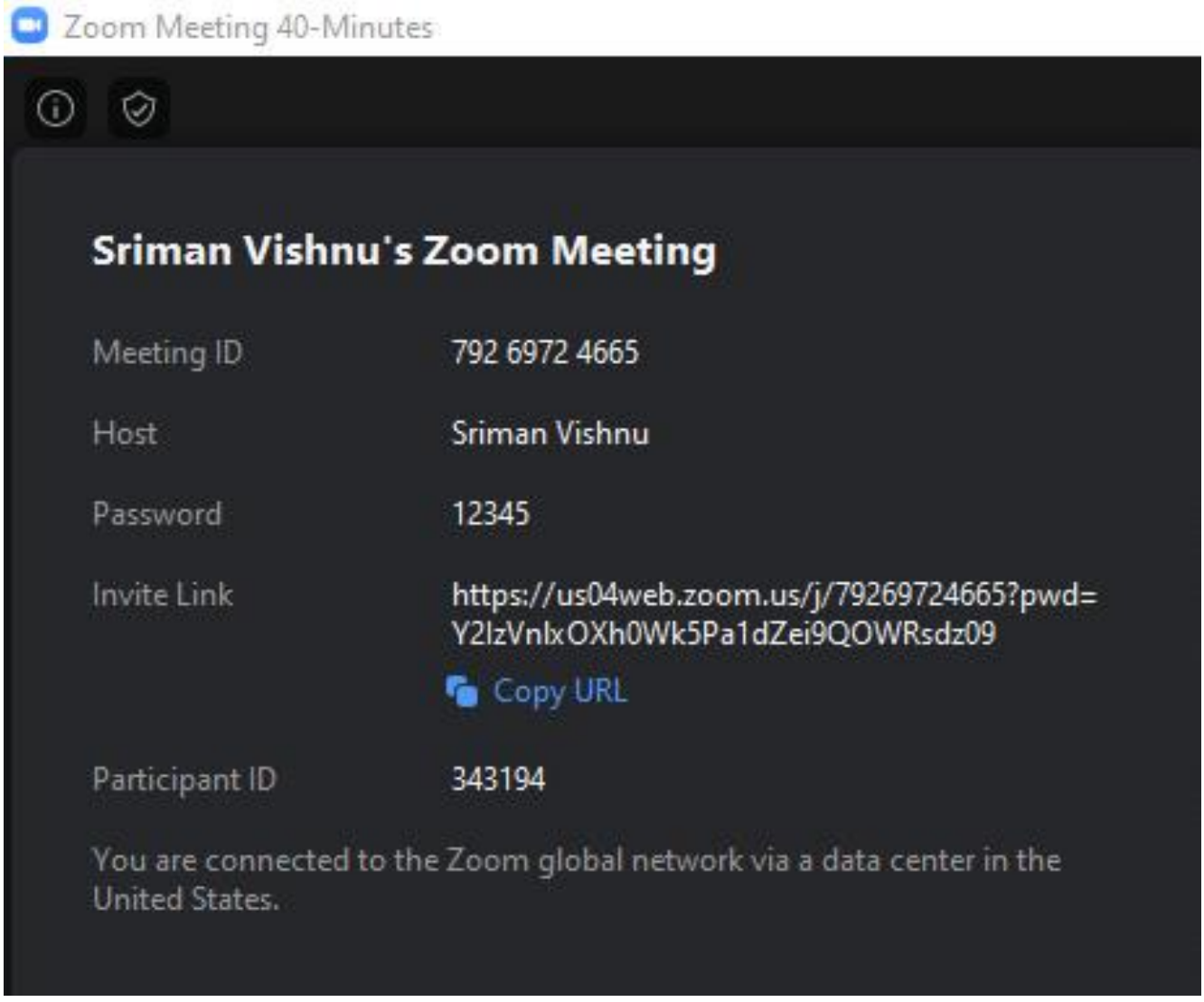
Chettinad
Dental College & Research Institute

## DEPARTMENT OF ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

### E-Teaching/Learning sessions for Post Graduate

### Post Graduate academic schedule

| DATE | TOPIC | PRESENTER | PARTIPANTS |
|---|---|---|---|
| 25.05.2020 | Cephalometric points and landmark | Dr.Sriman | 17 |



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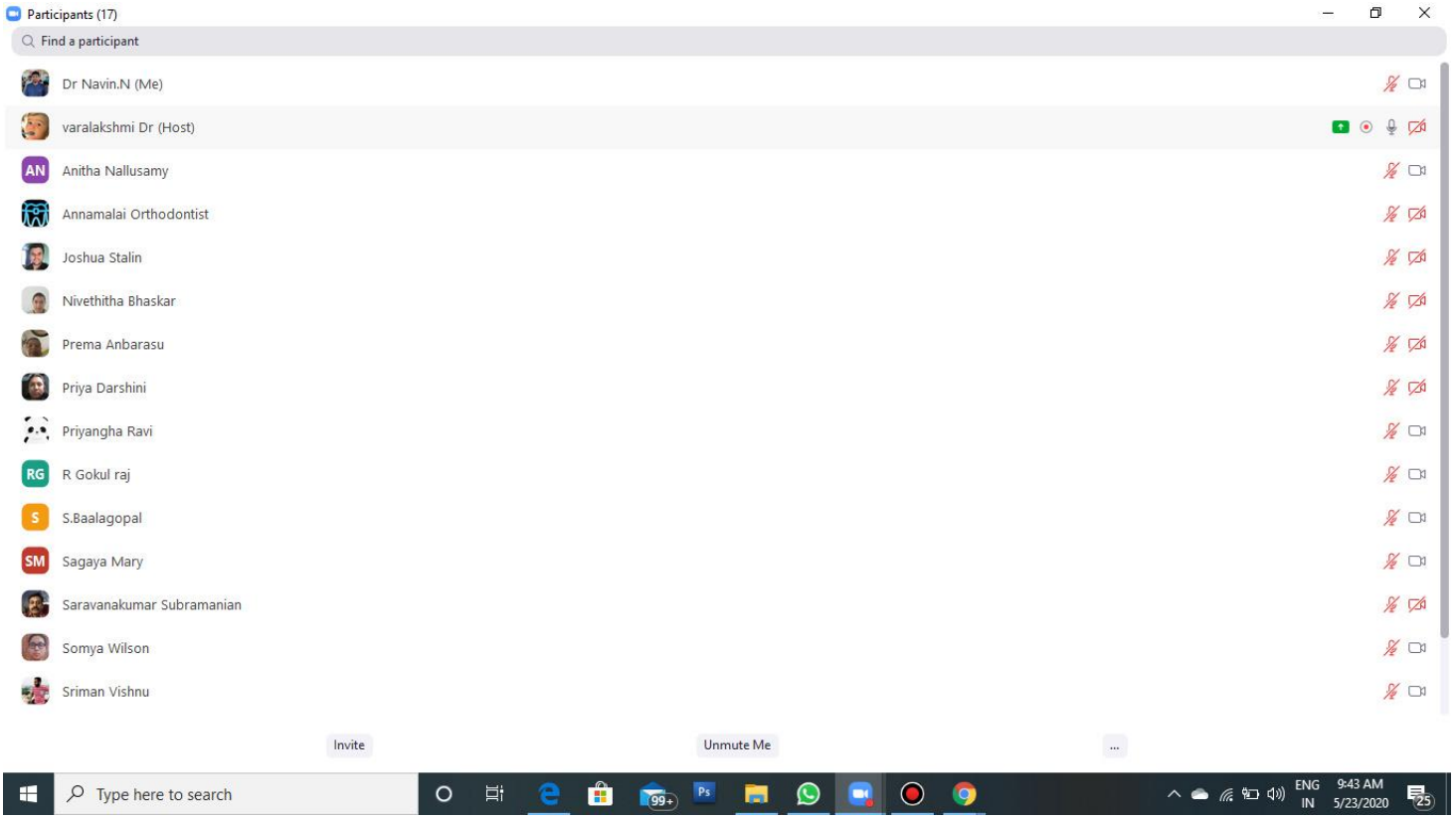


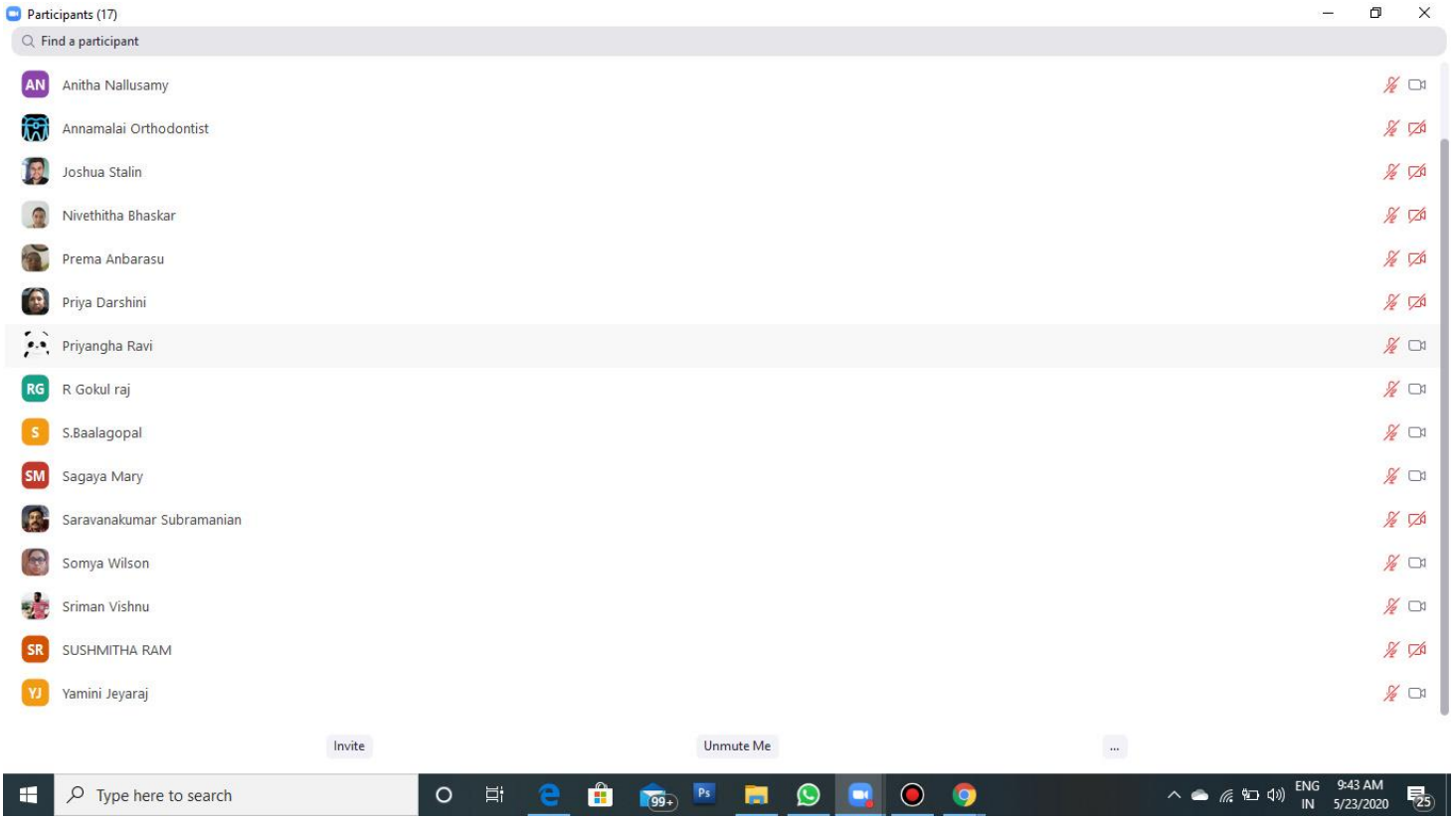

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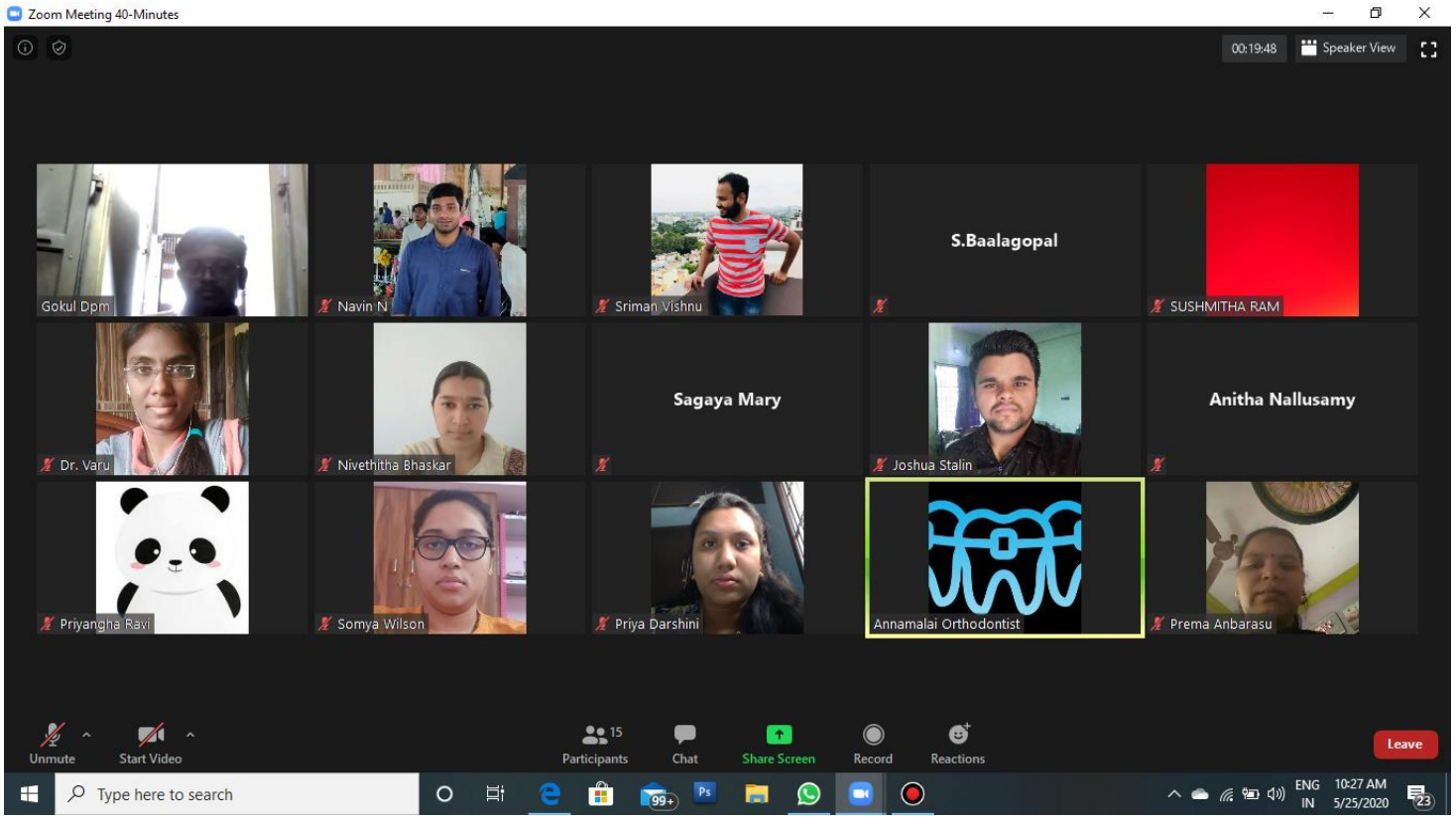


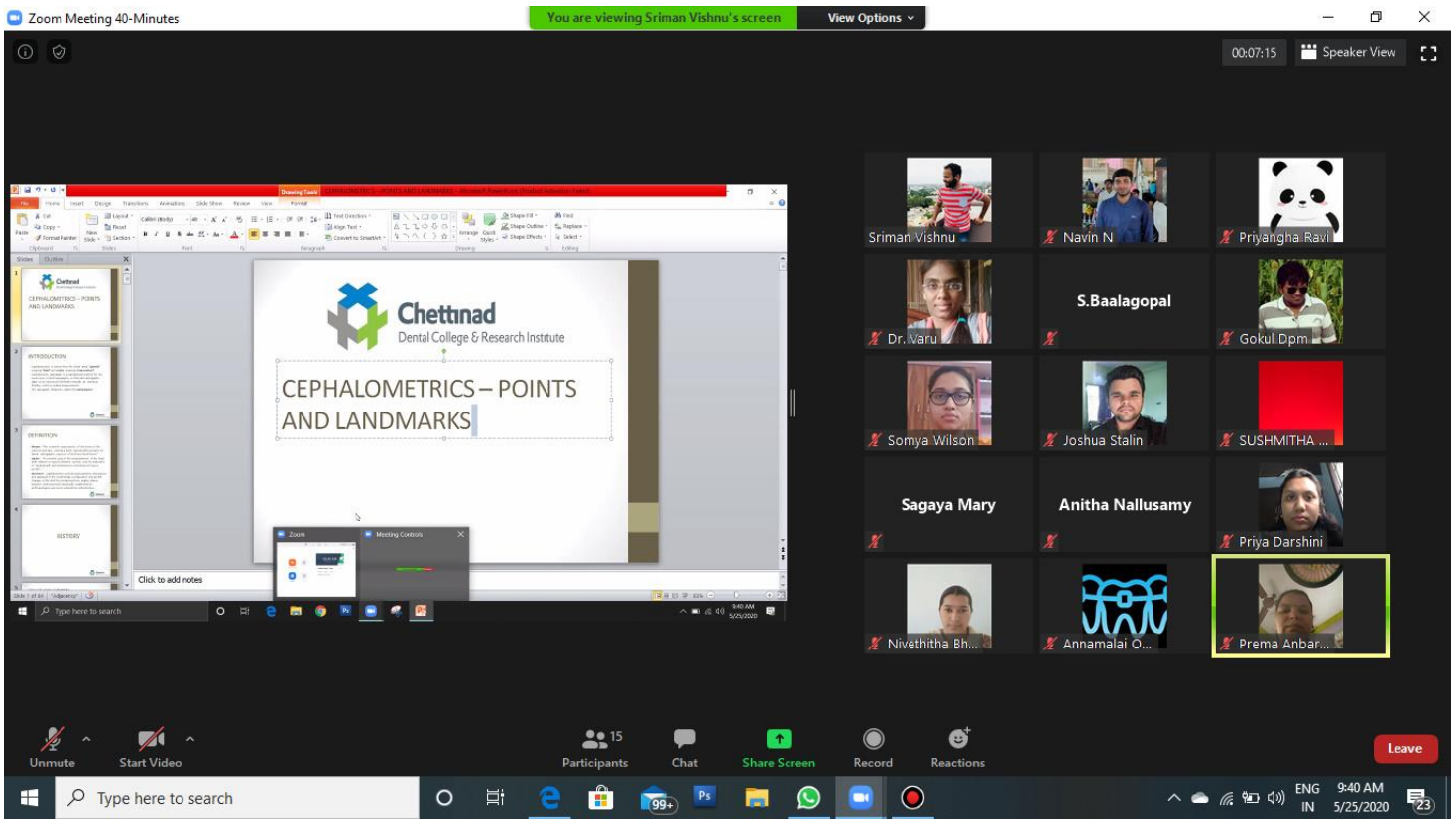

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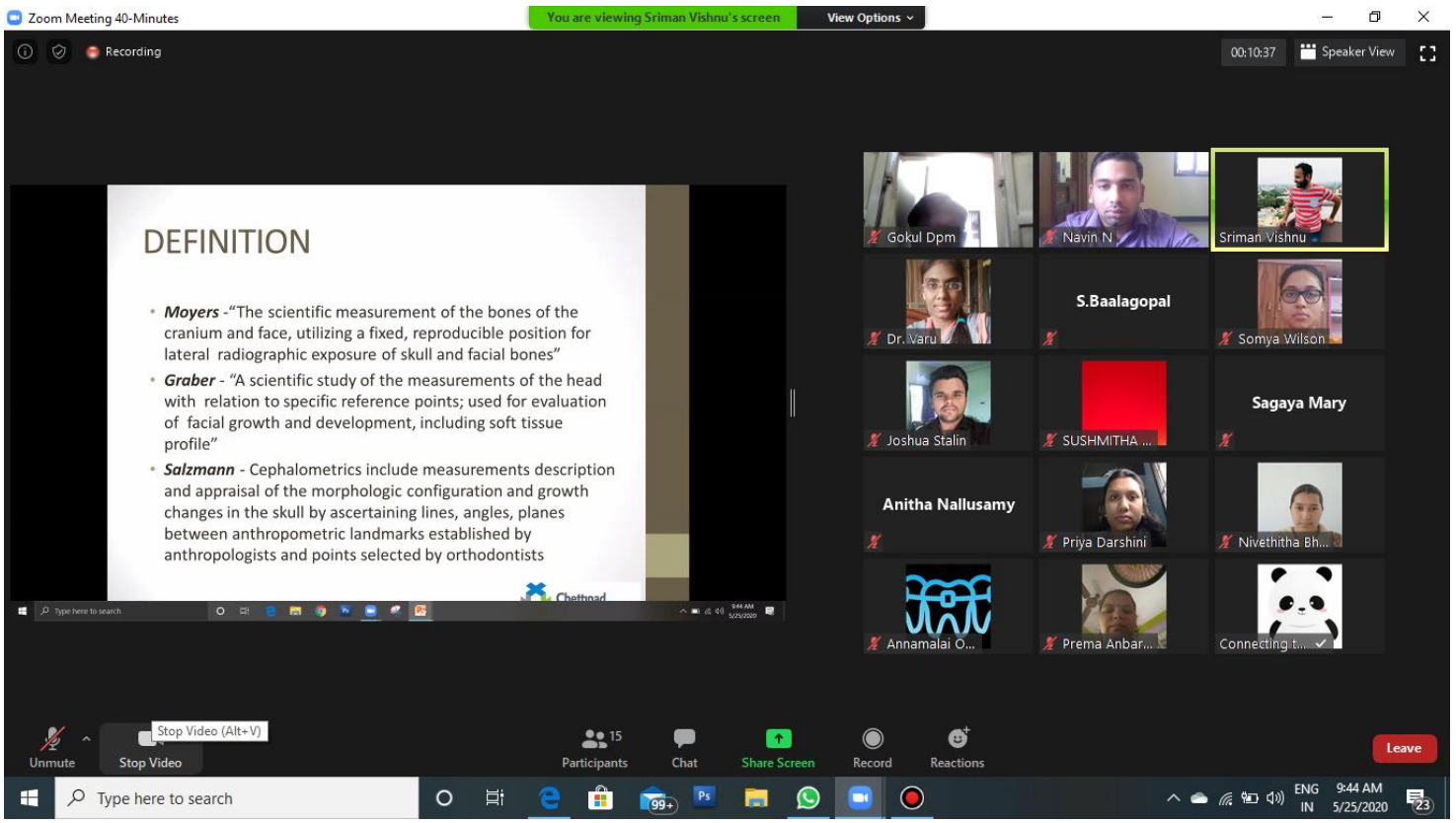


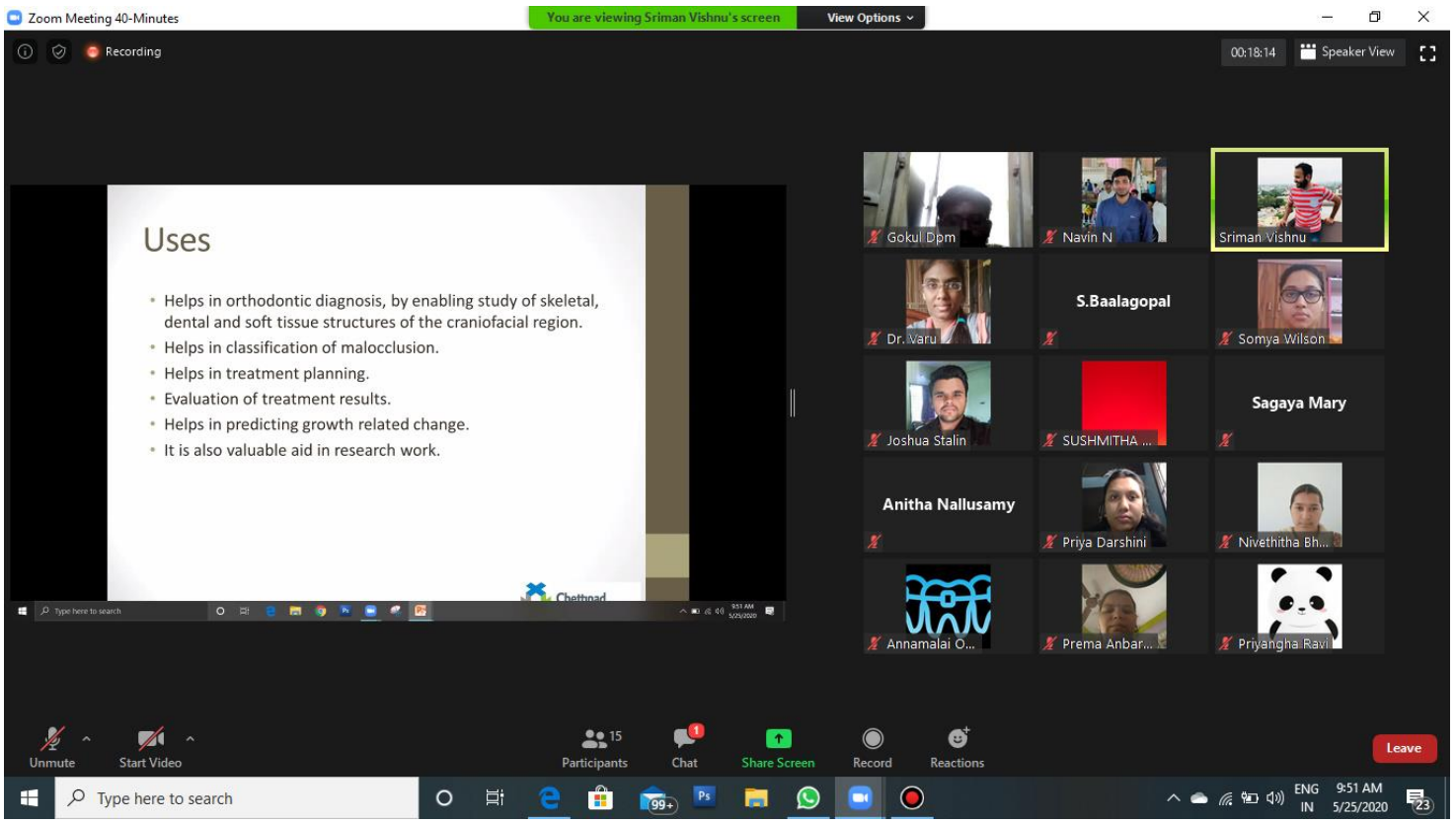

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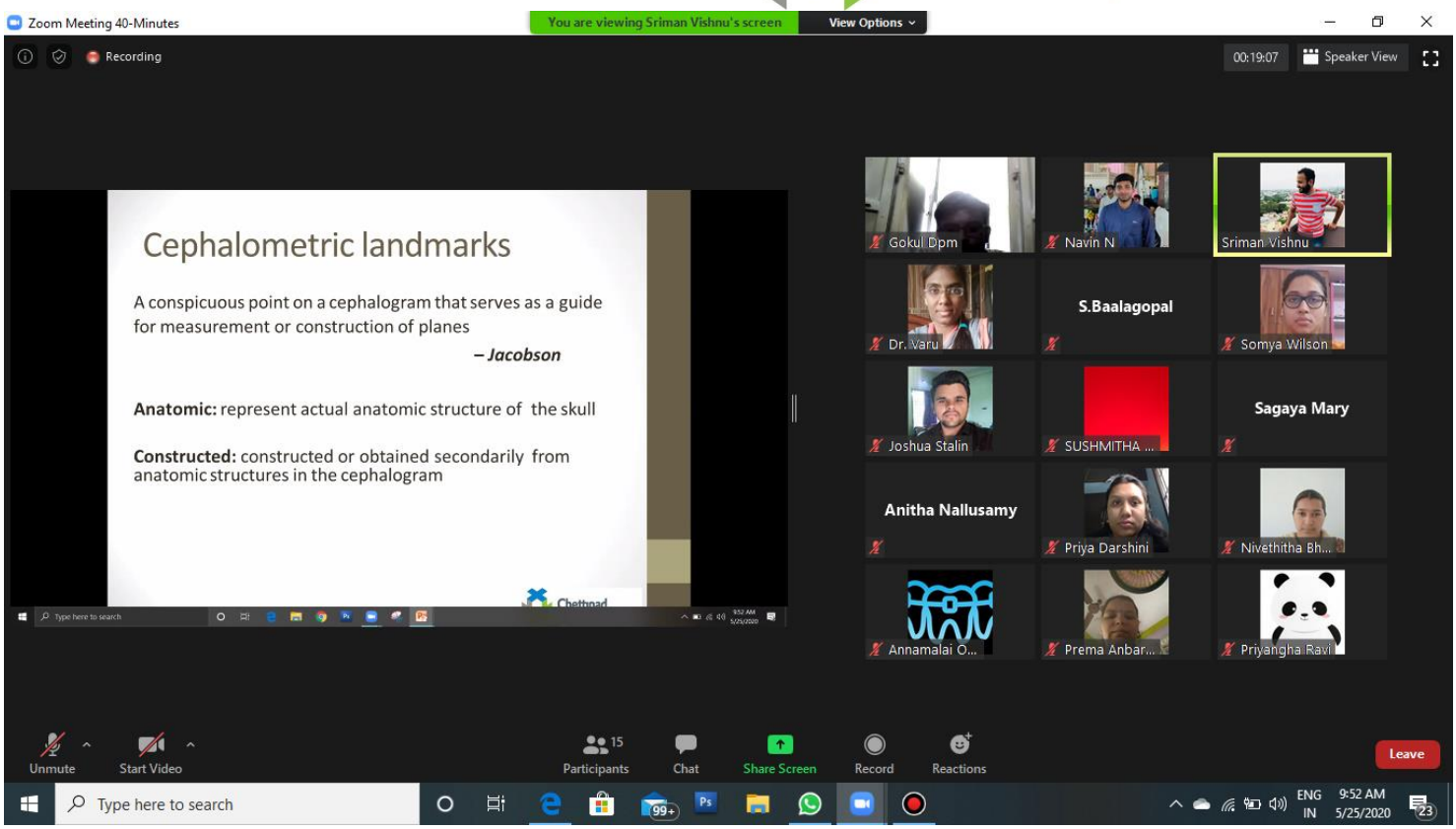


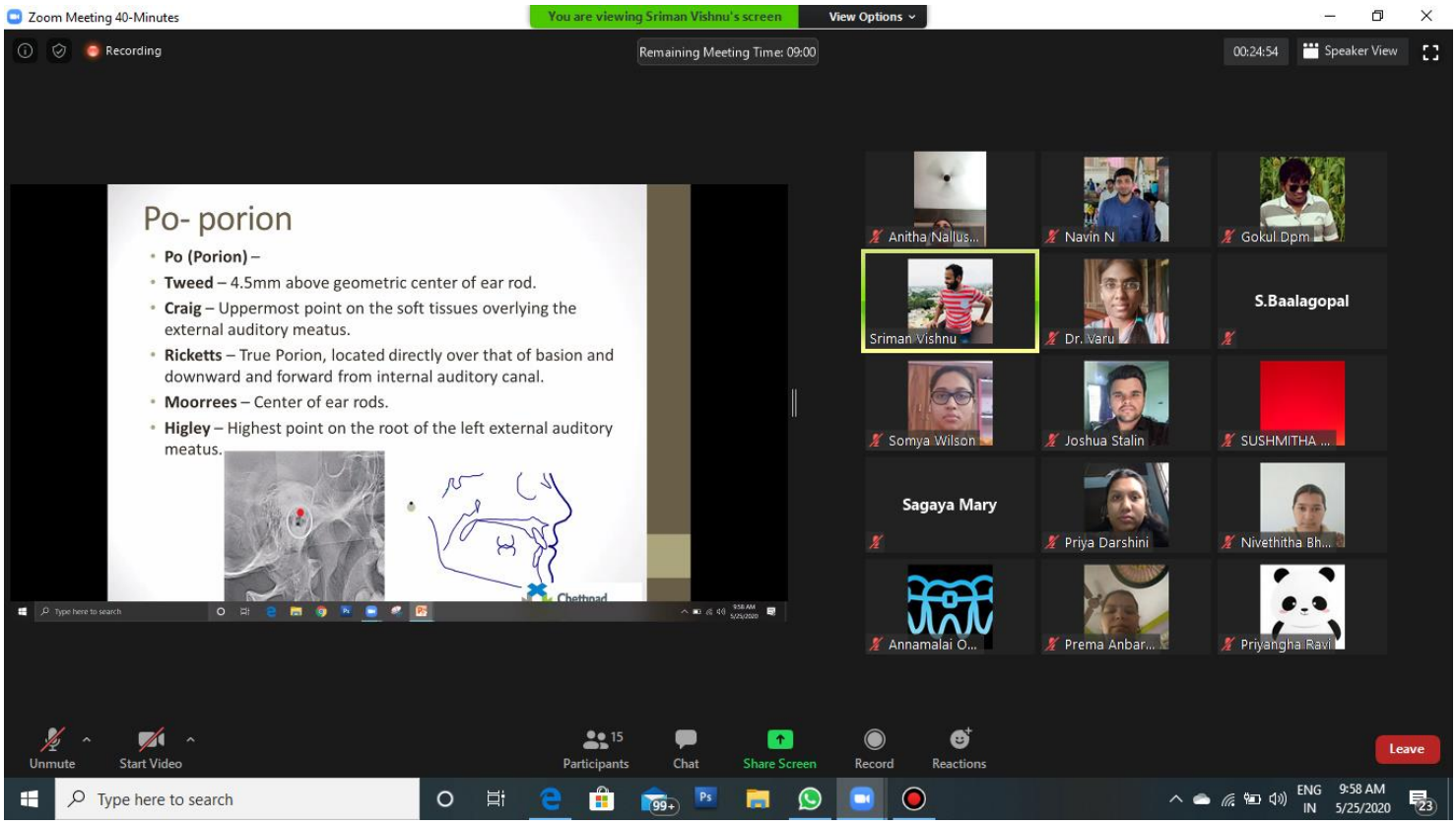

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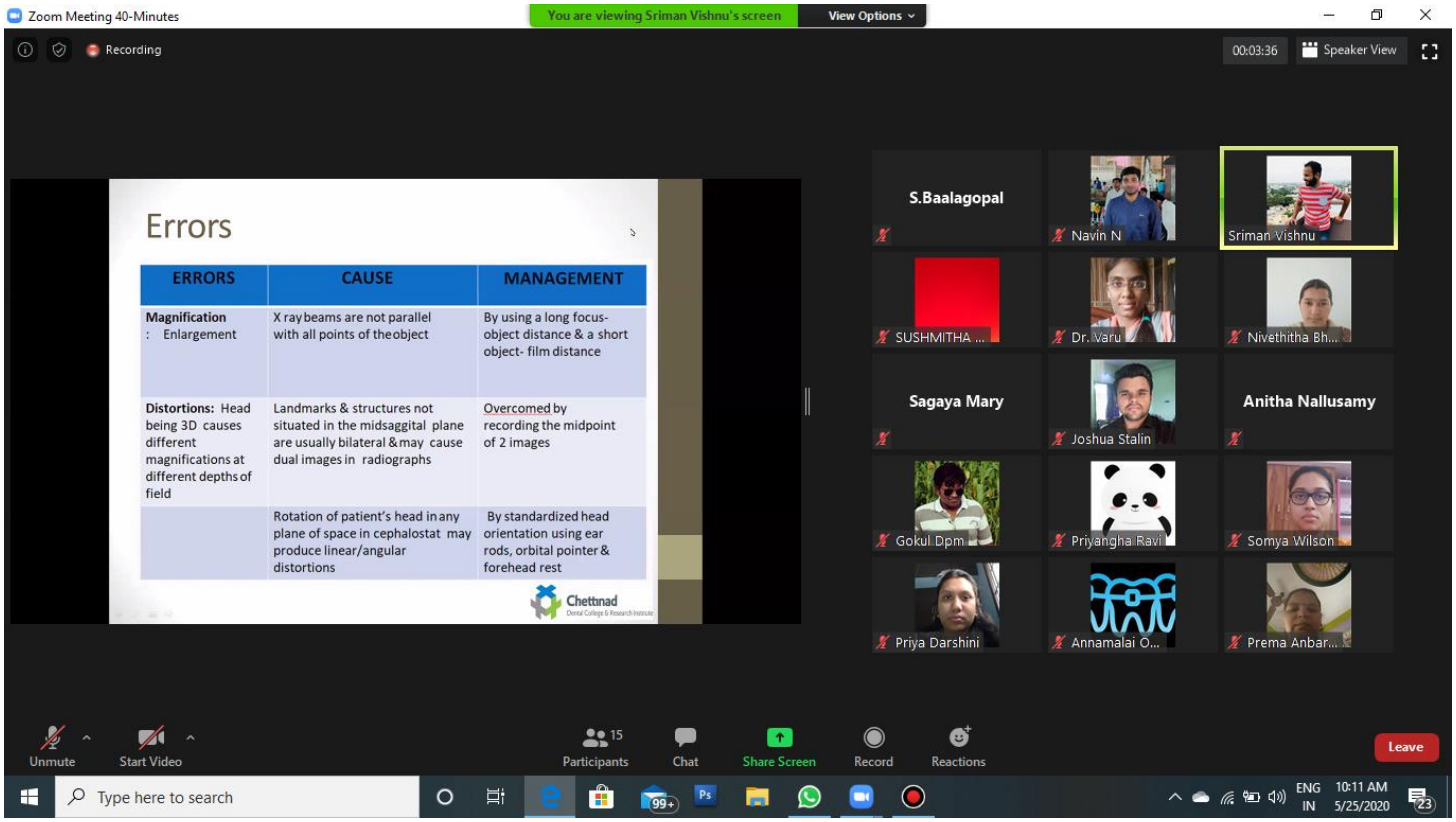


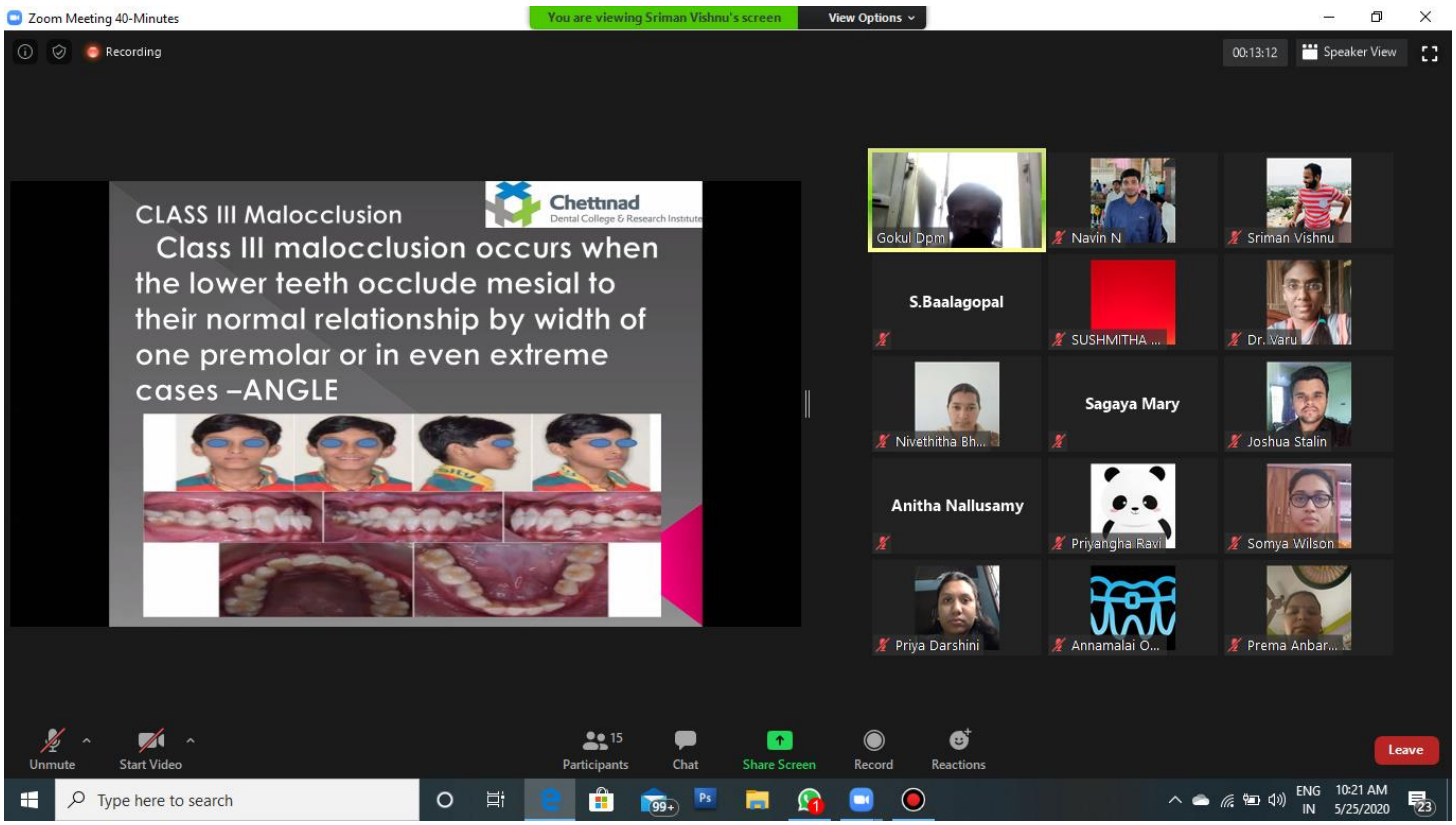

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Zoom Meeting 40-Minutes — You are viewing Sriman Vishnu's screen — View Options

Recording — 00:16:32 — Speaker View

- The lines AO and BO constructed by connecting Aand B perpendicular to occlusal plane
- The first tracing was superimposed on follow up making initial tracing as constant
- The points A and B on later follow up radiograph are located and the new lines AO and BO by connected with occlusal plane of the first tracing
- The distance between the A point in the two tracings gives the horizontal growth changes of maxilla similarly B point gives horizontal growth changes of mandible

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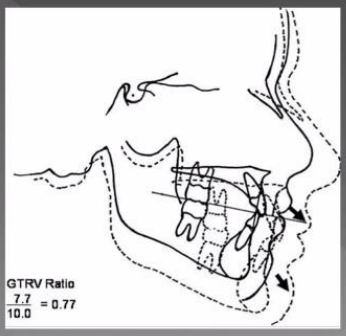
Gokul Dpm | Navin N | Sriman Vishnu
S.Baalagopal | SUSHMITHA ... | Dr. Varu
Nivethitha Bh... | Sagaya Mary | Joshua Stalin
Anitha Nallusamy | Priyangha Ravi | Somya Wilson
Priya Darshini | Annamalai O... | Prema Anbar...

Unmute | Start Video | 15 Participants | Chat | Share Screen | Record | Reactions | Leave

Type here to search — ENG IN 10:24 AM 5/25/2020

Zoom Meeting 40-Minutes — You are viewing Sriman Vishnu's screen — View Options

Recording — 00:17:05 — Speaker View




Gokul Dpm | Navin N | Sriman Vishnu
S.Baalagopal | SUSHMITHA ... | Dr. Varu
Nivethitha Bh... | Sagaya Mary | Joshua Stalin
Anitha Nallusamy | Priyangha Ravi | Somya Wilson
Priya Darshini | Annamalai O... | Prema Anbar...

