion

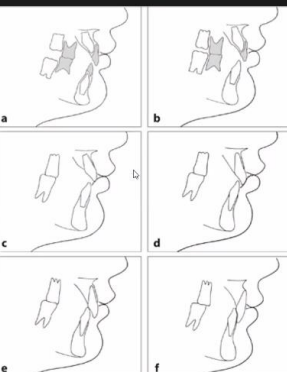


Textbook of Development of Human Dentition-Frans P.G.M.Van der Linden

Navin N	Sagaya Mary	Saravanakumar...
Prema Anbarasu	Dr. Varu	Anitha Nallusamy
Gokul Dpm	priyadarshini	Joshua Stalin
Priyanga Ravi	Annamalai Orth...	Yamini Jeyaraj
SUSHMITHA RA...	Sriman Vishnu	Baala Gopal

Recording

Development of a Class II, division 2 malocclusion



Textbook of Development of Human Dentition-Frans P.G.M.Van der Linden

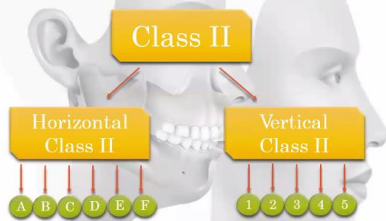
Navin N	Sagaya Mary	Saravanakumar...
Dr. Varu	Anitha Nallusamy	Gokul Dpm
priyadarshini	Joshua Stalin	Priyanga Ravi
Annamalai Orth...	Yamini Jeyaraj	Sriman Vishnu
Baala Gopal	Prema Anbarasu	Nivethitha Bhas...







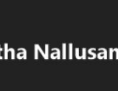








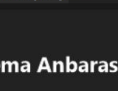

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Dental College & Research Institute

Recording

## MOYER'S CLASSIFICATION OF CLASS II

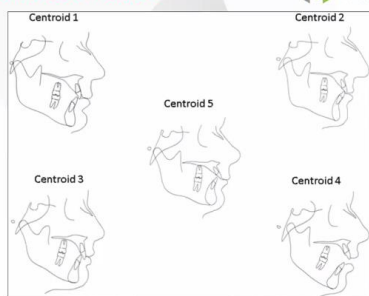


Handbook of orthodontics by Robert Moyers, 4th edition





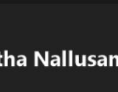





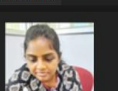


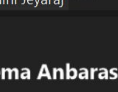

 Navin N	 Sagaya Mary	 Saravanakumar...
 Dr. Varu	 Anitha Nallusamy	 Gokul Dpm
 priyadarshini	 Joshua Stalin	 Priyanga Ravi
 Annamalai Orth...	 Yamini Jeyaraj	 Sriman Vishnu
 Baala Gopal	 Prema Anbarasu	 Nivethitha Bhas...

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## CLUSTER CENTROIDS:



Phenotypic diversity in white adults with moderate to severe Class II malocclusion, Moreno Uribe et al, Am J Orthod Dentofacial Orthop 2014;146:305-16

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 Dr. Varu	 Anitha Nallusamy	 Gokul Dpm
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 Annamalai Orth...	 Yamini Jeyaraj	 Sriman Vishnu
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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
12.06.2020	Phenotype of Class III	Dr.Sagaya	17



#### Phenotype of class III malocclusion

Meeting ID 714 3113 2943

Host Sagaya Mary

Password 12345

Invite Link <https://us04web.zoom.us/j/71431132943?pwd=b054V1lrU1E5Rll1YnVndDZFcmpRQT09>

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**INTRODUCTION**

- ▶ Class III malocclusion is clinically heterogeneous and can be associated with many combinations of skeletal and dental morphological variants
- ▶ Class III malocclusion is assumed to show polygenic or multifactorial inheritance
- ▶ Prenormal occlusion
- ▶ HAPSBURG JAW

**Participants:** Sagaya Mary, Navin N, Gokul Dpm, Sriman Vishnu, Dr. Varu, priyadarshini, Baala Gopal, Somya Wilson, Nivethitha Bha..., Anitha Nallusamy, Priyanga Ravi, Saravanakuma..., Yamini Jeyaraj, Annamalai Orth...