Unmute | Start Video | 15 Participants | Chat | Share Screen | Record | Reactions | Leave

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## JC Presentation [Priyangha R]

me
To rsushmi@gmail.com
25 May at 11:05 am

2 attachments

bartzela2009.pdf
267.9kB

Effects of ... .pptx
516kB

Delete Move to Forward Reply More

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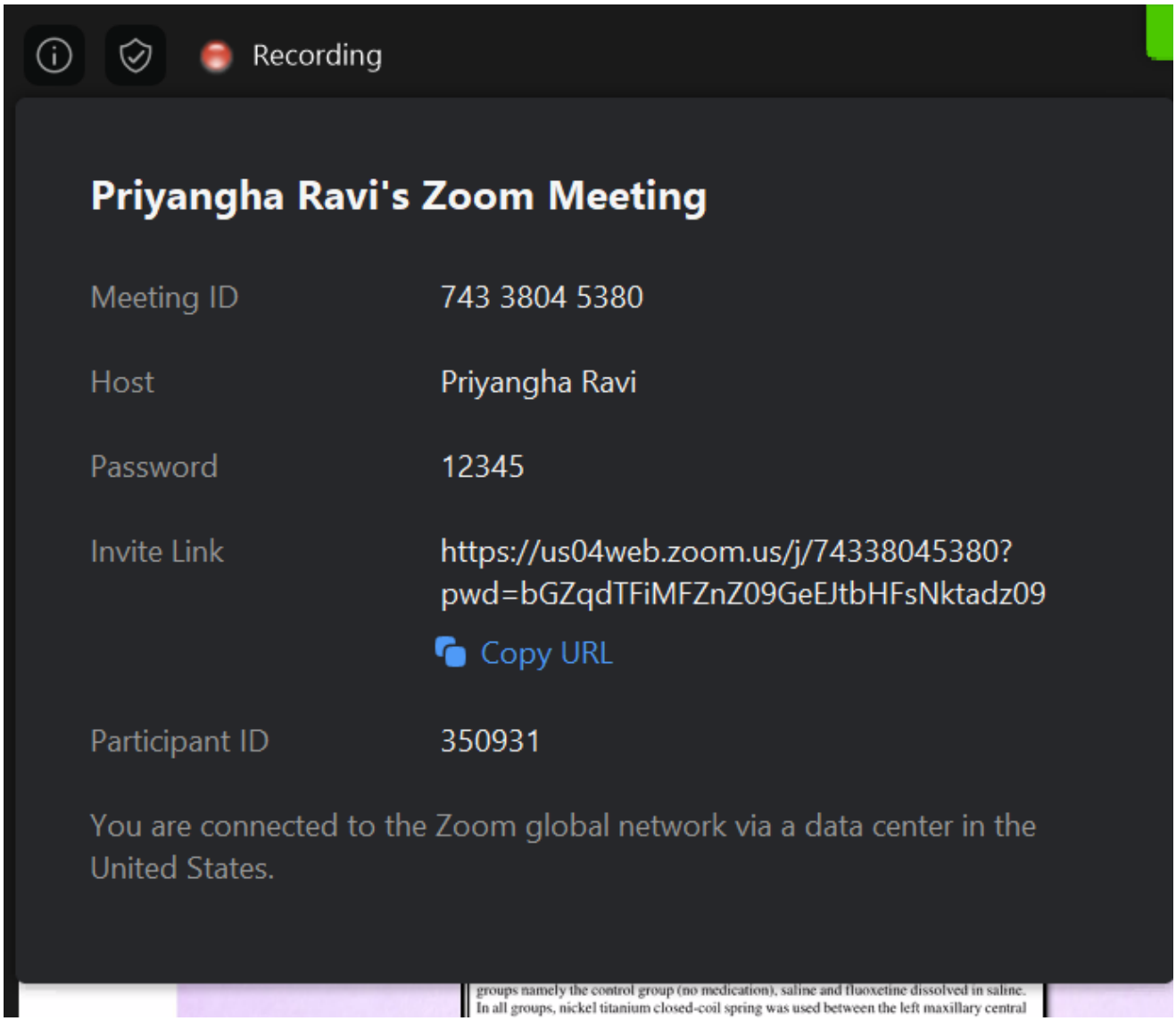
# DEPARTMENT OF ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

## E-Teaching/Learning sessions for Post Graduate

## Post Graduate academic schedule

| DATE | TOPIC | PRESENTER | PARTIPANTS |
|---|---|---|---|
| 26.05.2020 | Drugs in orthodontics | Dr.Priyangha | 17 |



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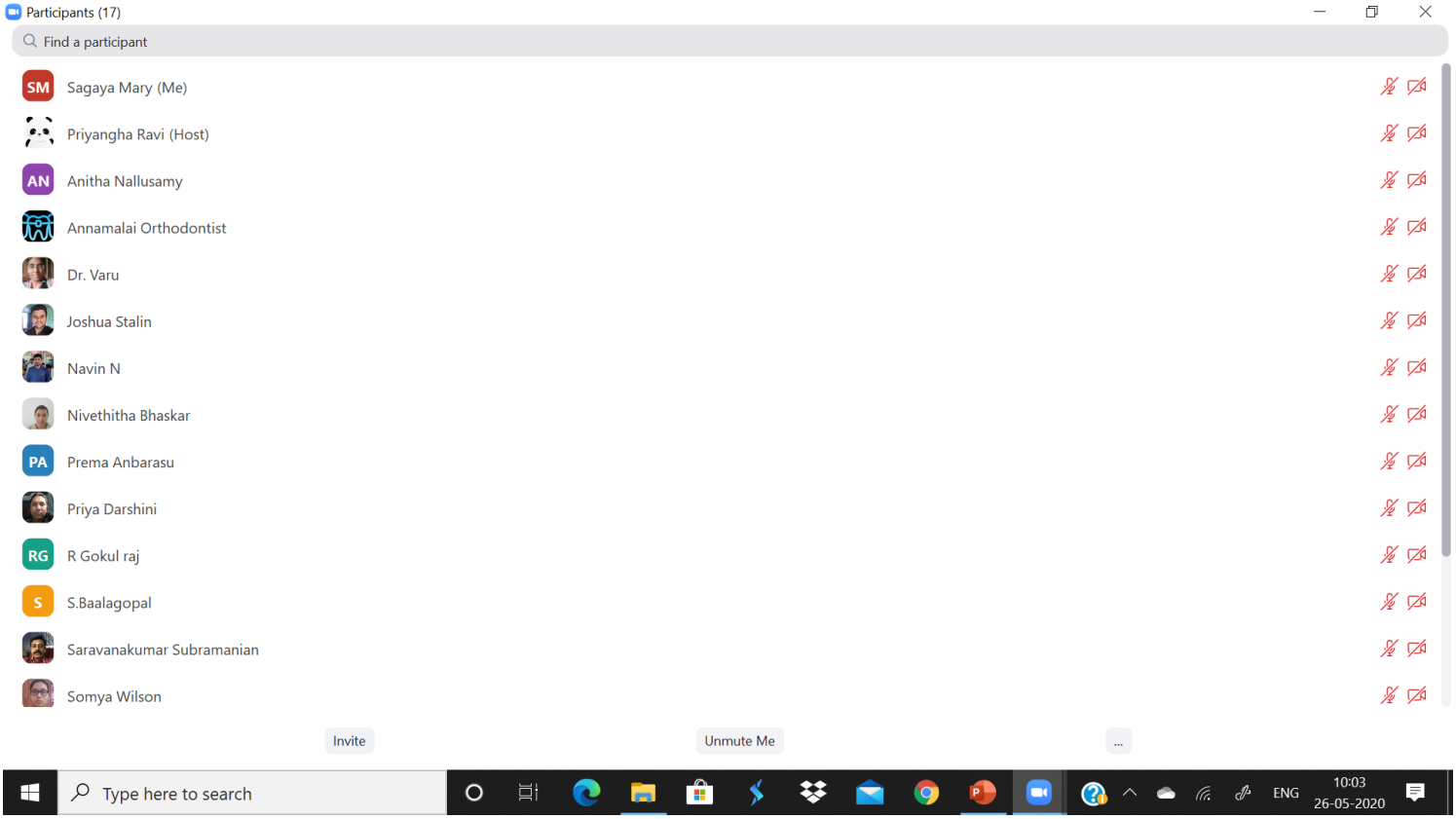


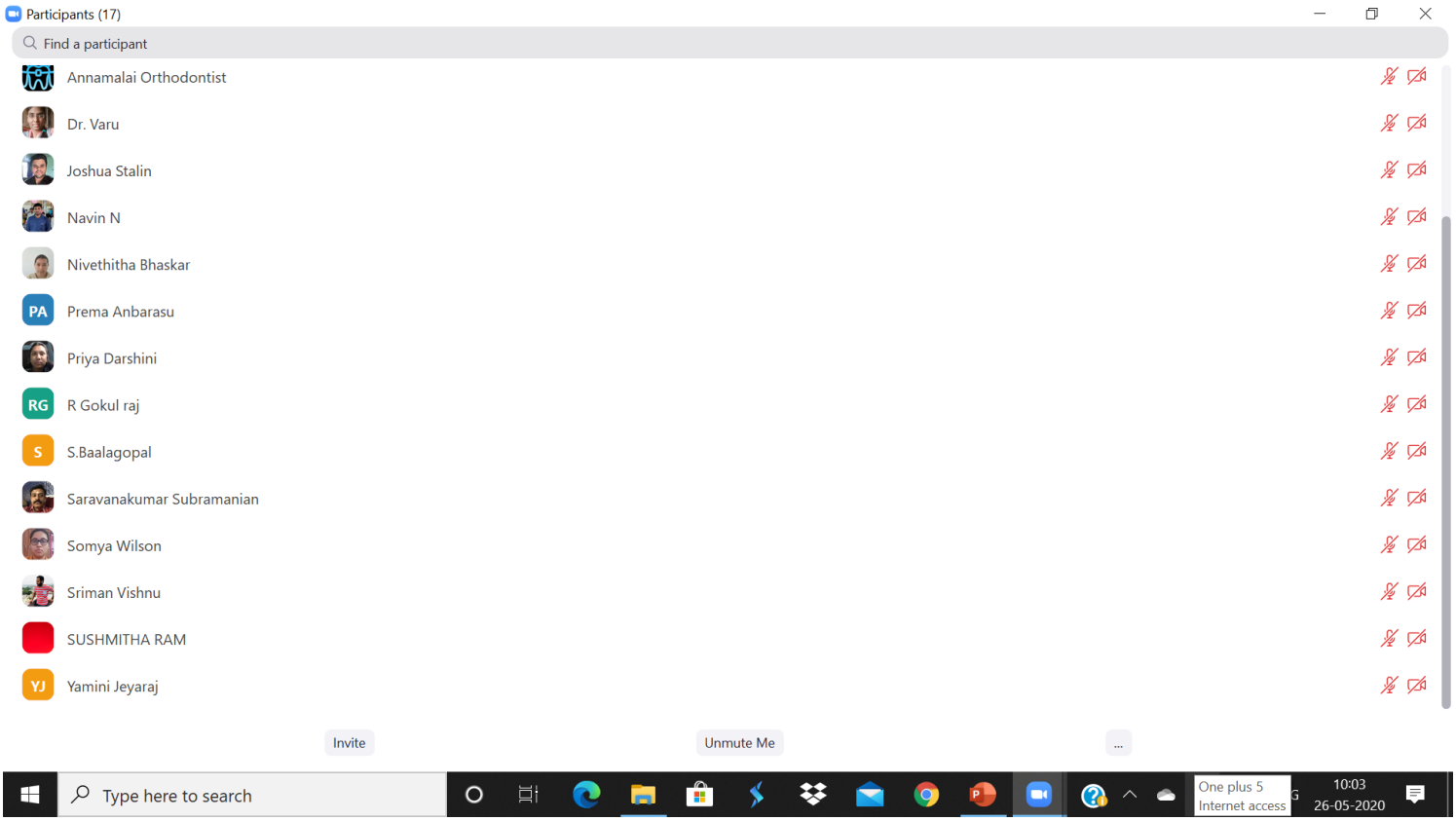

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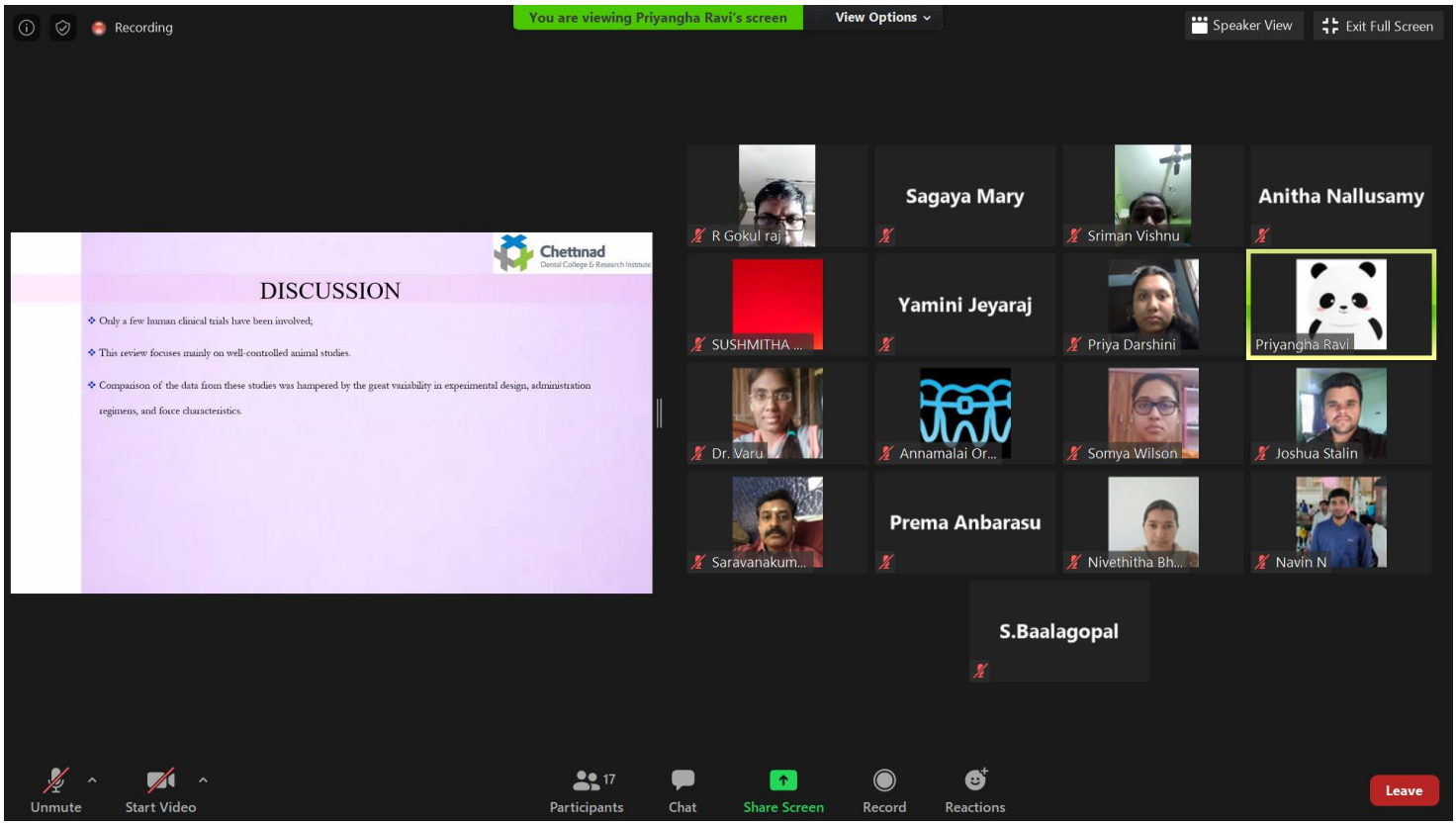


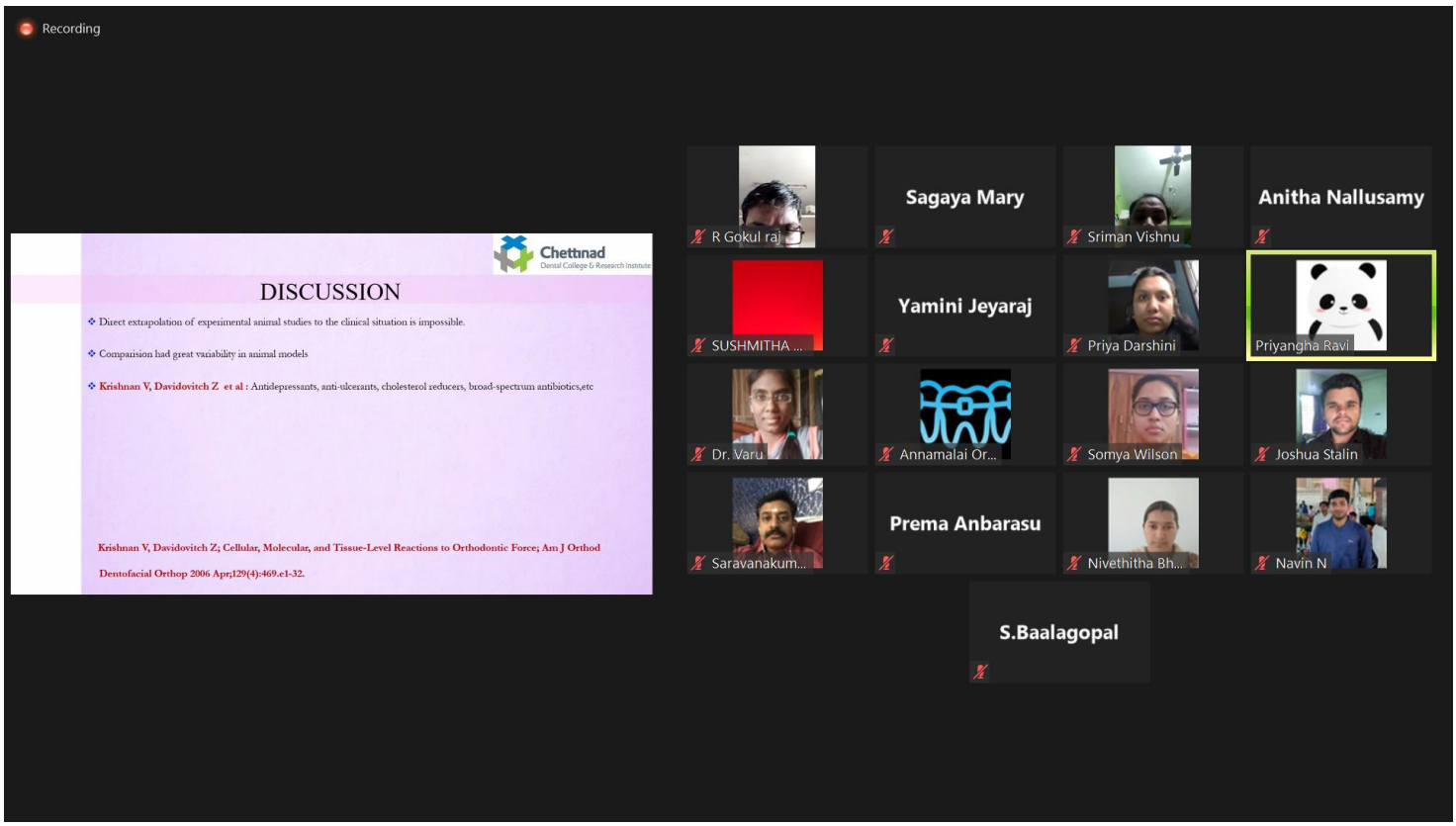

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Recording

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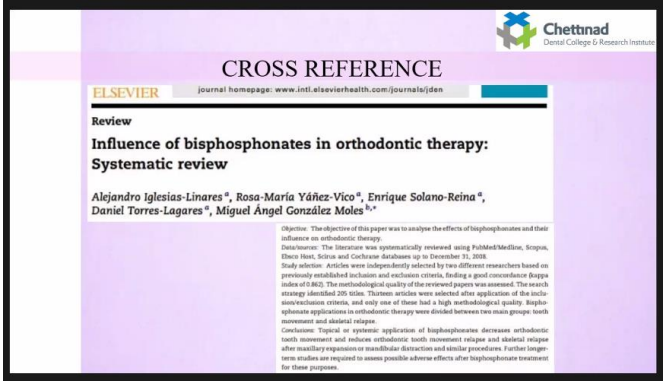

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CROSS REFERENCE

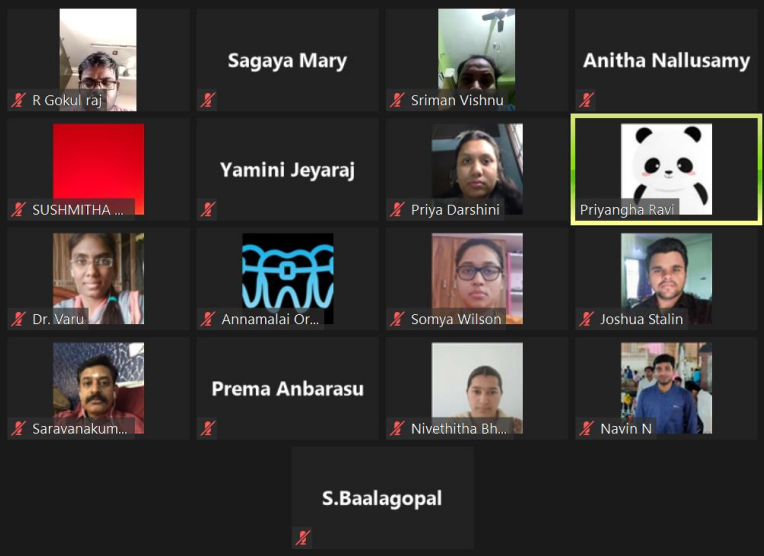
ELSEVIER journal homepage: www.intl.elsevierhealth.com/journals/jden

Review

**Influence of bisphosphonates in orthodontic therapy: Systematic review**

*Alejandro Iglesias-Linares [a], Rosa-María Yáñez-Vico [a], Enrique Solano-Reina [a], Daniel Torres-Lagares [a], Miguel Ángel González Moles [b,*]*

Objective: The objective of this paper was to analyse the effects of bisphosphonates and their influence on orthodontic therapy.
Data/sources: The literature was systematically reviewed using PubMed/Medline, Scopus, Ebsco Host, Scirus and Cochrane databases up to December 31, 2008.
Study selection: Articles were independently selected by two different researchers based on previously established inclusion and exclusion criteria, finding a good concordance (kappa index of 0.862). The methodological quality of the reviewed papers was assessed. The search strategy identified 205 titles. Thirteen articles were selected after application of the inclusion/exclusion criteria, and only one of these had a high methodological quality. Bisphosphonate applications in orthodontic therapy were divided between two main groups: tooth movement and skeletal relapse.
Conclusions: Topical or systemic application of bisphosphonates decreases orthodontic tooth movement and reduces orthodontic tooth movement relapse and skeletal relapse after maxillary expansion or mandibular distraction and similar procedures. Further longer-term studies are required to assess possible adverse effects after bisphosphonate treatment for these purposes.

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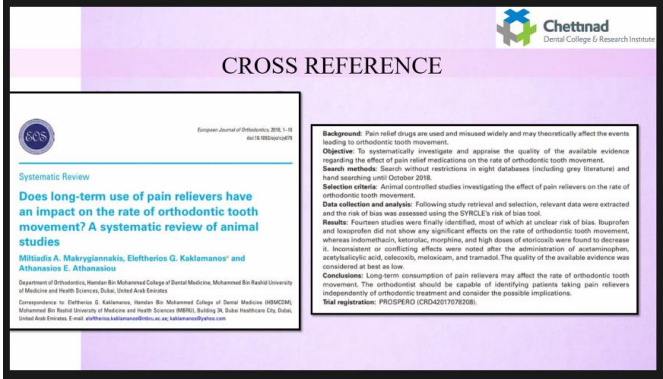

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CROSS REFERENCE



European Journal of Orthodontics, 2018, 1–10
doi:10.1093/ejo/cjy079

Systematic Review

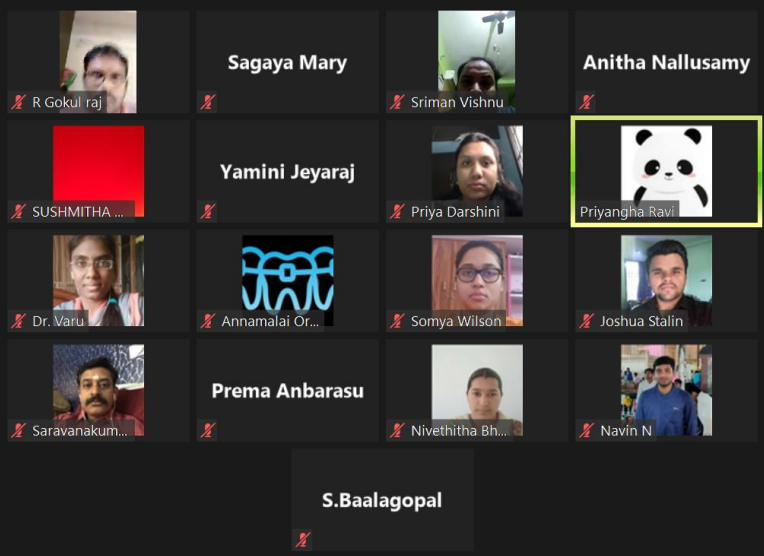
**Does long-term use of pain relievers have an impact on the rate of orthodontic tooth movement? A systematic review of animal studies**

Miltiadis A. Makrygiannakis, Eleftherios G. Kaklamanos* and Athanasios E. Athanasiou

Department of Orthodontics, Hamdan Bin Mohammed College of Dental Medicine, Mohammed Bin Rashid University of Medicine and Health Sciences, Dubai, United Arab Emirates

Correspondence to: Eleftherios G. Kaklamanos, Hamdan Bin Mohammed College of Dental Medicine (HBMCDM), Mohammed Bin Rashid University of Medicine and Health Sciences (MBRU), Building 14, Dubai Healthcare City, Dubai, United Arab Emirates. E-mail: eleftherios.kaklamanos@mbru.ac.ae; kaklamanos@yahoo.com

**Background:** Pain relief drugs are used and misused widely and may theoretically affect the events leading to orthodontic tooth movement.
**Objective:** To systematically investigate and appraise the quality of the available evidence regarding the effect of pain relief medications on the rate of orthodontic tooth movement.
**Search methods:** Search without restrictions in eight databases (including grey literature) and hand searching until October 2018.
**Selection criteria:** Animal controlled studies investigating the effect of pain relievers on the rate of orthodontic tooth movement.
**Data collection and analysis:** Following study retrieval and selection, relevant data were extracted and the risk of bias was assessed using the SYRCLE's risk of bias tool.
**Results:** Fourteen studies were finally identified, most of which at unclear risk of bias. Ibuprofen and loxoprofen did not show any significant effects on the rate of orthodontic tooth movement, whereas indomethacin, ketorolac, morphine, and high doses of etoricoxib were found to decrease it. Inconsistent or conflicting effects were noted after the administration of acetaminophen, acetylsalicylic acid, celecoxib, meloxicam, and tramadol. The quality of the available evidence was considered at best as low.
**Conclusions:** Long-term consumption of pain relievers may affect the rate of orthodontic tooth movement. The orthodontist should be capable of identifying patients taking pain relievers independently of orthodontic treatment and consider the possible implications.
**Trial registration:** PROSPERO (CRD42017078208).



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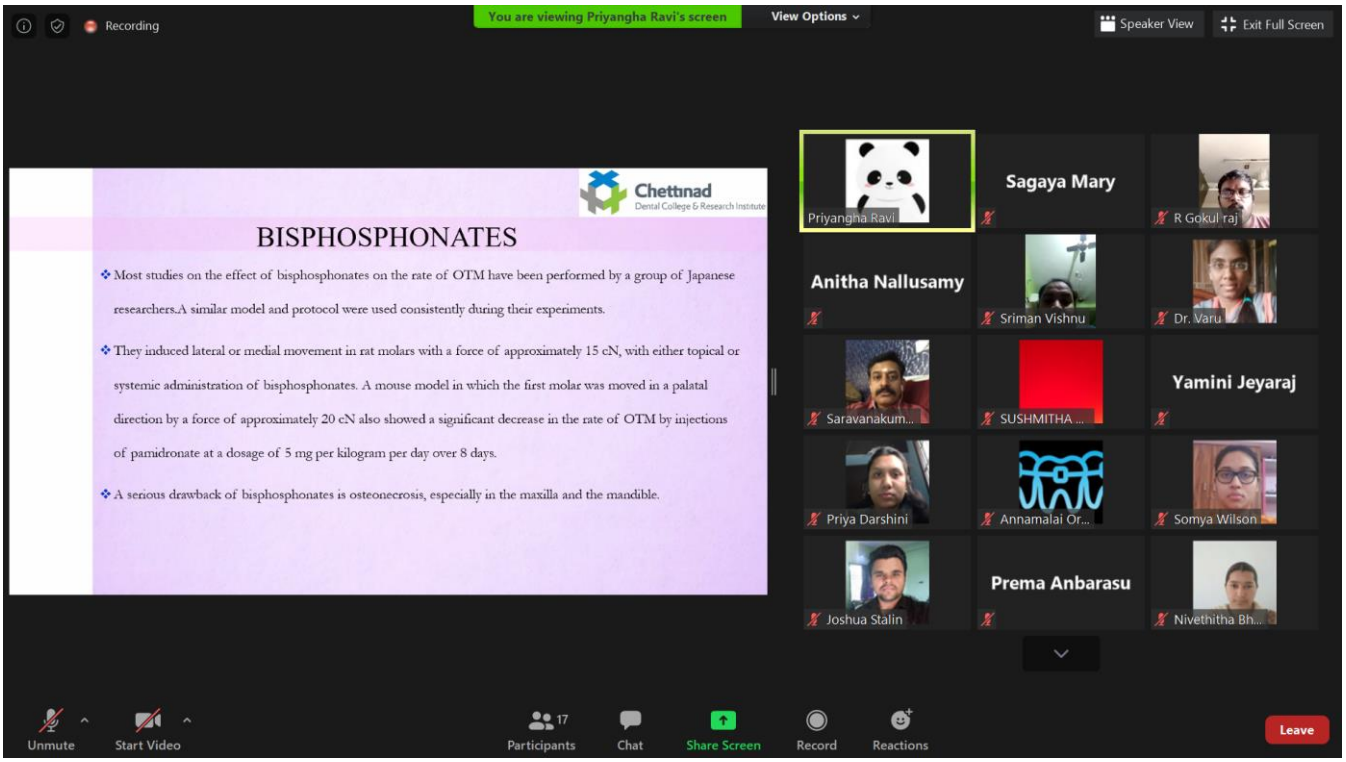


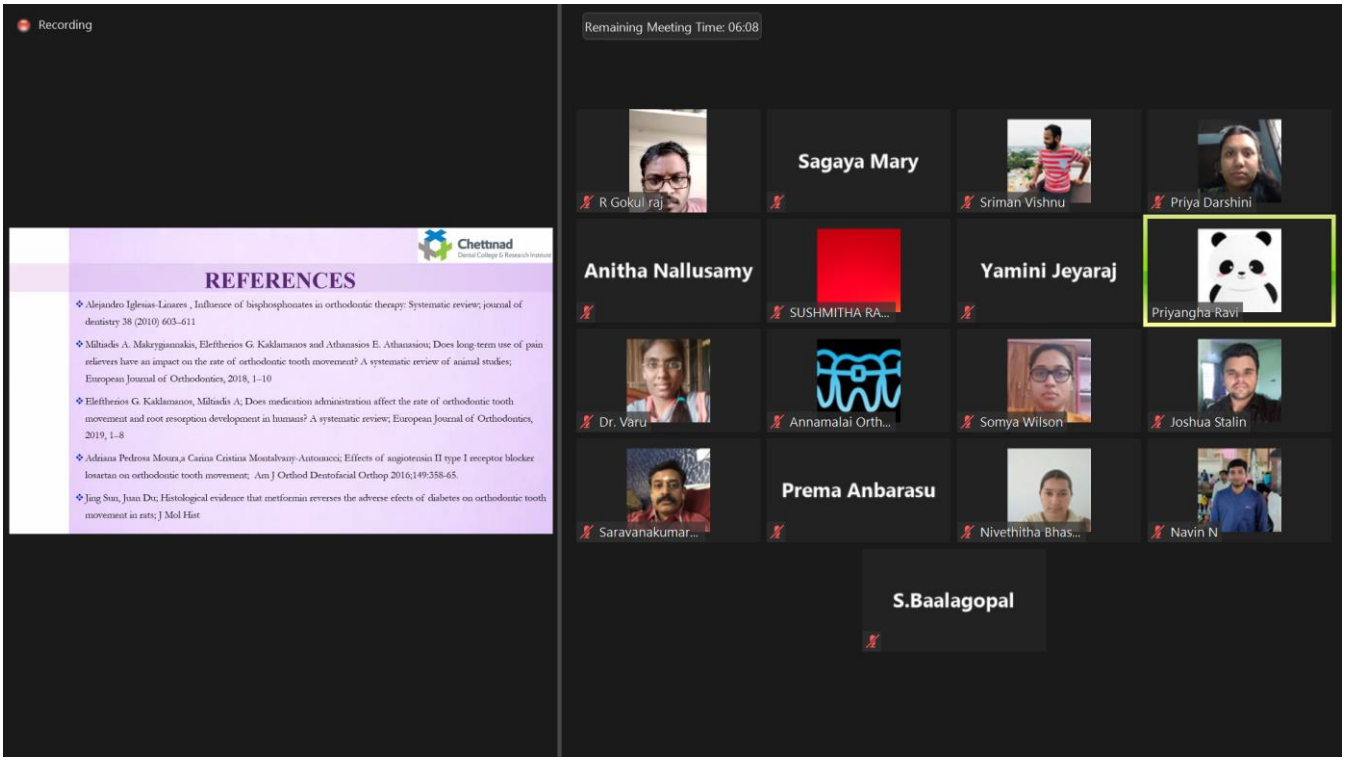

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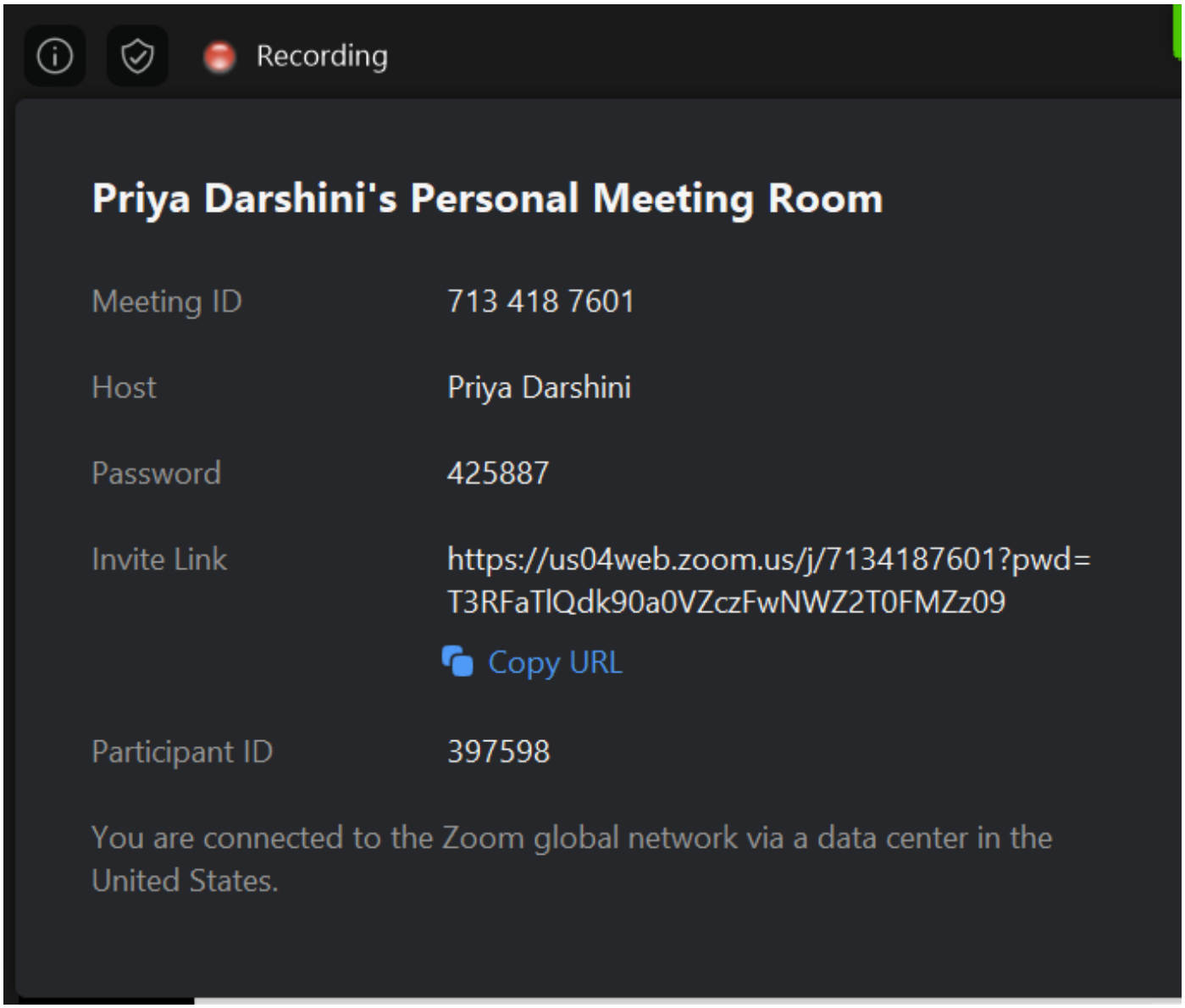
## DEPARTMENT OF ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

### E-Teaching/Learning sessions for Post Graduate

### Post Graduate academic schedule

| DATE | TOPIC | PRESENTER | PARTIPANTS |
|---|---|---|---|
| 27.05.2020 | Micro and Macro esthetics | Dr.priyadharshini | 16 |



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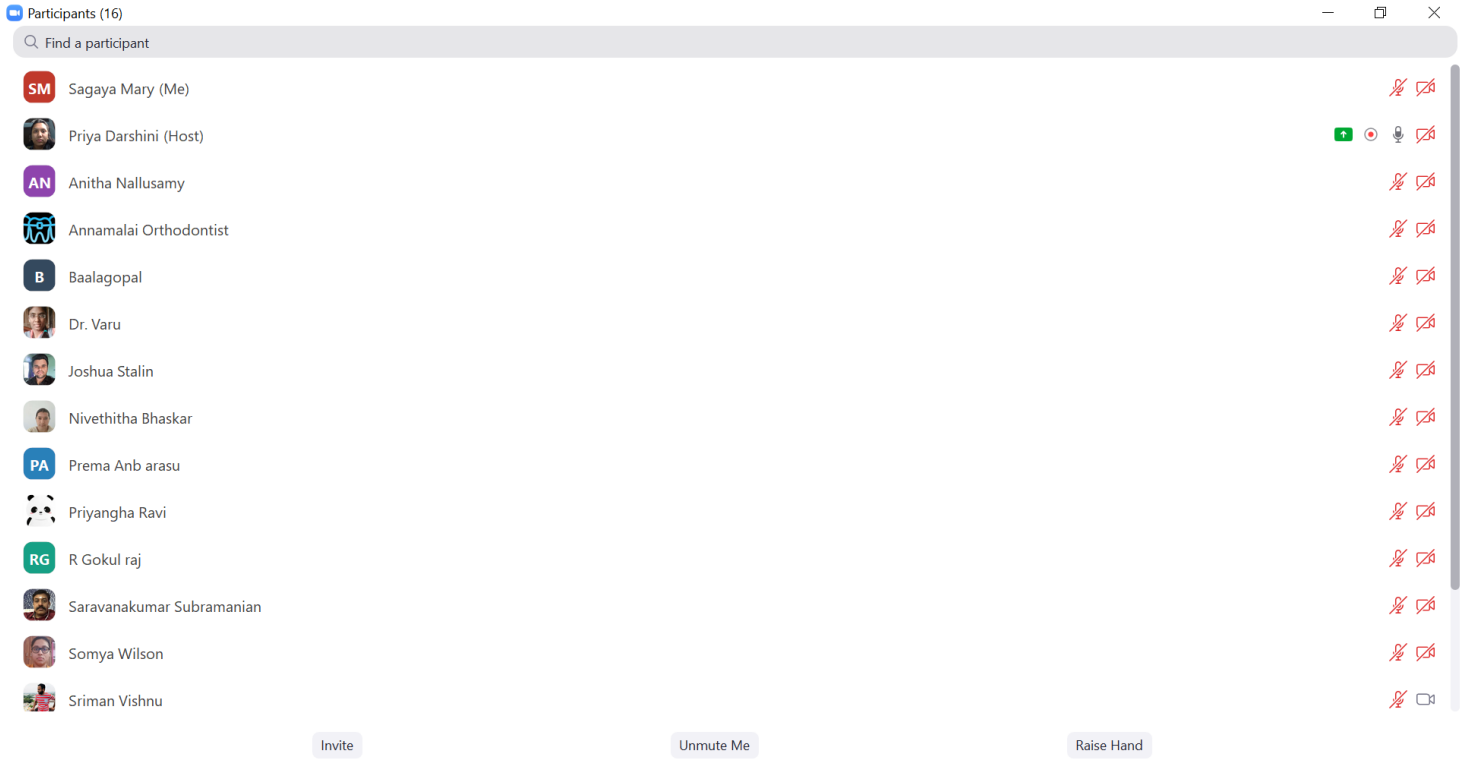


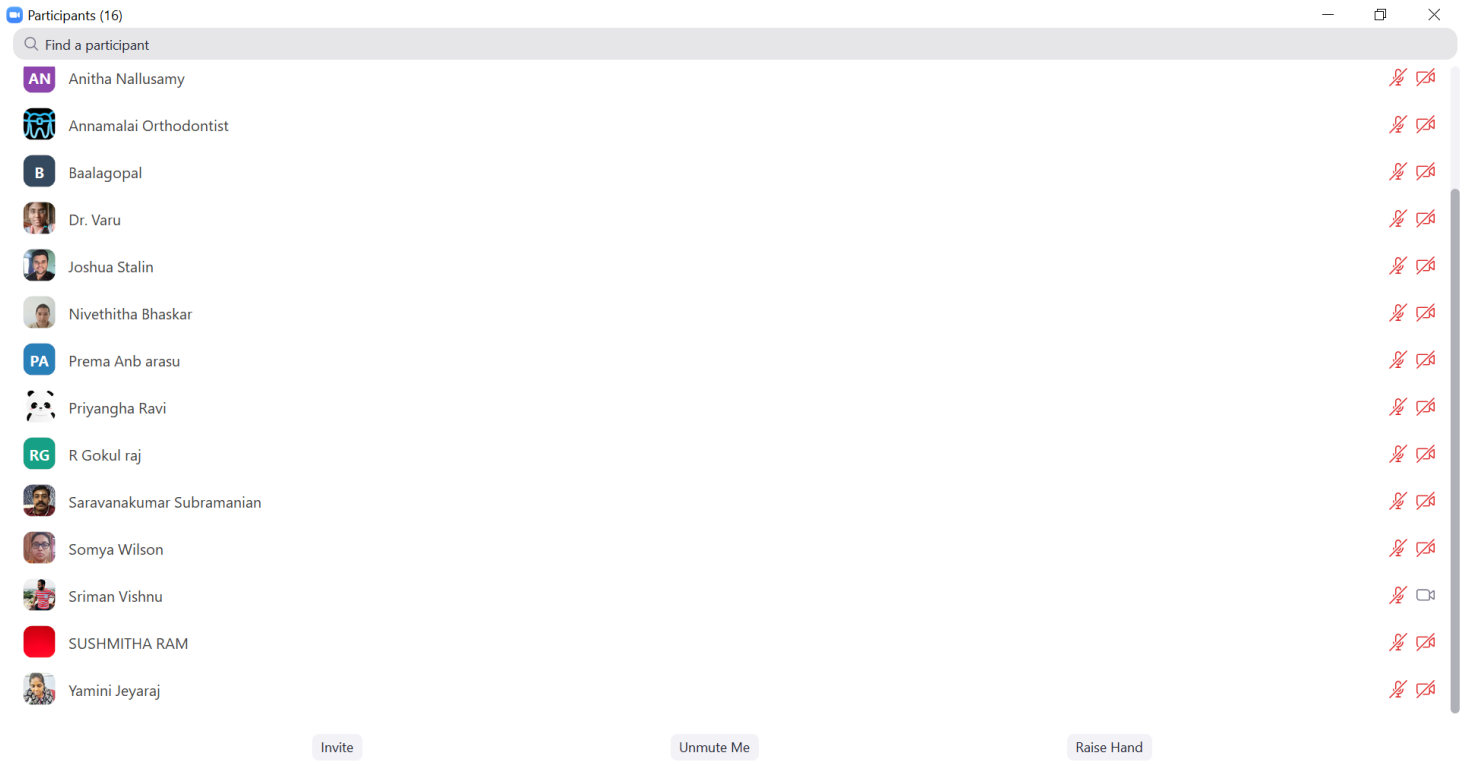

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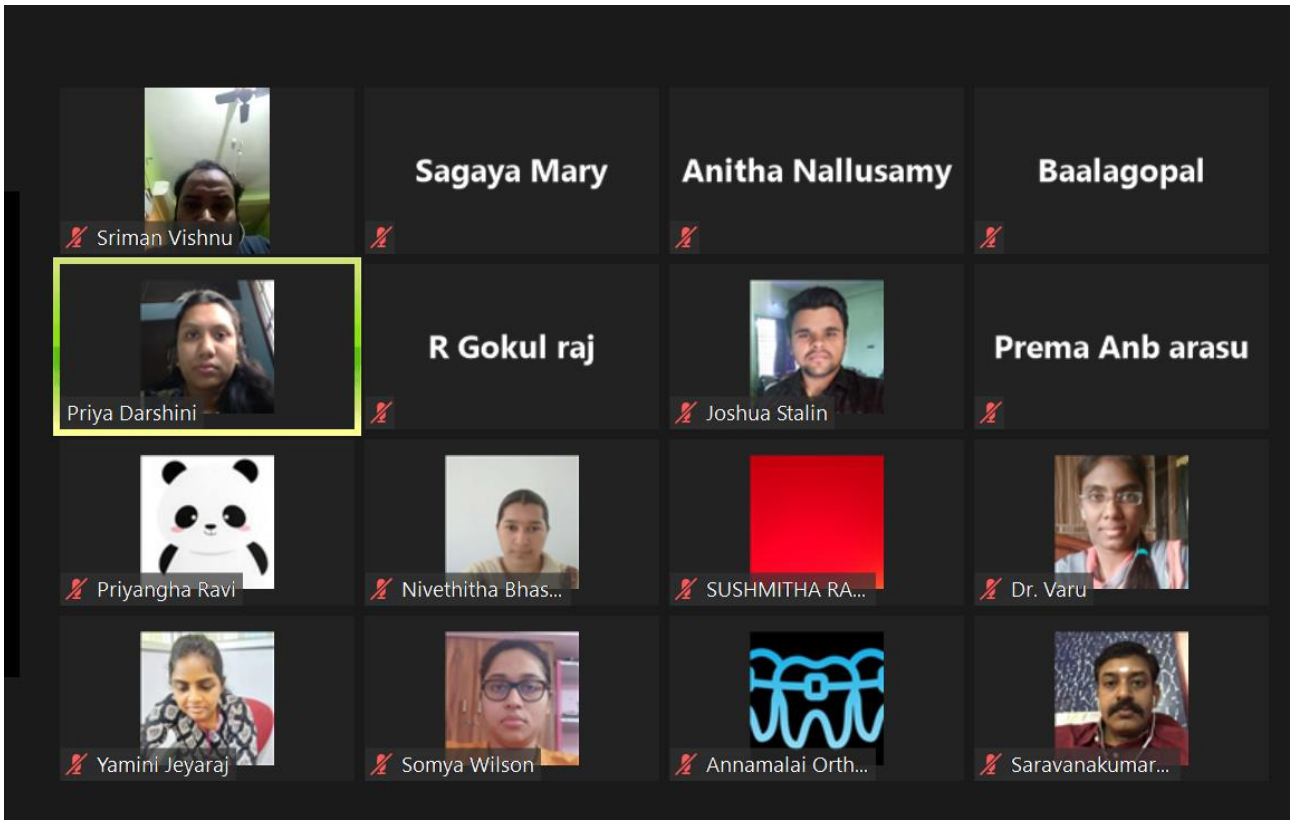


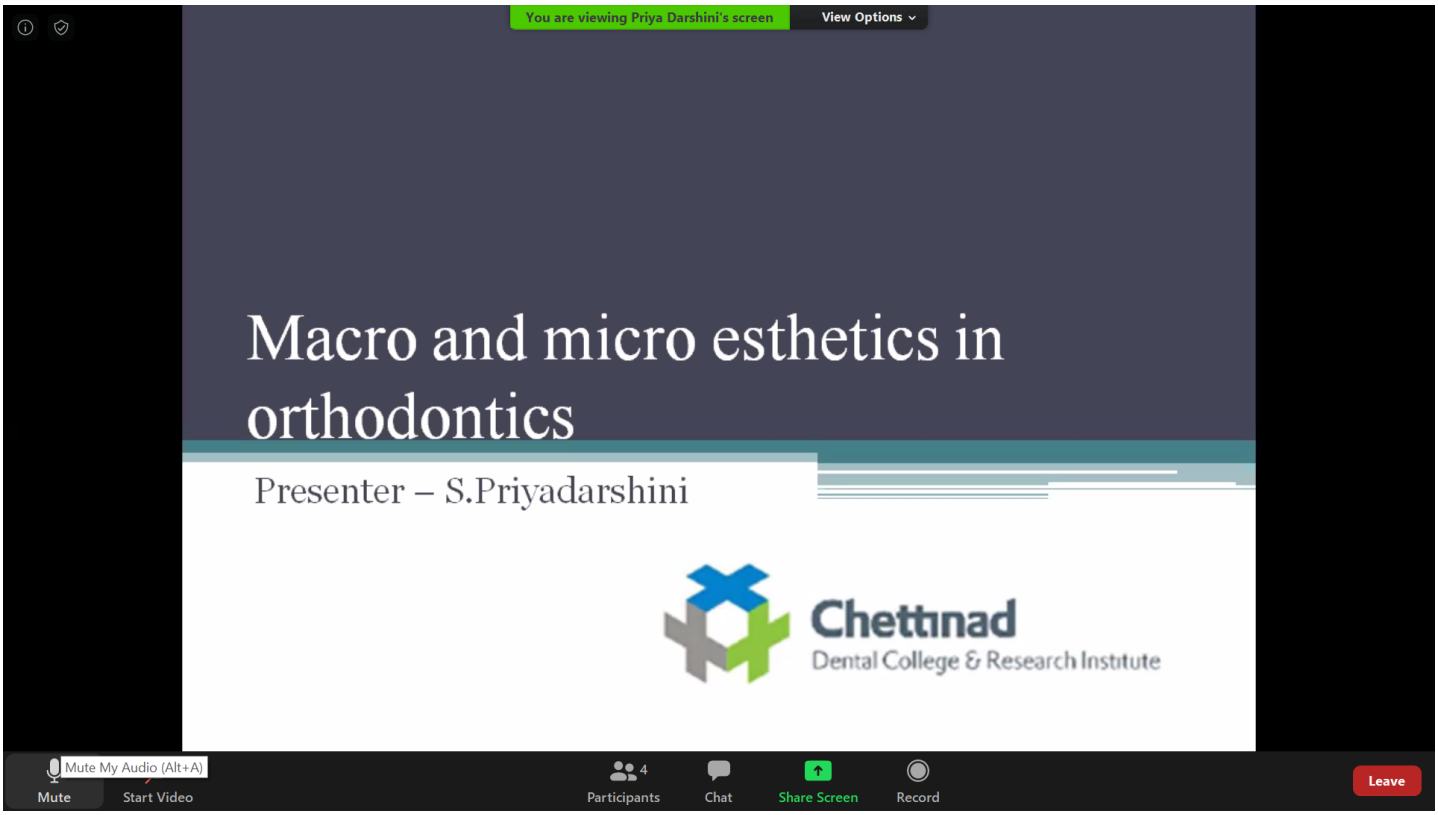

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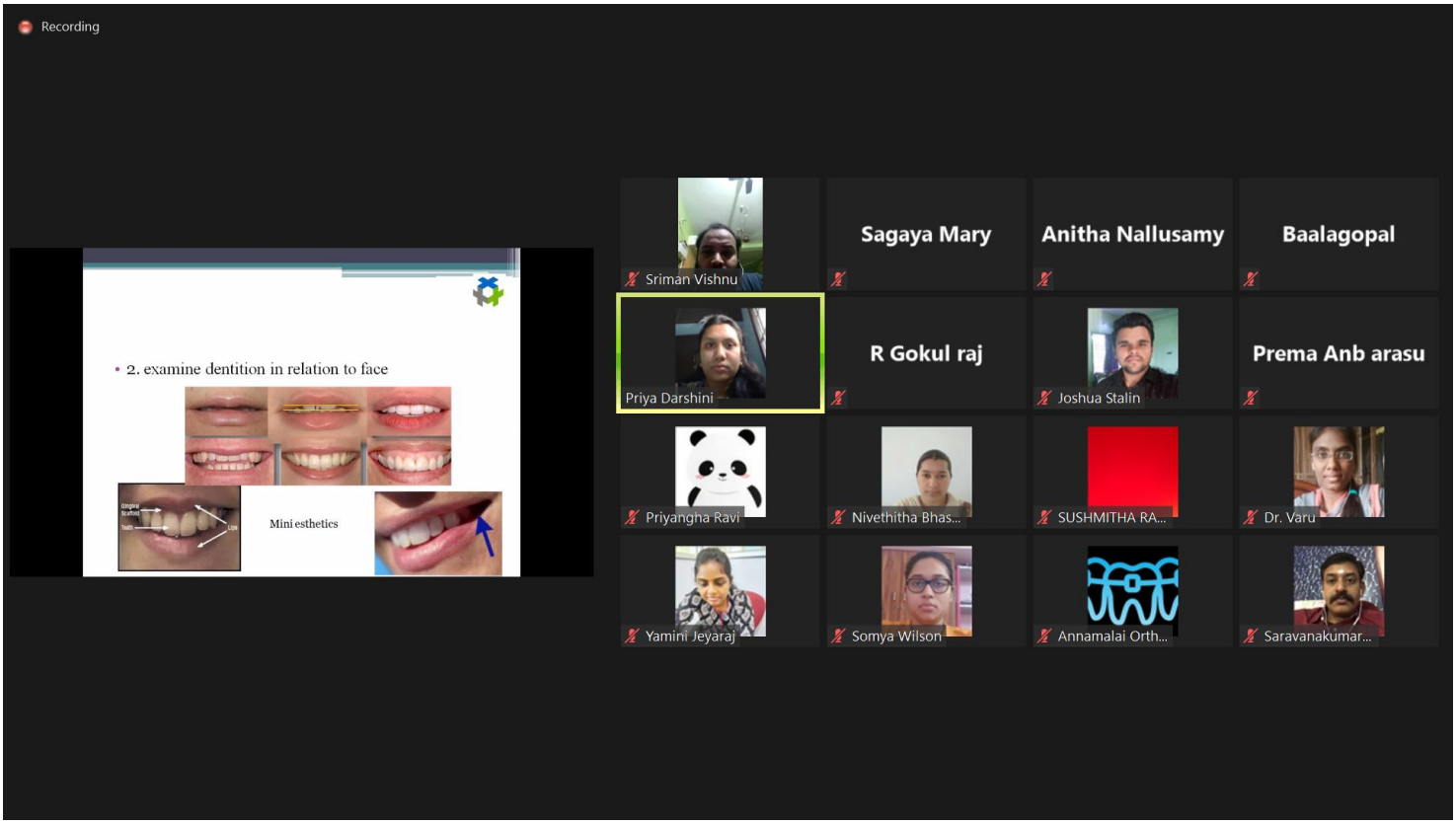