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**INTRODUCTION**

- ▶ Class III malocclusion is clinically heterogeneous and can be associated with many combinations of skeletal and dental morphological variants
- ▶ Class III malocclusion is assumed to show polygenic or multifactorial inheritance
- ▶ Prenormal occlusion
- ▶ HAPSBURG JAW

**Participants:** Sagaya Mary, Navin N, Gokul Dpm, Sriman Vishnu, Dr. Varu, priyadarshini, Baala Gopal, Somya Wilson, Nivethitha Bha..., Anitha Nallusamy, Priyanga Ravi, Saravanakuma..., Yamini Jeyaraj

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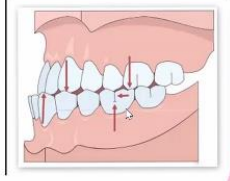
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### ANGLE'S CLASS III MALOCCLUSION

- ▶ Mesio Buccal cusp of the maxillary first permanent molar occluding in the interdental space between the mandibular first and second molars.
- ▶ Lower permanent molar is ahead of the upper first molar by a distance of the width of a premolar or half the width of a molar



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### DEWEY'S MODIFICATION

- ▶ **Type 1:** Well aligned teeth & dental arches but when occluded shows edge-edge relationship.
- ▶ **Type 2:** Crowded mand incisors & in lingual relation to max incisors.
- ▶ **Type 3:** Crowded maxillary incisors, underdeveloped maxilla & anterior cross bite present



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*Original Article*

### Phenotypic Characterization of Class III Patients A Necessary Background for Genetic Analysis

Chi Bui<sup>1</sup>; Terri King<sup>2</sup>; William Proffit<sup>3</sup>; Sylvia Frazier-Bowers<sup>4</sup>

Cluster	No. Members	Nearest Cluster	Description
1	31	4	Mandibular prognathic, long face
2	55	4	Maxillary deficient, low angle
3	96	4	Maxillary deficient, high angle
4	77	3	Mildly mandibular prognathic, normal
5	50	4	Combination, normal

**Cluster analysis for Class III patients**

**Five clusters**

- cluster 1
  - » Mandibular prognathic (mp)
  - » Long face
- cluster 2
  - » Maxillary deficient (md)
  - » Short face
- cluster 3
  - » Maxillary deficient
  - » Long face
- cluster 4
  - » Mild mand. prognathic
  - » Normal
- cluster 5
  - » combination (mp + md)
  - » Normal

Sagaya Mary

Navin N

Gokul Dpm

Sriman Vishnu

Dr. Waru

priyadarshini

Baala Gopal

Somya Wilson

Nivethitha Bh...

Anitha Nallusamy

Priyanga Ravi

Saravanakum...

Yamini Jeyaraj

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## CLINICAL FEATURES

- EXTRA-ORAL**
  - » Concave profile
  - » Anterior facial divergence
  - » Retrusive nasomaxillary area
  - » Malar deficiency
  - » Prominent lower third of face/chin
  - » Steep mandibular plane angle
- INTRA-ORAL**
  - » Class III molar and canine relationship
  - » Crossbite
  - » Narrow upper arch
  - » Decreased or reverse overjet
  - » Crowding in upper arch
  - » Proclined max incisors & retroclined mand incisors
  - » Flat curve of spee

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Sriman Vishnu

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priyadarshini

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### ORIGINAL ARTICLE

#### Diagnostic criteria for pseudo-Class III malocclusion

A.B.M. Rabin, BDS, Cert Ortho, MS, PhD\* and Yan Gu, BDS\*  
Hong Kong

#### CONCLUSIONS

Diagnostic characteristics of pseudo-Class III malocclusion in the present study could be summarized as:

- Majority showed no family history.
- Class I molar and canine relationships at HO and Class II or end to end relationship at CR.
- Decreased midface length.
- Forward position of the mandible with normal mandibular length.
- Retroclined upper incisors and normal lower incisors.