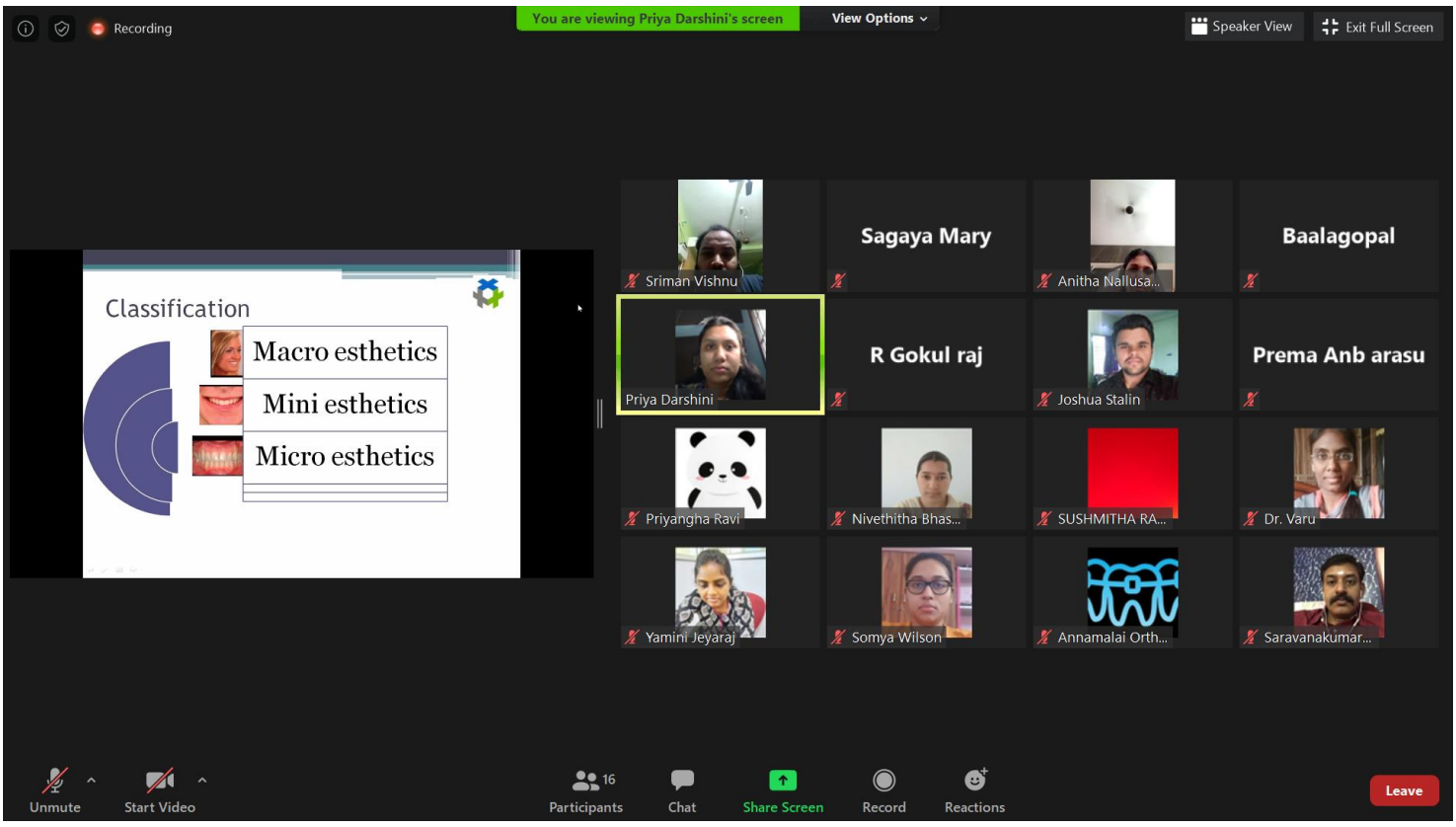

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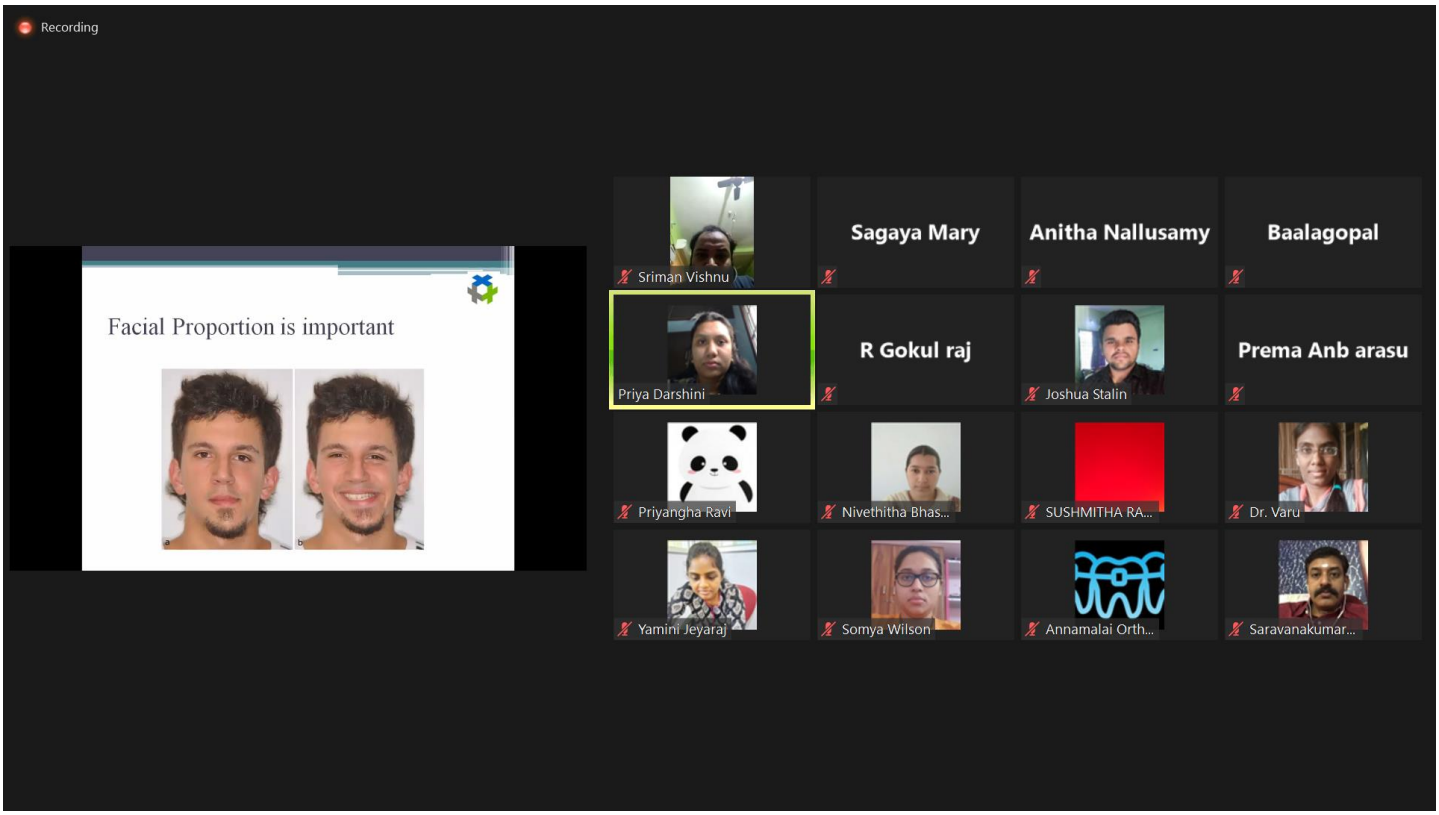


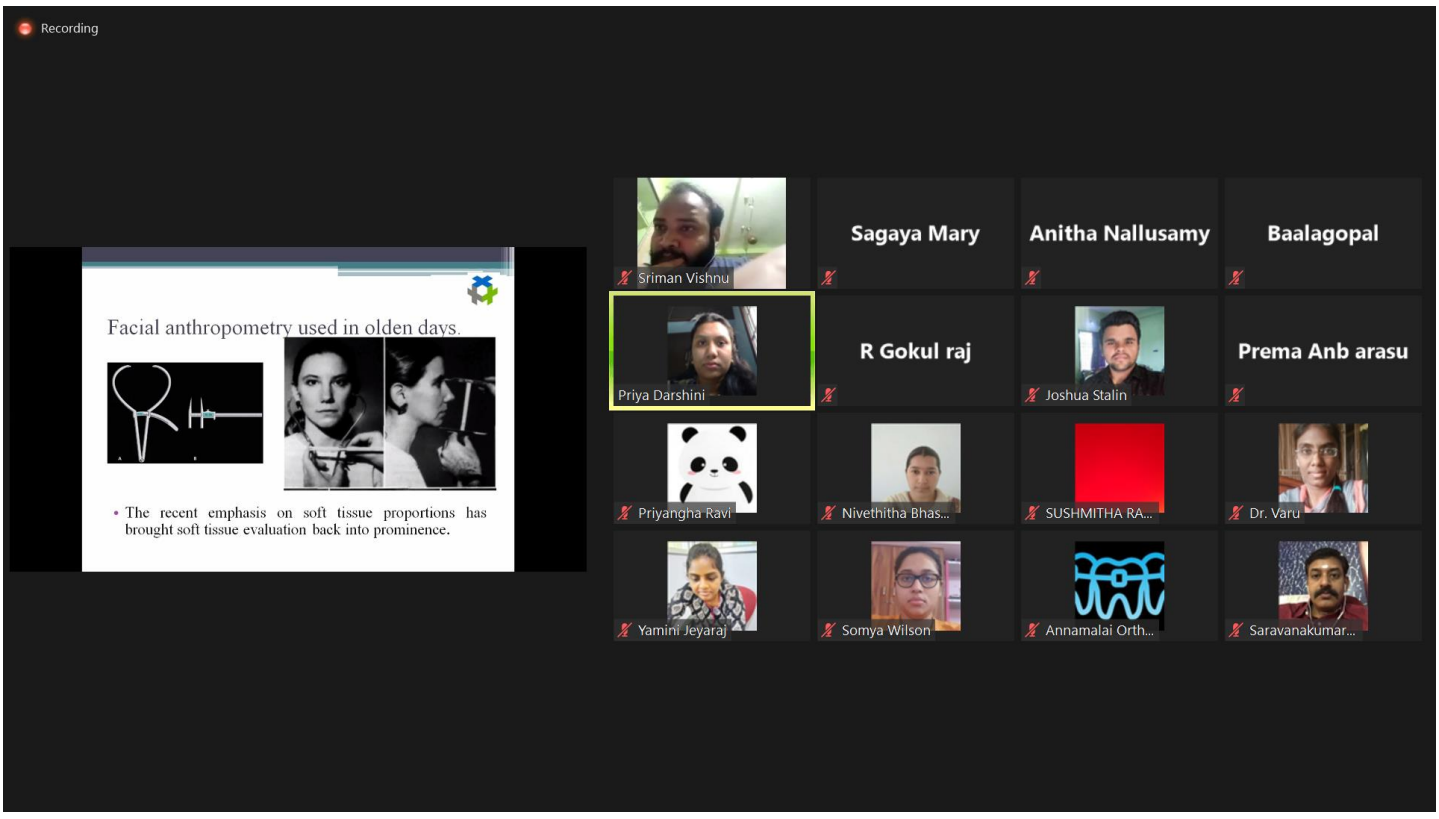

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Recording

## Facial indices

TABLE 6-3 *Facial Anthropometric Measurements (Young Adults)*

| Parameter | Male | Female |
|---|---|---|
| Zygomatic width (zy-zy) (mm) | 137 (4.3) | 130 (5.3) |
| Gonial width (go-go) | 97 (6.8) | 91 (5.9) |
| Intercanthal distance | 33 (2.7) | 32 (2.4) |
| Pupil-midfacial distance | 33 (2.0) | 31 (1.8) |
| Nasal base width | 35 (2.8) | 31 (1.9) |
| Mouth width | 53 (3.3) | 50 (3.2) |
| Face height (N-gn) | 121 (6.8) | 112 (6.2) |
| Lower face height (subnasale-gn) | 72 (6.0) | 66 (4.6) |
| Upper lip vermilion | 8.9 (1.5) | 8.4 (1.3) |
| Lower lip vermilion | 10.4 (1.9) | 9.7 (1.6) |
| Nasolabial angle (degrees) | 99 (9.0) | 99 (8.7) |
| Nasofrontal angle (degrees) | 131 (6.1) | 134 (1.8) |

From Farkas LG: *Anthropometry of the head and face in medicine.* New York, Elsevier Science Publishing Co.
Measurements are illustrated in Figure 6-10.
Standard deviation is in parenthesis.

TABLE 6-4 *Facial Indices (Young Adults)*

| Index | Measurements | Male | Female |
|---|---|---|---|
| Facial | n-gn/zy-zy | 98.6 (5.1) | 96.2 (4.6) |
| Mandible-face width | go-go/zy-zy | 70.8 (3.8) | 70.1 (4.2) |
| Upper face | n-sto-/zy-zy | 54.0 (3.1) | 52.4 (3.1) |
| Mandibular width—face height | go-go/n-gn | 80.3 (6.8) | 81.7 (6.0) |
| Mandibular | sto-gn/go-go | 51.8 (6.2) | 49.8 (4.8) |
| Mouth-face width | ch-ch × 100/zy-zy | 38.9 (2.5) | 38.4 (2.5) |
| Lower face—face height | sn-gn/n-gn | 59.2 (2.7) | 58.6 (2.9) |
| Mandible-face height | sto-gn/n-gn | 41.2 (2.3) | 40.4 (2.1) |
| Mandible-upper face height | sto-ng/n-sto | 67.7 (5.3) | 66.5 (4.5) |
| Mandible-lower face height | sto-ng/sn-gn | 69.8 (2.7) | 69.1 (2.8) |
| Chin-face height | sl-gn × 100/sn-gn | 25.0 (2.4) | 25.4 (1.9) |

From Farkas LG, Munro IR: *Anthropometric facial proportions in medicine*, Springfield, IL 1987, Charles C Thomas.
Standard deviation is in parenthesis.

Sriman Vishnu | Sagaya Mary | Anitha Nallusamy | Baalagopal
Priya Darshini | R Gokul raj | Joshua Stalin | Prema Anb arasu
Priyangha Ravi | Nivethitha Bhas... | SUSHMITHA RA... | Dr. Varu
Yamini Jeyaraj | Somya Wilson | Annamalai Orth... | Saravanakumar...

Recording

Remaining Meeting Time: 09:17

With the head in this position, note the relationship between two lines, one dropped from the bridge of the nose to the base of the upper lip, and a second one extending from that point downward to the chin

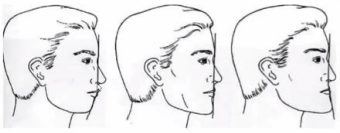


FIGURE 6-11 Profile convexity or concavity results from a disproportion in the size of the jaws, but does not by itself indicate which jaw is at fault. A convex facial profile (A) indicates a Class II jaw relationship, which can result from either a maxilla that projects too far forward or a mandible too far back. A concave profile (C) indicates a Class III relationship, which can result from either a maxilla that is too far back or a mandible that protrudes forward.

Sriman Vishnu | Sagaya Mary | Anitha Nallusamy | Baalagopal
Priya Darshini | R Gokul raj | Joshua Stalin | Prema Anb arasu
Priyangha Ravi | Nivethitha Bhas... | SUSHMITHA RA... | Dr. Varu
Yamini Jeyaraj | Somya Wilson | Annamalai Orth... | Saravanakumar...

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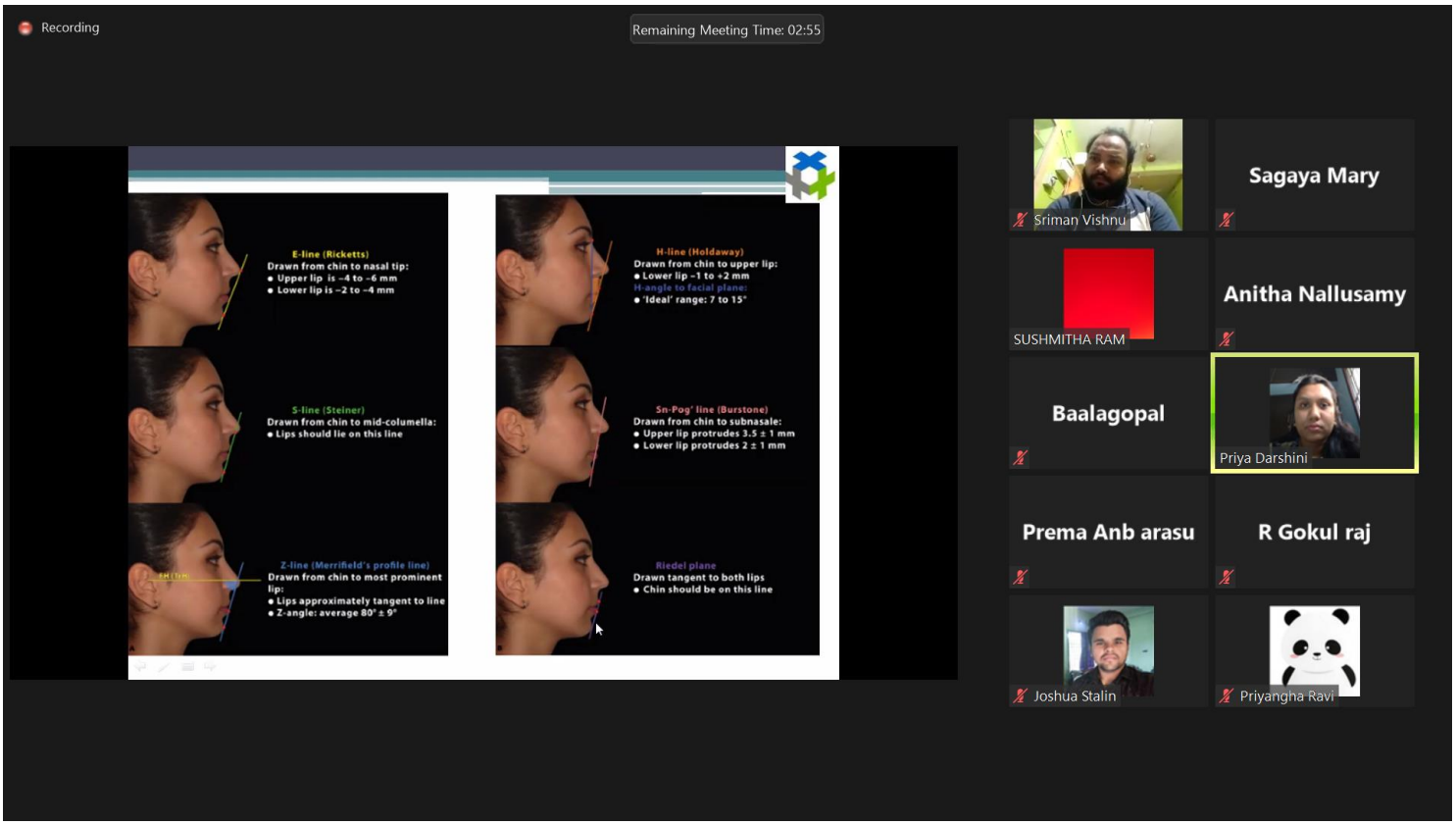


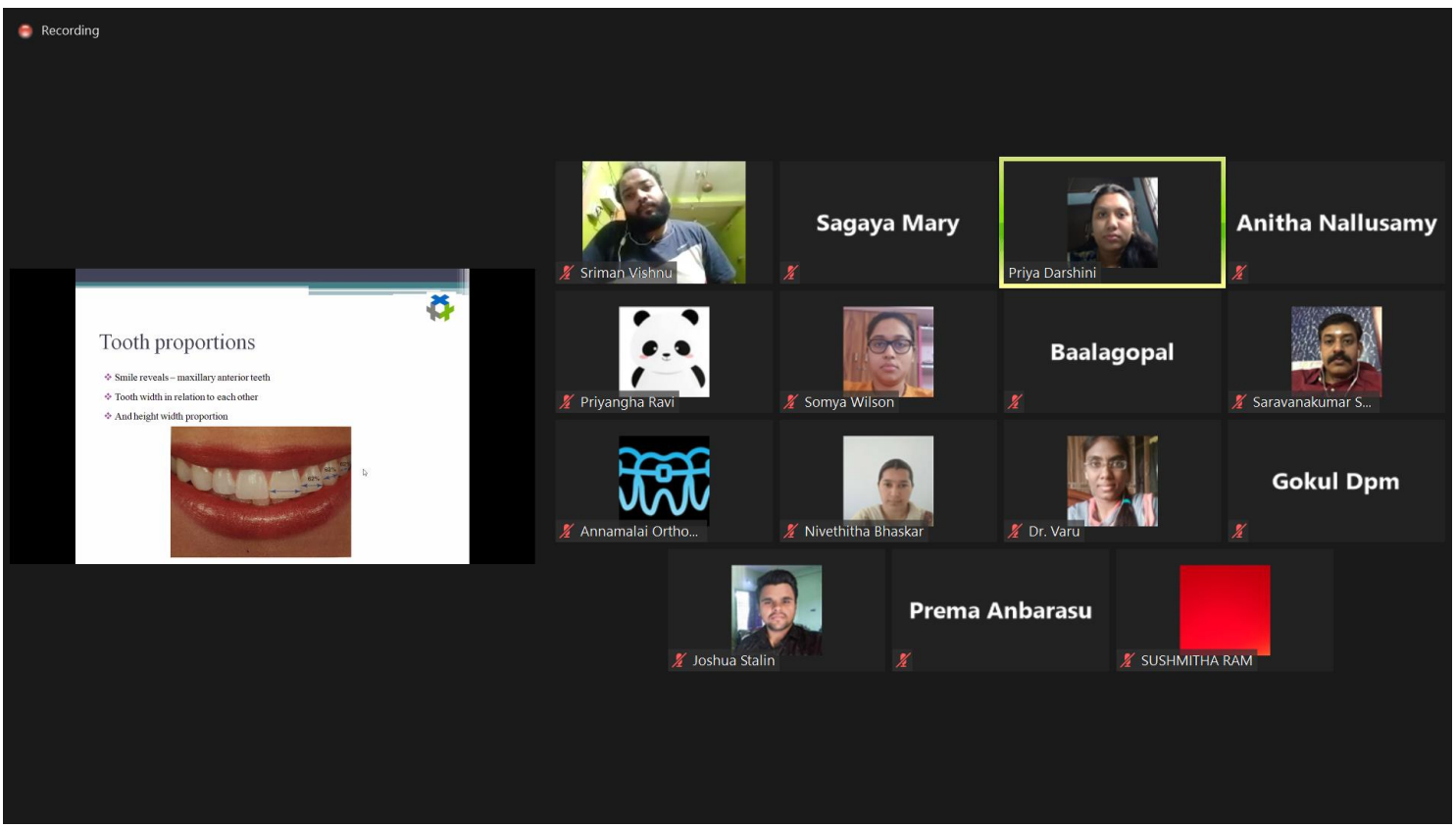

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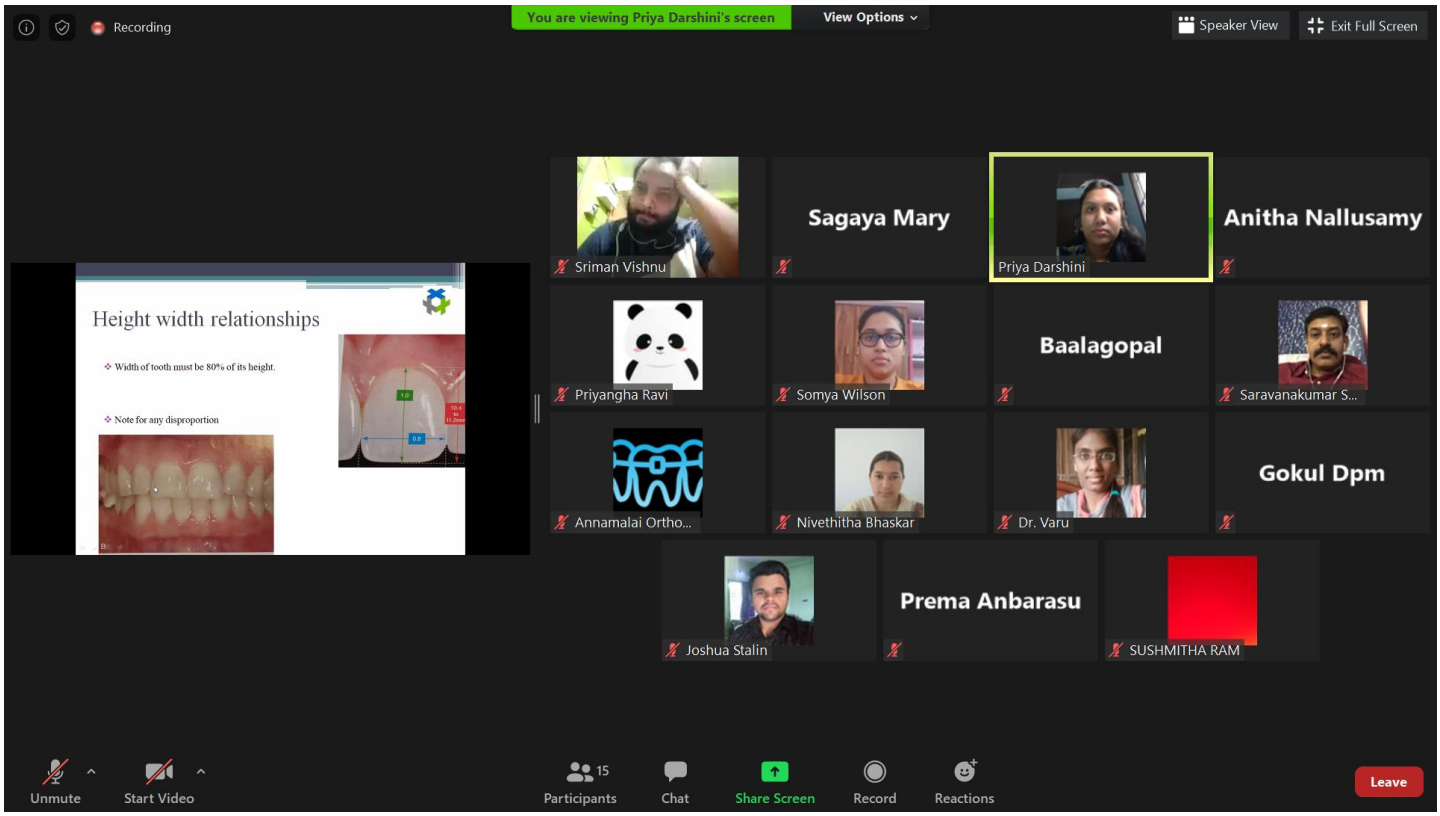


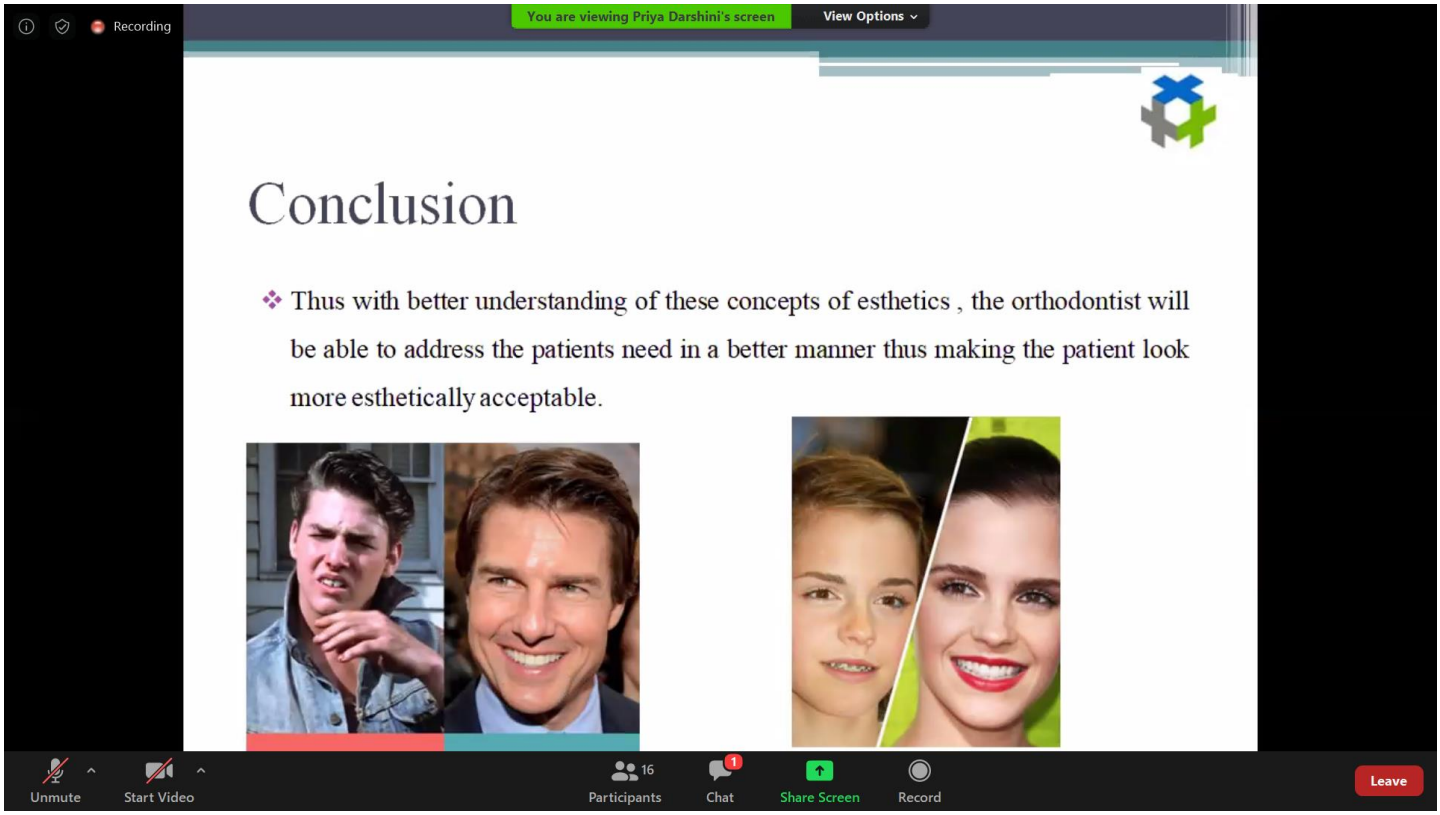

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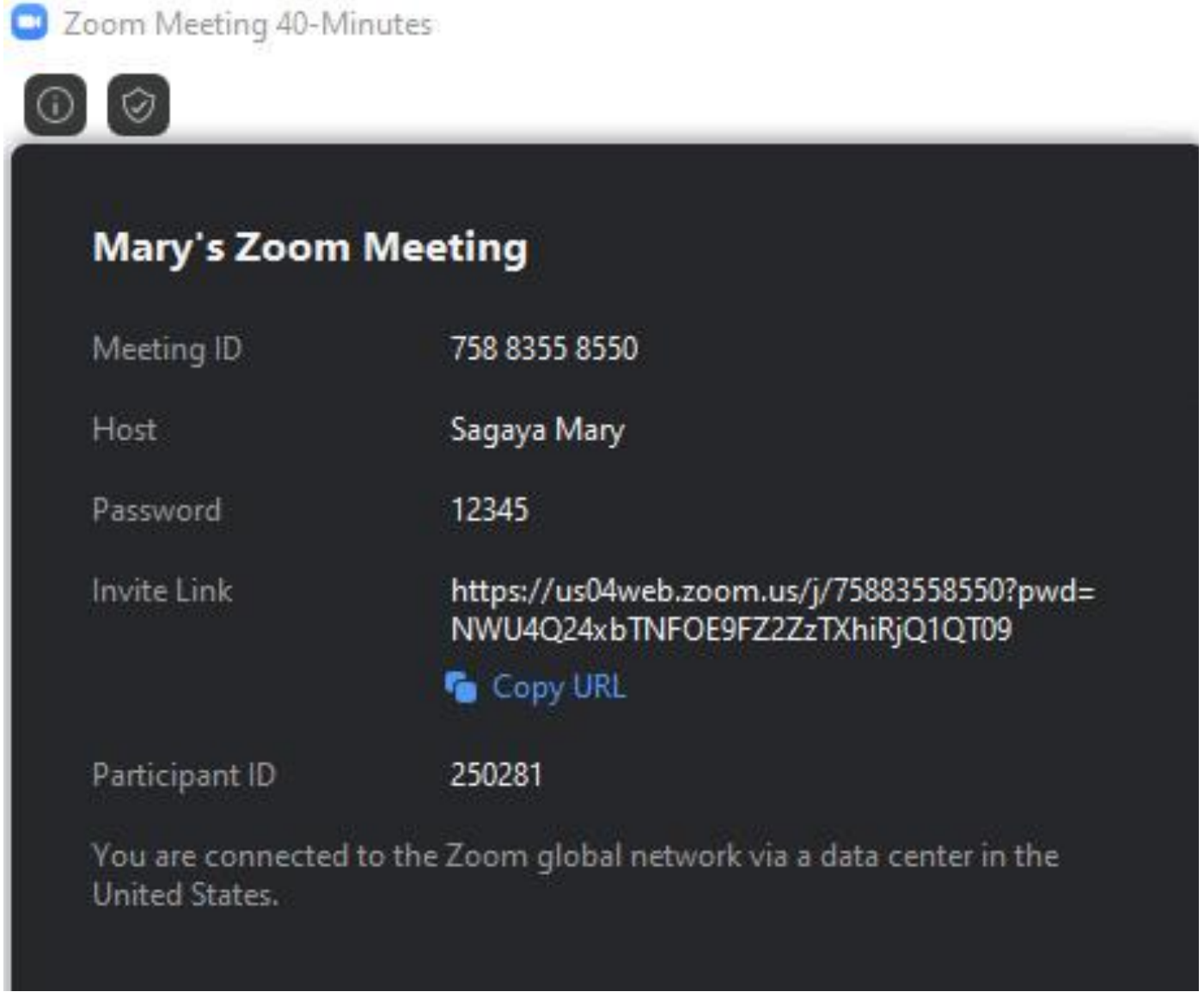
# DEPARTMENT OF ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

## E-Teaching/Learning sessions for Post Graduate

## Post Graduate academic schedule

| DATE | TOPIC | PRESENTER | PARTIPANTS |
|---|---|---|---|
| 28.05.2020 | Growth prediction | Dr.sagaya mary | 16 |



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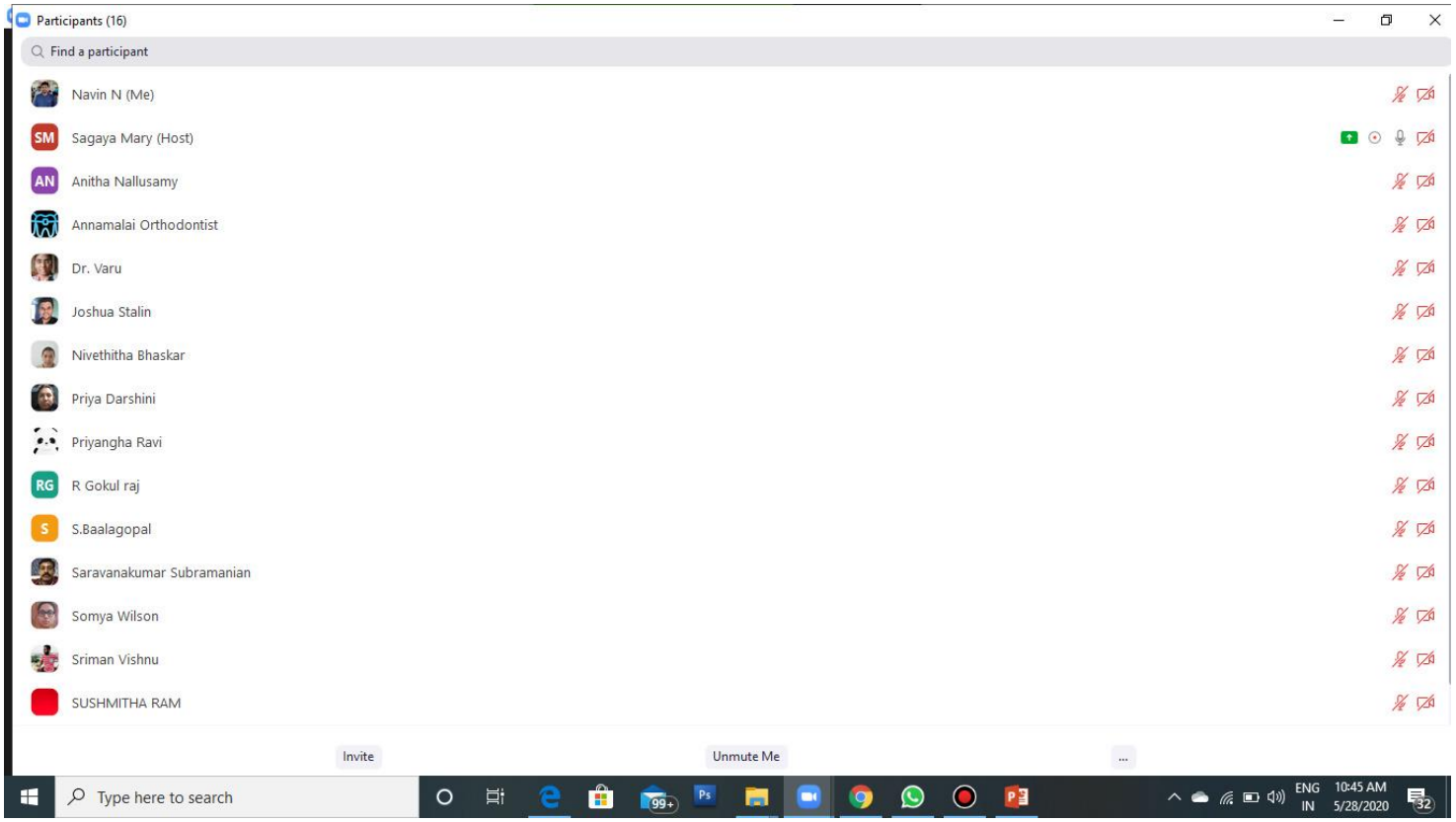


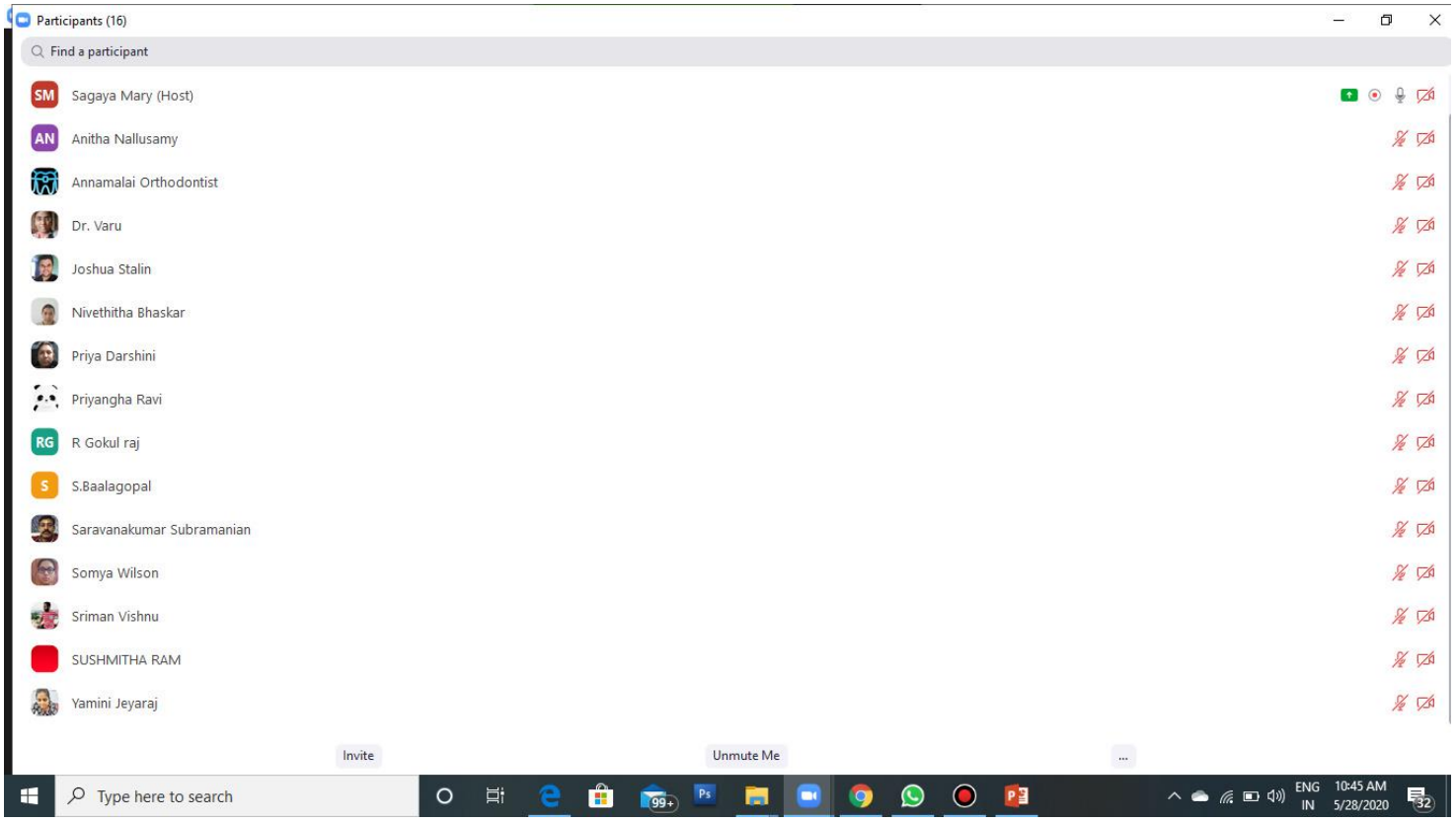

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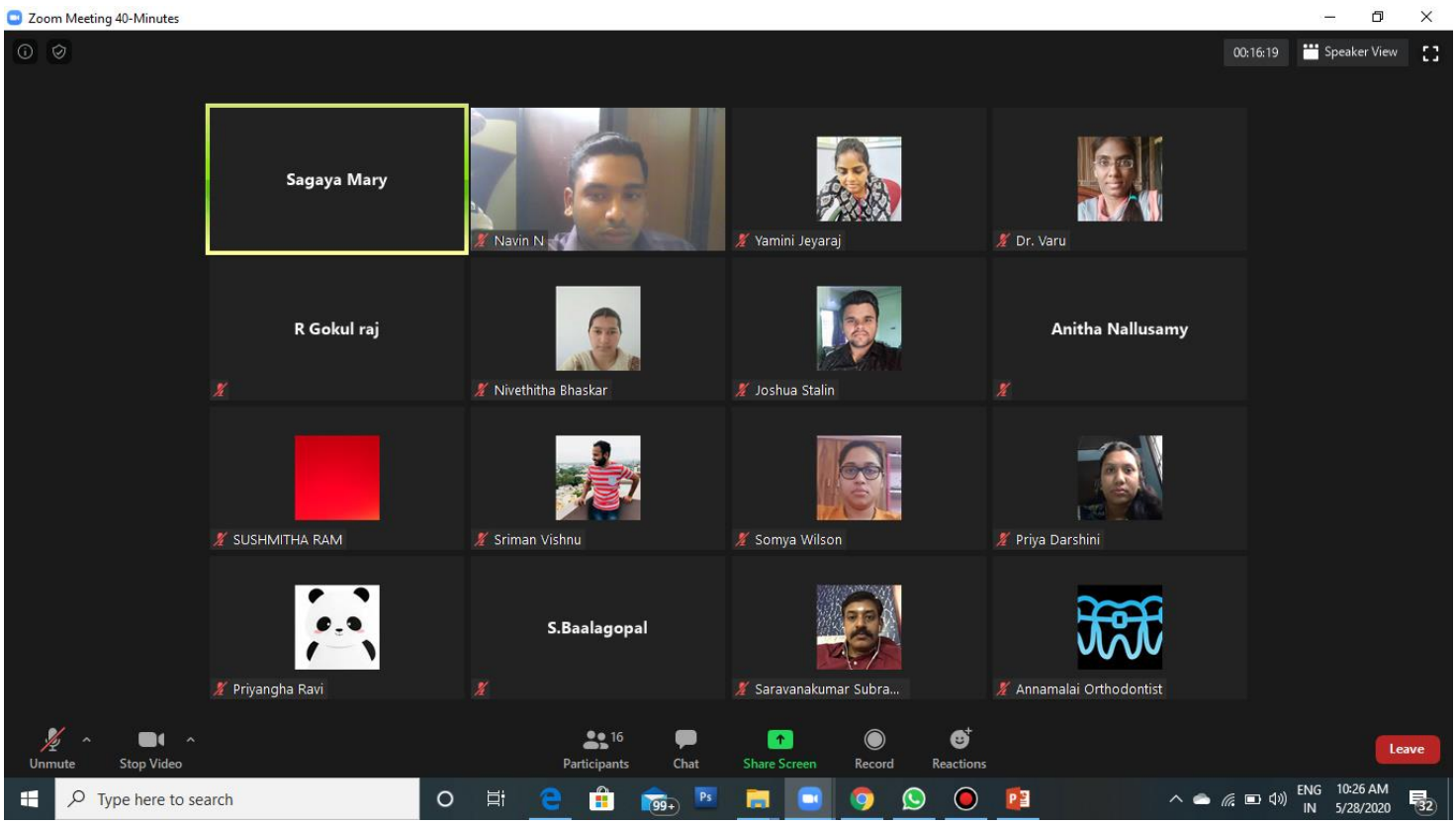

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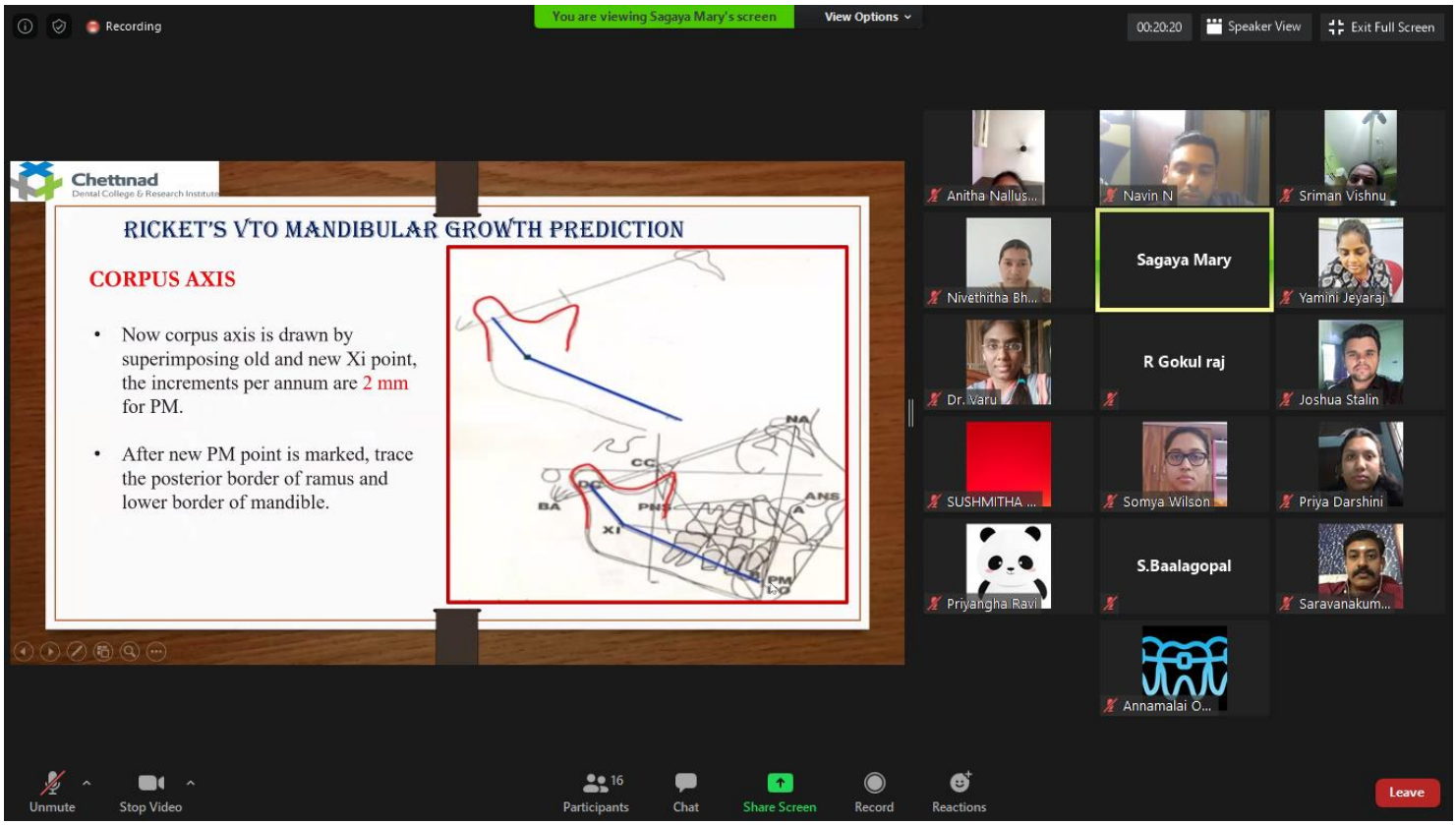


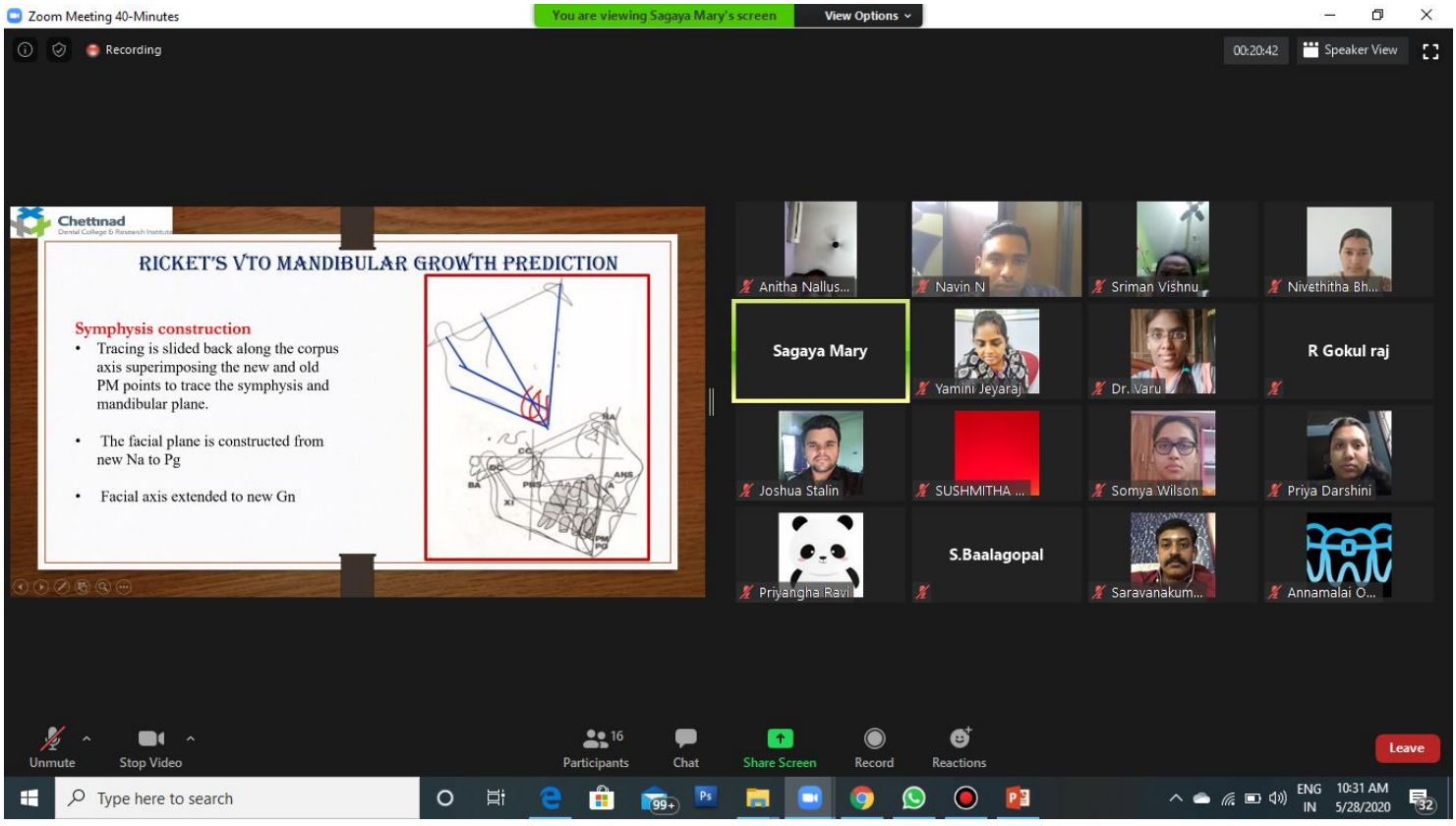

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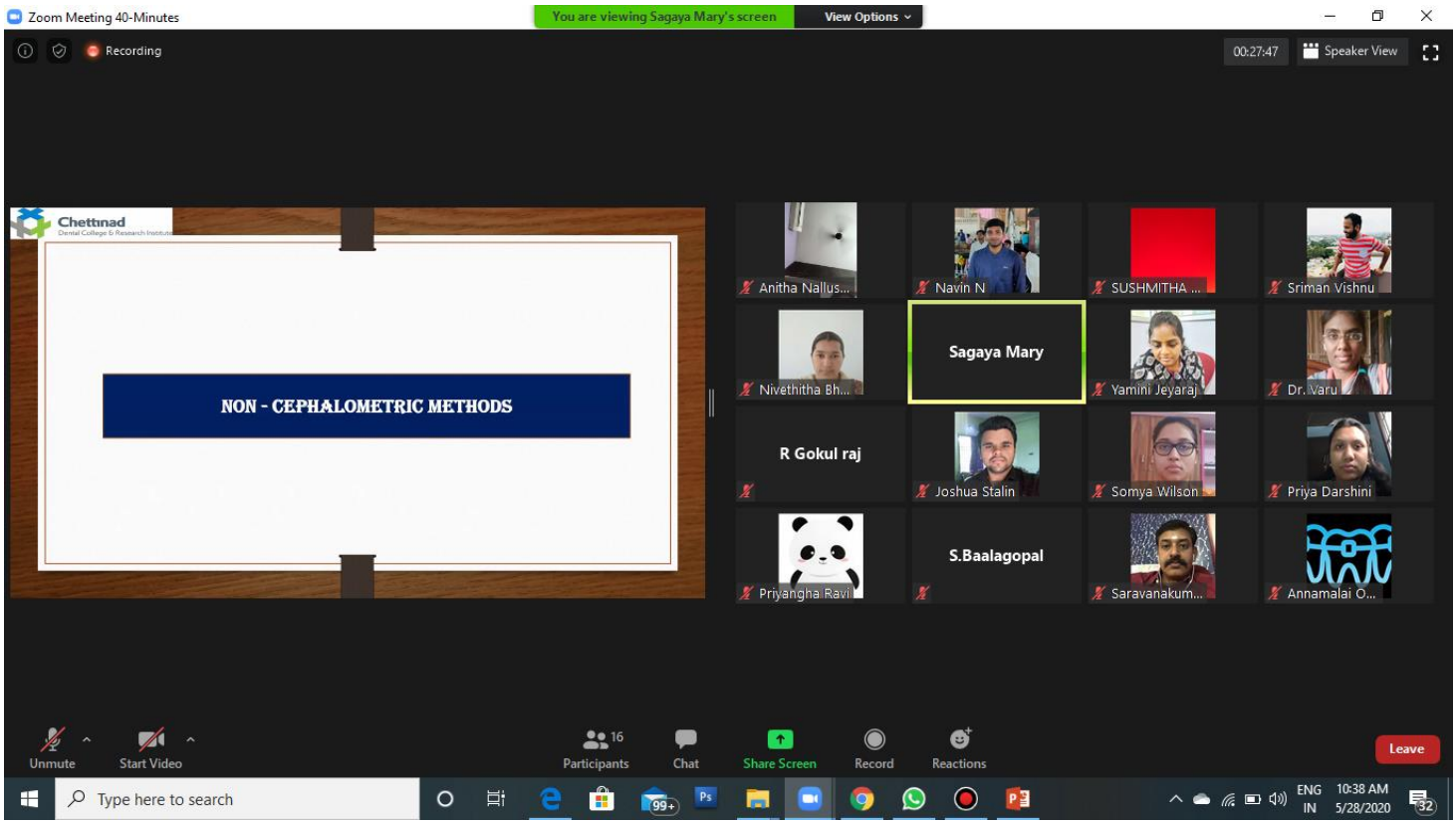
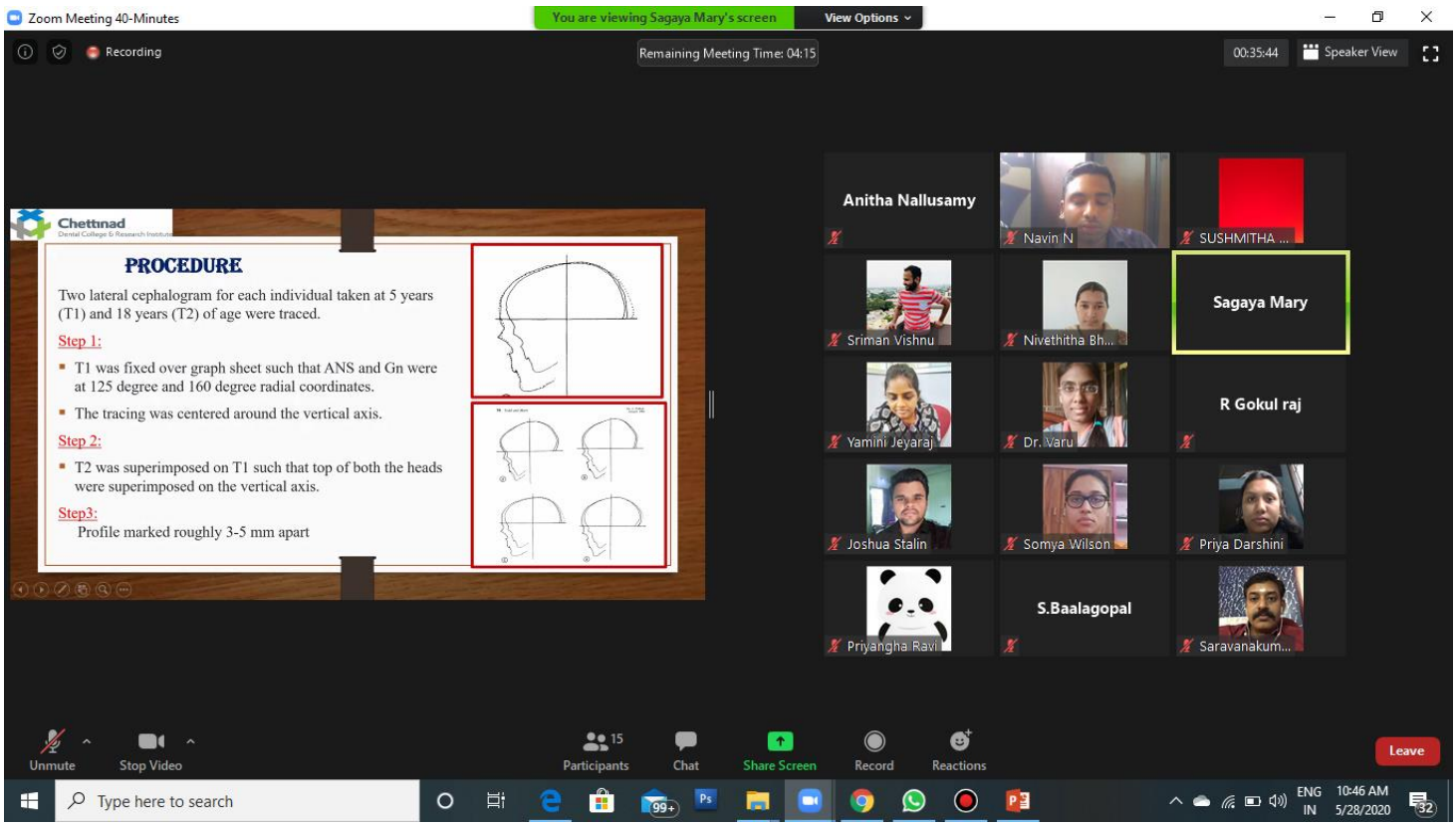
Dental College & Research Institute



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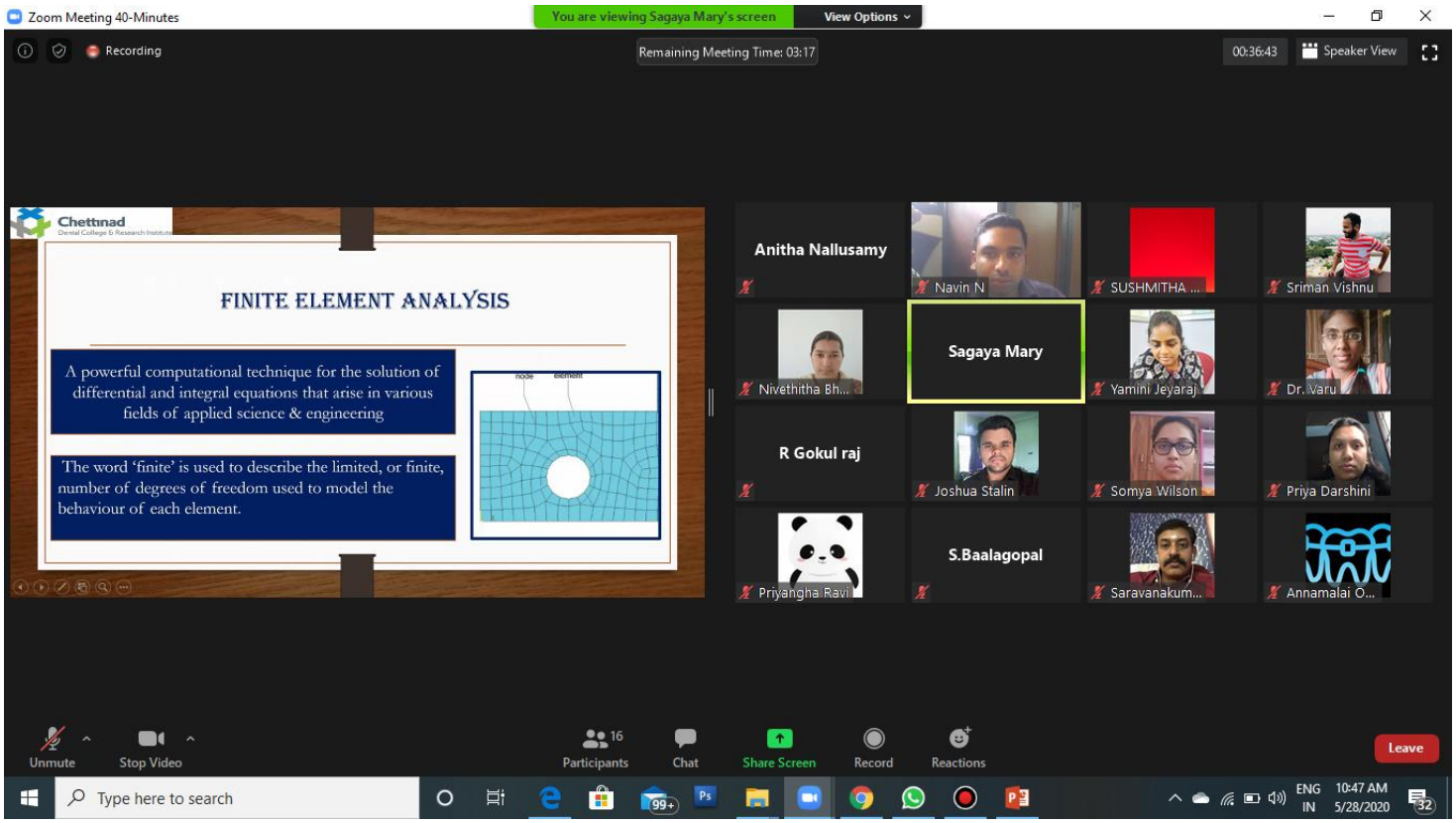


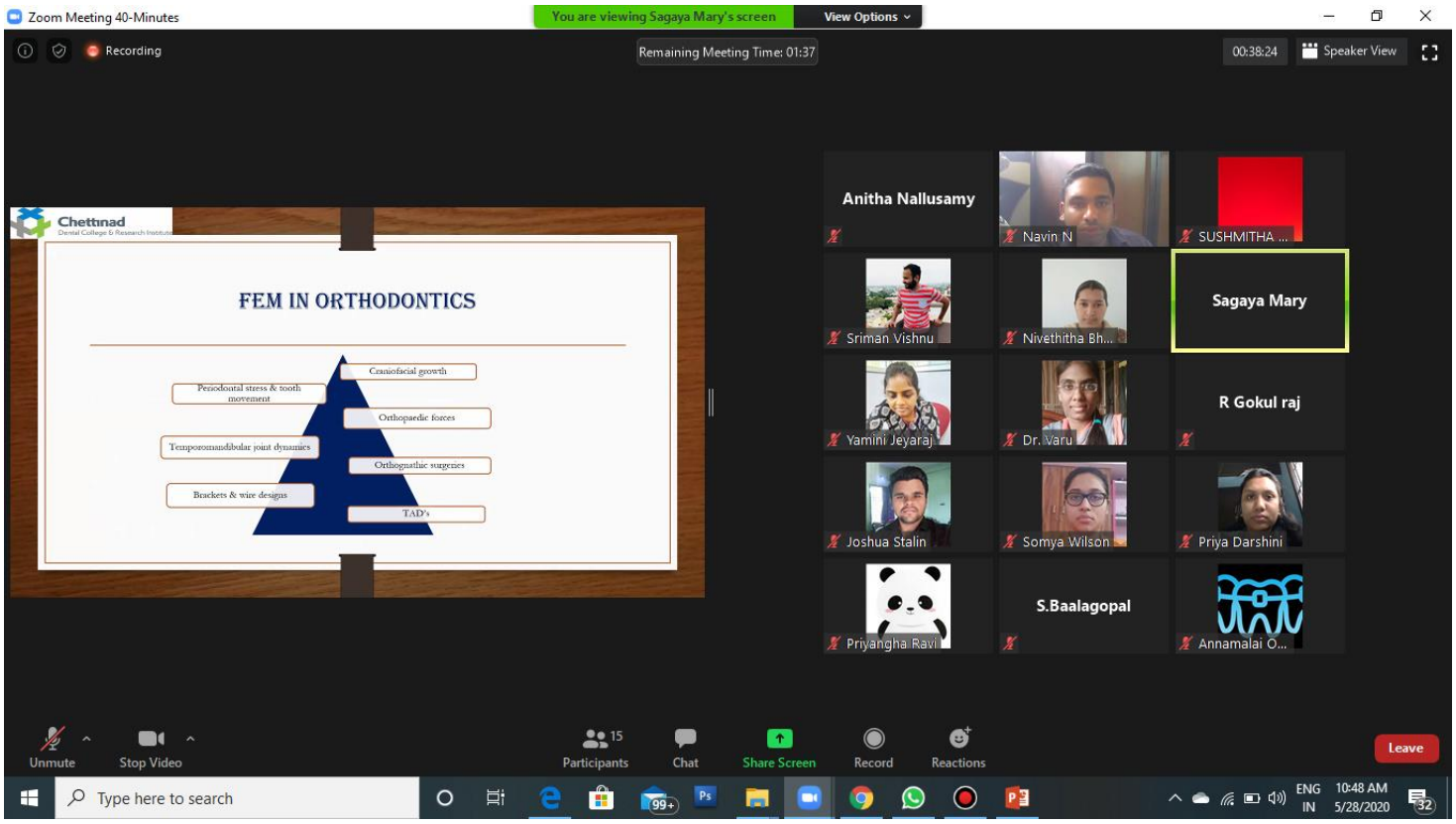

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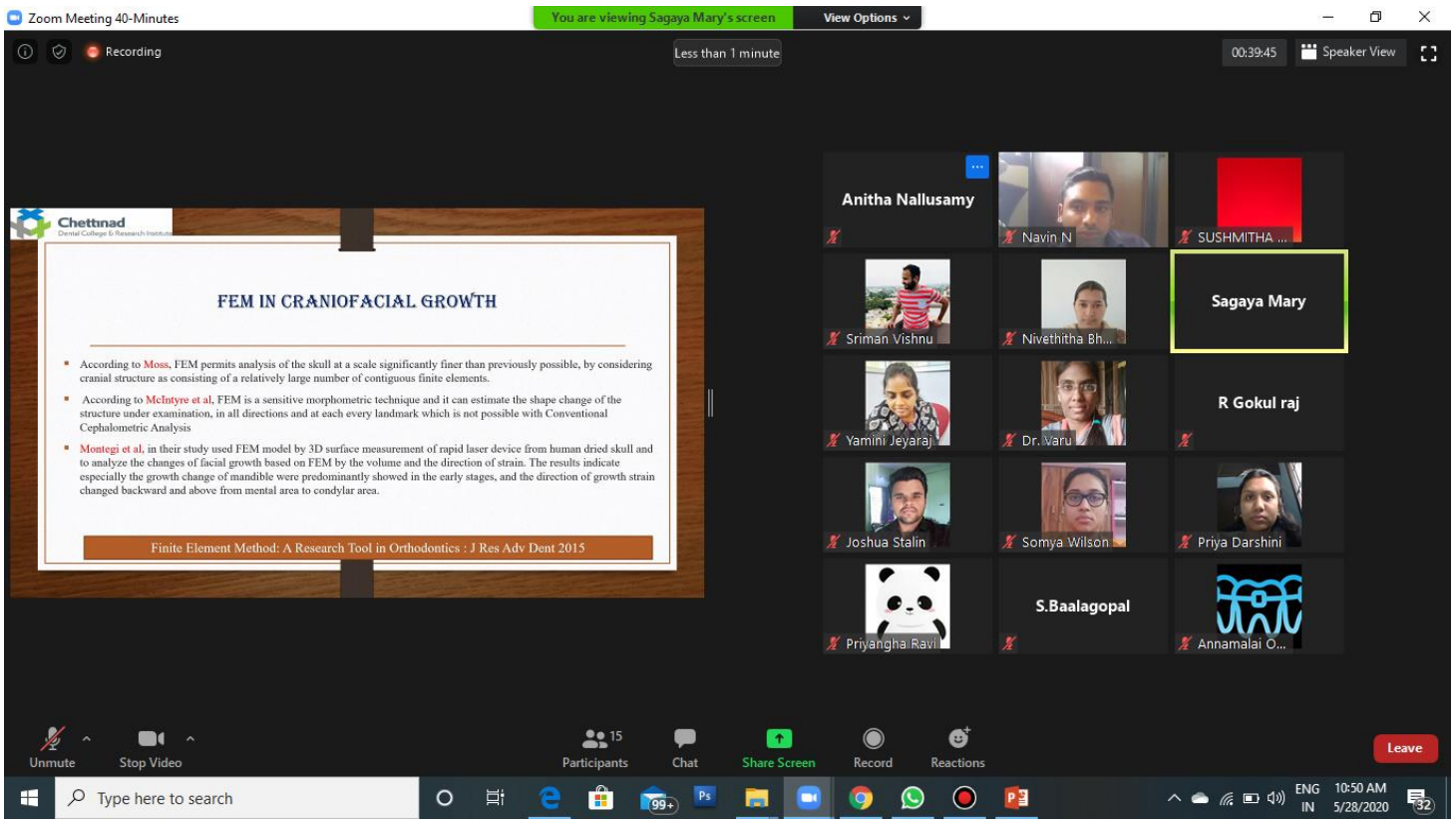


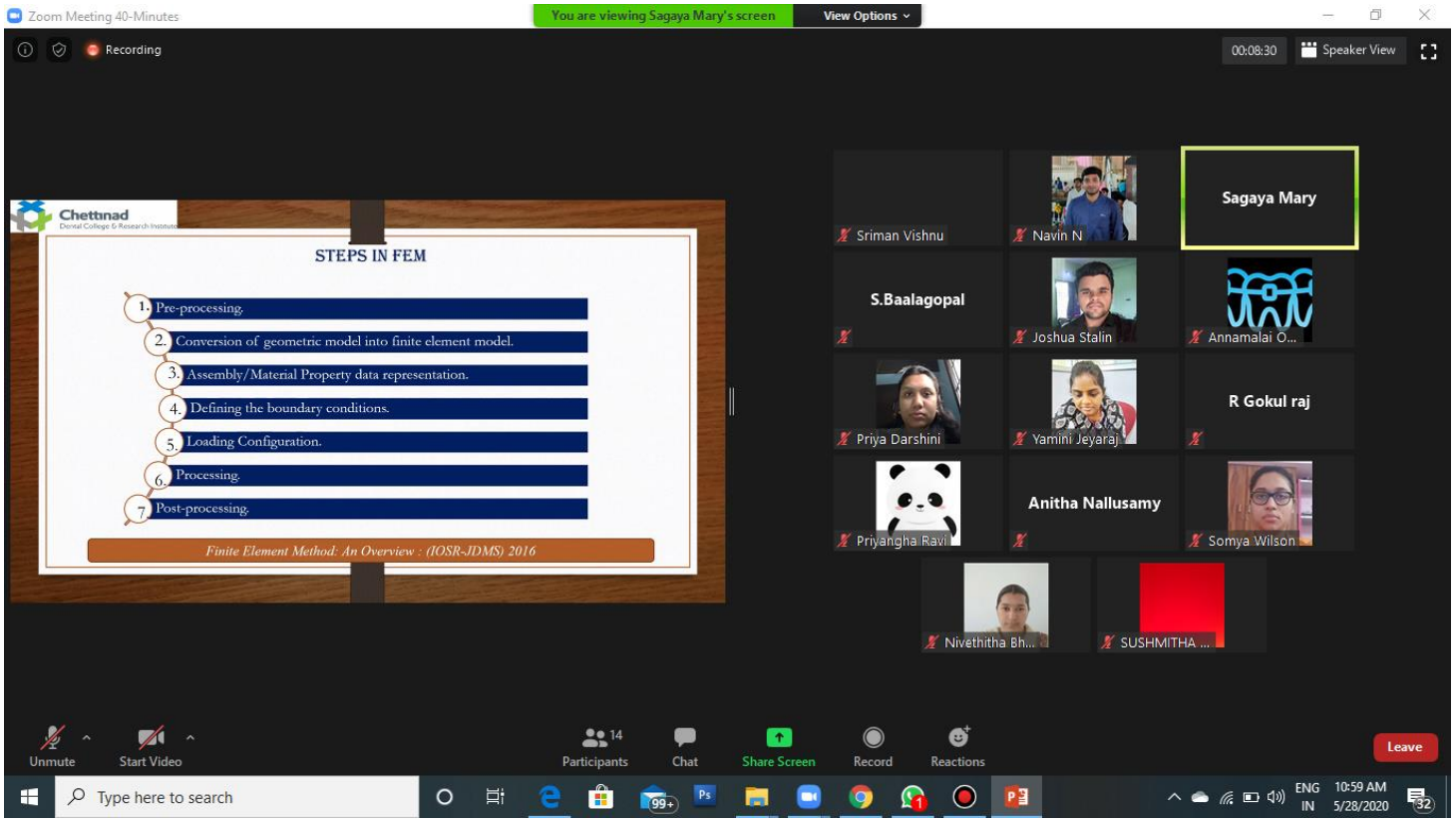

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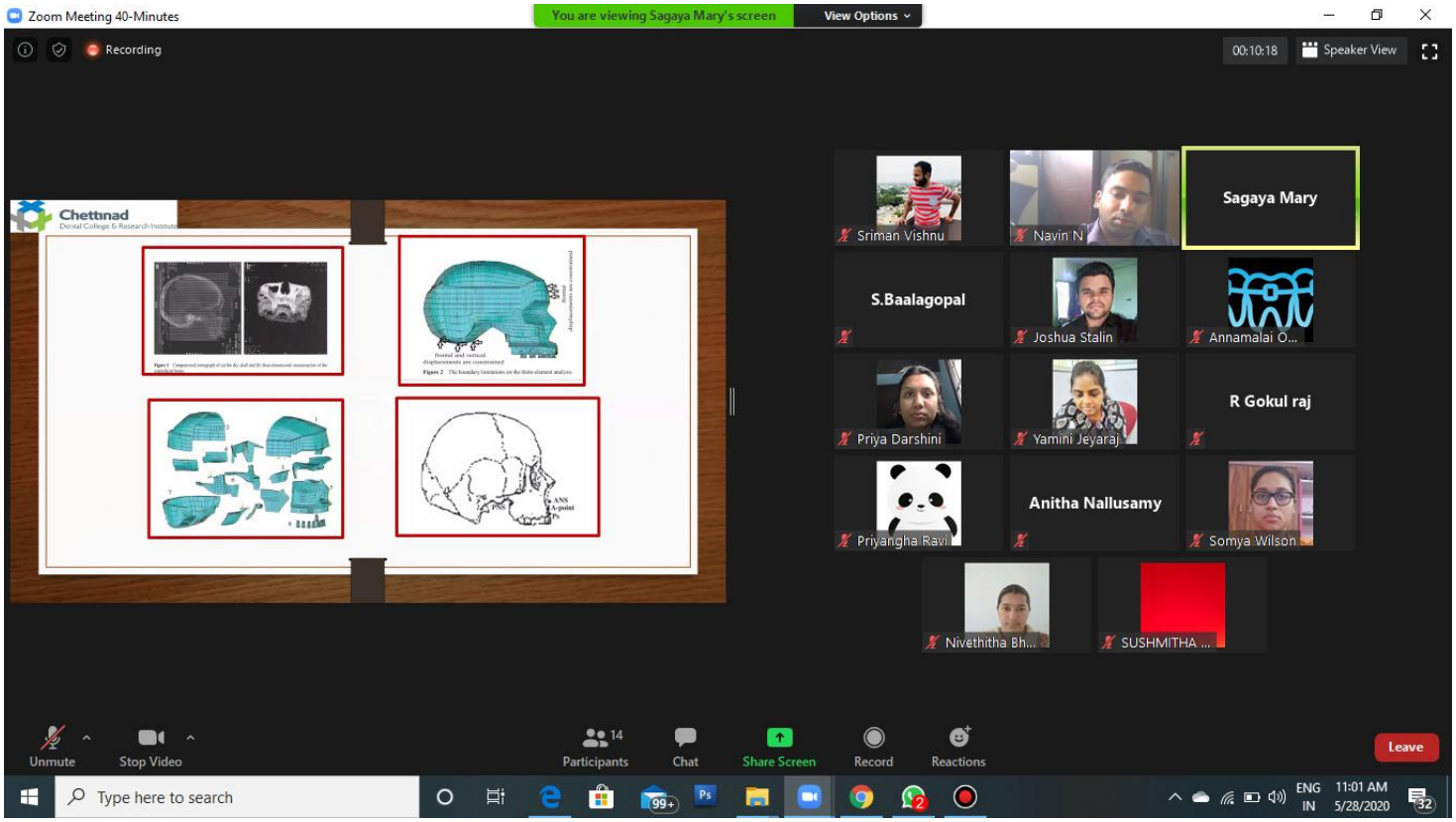


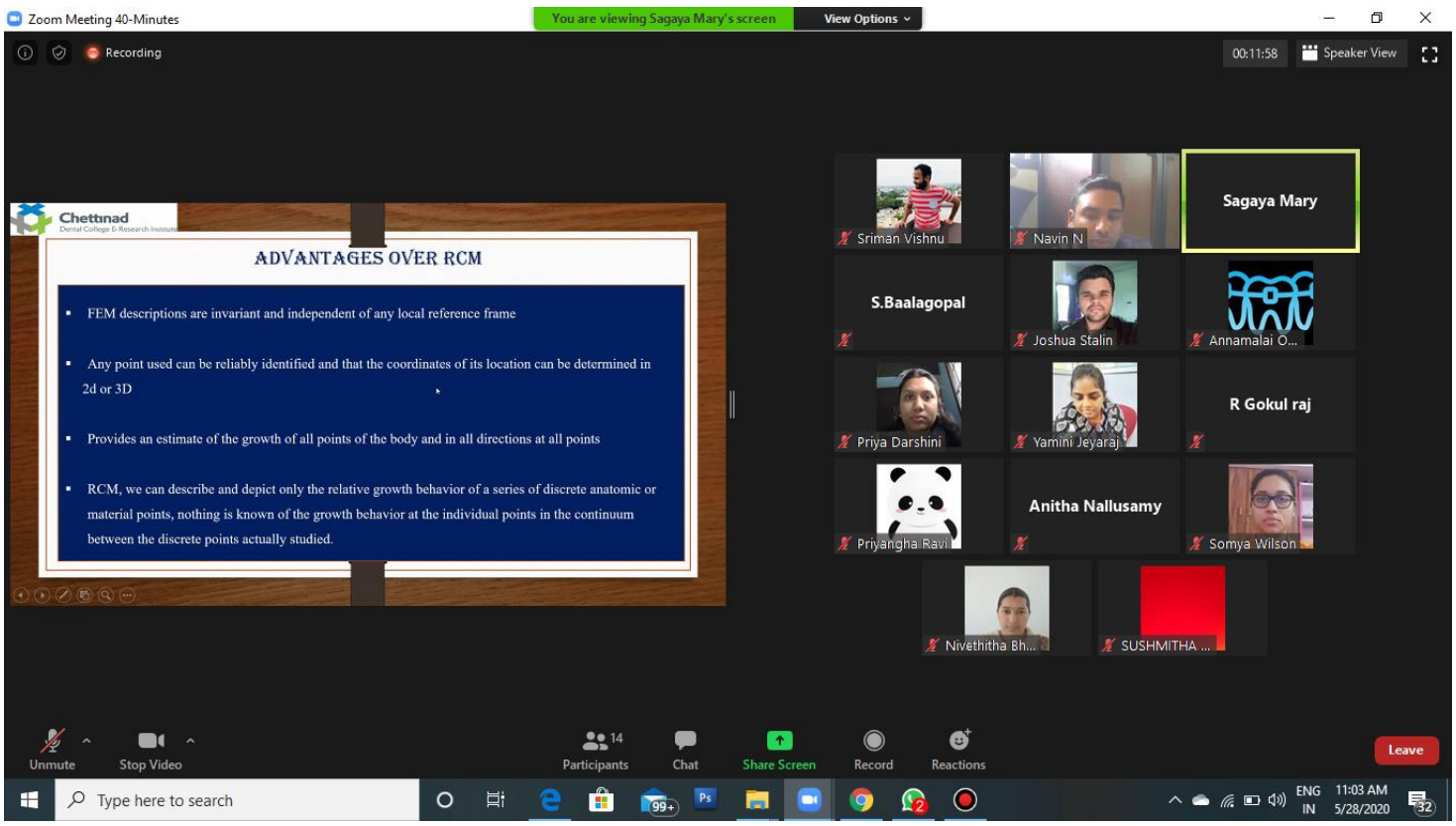

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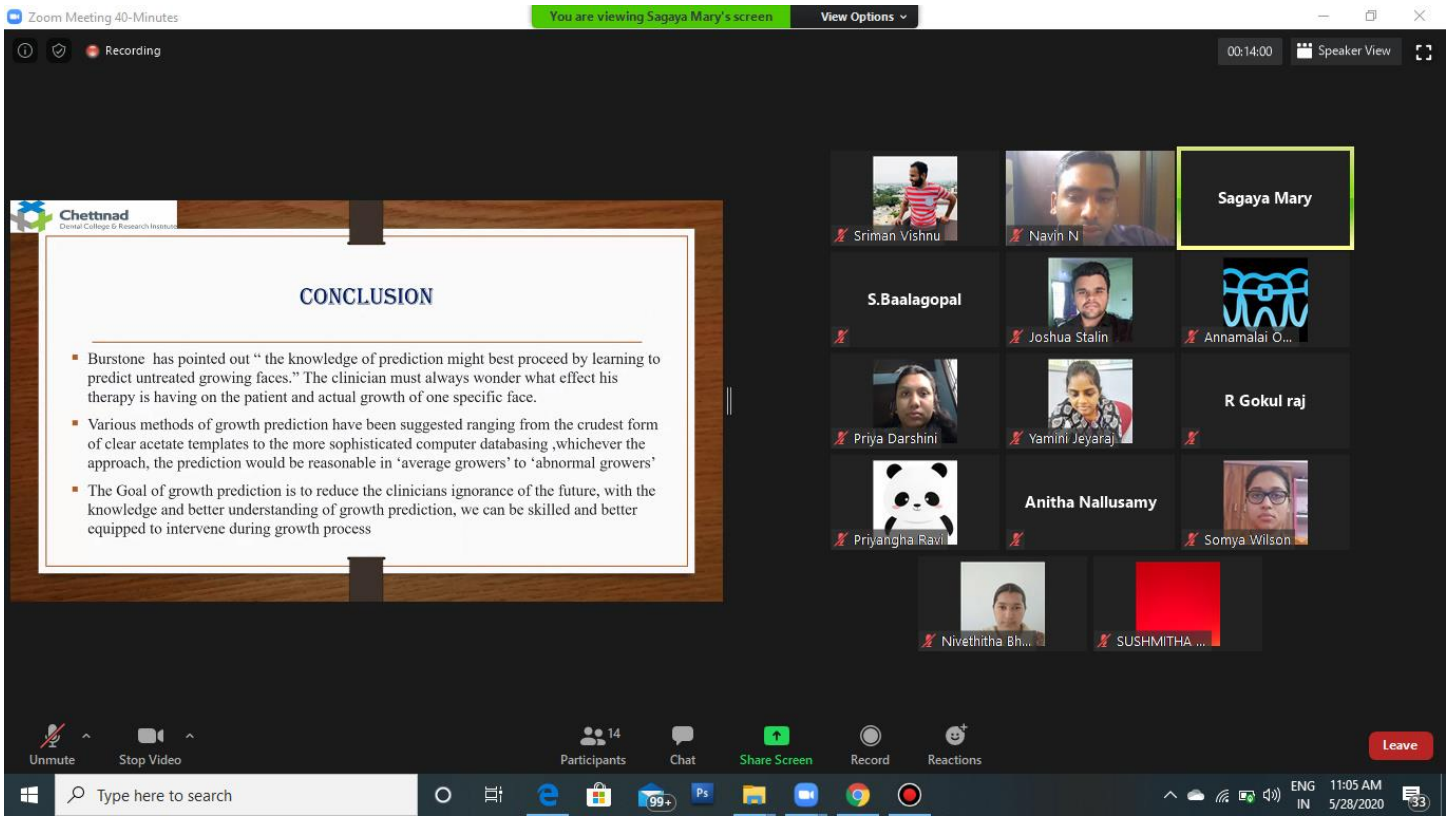


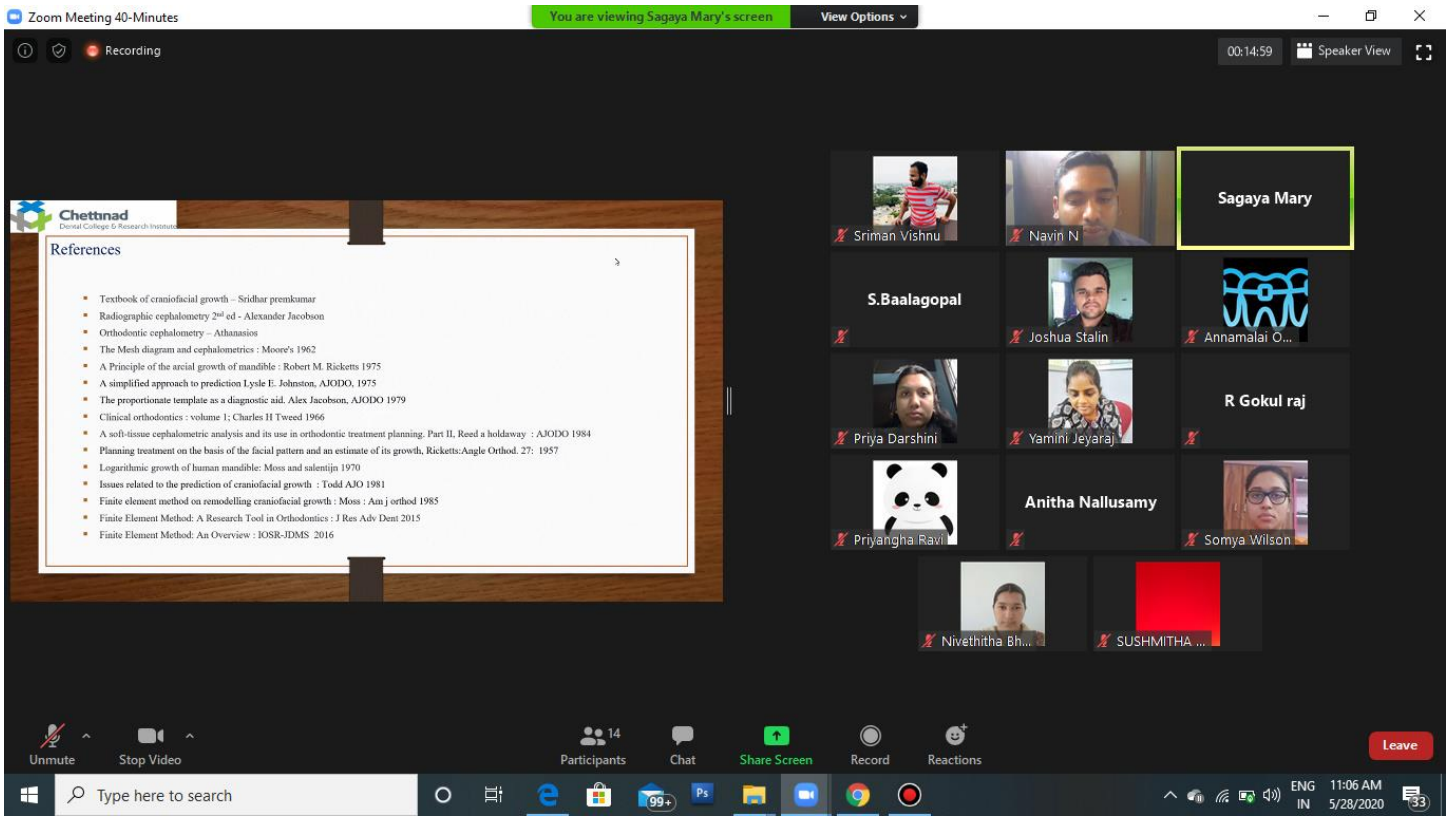

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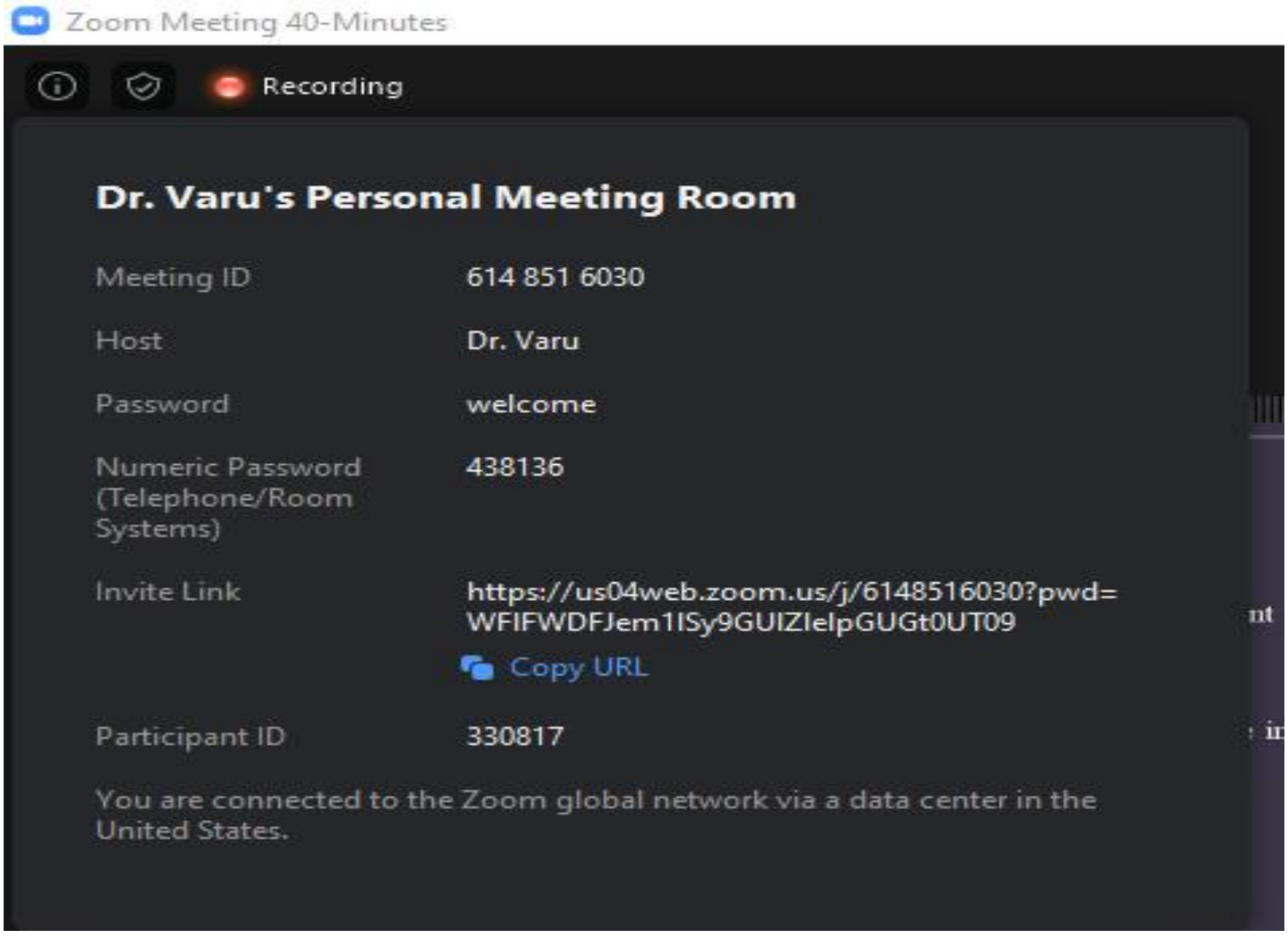
# DEPARTMENT OF ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

## E-Teaching/Learning sessions for Post Graduate

## Post Graduate academic schedule

| DATE | TOPIC | PRESENTER | PARTIPANTS |
|---|---|---|---|
| 29.05.2020 | Evoluation of FA-Part 2 | Dr.Varalakshmi | 17 |
| 29.05.2020 | Refined Begg-Guest lecture | Dr,Vasudevan. S.D | 18 |