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### ETIOLOGY

McNamara JJ, Carlson DS. Quantitative analysis of temporomandibular joint adaptations to protrusive function. Am J Orthod. 1979

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Somya Wilson

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Priyanga Ravi

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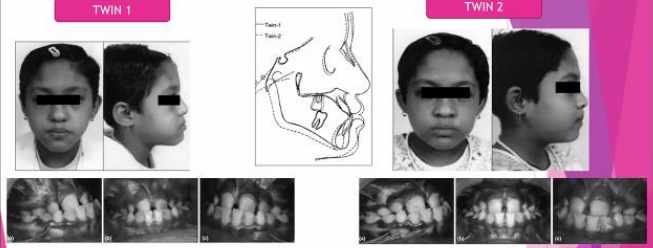
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**TWIN 1** **TWIN 2**



**CONCLUSION**

the twins. From this twin study it was concluded that genetic is not the sole controlling factor for the etiology of the class-III malocclusion. The multifactorial etiology of class-III malocclusion was confirmed. Environmental factors plays significant role in its severity. There are many open

Sagaya Mary Navin N Gokul Dpm Sriman Vishnu

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Nivethitha Bh... Anitha Nallusamy Priyanga Ravi Saravanakum...

Yamini Jeyaraj SUSHMITHA RAM Prema Anbarasu Joshua Stalin

Annamalai O...

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**CHIN CUP**

- Used in the treatment of Class III malocclusion with protrusive mandible & normal maxilla.
- Two types: Occipital pull chin cup Vertical pull chin cup
- Used in patients who exhibit a steep mandibular plane angle & excessive anterior facial height.
- Effects of chin cup include:** Backward repositioning of the mandible Redirection of the mandibular growth Remodelling of mandible with closure of the gonial angle.
- Chin cups with headgears are indicated in primary & mixed dentition periods.
- Force levels** of 300-500gms per side are indicated for 12-14hours of wear everyday.



Sagaya Mary Navin N Gokul Dpm Sriman Vishnu

Dr. Varu priyadarshini Baala Gopal Somya Wilson

Nivethitha Bh... Anitha Nallusamy Priyanga Ravi Saravanakum...

Yamini Jeyaraj SUSHMITHA RAM Prema Anbarasu Joshua Stalin

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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
13.06.2020	IOTN and IOFTN	Dr.Sriman	16



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Participants (16)

Find a participant

- AN** Anitha Nallusamy
- AO** Annamalai Orthodontist
- BG** Baala Gopal
- Dr. Varu**
- Gokul Dpm**
- Joshua Stalin**
- Nivethitha Bhaskar**
- PA** Prema Anbarasu
- P** priyadarshini
- Priyanga Ravi**
- SM** Sagaya Mary
- Saravanakumar Subramanian**
- SV** Sriman Vishnu
- SUSHMITHA RAM**
- Yamini Jeyaraj**



Invite

Mute All

...

Participants (16)

Find a participant

- Navin N (Host, me)**
- AN** Anitha Nallusamy
- AO** Annamalai Orthodontist
- BG** Baala Gopal
- Dr. Varu**
- Gokul Dpm**
- Joshua Stalin**
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- SM** Sagaya Mary
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- SV** Sriman Vishnu
- SUSHMITHA RAM**



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 Saravanakumar Subra...	 Navin N	 Dr. Varu	Anitha Nallusamy
 Gokul Dpm	Sagaya Mary	priyadarshini	 Joshua Stalin
 Priyanga Ravi	 Annamalai Orthodontist	 Nivethitha Bhaskar	 Yamini Jeyaraj
 SUSHMITHA RAM	Sriman Vishnu	Baala Gopal	<b>Prema Anbarasu</b>

16 2

End

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# IOTN AND IOFTN

**Dr. SRIMAN VISHNU**  
POST GRADUATE  
CDCRI

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## INDICES



- ▶ An index is defined as a numerical value describing the relative status of a population on a graduated scale with definite upper and lower limits, which is designed to permit and facilitate comparison with other populations classified by the same criteria and methods. – **A.L.Russel.**
- ▶ An index is an expression of clinical observation in numerical values, which is used to describe the status of the individual or group with respect to a condition being measured. – **E.M.Wilkins**

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## ORTHODONTIC INDICES



- ▶ Indices in orthodontics is a method that assigns a numeric score or alphanumeric label in order to rate and assess a person's occlusion, treatment needs and outcome.