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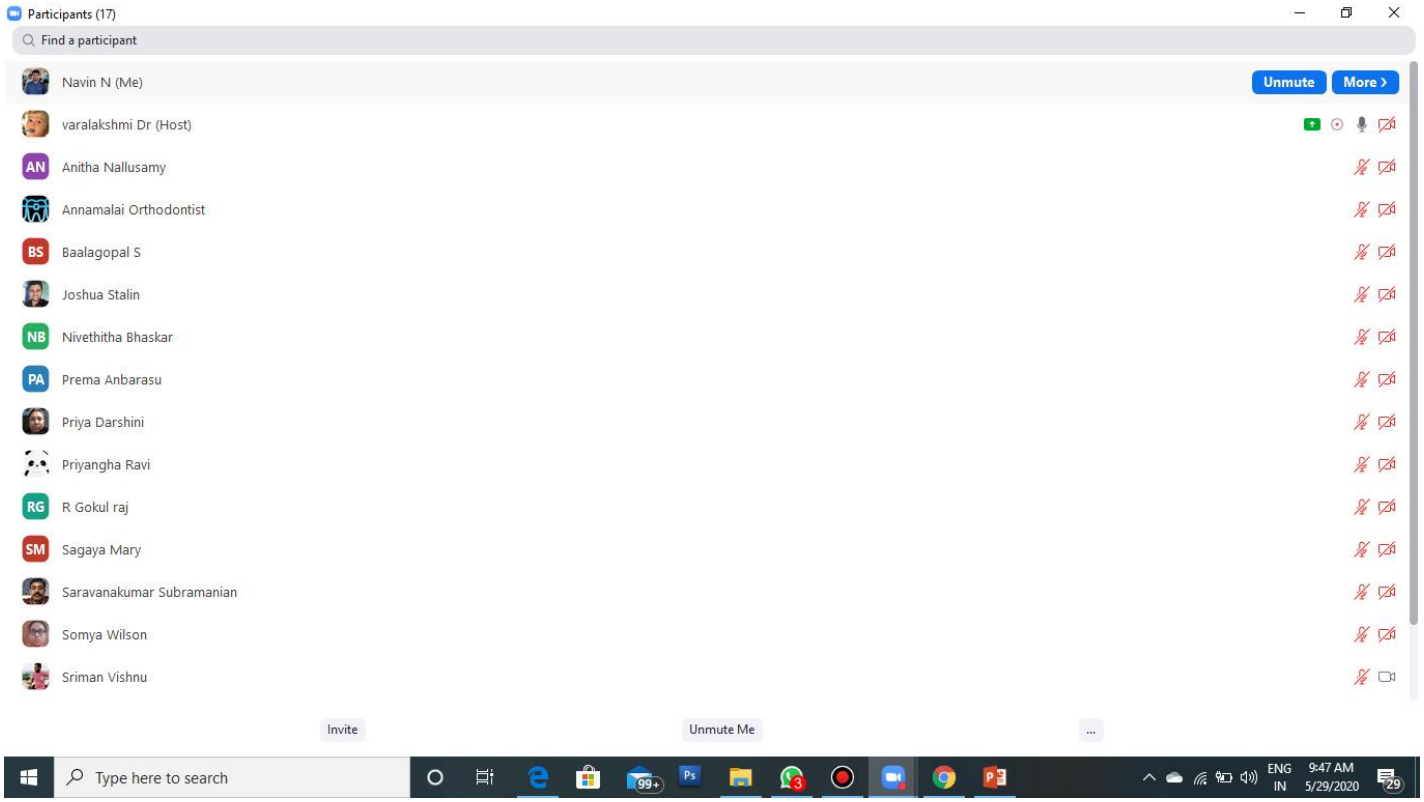


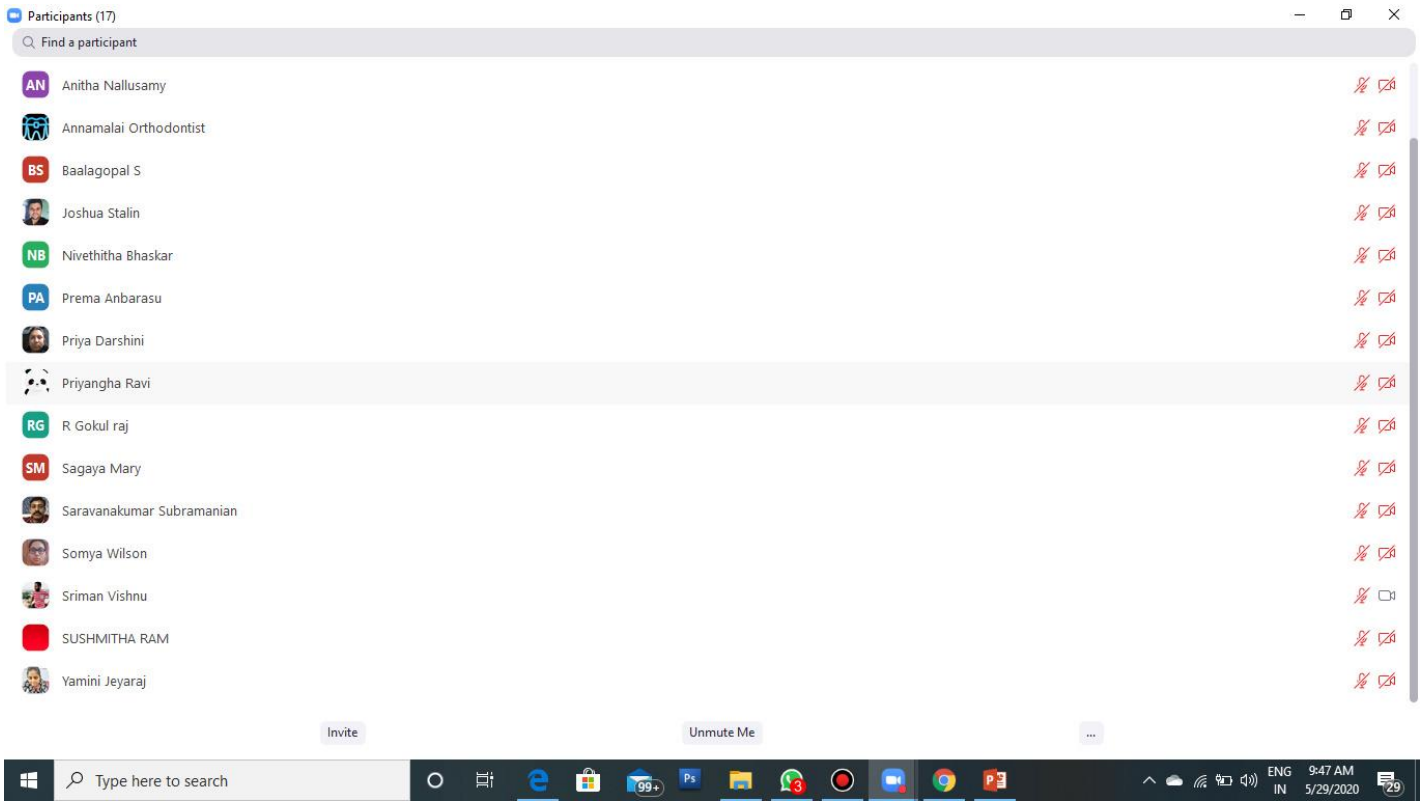

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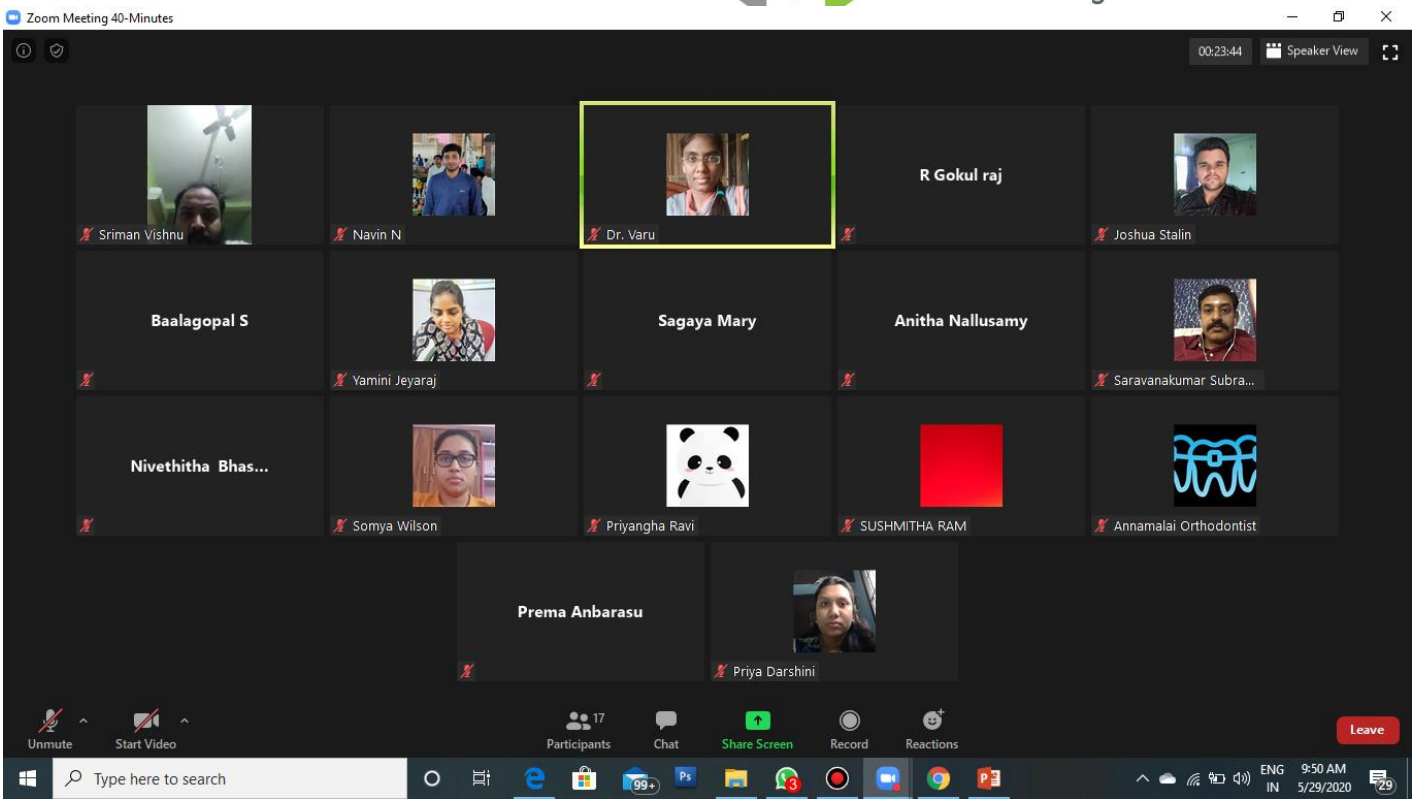


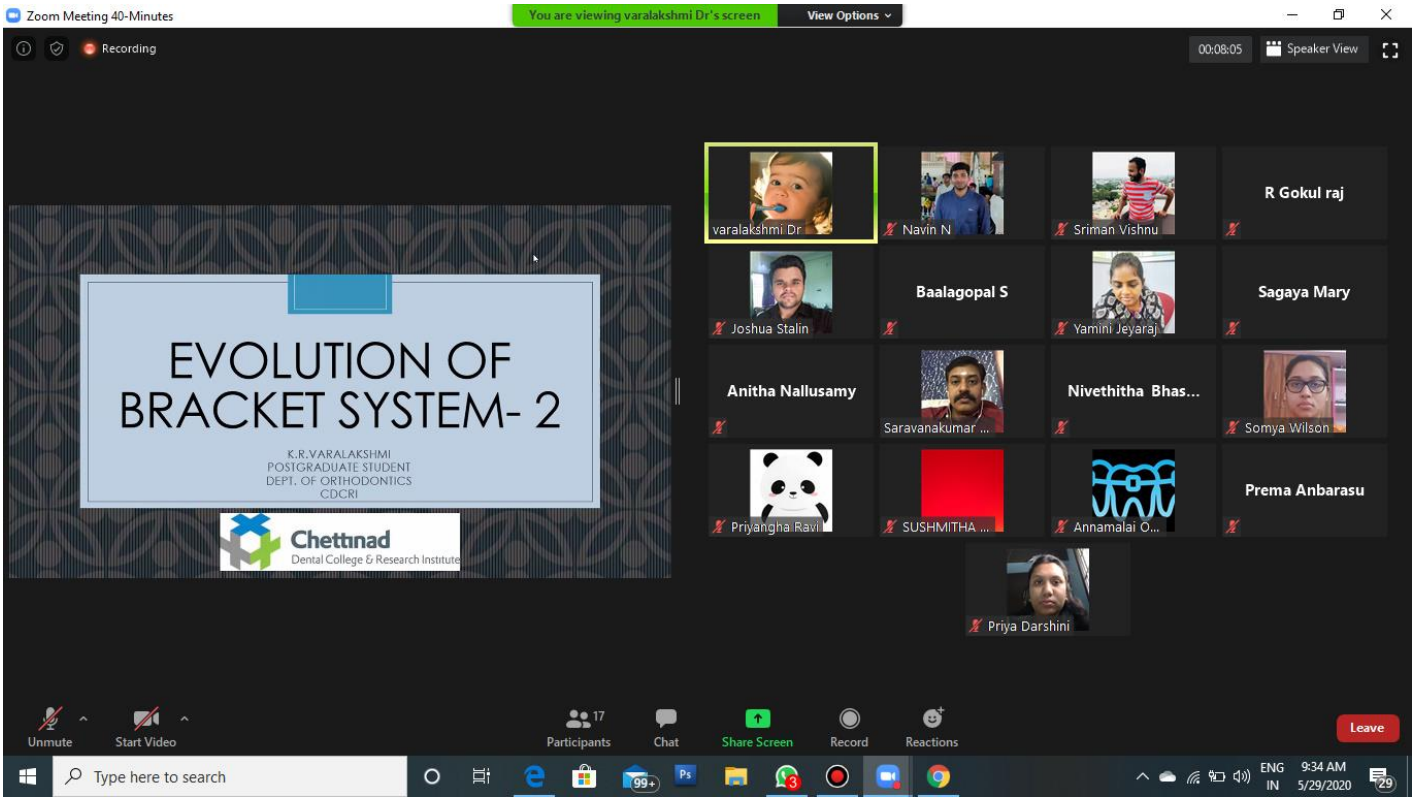

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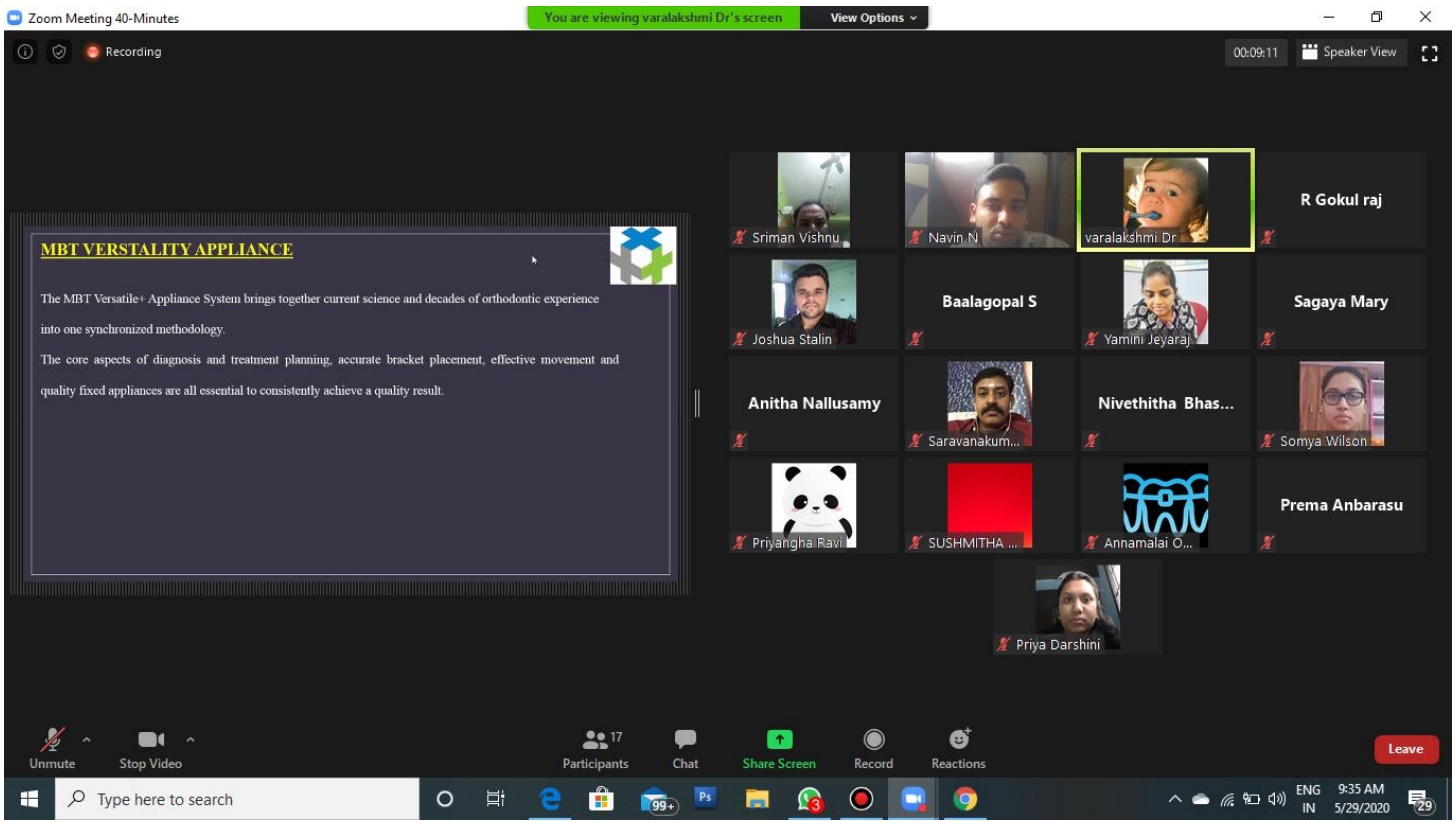


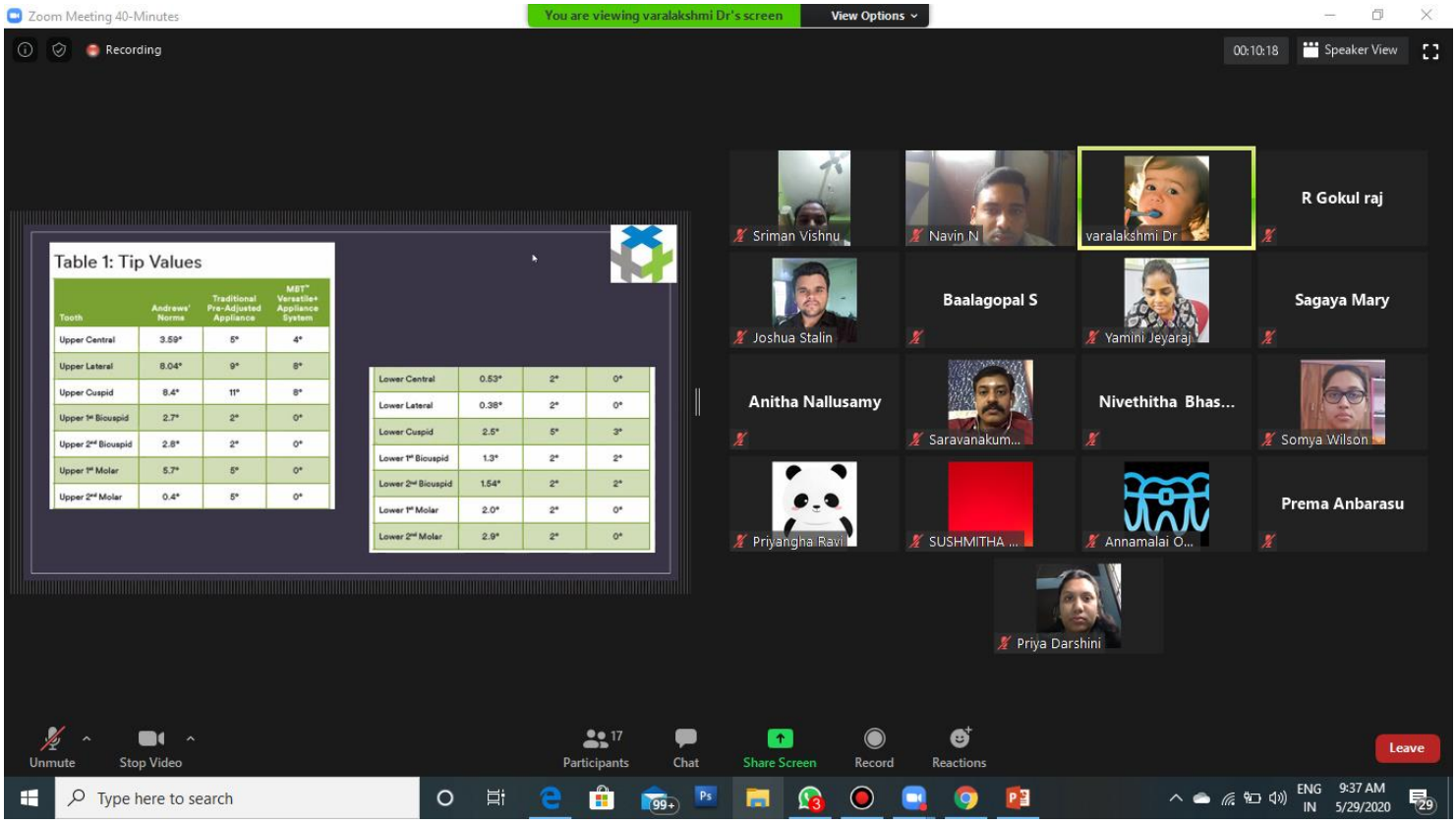

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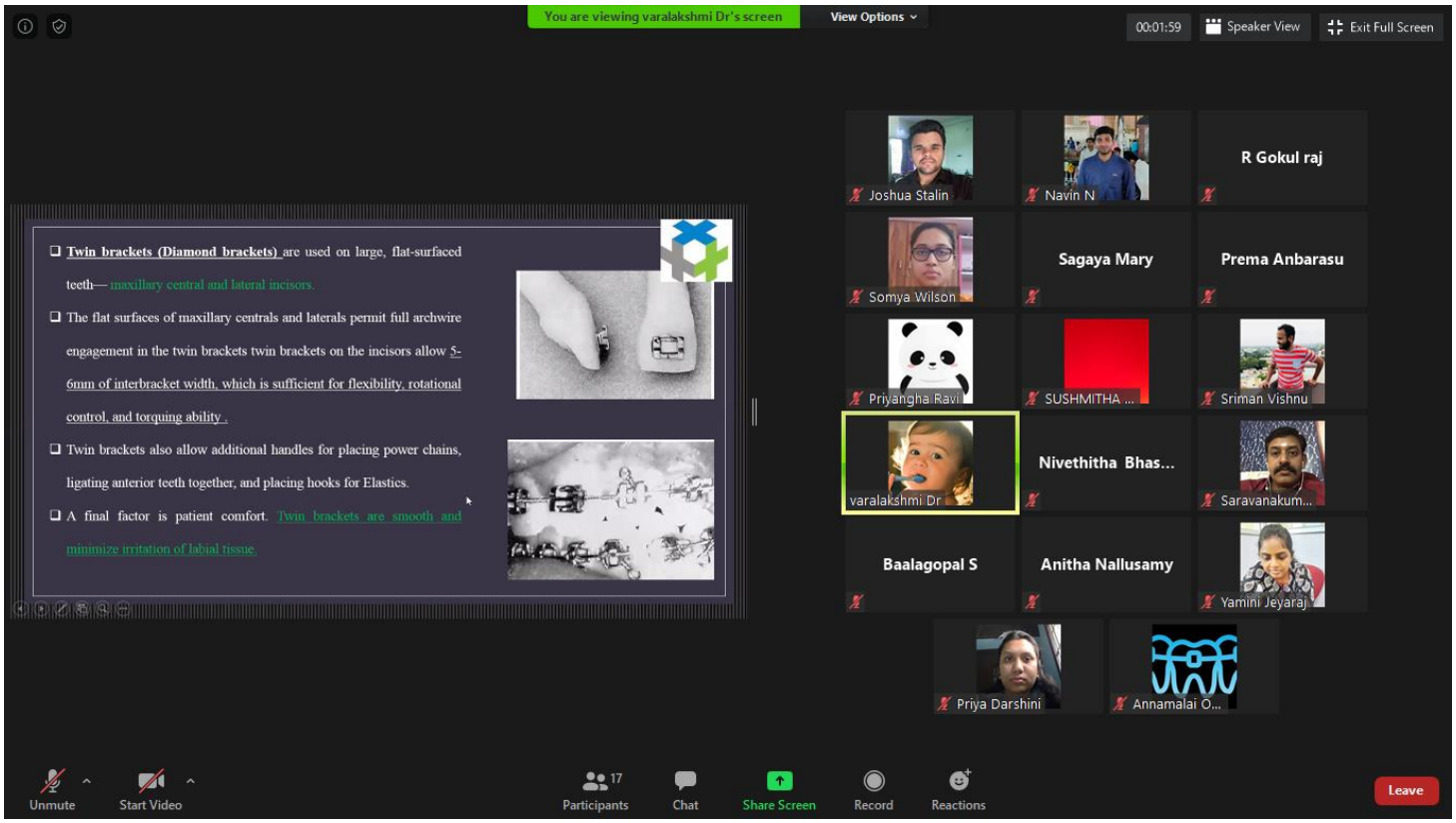


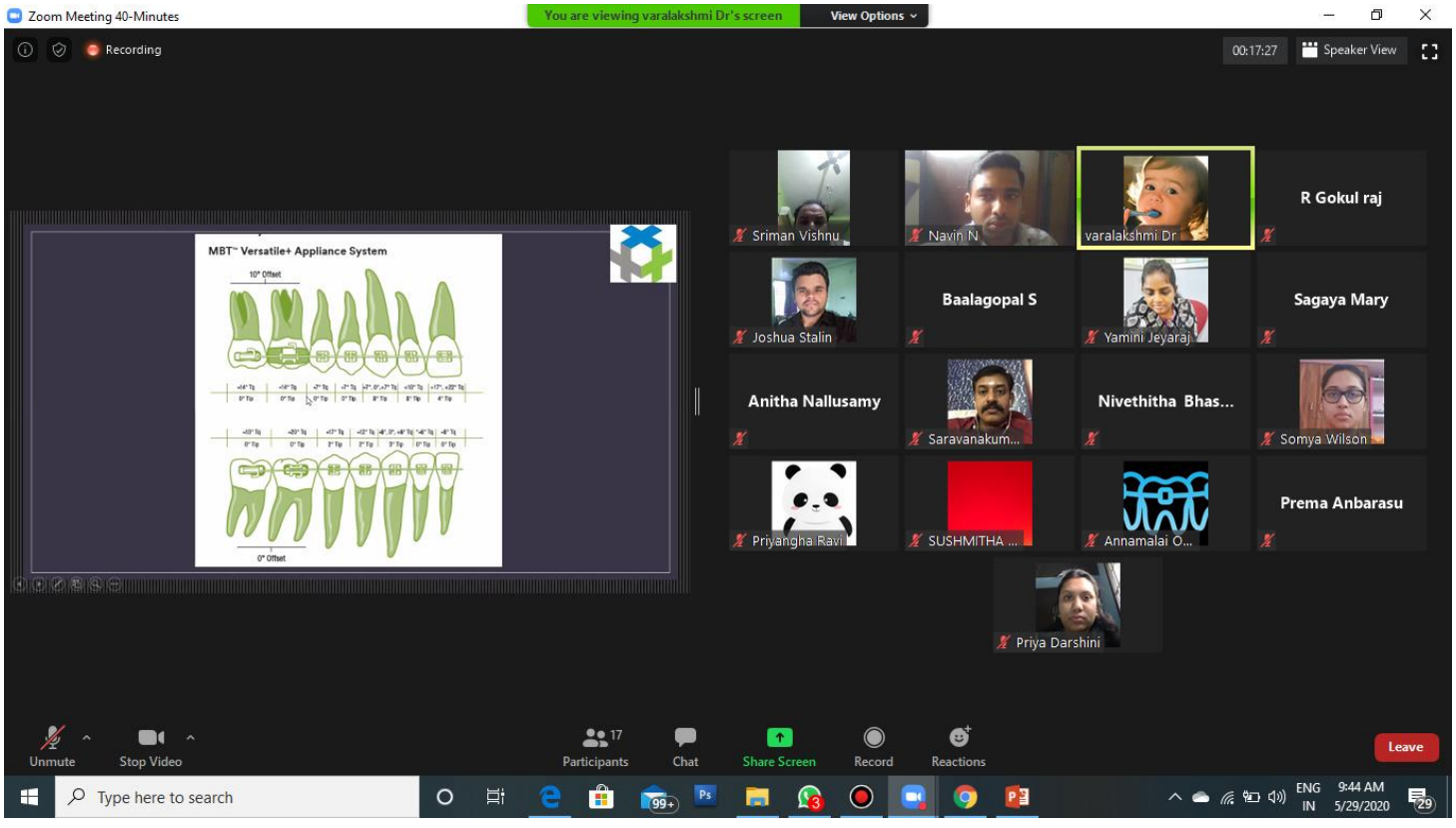

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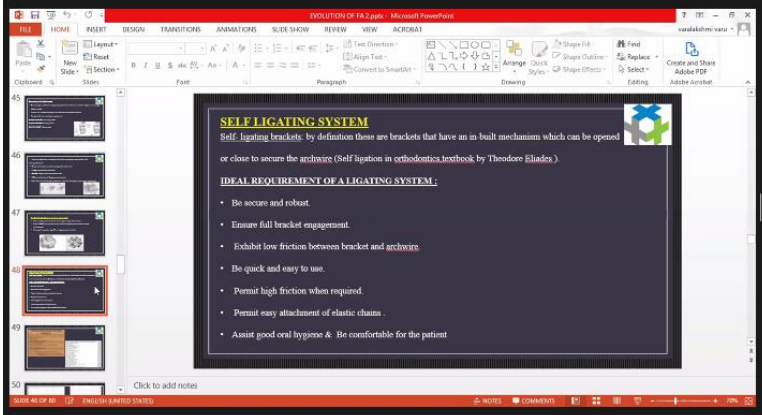
Zoom Meeting 40-Minutes — You are viewing varalakshmi Dr's screen — View Options — 00:20:58 — Speaker View

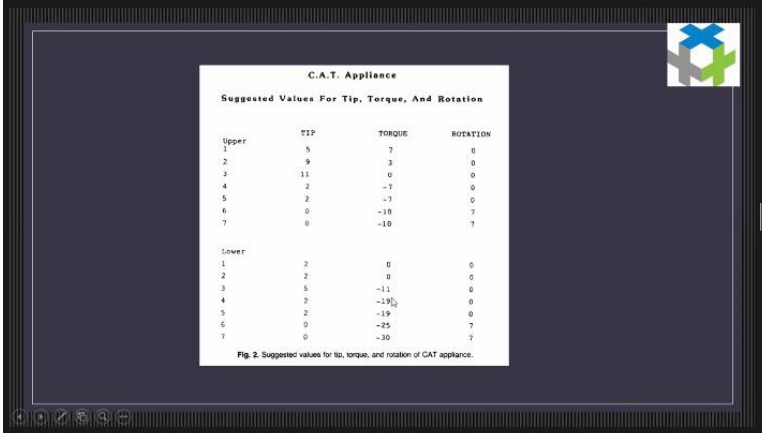



varalakshmi Dr | Navin N | Annamalai O... | Saravanakumar ... | Joshua Stalin | R Gokul raj | Somya Wilson | Sagaya Mary | Prema Anbarasu | Priyangha Ravi | SUSHMITHA ... | Sriman Vishnu | Nivethitha Bhas... | Anitha Nallusamy | Priya Darshini

Unmute | Start Video | 16 Participants | Chat | Share Screen | Record | Reactions | Leave

Type here to search — ENG IN 10:28 AM 5/29/2020

Zoom Meeting 40-Minutes — You are viewing varalakshmi Dr's screen — View Options — Recording — 00:14:10 — Speaker View



C.A.T. Appliance

Suggested Values For Tip, Torque, And Rotation

| | TIP | TORQUE | ROTATION |
|---|---|---|---|
| Upper | | | |
| 1 | 5 | 7 | 0 |
| 2 | 9 | 3 | 0 |
| 3 | 11 | 0 | 0 |
| 4 | 2 | −7 | 0 |
| 5 | 2 | −7 | 0 |
| 6 | 0 | −10 | 7 |
| 7 | 0 | −10 | 7 |
| Lower | | | |
| 1 | 2 | 0 | 0 |
| 2 | 2 | 0 | 0 |
| 3 | 5 | −11 | 0 |
| 4 | 2 | −19 | 0 |
| 5 | 2 | −19 | 0 |
| 6 | 0 | −25 | 7 |
| 7 | 0 | −30 | 7 |

Fig. 2. Suggested values for tip, torque, and rotation of CAT appliance.

Joshua Stalin | Navin N | R Gokul raj | Somya Wilson | Sagaya Mary | Prema Anbarasu | Priyangha Ravi | SUSHMITHA RAM | Sriman Vishnu | varalakshmi Dr | Nivethitha Bhas... | Anitha Nallusamy | Priya Darshini | Annamalai O... | Yamini Jeyaraj

Unmute | Start Video | 15 Participants | Chat | Share Screen | Record | Reactions | Leave

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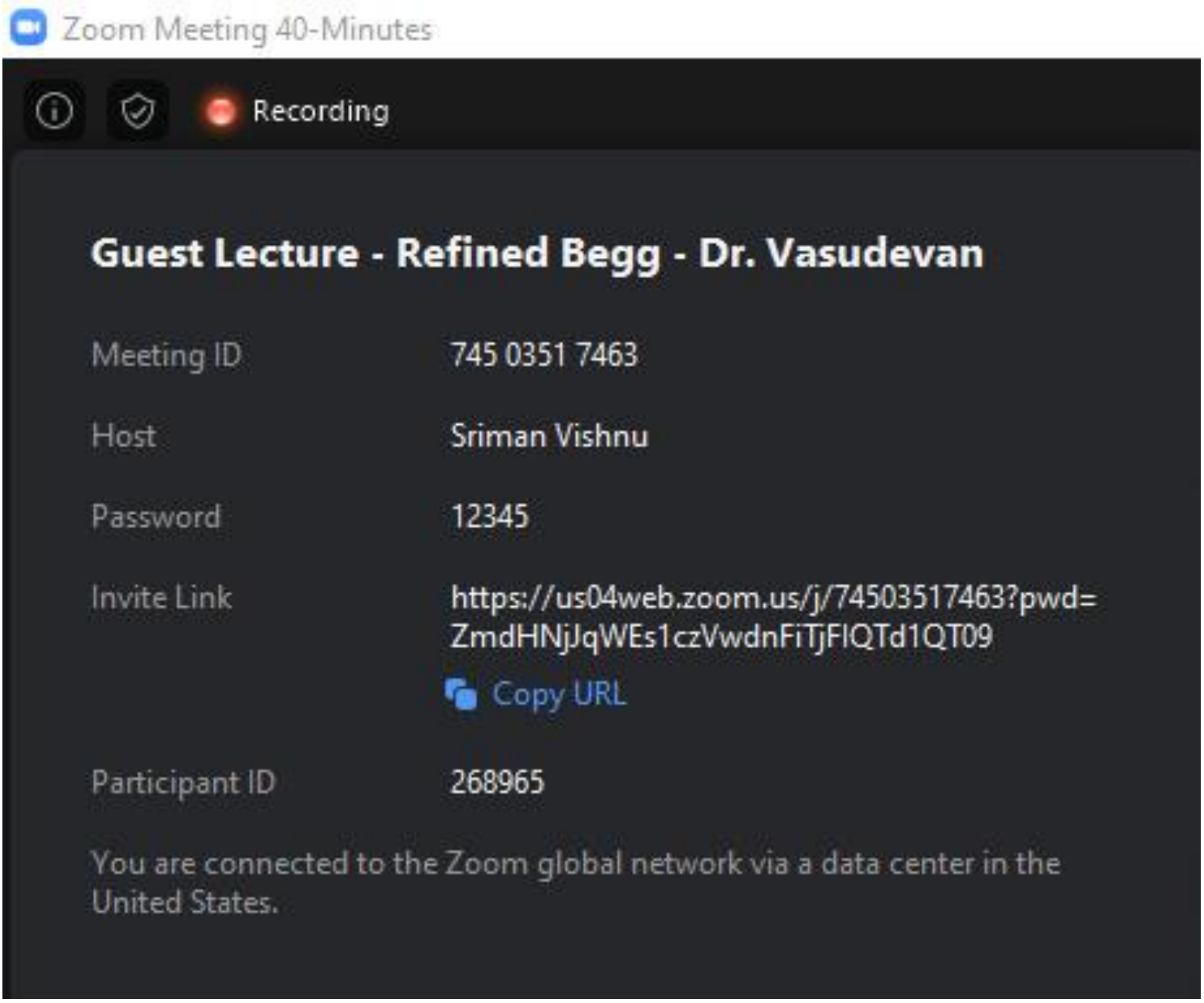

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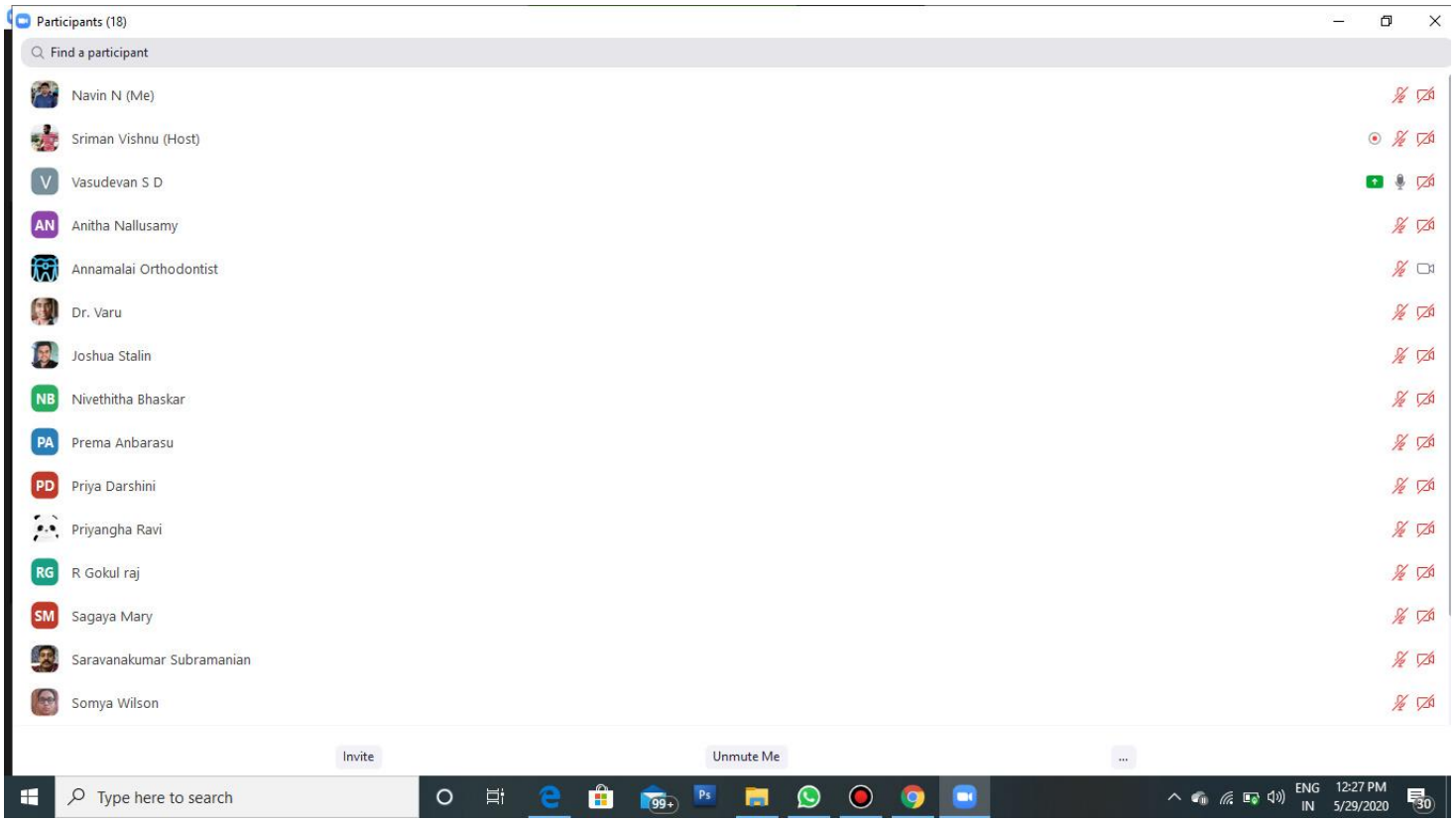


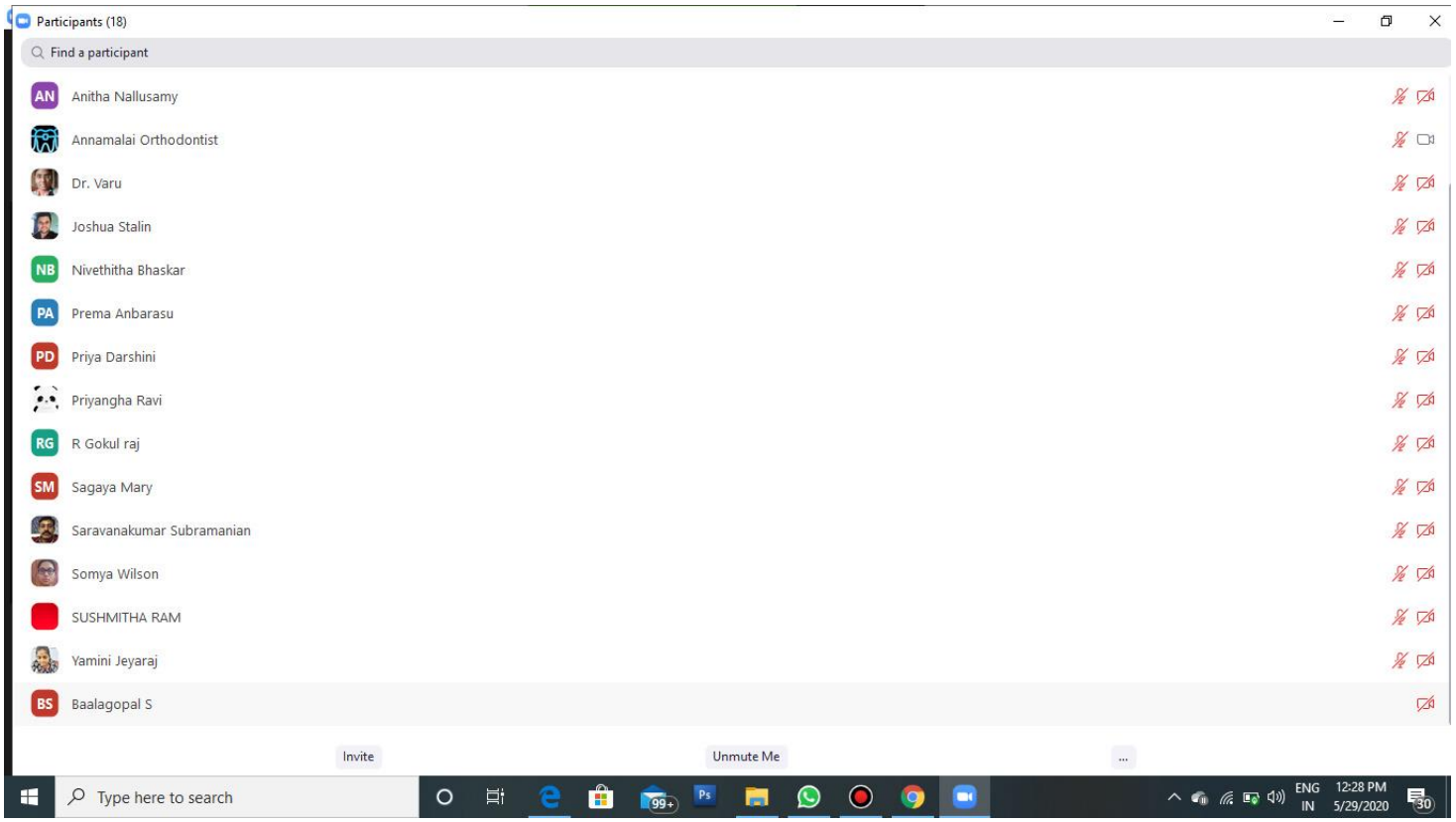

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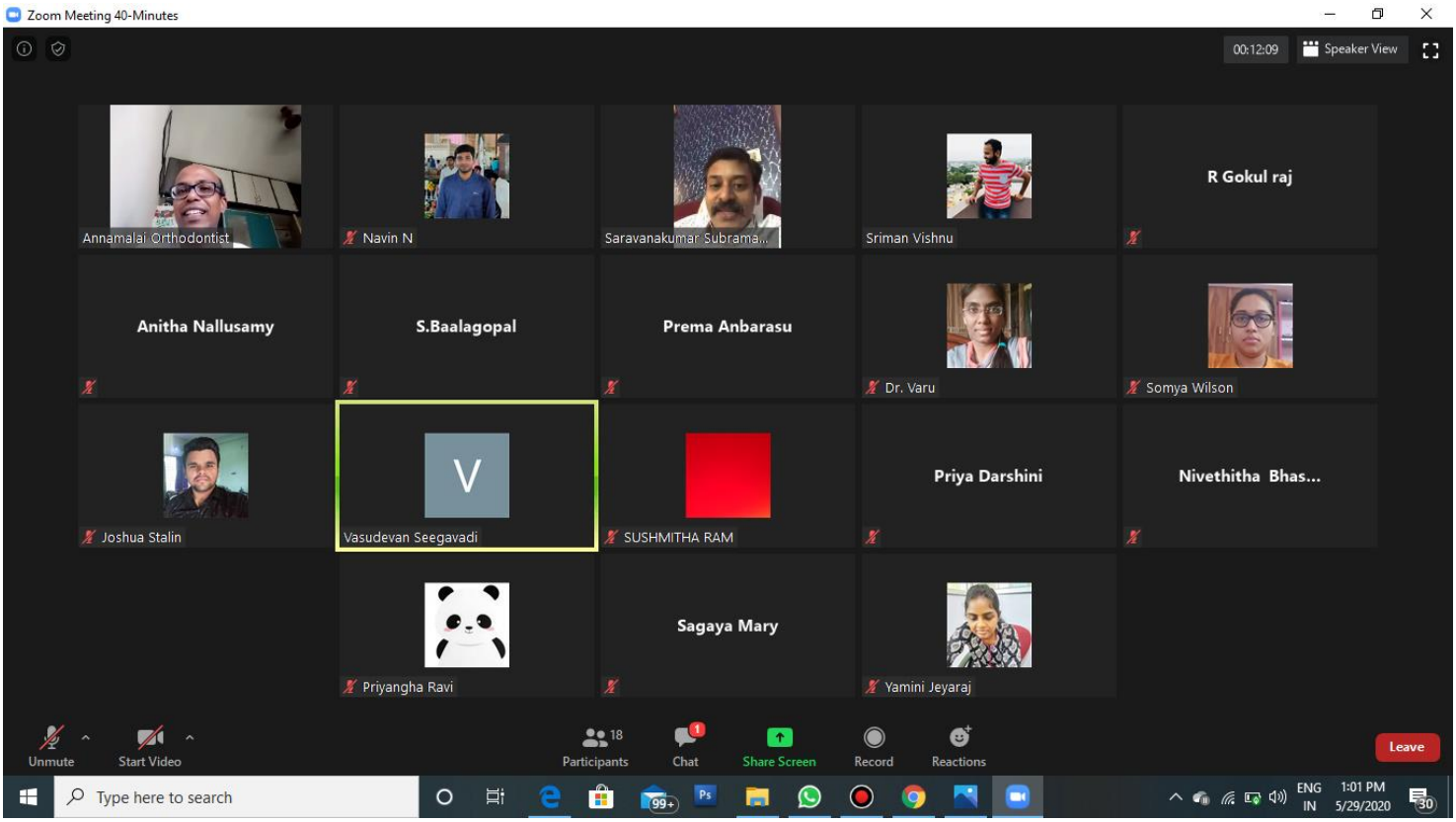


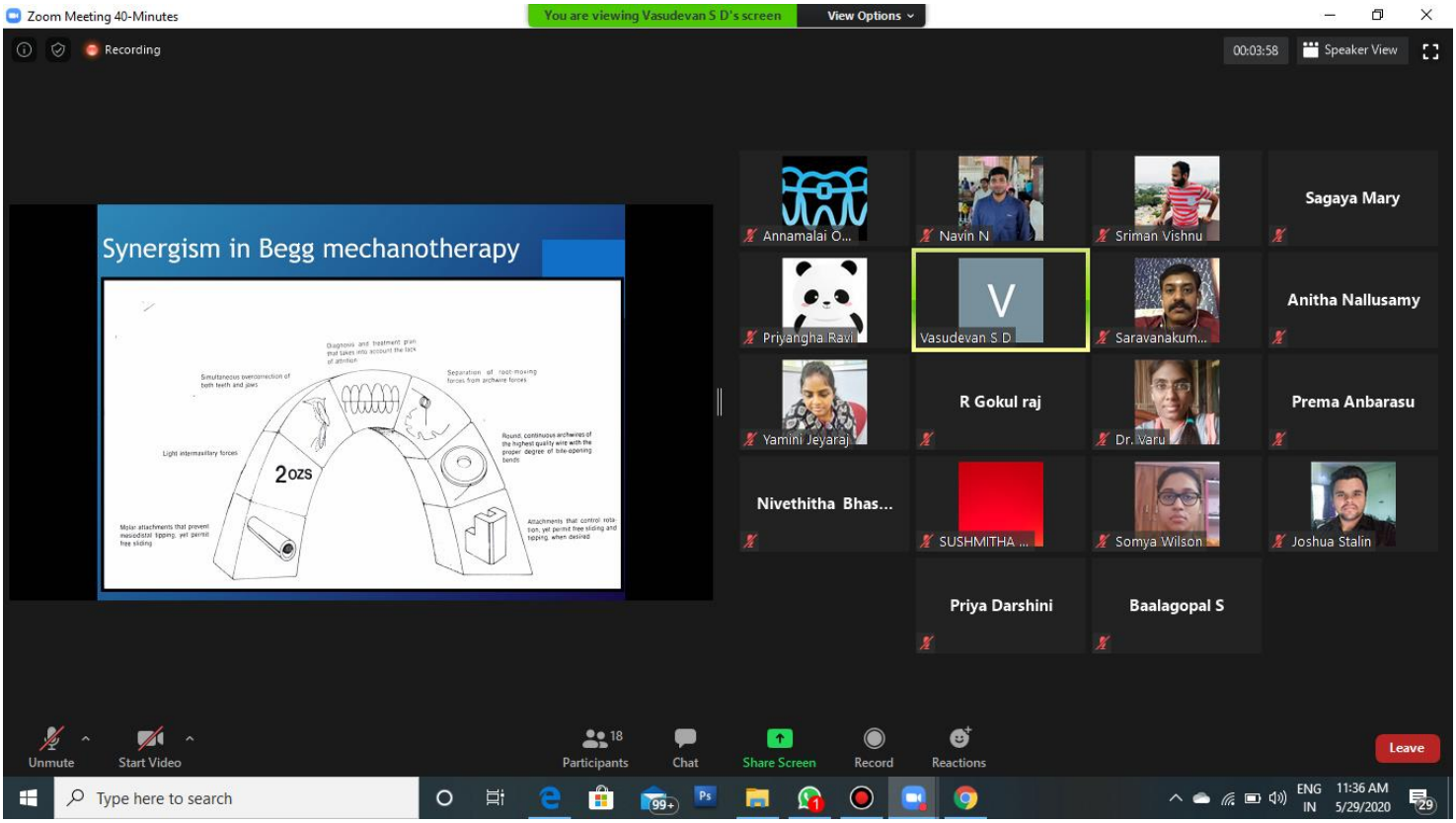

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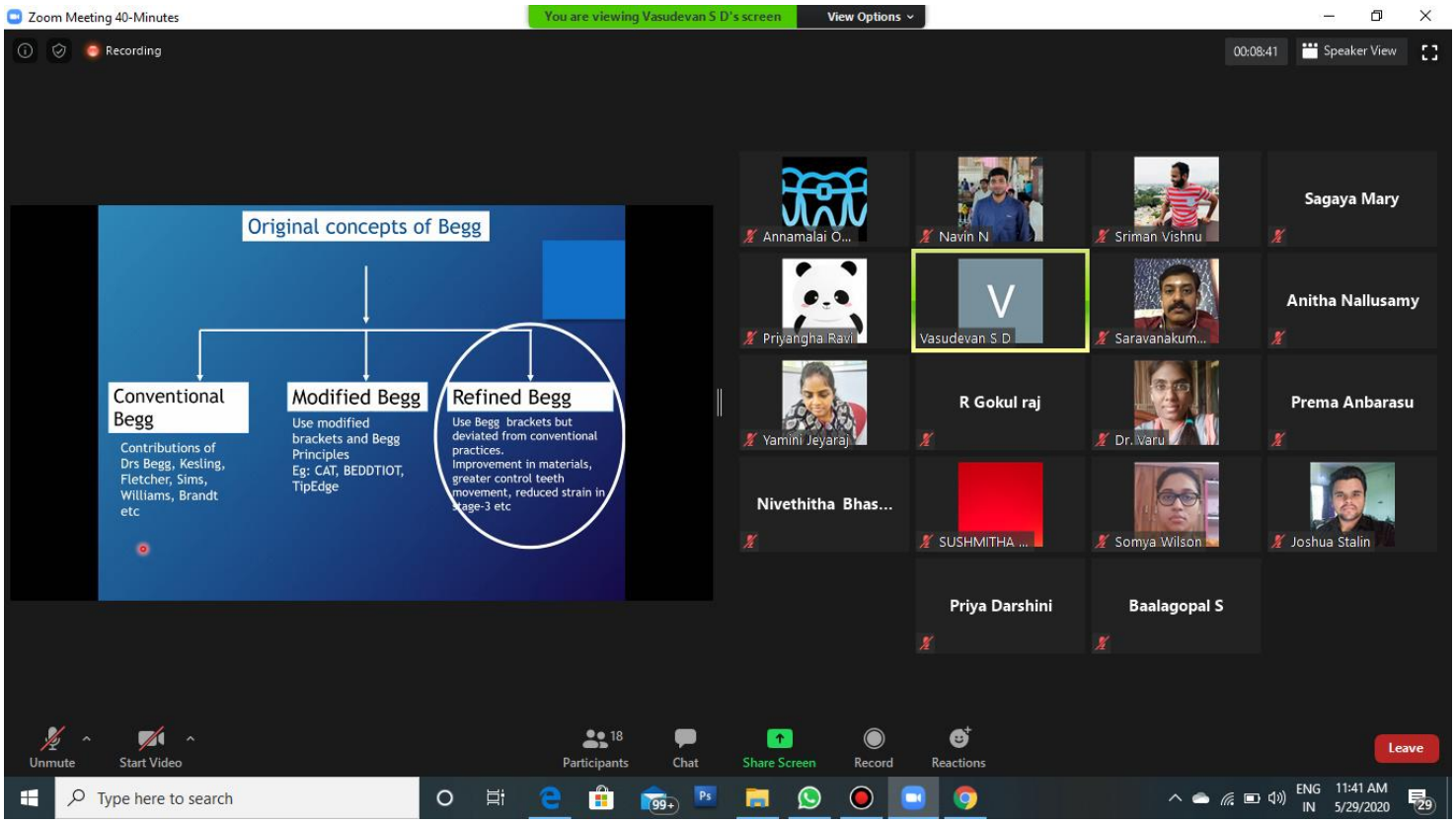


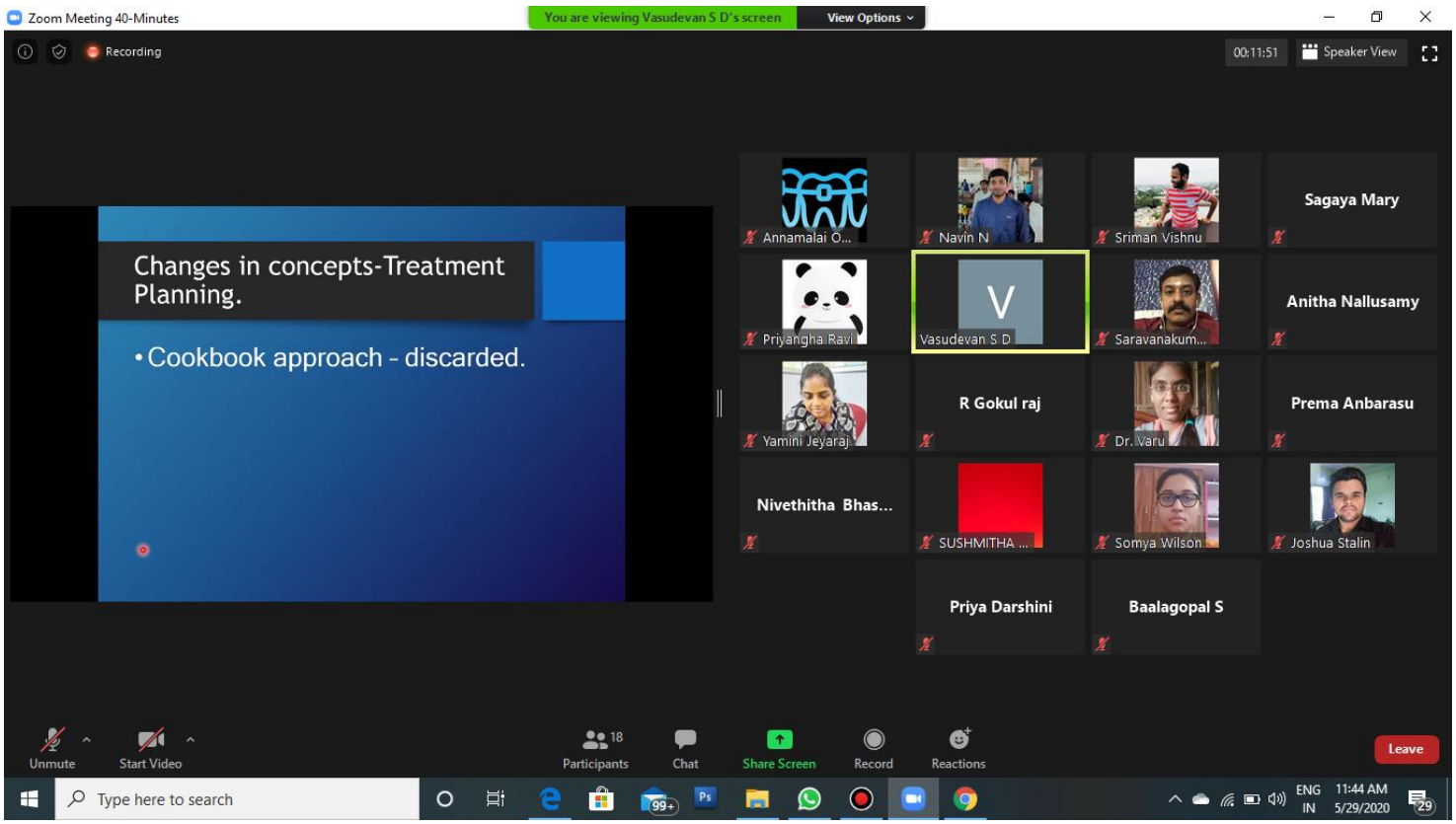

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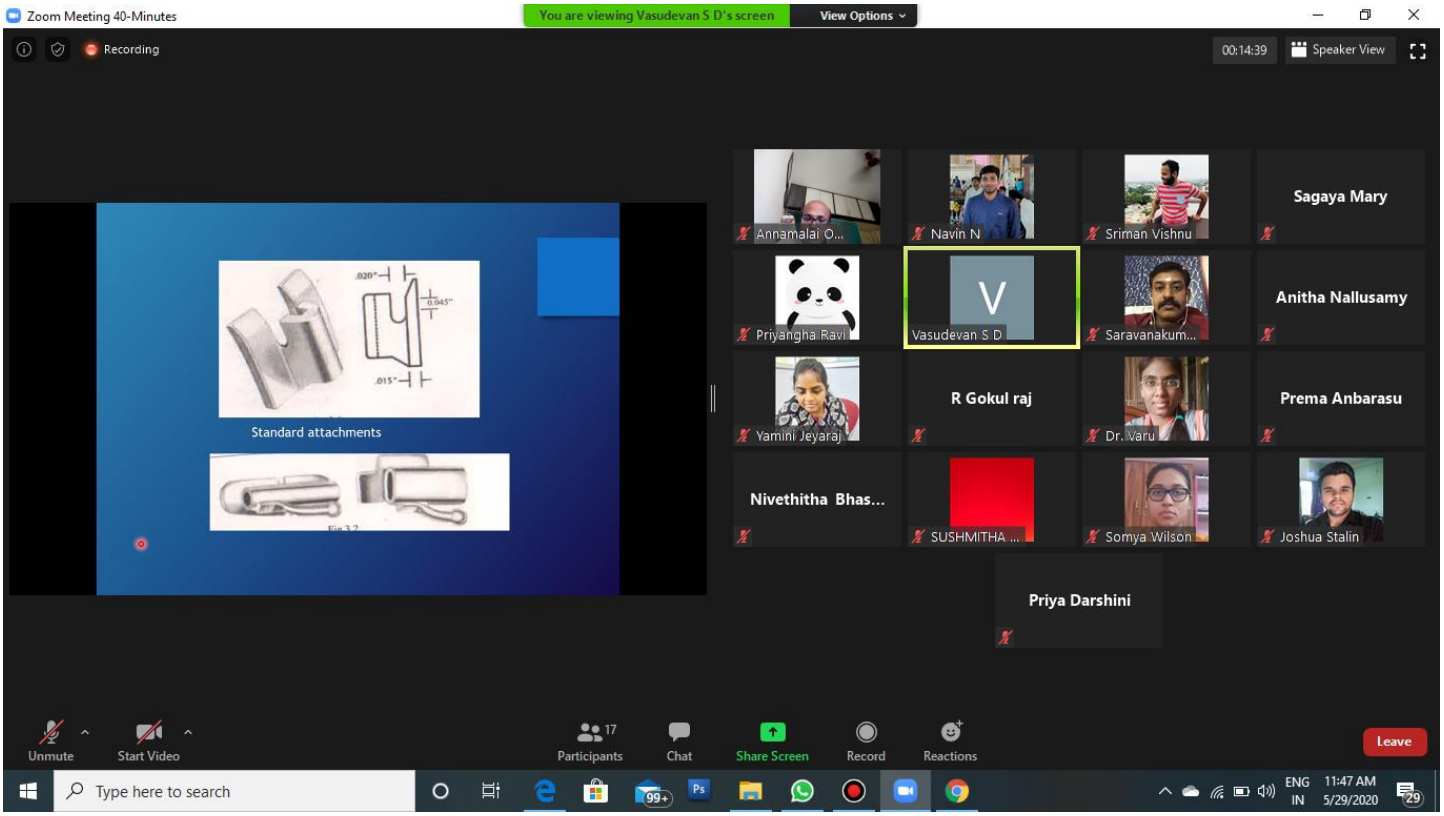


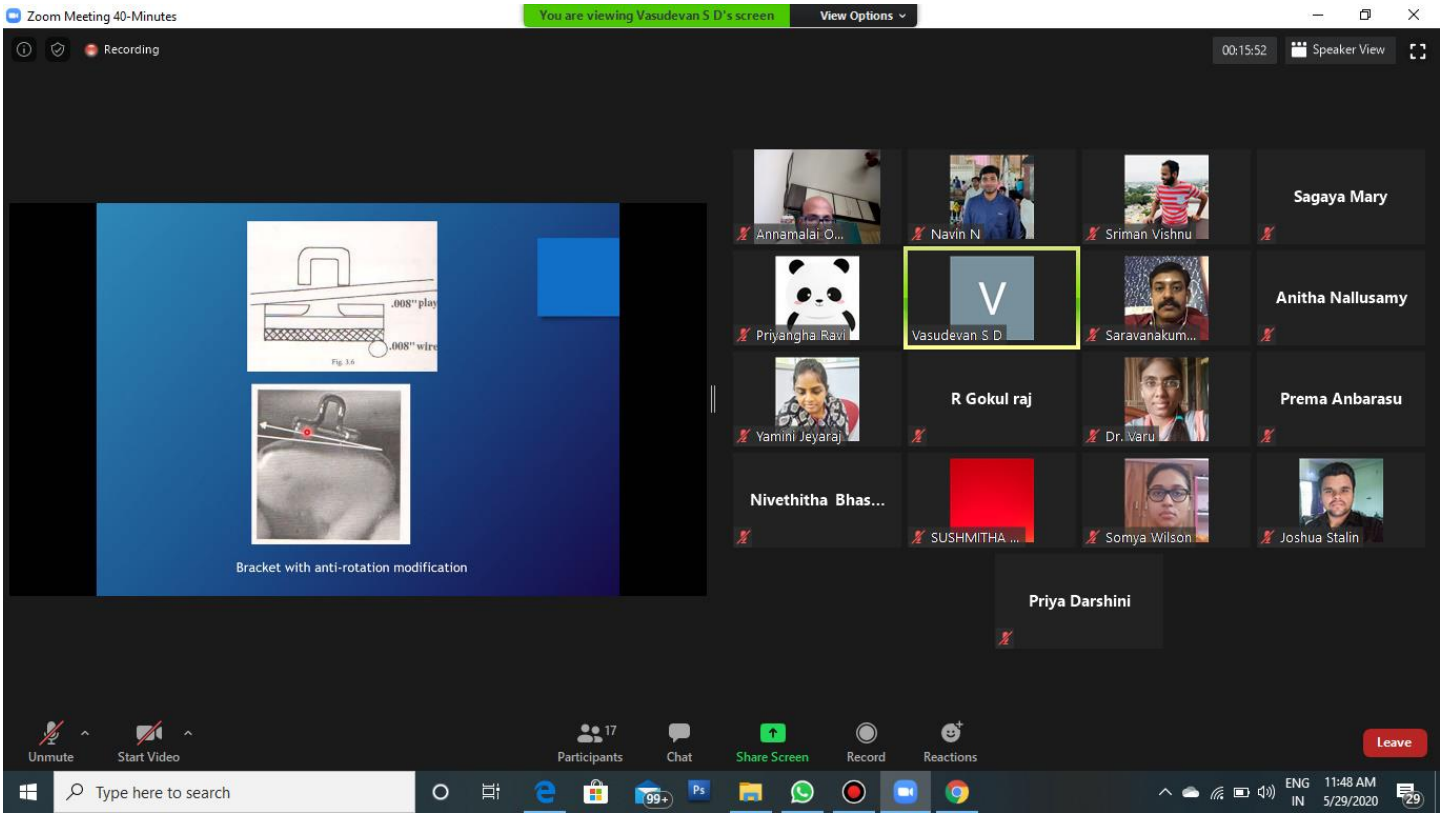

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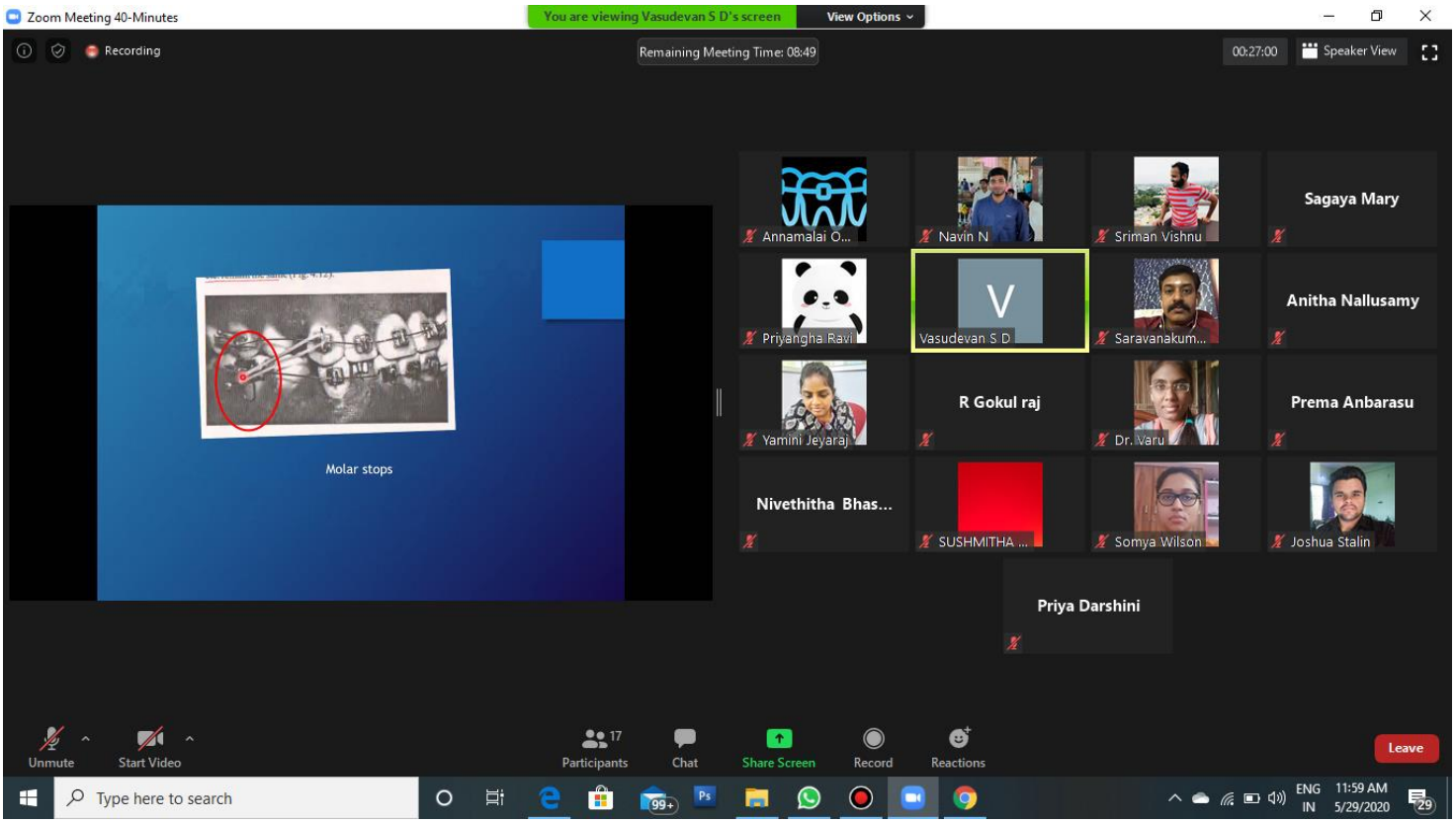


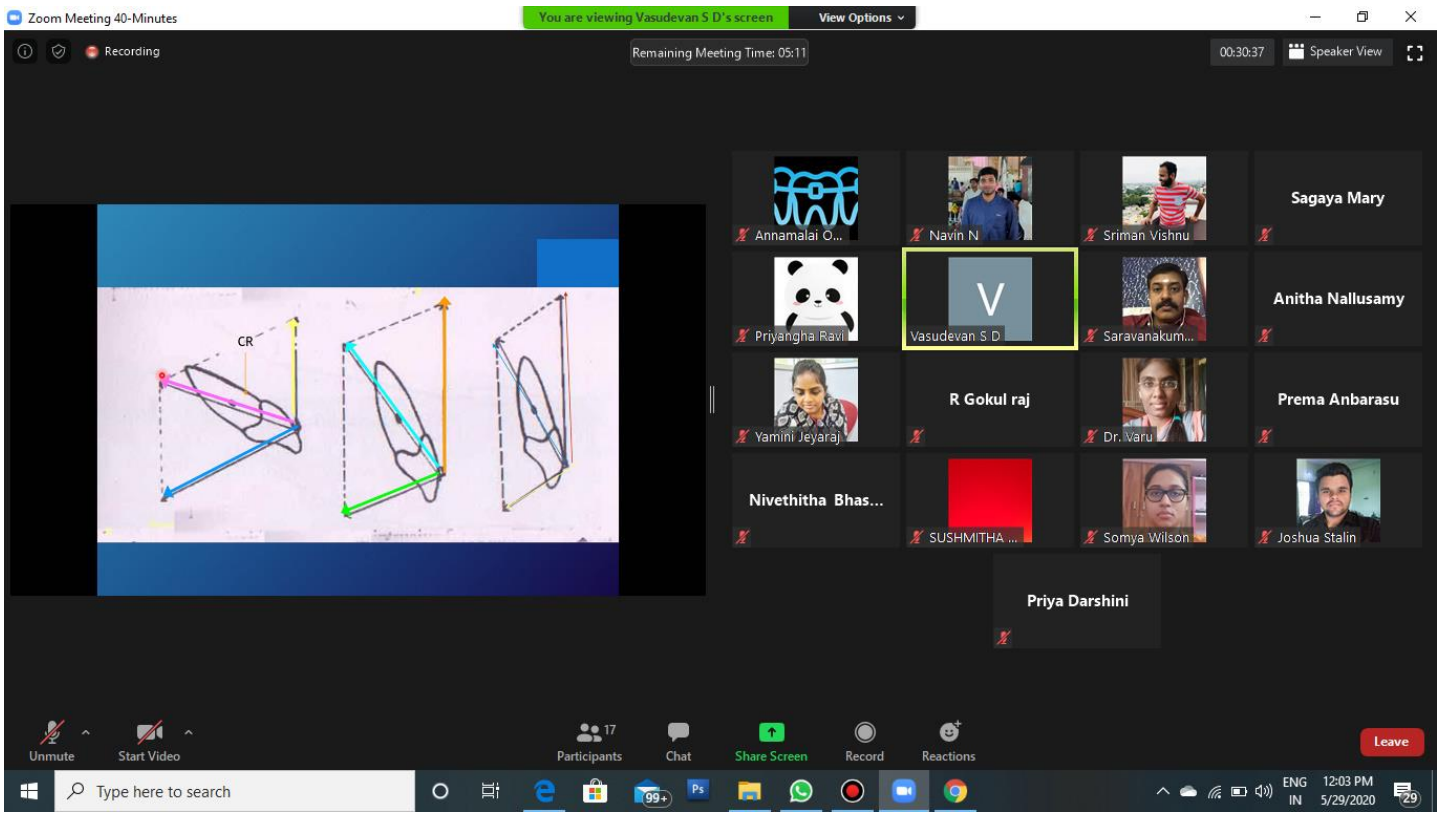

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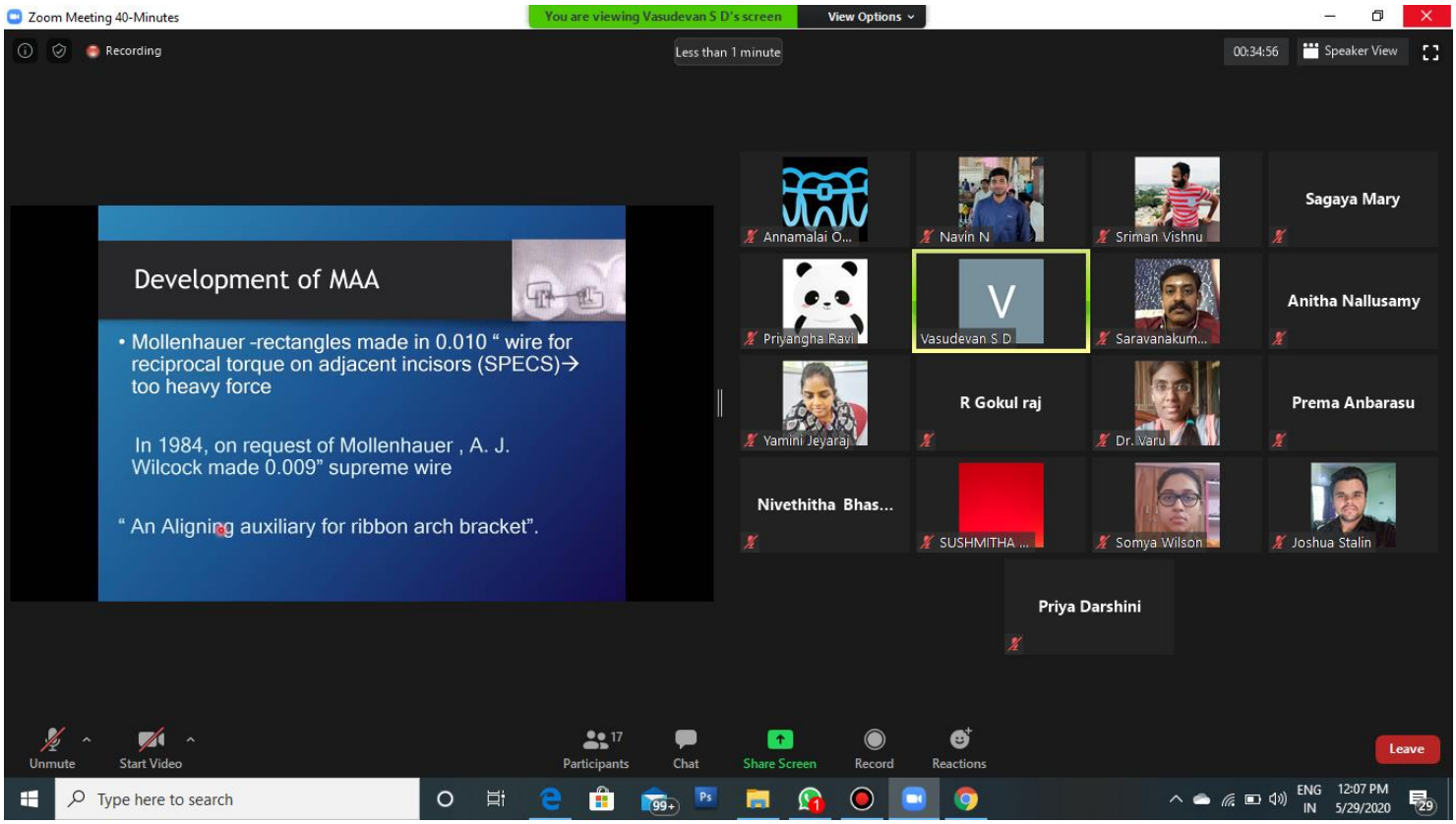


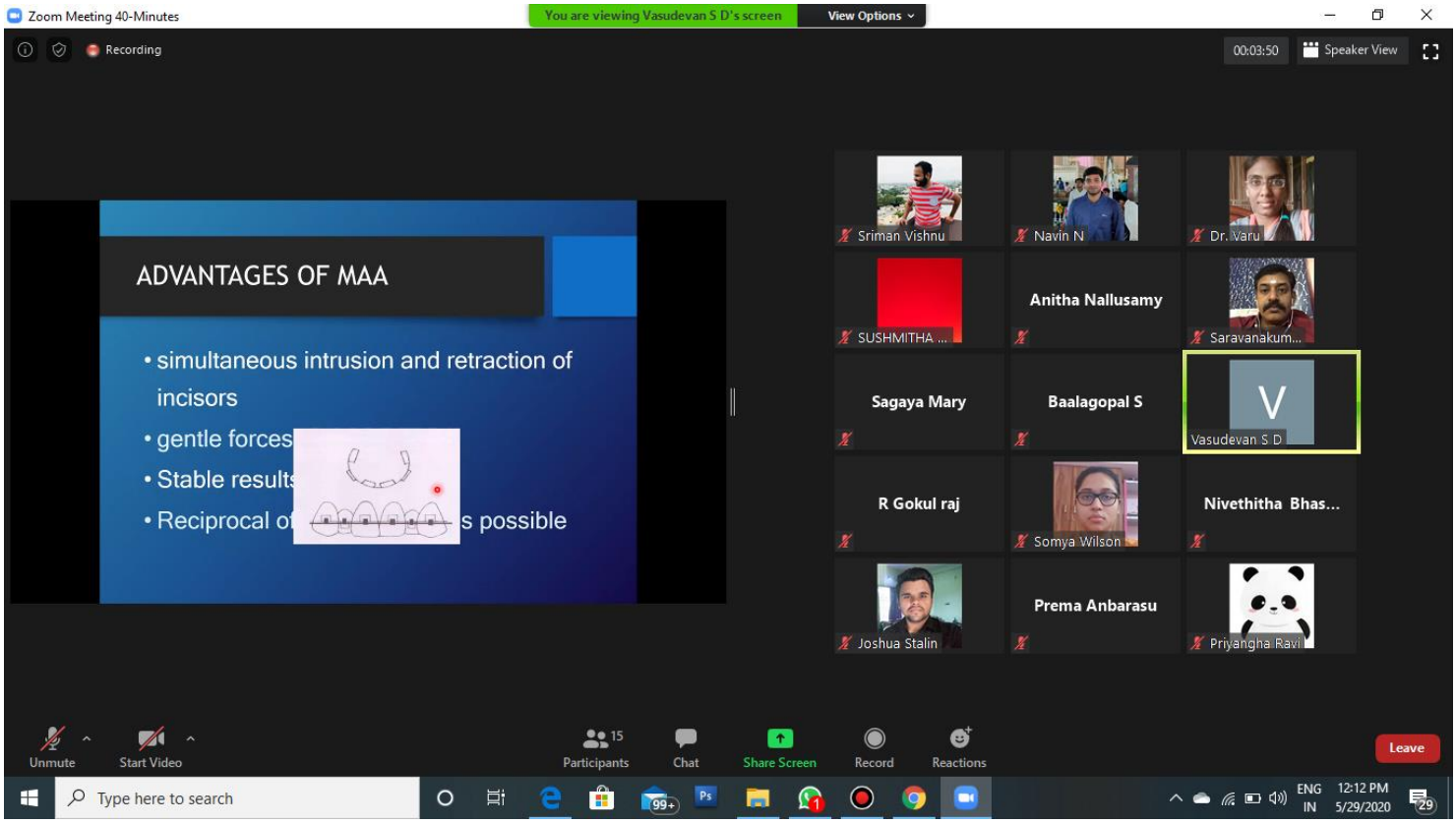

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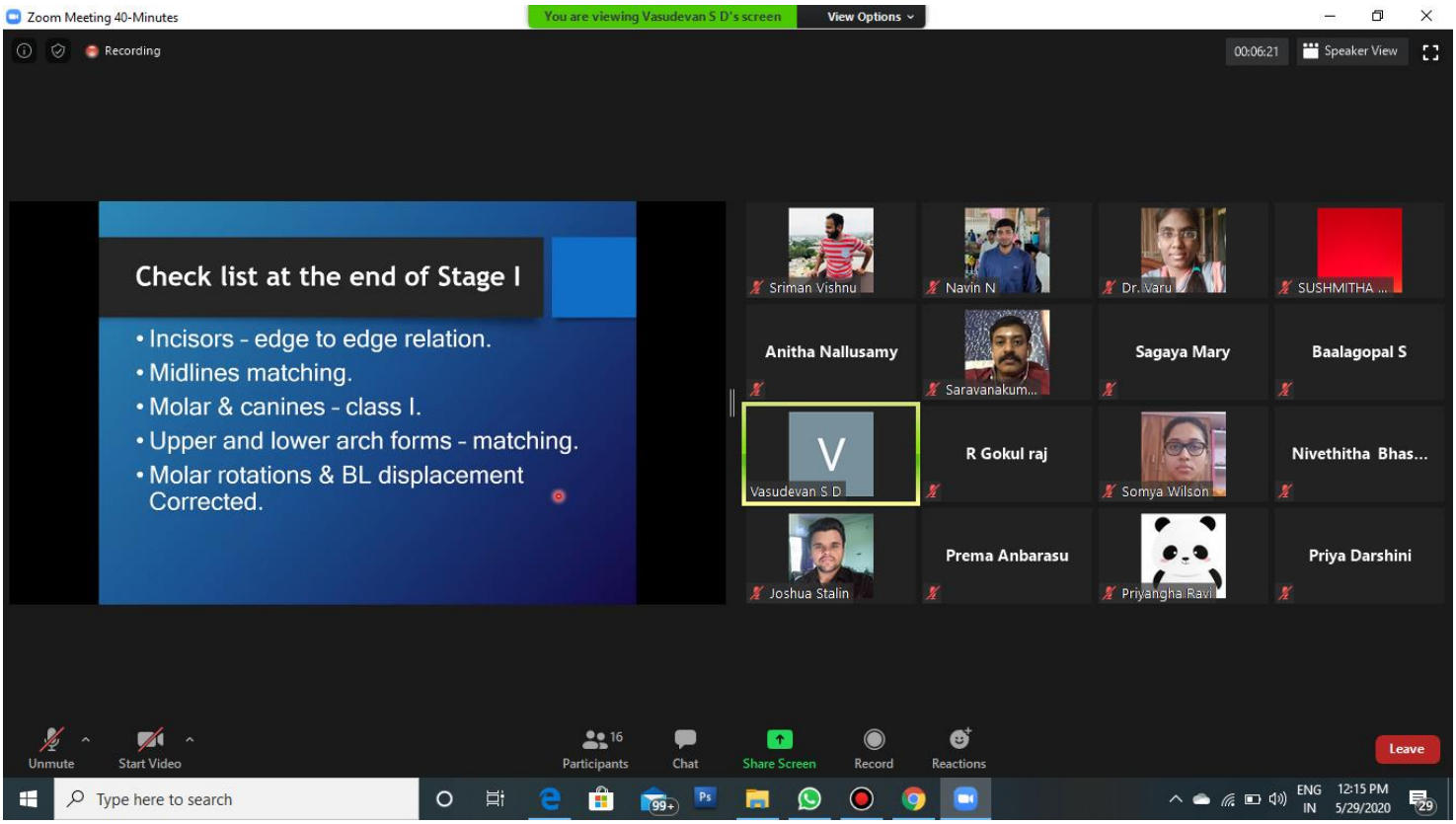


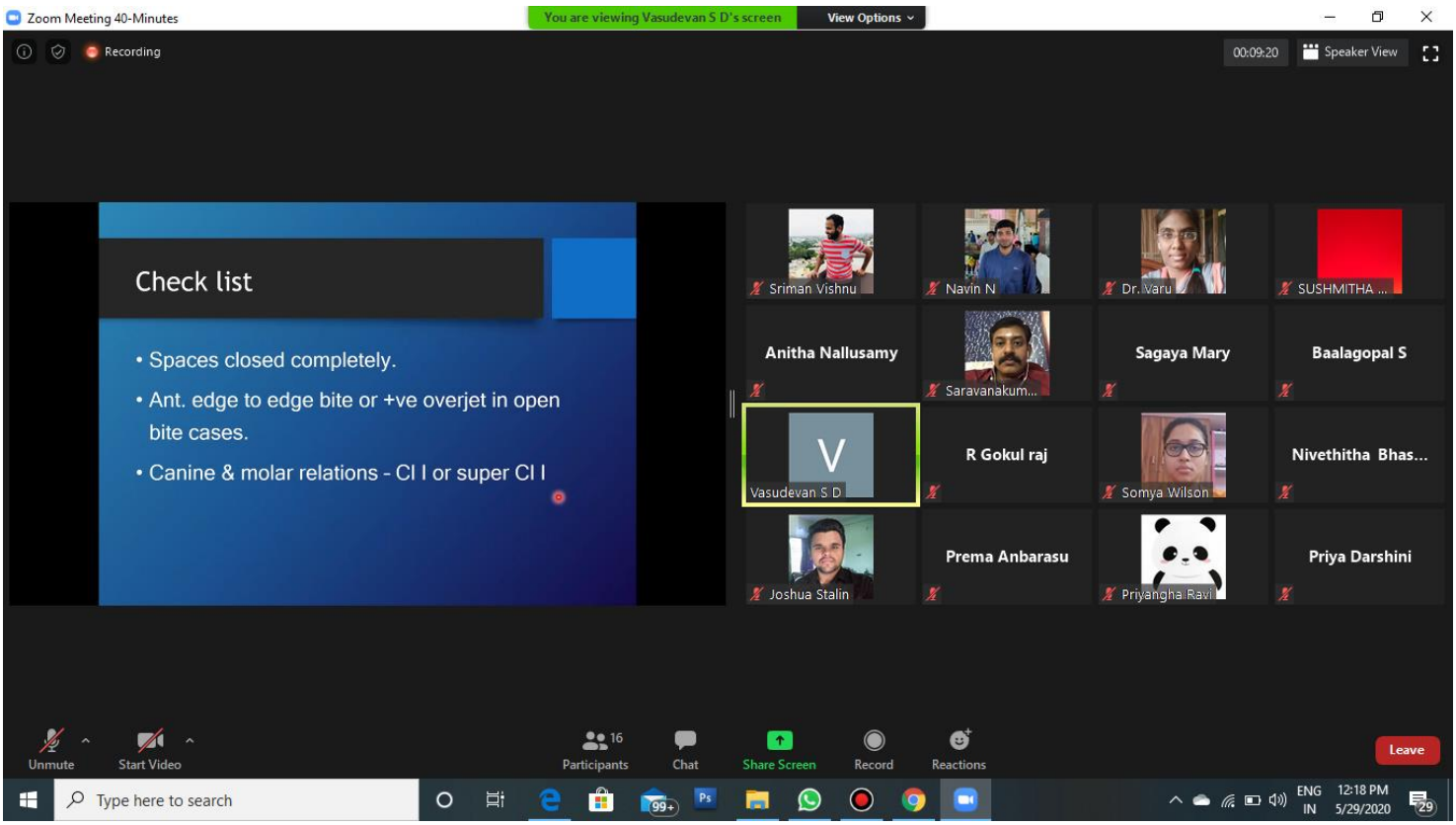

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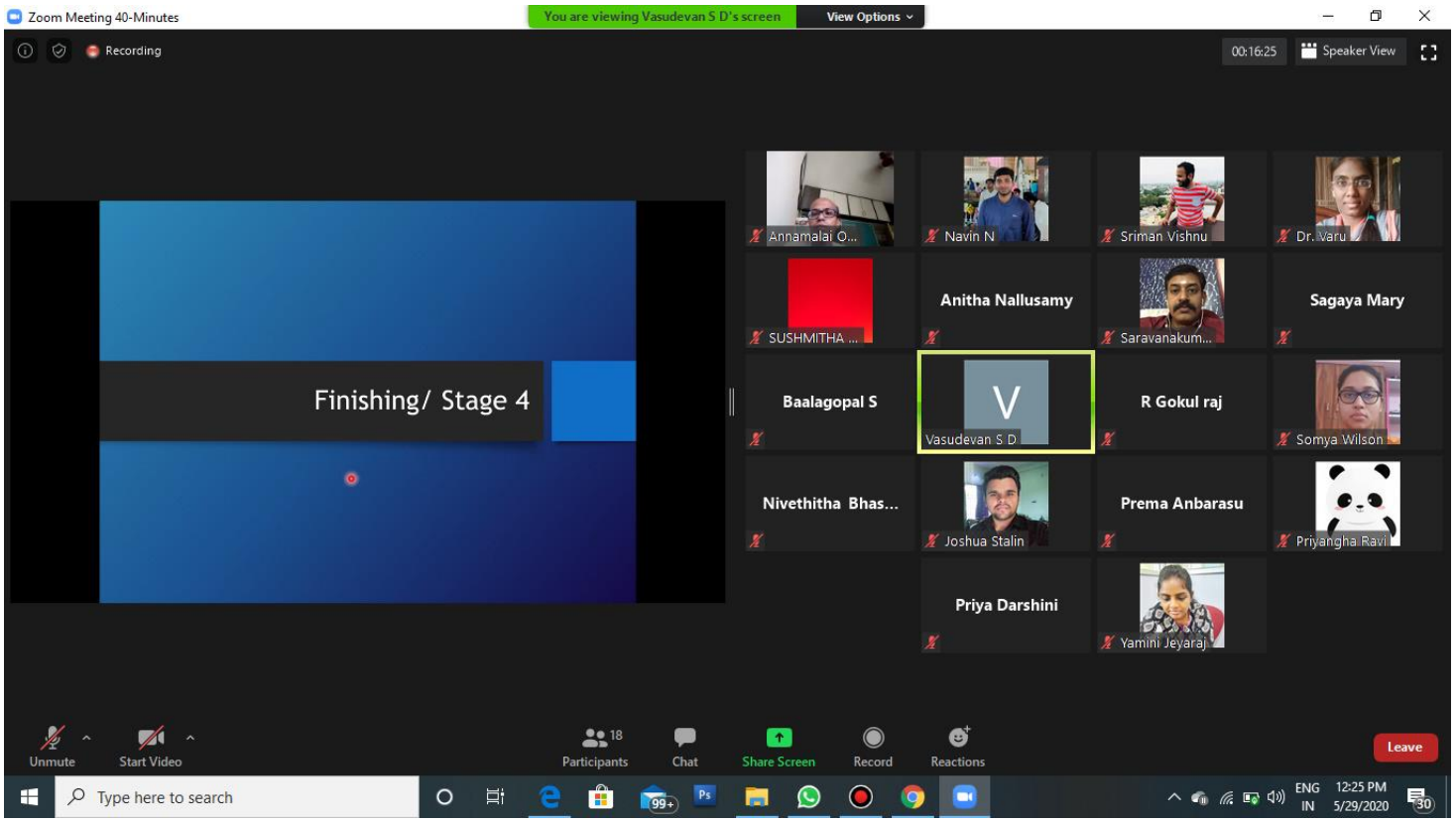


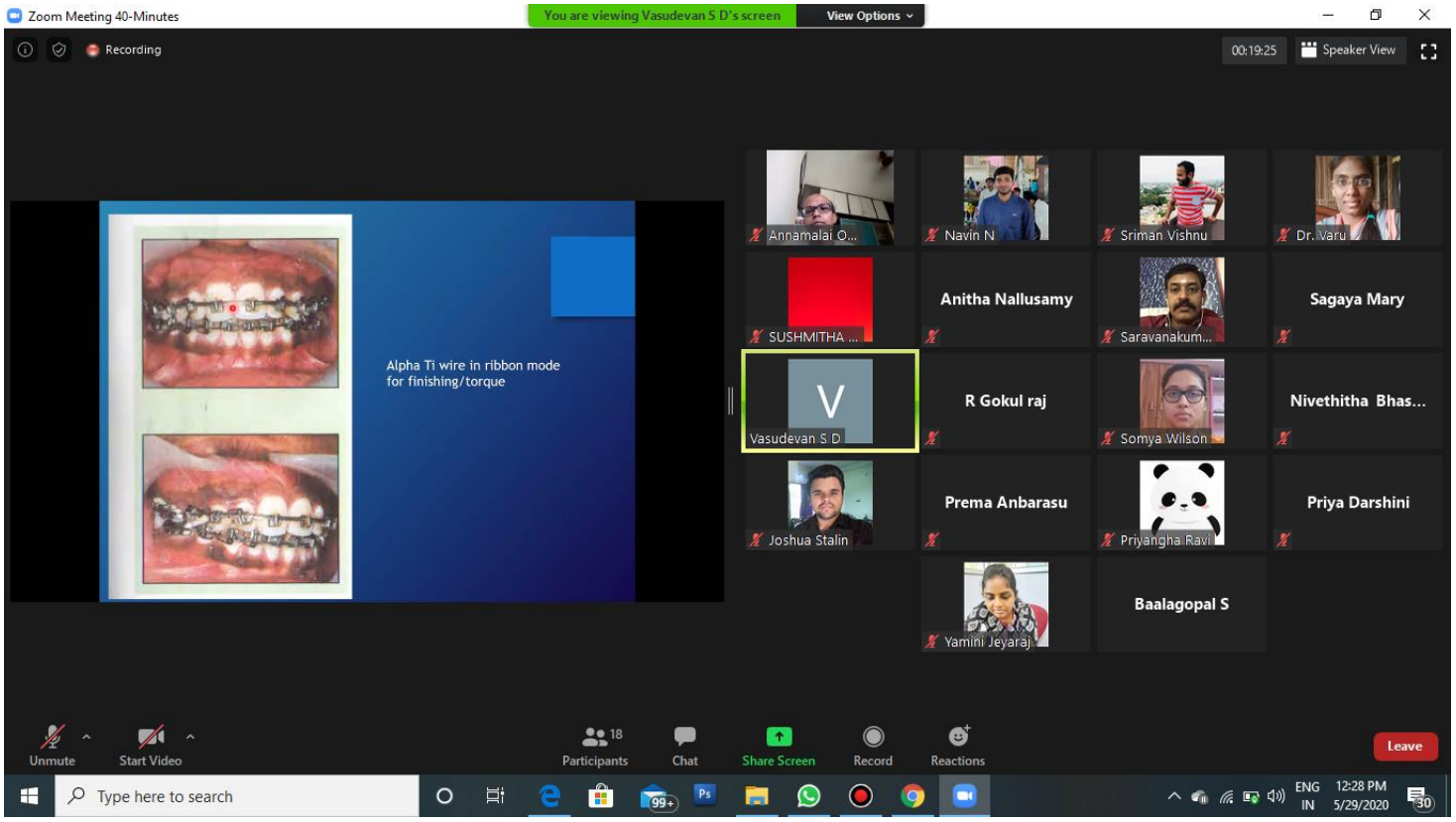

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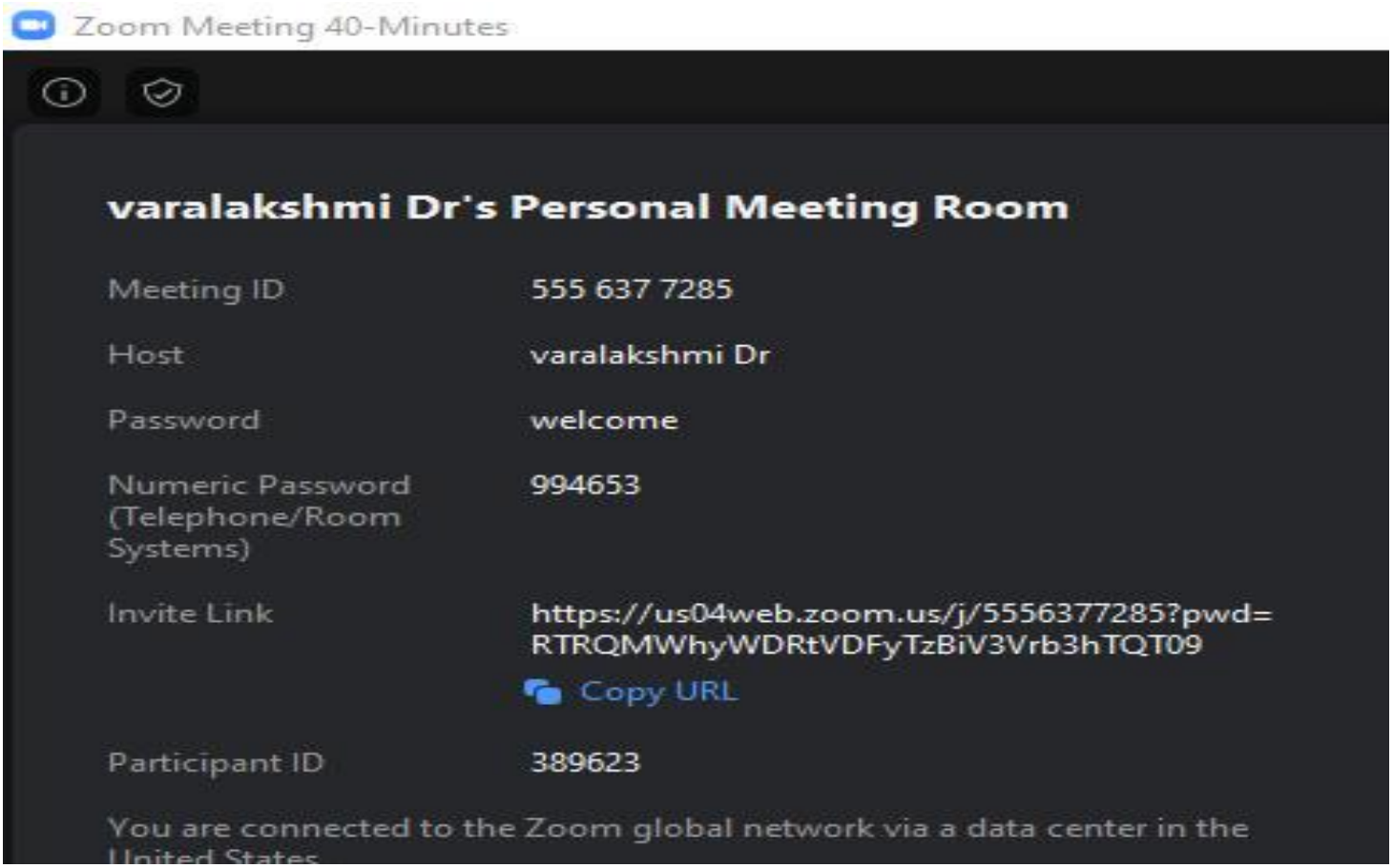
## DEPARTMENT OF ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