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- ▶ DHC records malocclusions in terms of the significance of tooth irregularities for a personal dental health
- ▶ AC records the aesthetic impairment for treatment based on psychosocial factors

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## Grade 3 – Borderline need

- ▶ Increased overjet greater than 3•5 mm, but less than or equal to 6 mm with incompetent lips.
- ▶ Reverse overjet greater than 1 mm, but less than or equal to 3.5 mm.
- ▶ Anterior or posterior crossbites with greater than 1 mm, but less than or equal to 2 mm discrepancy between retruded contact position and intercusp position.
- ▶ Contact point displacements greater than 2 mm, but less than or equal to 4 mm.
- ▶ Lateral or anterior open bite greater than 2 mm, but less than or equal to 4mm
- ▶ complete deep overbite of gingival and palatal tissues and no trauma is seen

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## DHC GRADING

Grades	
1 and 2	No need for treatment
3	Moderate/ Borderline need for treatment
4 and 5	Need treatment

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## AESTHETIC COMPONENT

- ▶ The AC consists of a 10-point scale, illustrated by a series of numbered photographs from an earlier study, which were rated for attractiveness by laypersons and selected as being equidistantly spaced through the range of scores. (Evans and Shaw, 1987)
- ▶ The patients can be rated their dental attractiveness by comparing with the standard photographs of Aesthetic Component of IOTN
- ▶ The time taken to record both the dental health and esthetic components by an experienced examiner is approximately 1 minute.
- ▶ Grade-1 represents the most and grade-10 represents the least attractive arrangements of teeth 14

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**Index of Orthognathic Functional Treatment Need**

This index applies to those malocclusions that are **not amenable to orthodontic treatment alone, due to skeletal deformity**, and will ordinarily apply to those patients who will have completed facial growth prior to surgery (commonly 18 years of age and older). It relates only to the **functional** need for treatment and should be used in combination with appropriate psychological and other clinical indicators.

<b>5. Very Great Need for Treatment</b>
5.1 Defects of cleft lip and palate and other craniofacial anomalies
5.2 Increased overjet greater than 9 mm
5.3 Reverse overjet $\geq 3$ mm
5.4 Open bite $\geq 4$ mm
5.5 Complete scissors bite affecting whole buccal segment(s) with signs of functional disturbance and/or occlusal trauma
5.6 Sleep apnoea not amenable to other treatments such as MAD or CPAP (as determined by sleep studies)
5.7 Skeletal anomalies with occlusal disturbance as a result of trauma or pathology
<b>4. Great Need for Treatment</b>
4.2 Increased overjet $\geq 6$ mm and $\leq 9$ mm
4.3 Reverse overjet $\geq 0$ mm and $< 3$ mm with functional difficulties
4.4 Open bite $< 4$ mm with functional difficulties
4.8 Increased overbite with evidence of dental or soft tissue trauma
4.9 Upper labial segment gingival exposure $\geq 3$ mm at rest
4.10 Facial asymmetry associated with occlusal disturbance
<b>3. Moderate Need for Treatment</b>
3.3 Reverse overjet $\geq 0$ mm and $< 3$ mm with no functional difficulties
3.4 Open bite $< 4$ mm with no functional difficulties
3.9 Upper labial segment gingival exposure $< 3$ mm at rest, but with evidence of gingival/periodontal effects
3.10 Facial asymmetry with no occlusal disturbance
<b>2. Mild Need for Treatment</b>
2.8 Increased overbite but no evidence of dental or soft tissue trauma
2.9 Upper labial segment gingival exposure $< 3$ mm at rest with no evidence of gingival/periodontal effects
2.11 Marked occlusal cant with no effect on the occlusion
<b>1. No Need for treatment</b>
1.12 Speech difficulties
1.13 Treatment purely for TMD
1.14 Occlusal features not classified above

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**BRITISH ASSOCIATION OF ORAL AND MAXILLOFACIAL SURGEONS (BAOMS 2014)**

- The IOTN must be 4 or 5
- Functional symptoms must have an important impact on quality of life, which would normally have become apparent within 5 years of achieving skeletal maturity
- The multidisciplinary team confirms that orthodontic treatment is insufficient by itself to adequately correct these functional symptoms
- Patients have reached skeletal maturity
- Orthognathic treatment should be low priority on the grounds of insufficient evidence of functional improvement for:
  1. Speech problems
  2. Jaw pain, particularly that associated with the temporomandibular joint.

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