### E-Teaching/Learning sessions for Post Graduate

### Post Graduate academic schedule

| DATE | TOPIC | PRESENTER | PARTIPANTS |
|---|---|---|---|
| 30.05.2020 | Blood markers on orthodontic root resorption | Dr.priyangha | 16 |
| 30.5.2020 | Servo system- Guest Lecture | Dr.Poornima | 17 |



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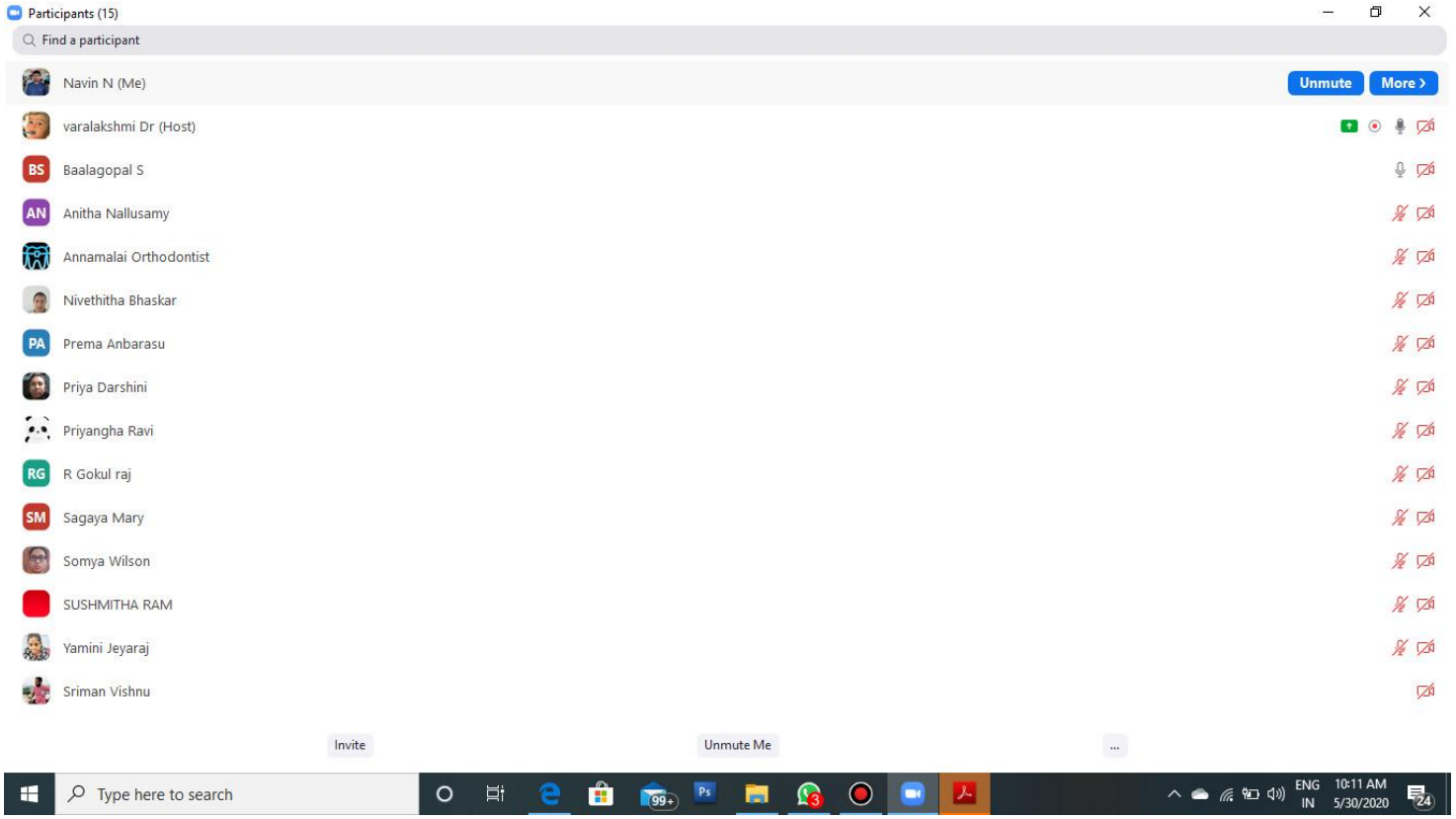


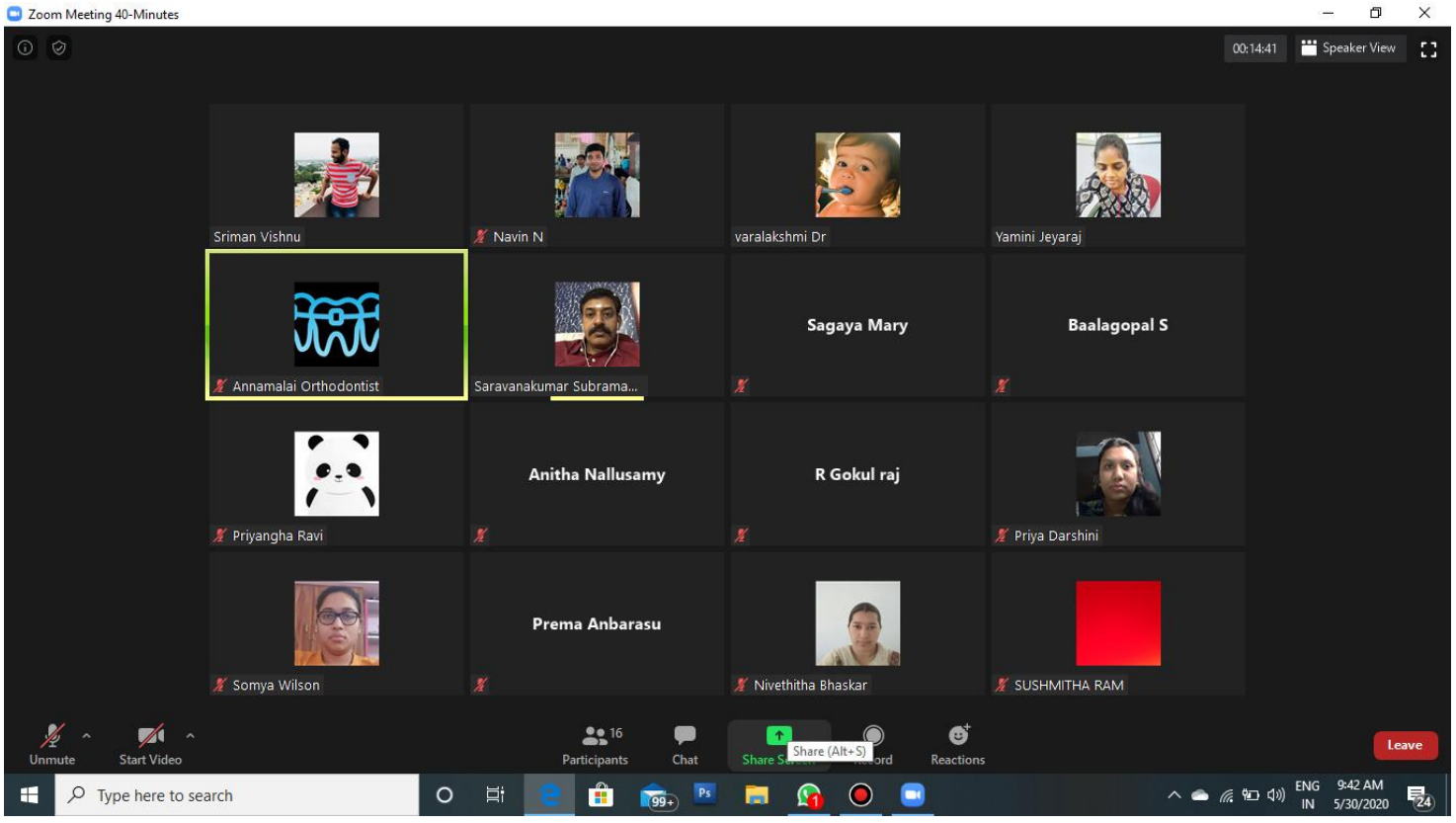

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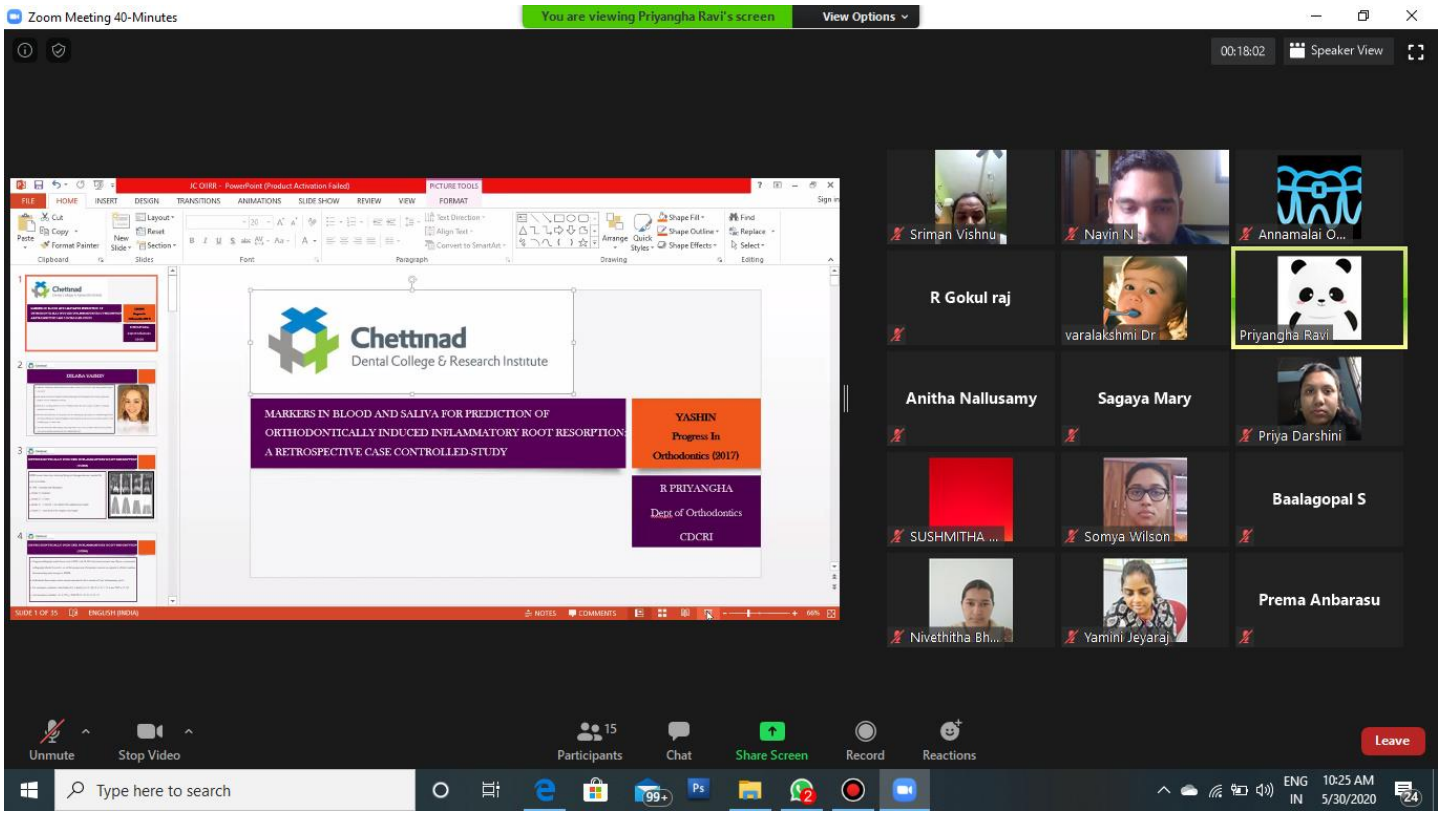


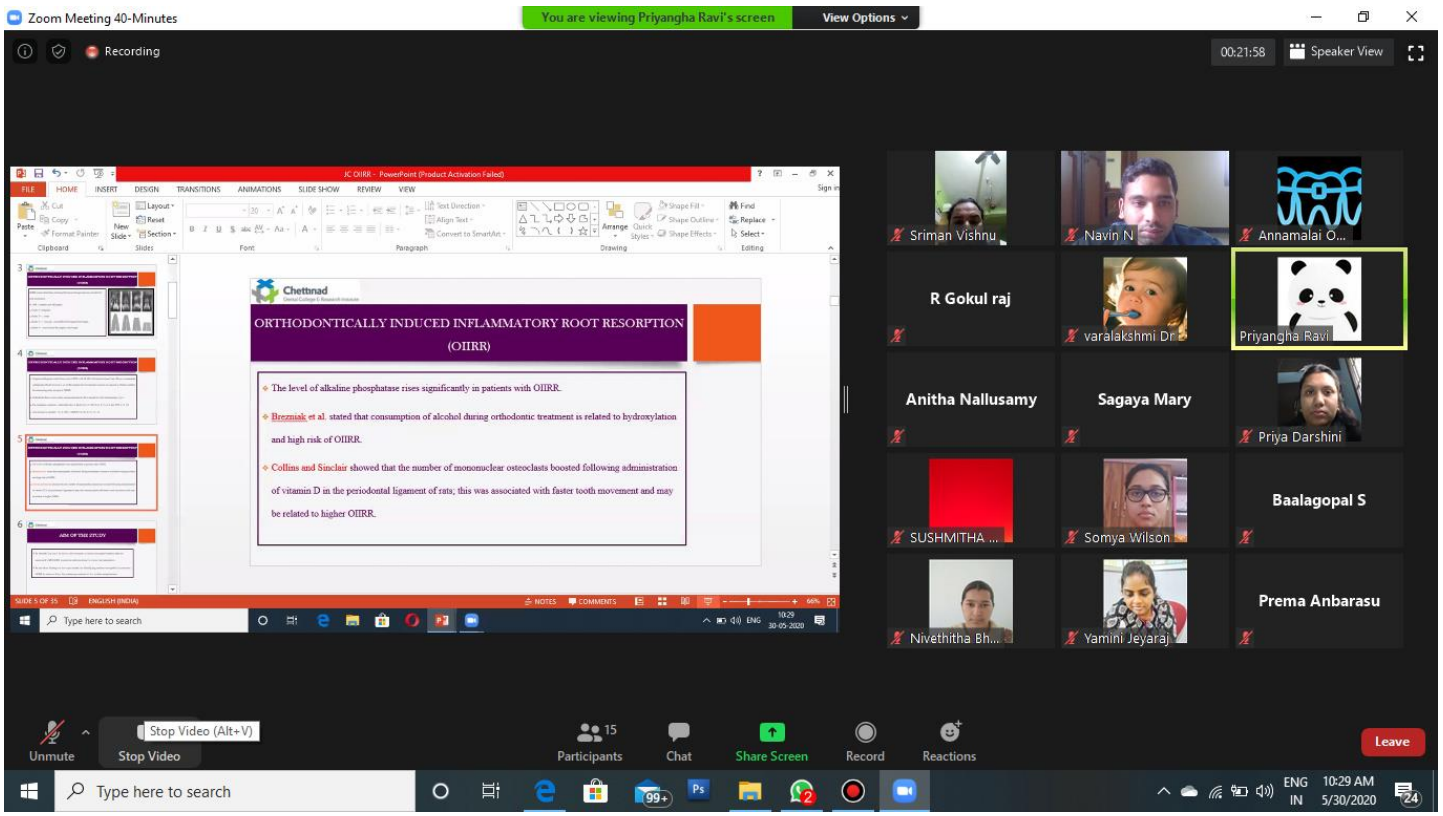

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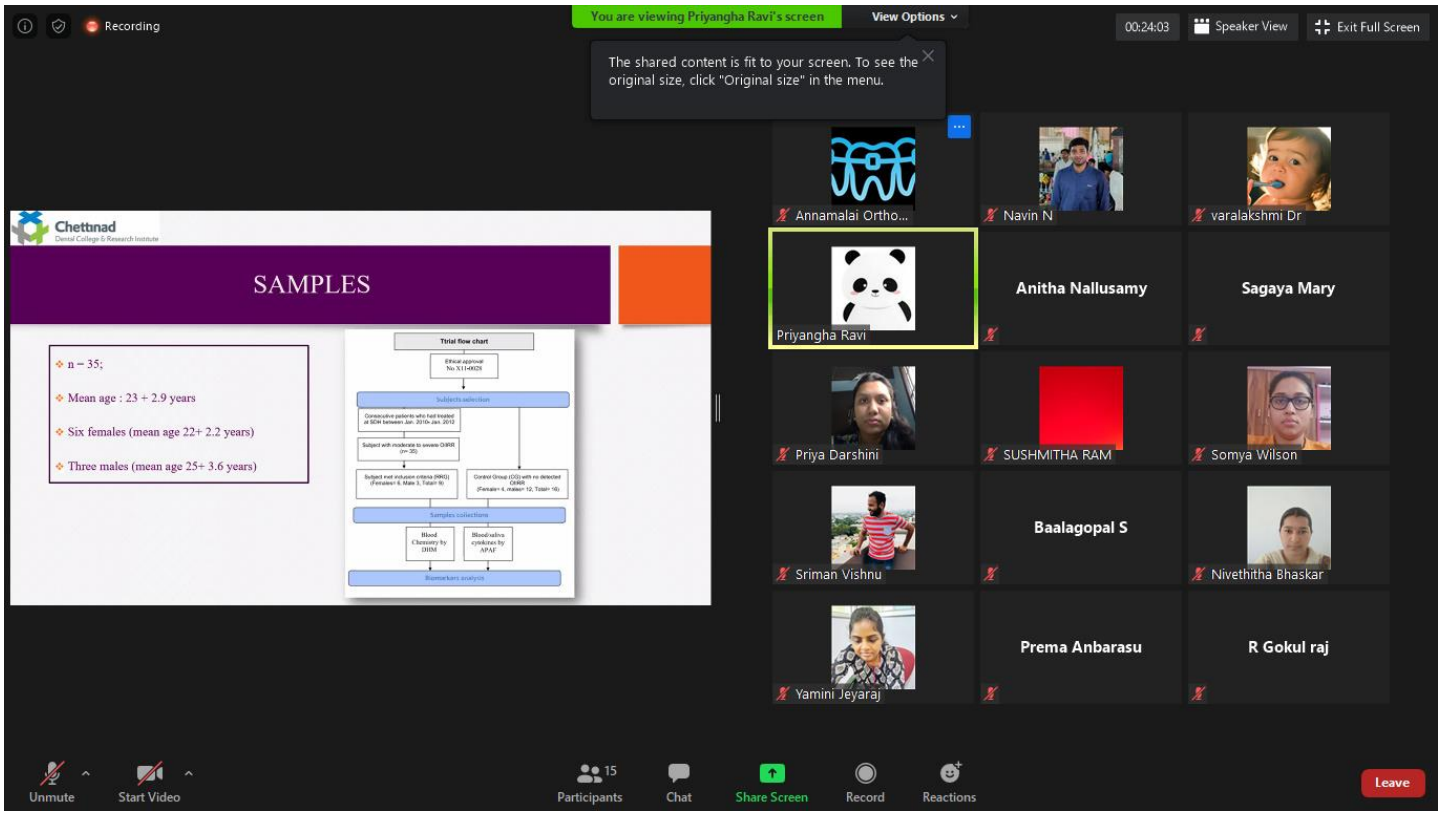


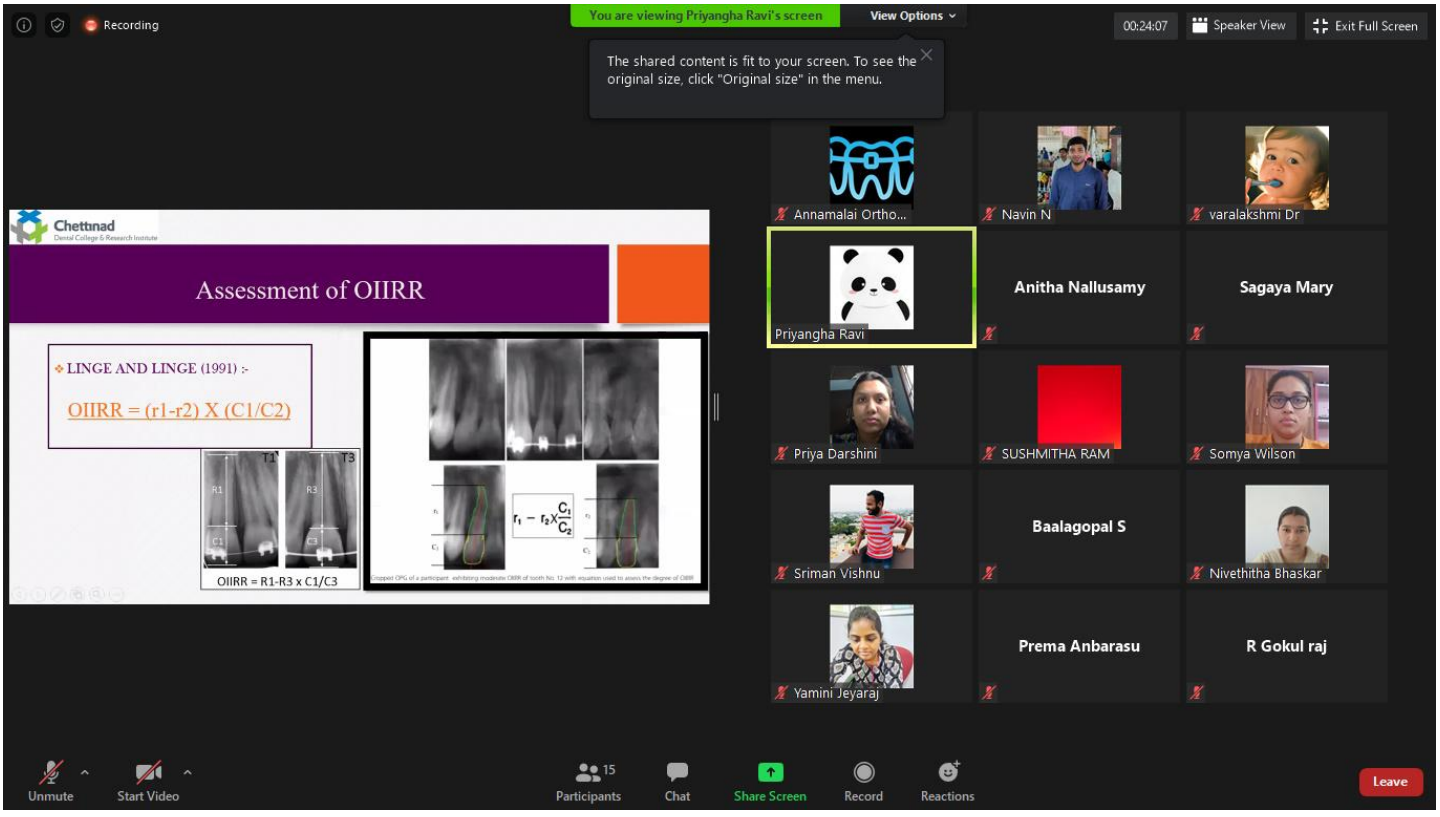

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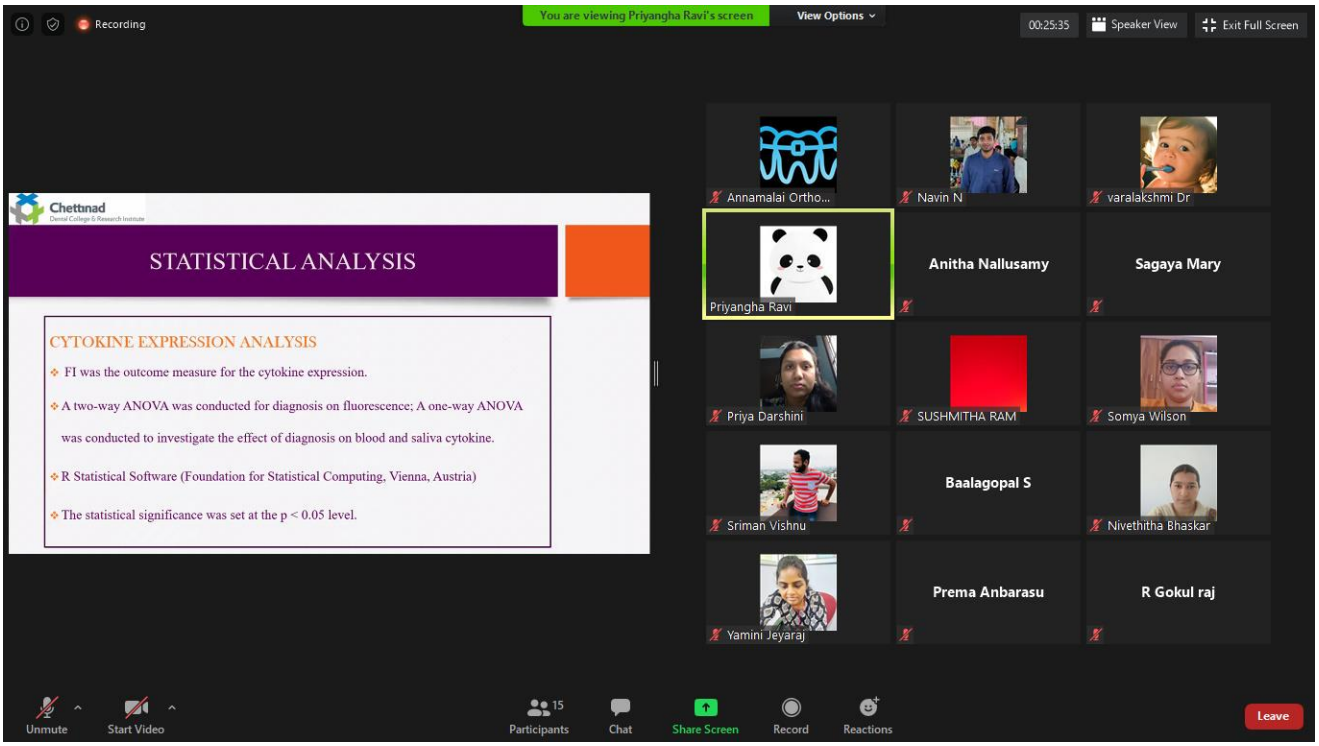


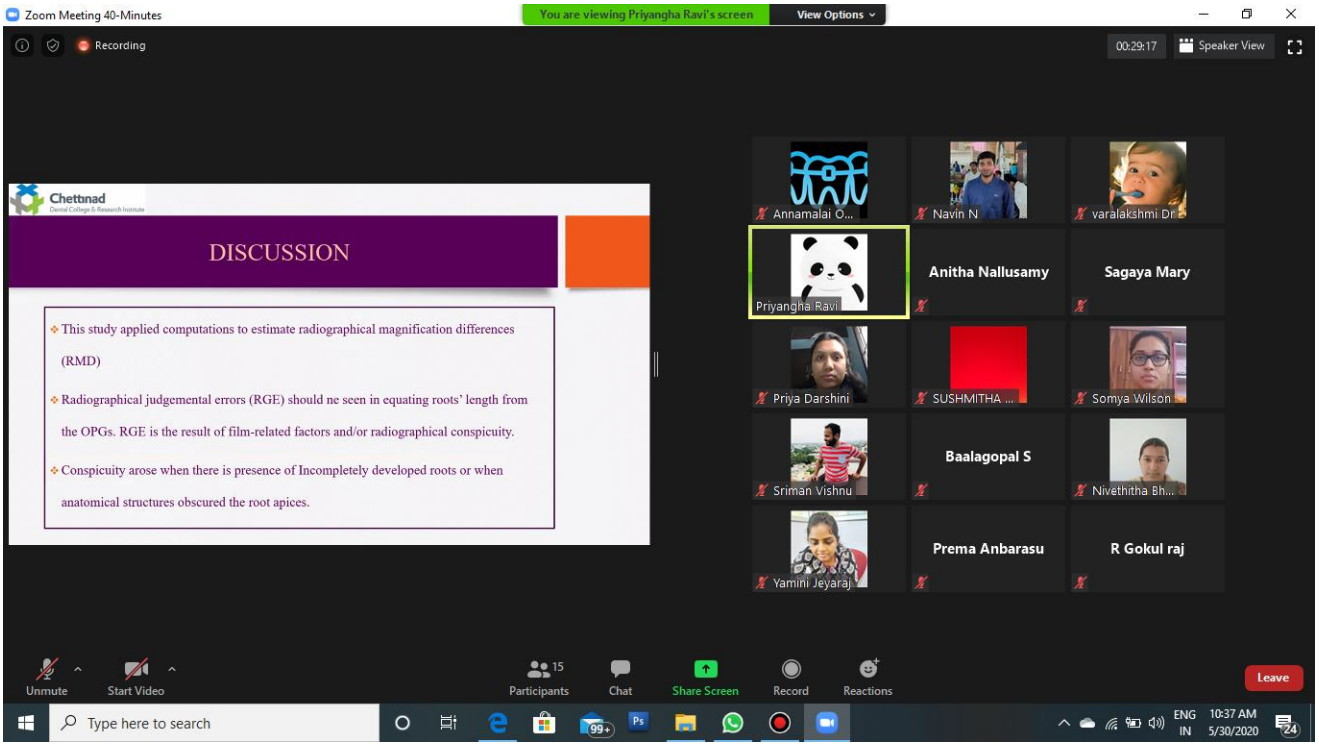

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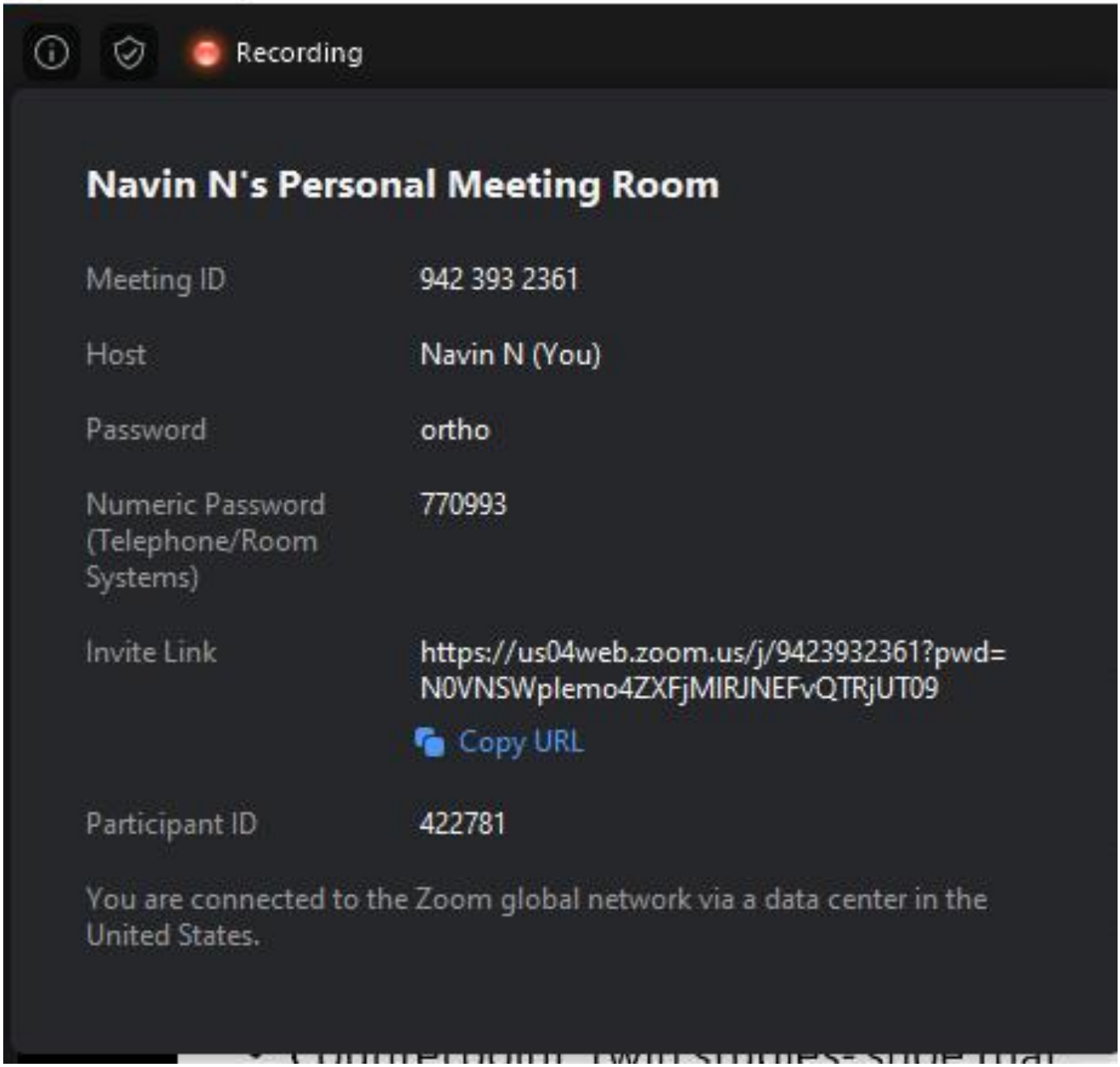
Zoom Meeting 40-Minutes



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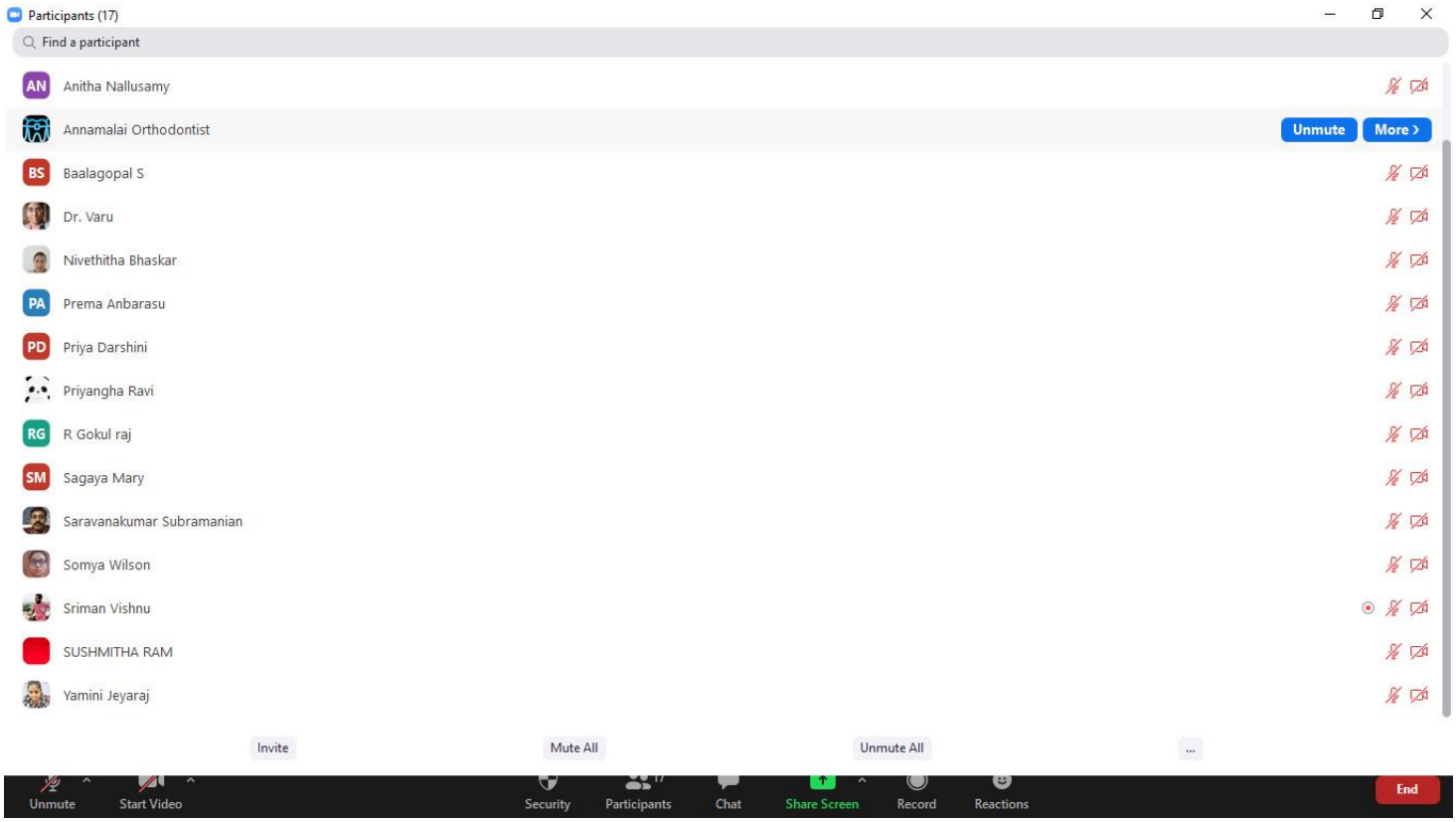


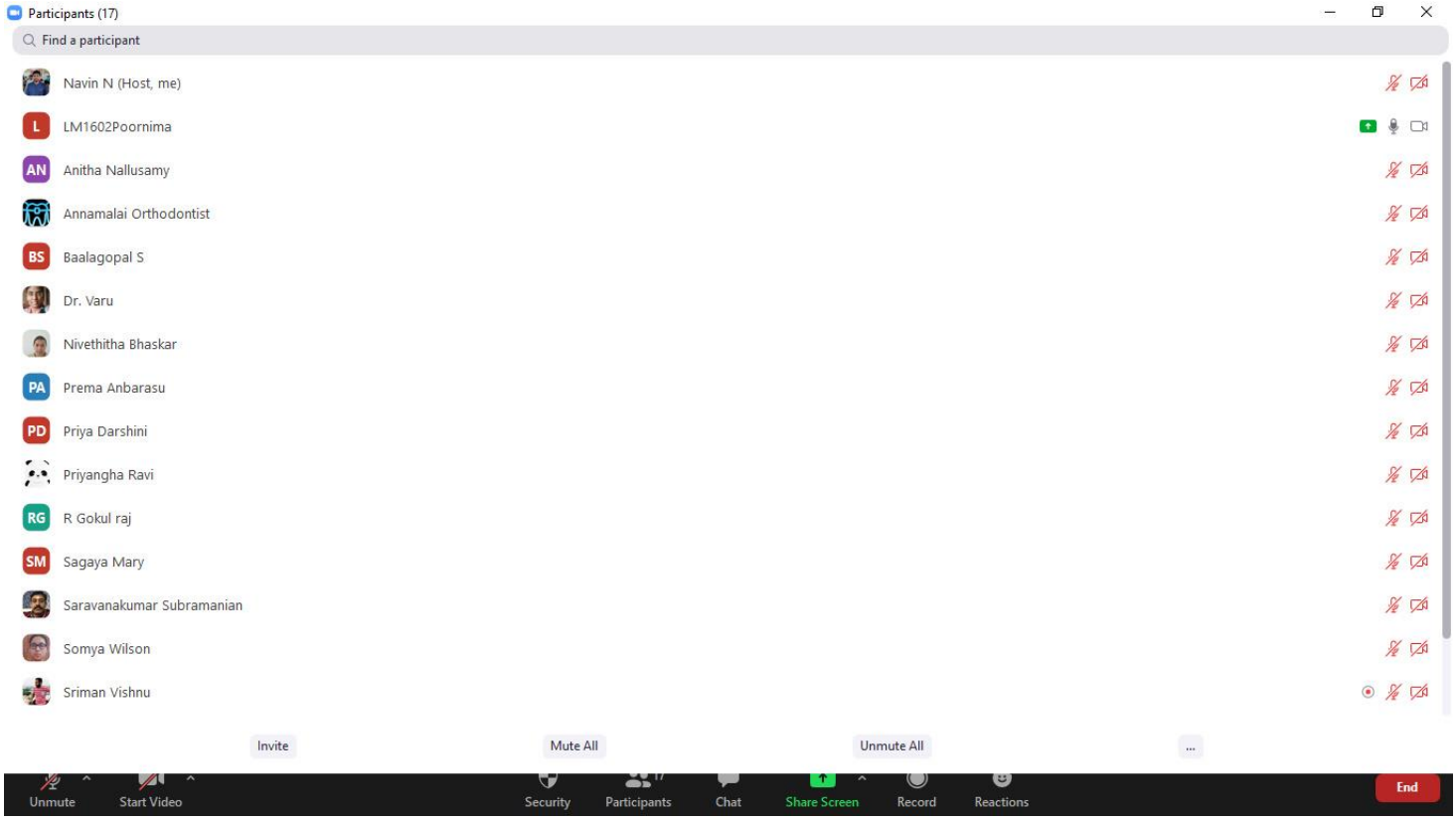

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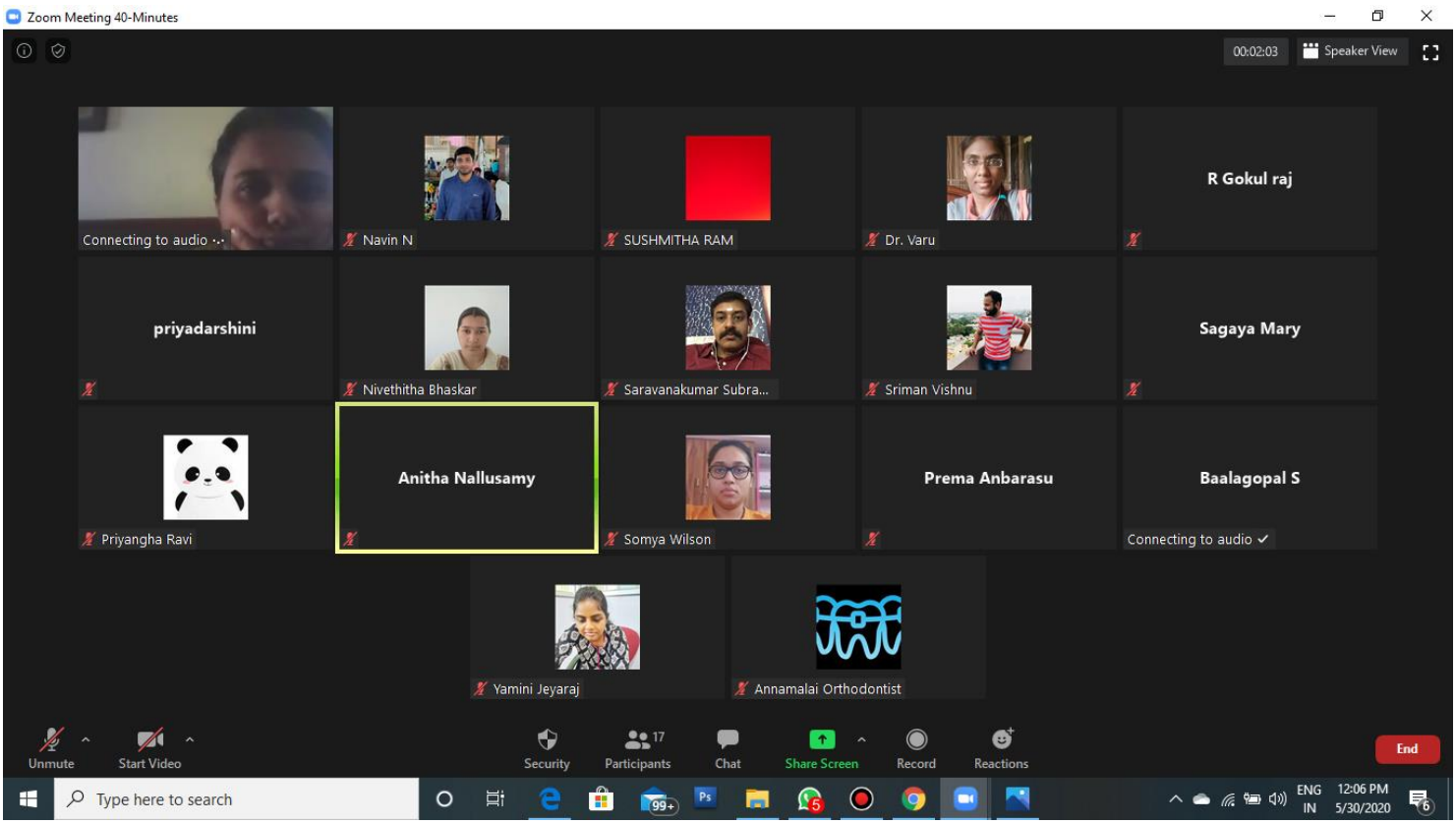


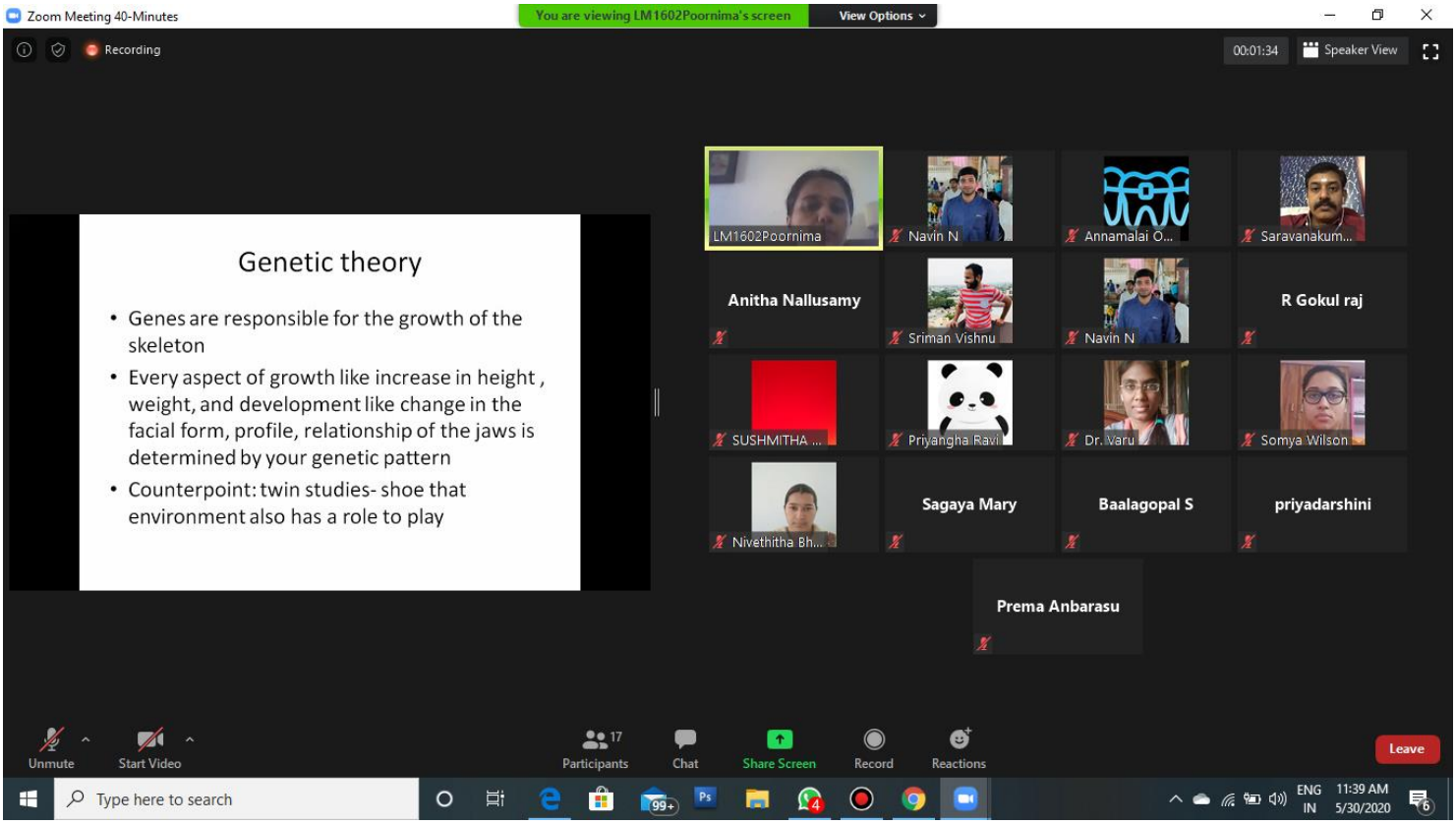

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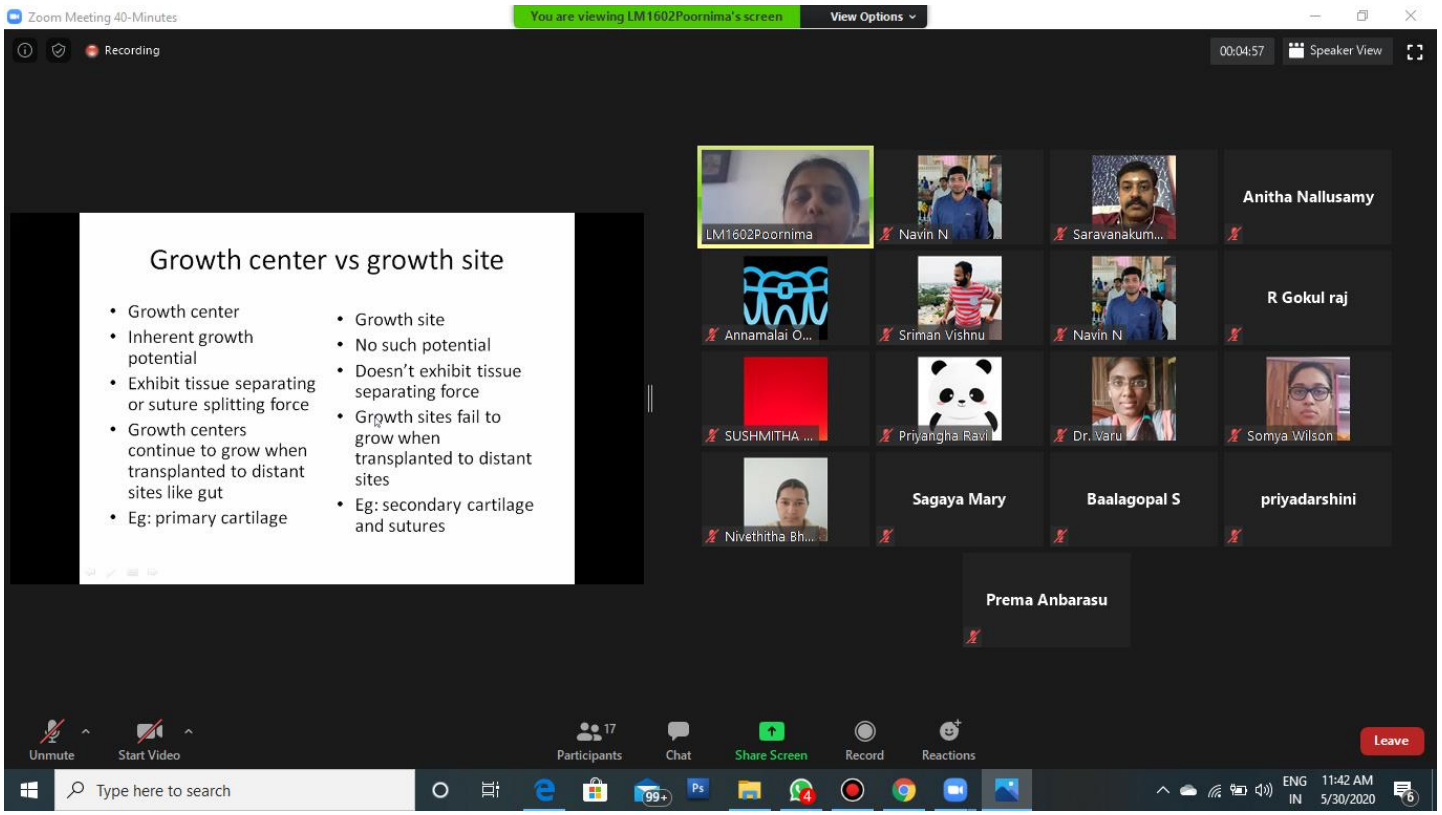


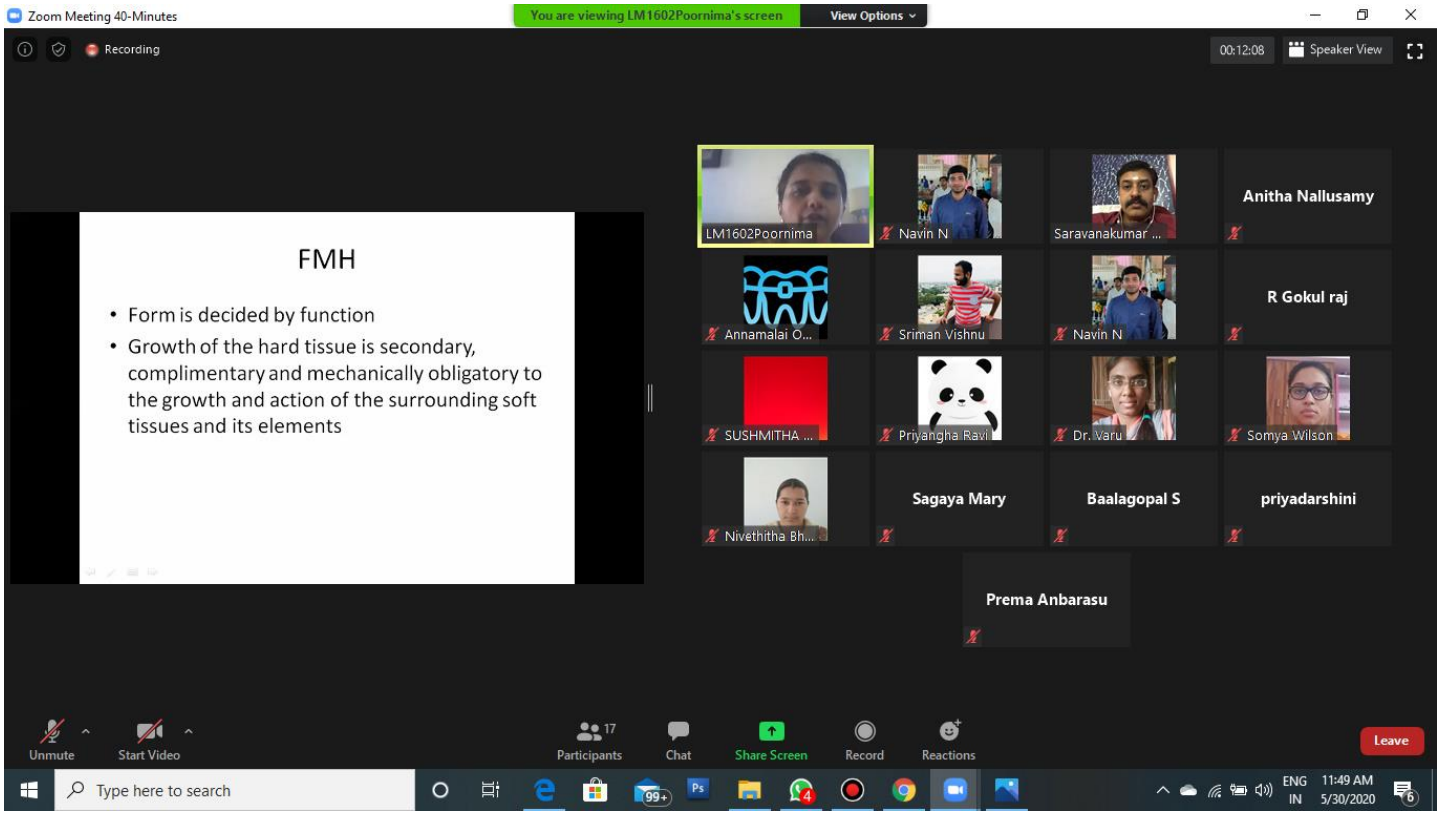

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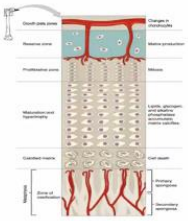
Zoom Meeting 40-Minutes — You are viewing LM1602Poornima's screen — View Options

Recording — 00:08:16 — Speaker View

## Layers of cartilage

- Zone of growth
- Zone of maturation
- Zone of erosion
- Zone of endochondral ossification



LM1602Poornima, Navin N, Saravanakum..., Anitha Nallusamy, Annamalai O..., Sriman Vishnu, Navin N, R Gokul raj, SUSHMITHA ..., Priyangha Ravi, Dr. Varu, Somya Wilson, Nivethitha Bh..., Sagaya Mary, Baalagopal S, priyadarshini, Prema Anbarasu

Unmute | Start Video | 17 Participants | Chat | Share Screen | Record | Reactions | Leave

Type here to search — ENG IN 11:45 AM 5/30/2020

Zoom Meeting 40-Minutes — You are viewing LM1602Poornima's screen — View Options

Recording — 00:13:39 — Speaker View

## Parts of functional cranial component

| Skeletal unit | Functional matrix |
|---|---|
| Microskeletal unit- angle of mandible | Periosteal matrix- muscle fibers |
| Macroskeletal unit- maxilla and mandible | Capsular matrix – neurocranial and orofacial capsules |

LM1602Poornima, Navin N, Saravanakum..., Anitha Nallusamy, Annamalai O..., Sriman Vishnu, Navin N, R Gokul raj, SUSHMITHA ..., Priyangha Ravi, Dr. Varu, Somya Wilson, Nivethitha Bh..., Sagaya Mary, Baalagopal S, priyadarshini, Prema Anbarasu, Yamini Jeyaraj

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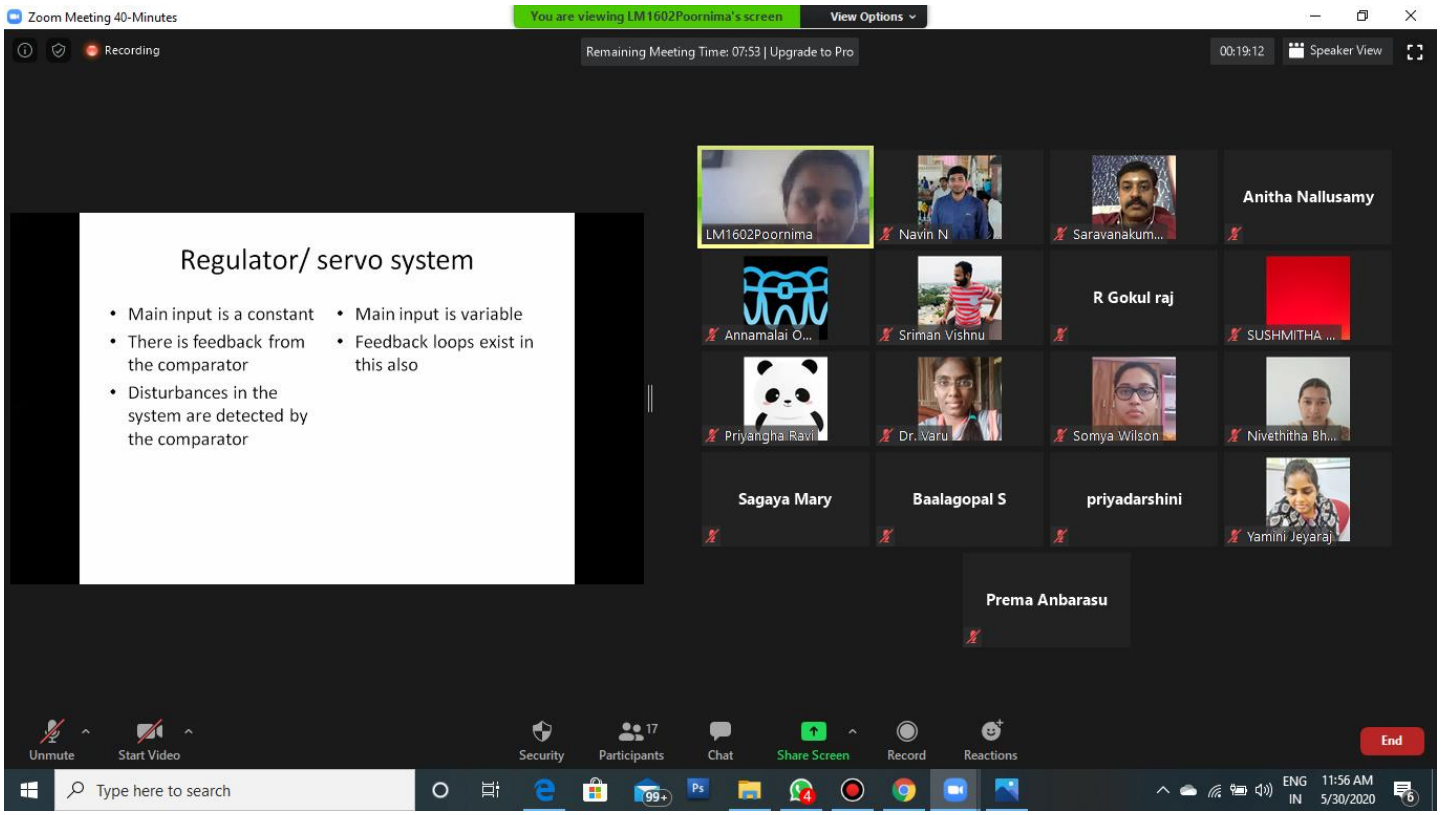


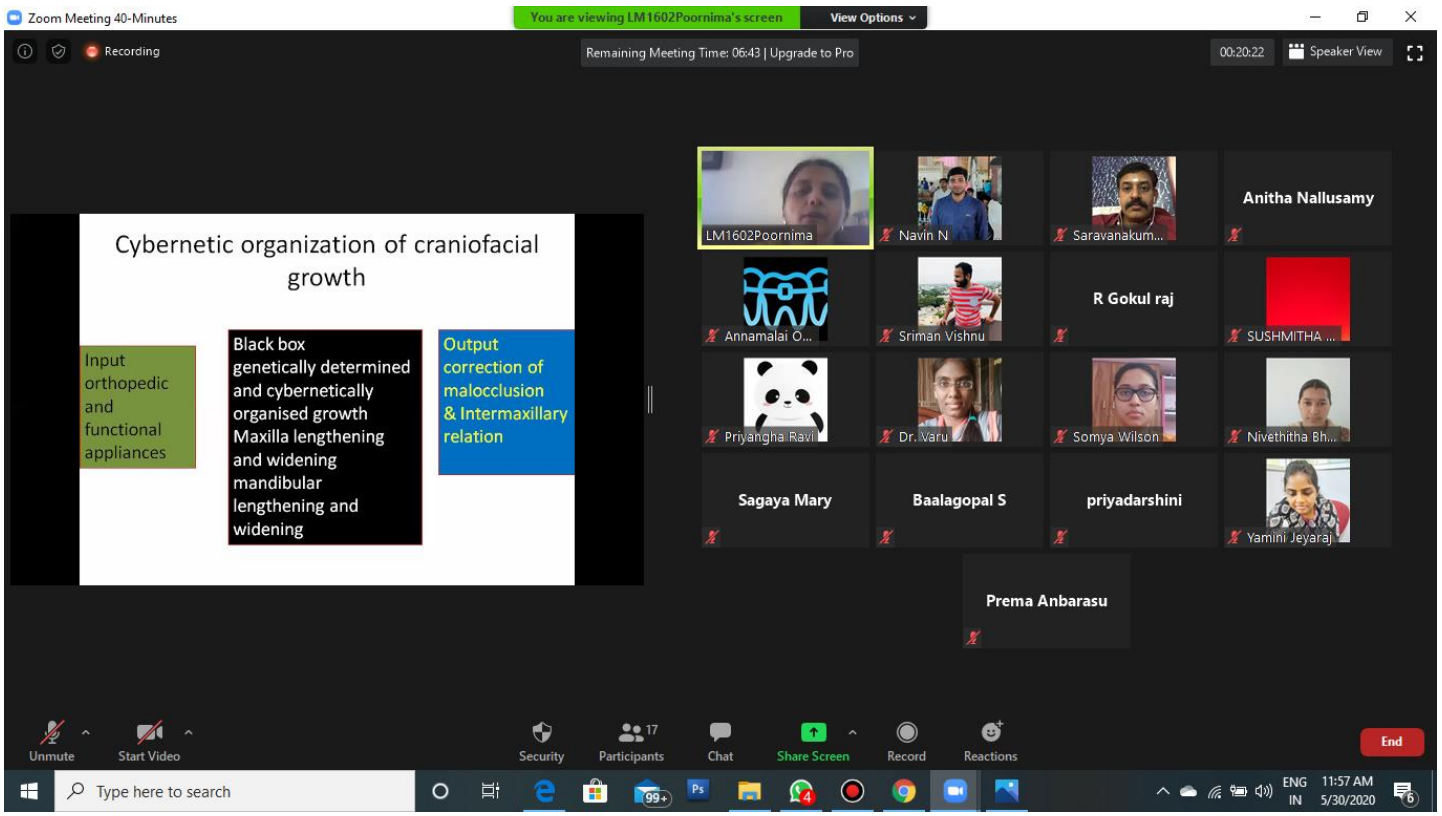

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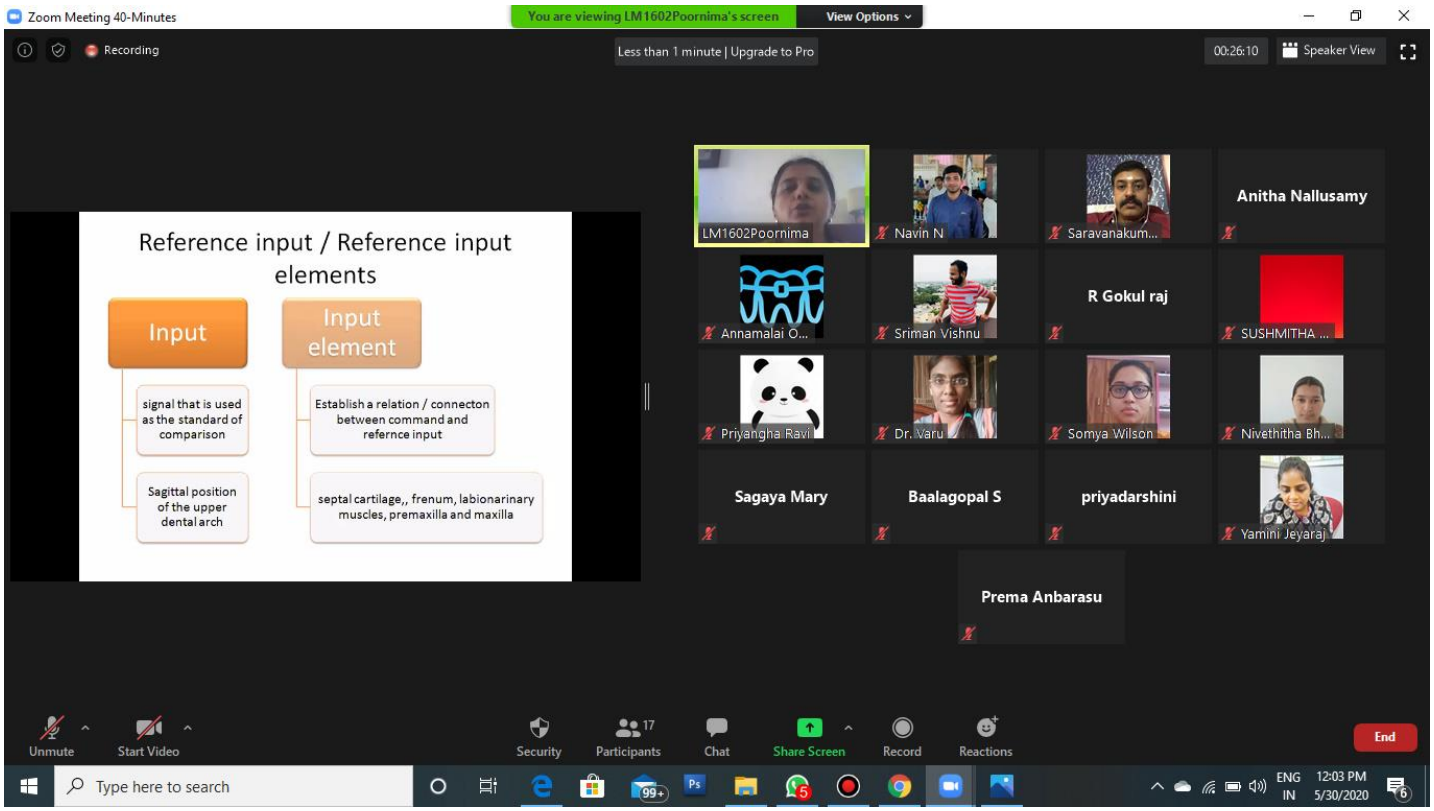


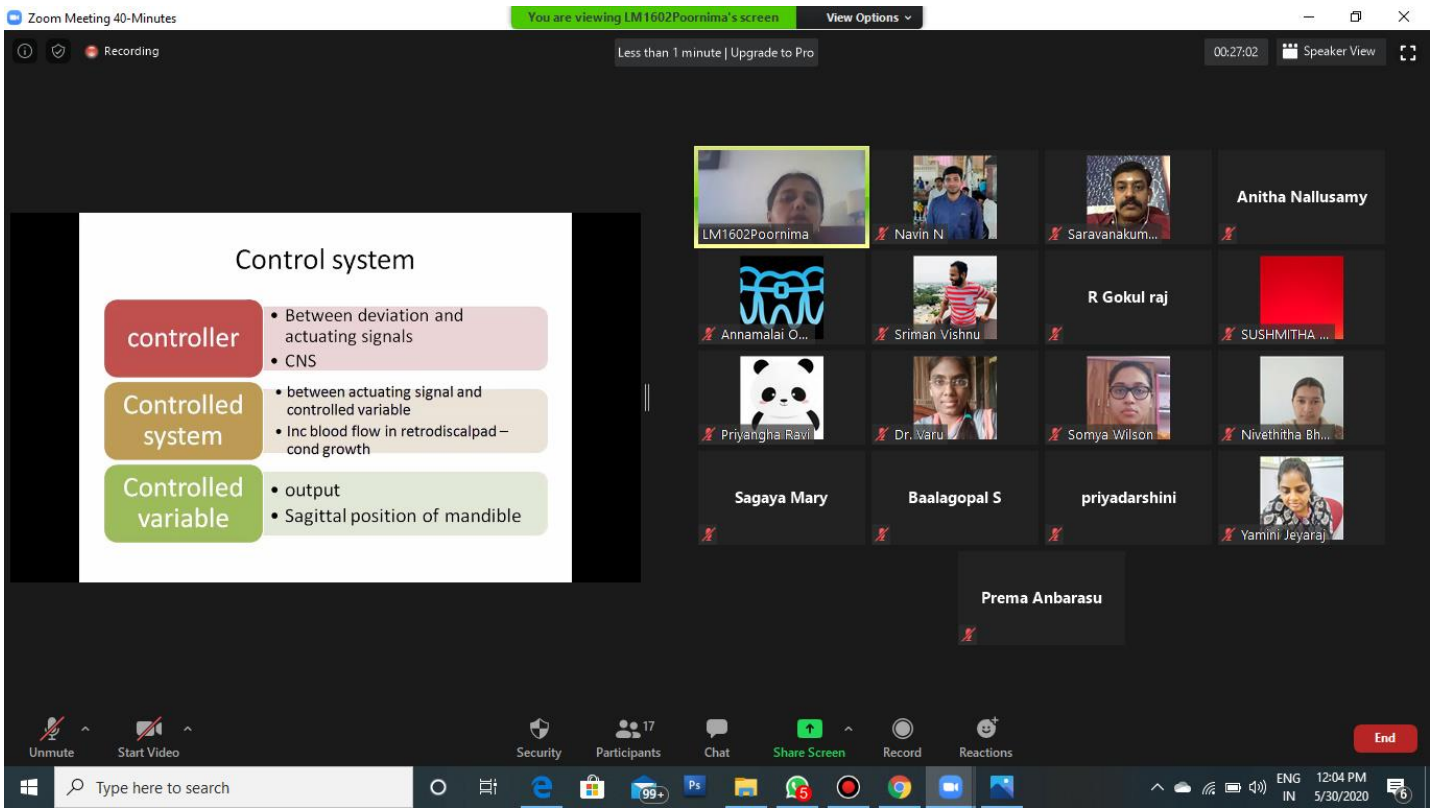

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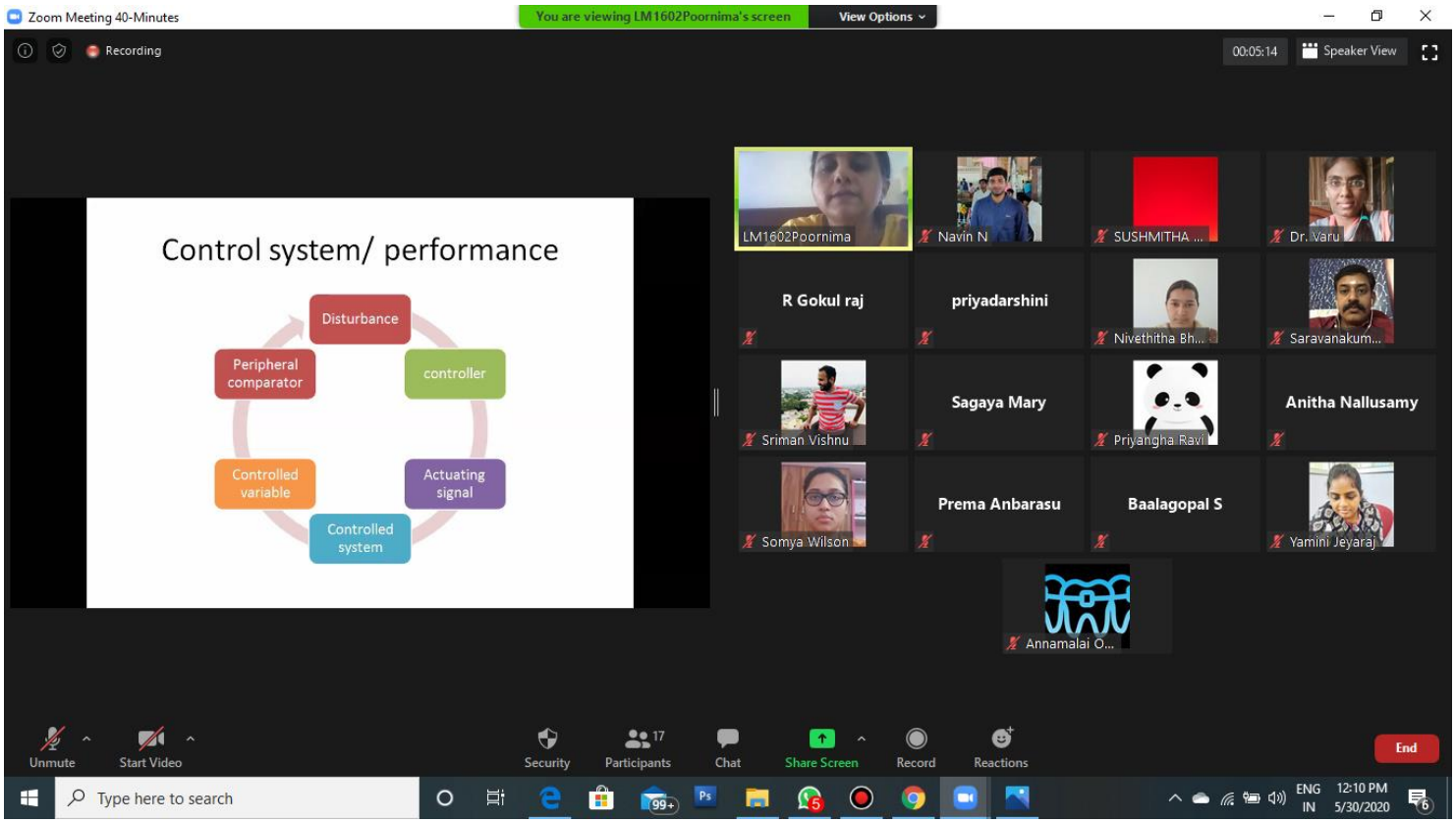


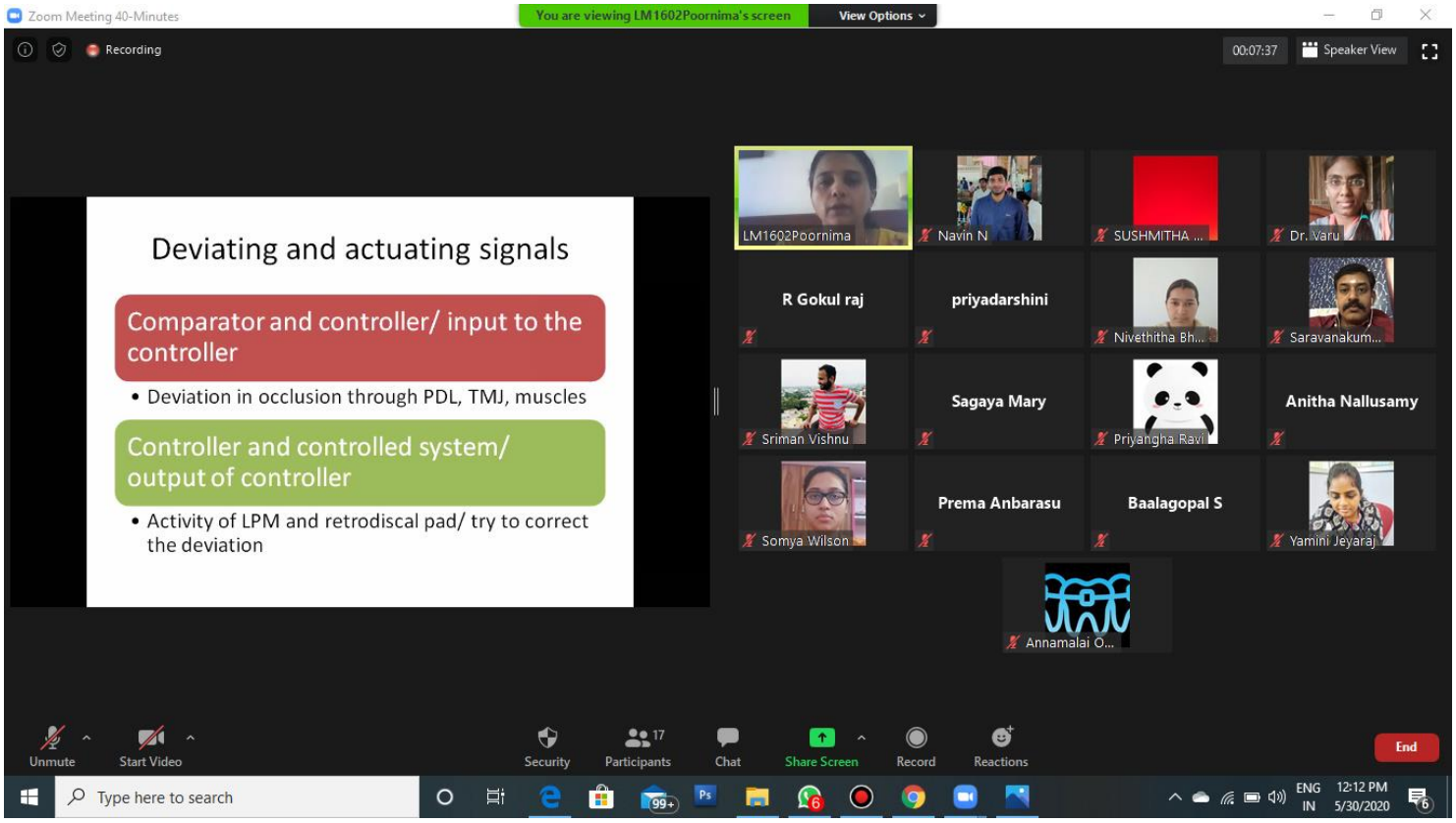

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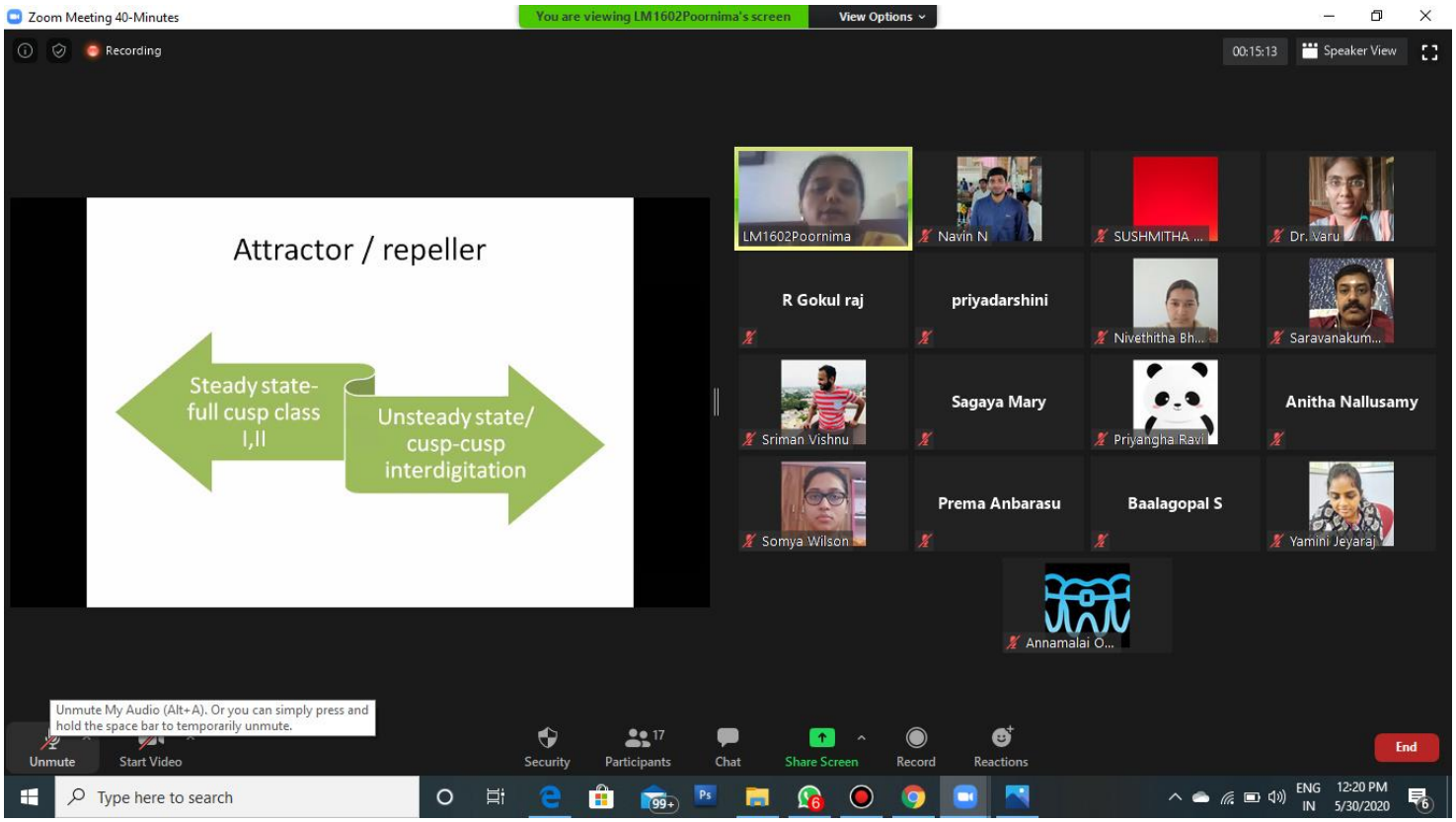


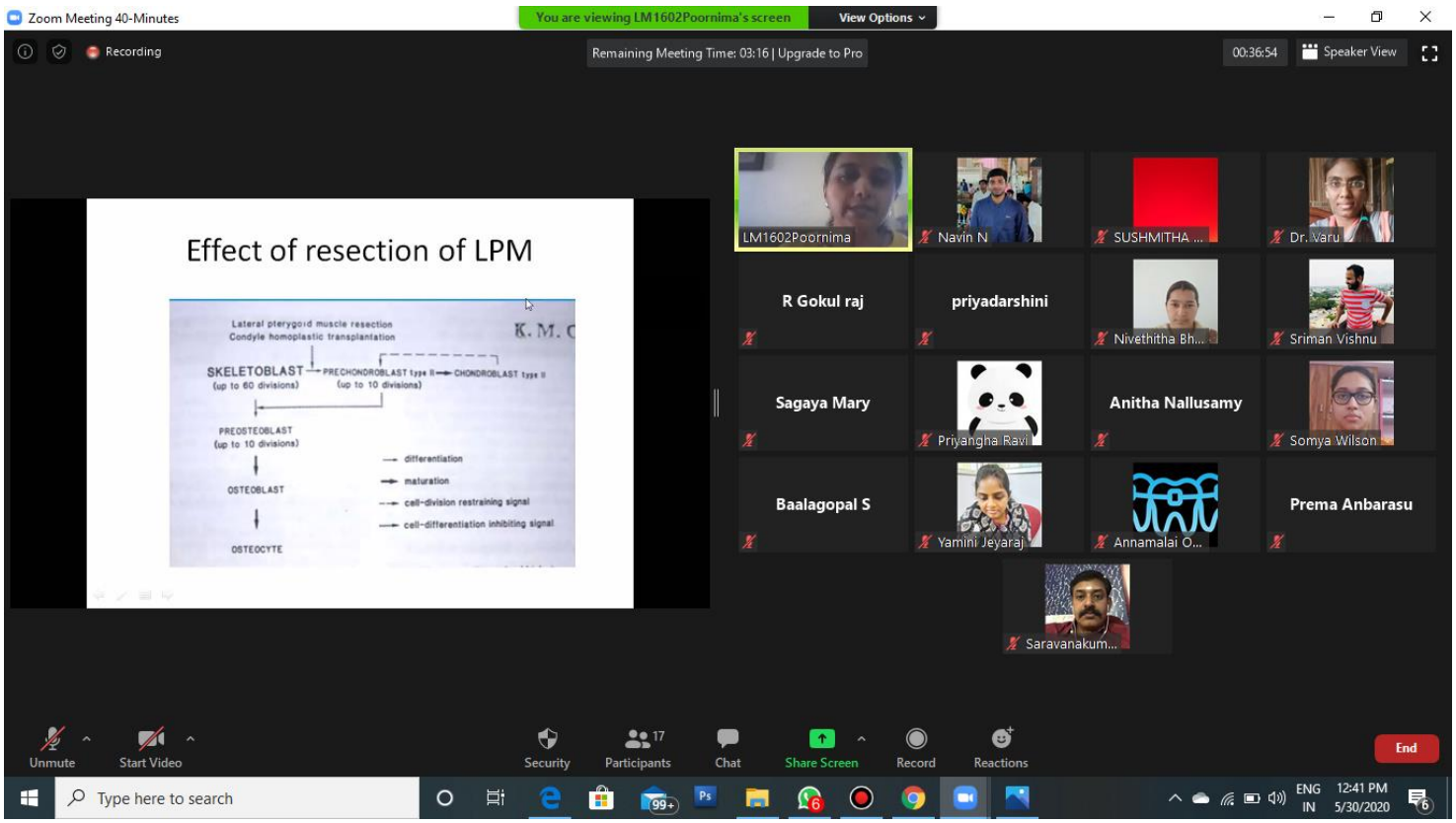
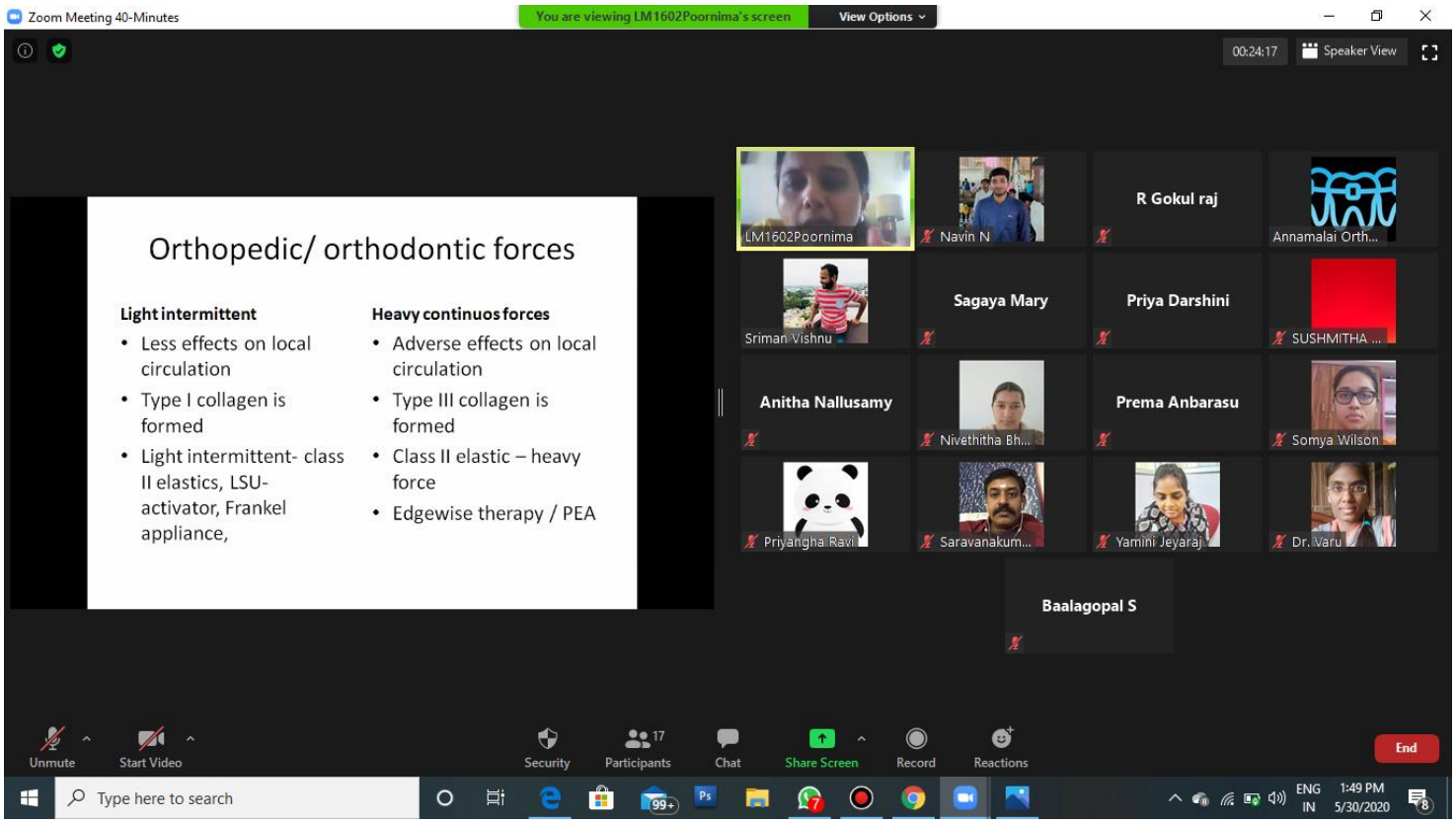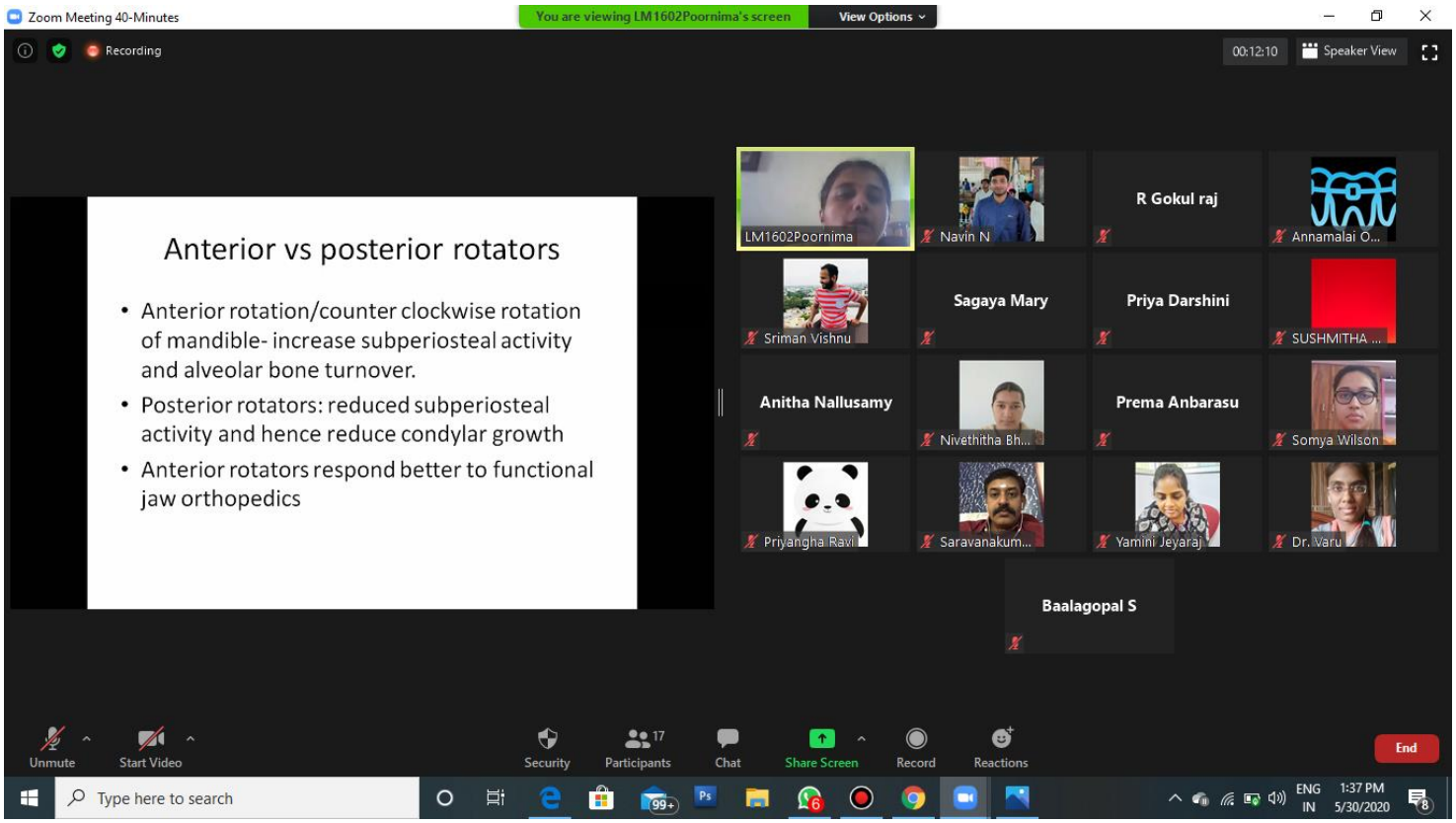
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