Chettinad
Dental College & Research Institute

ORAL MEDICINE AND RADIOLOGY- CRRI WORK DONE

20.04.2020-25.04.2020

Chettinad Dental College & Research Institute

DEPARTMENT OF ORAL MEDICINE AND RADIOLOGY

E-CLASSES FOR CRI BDS

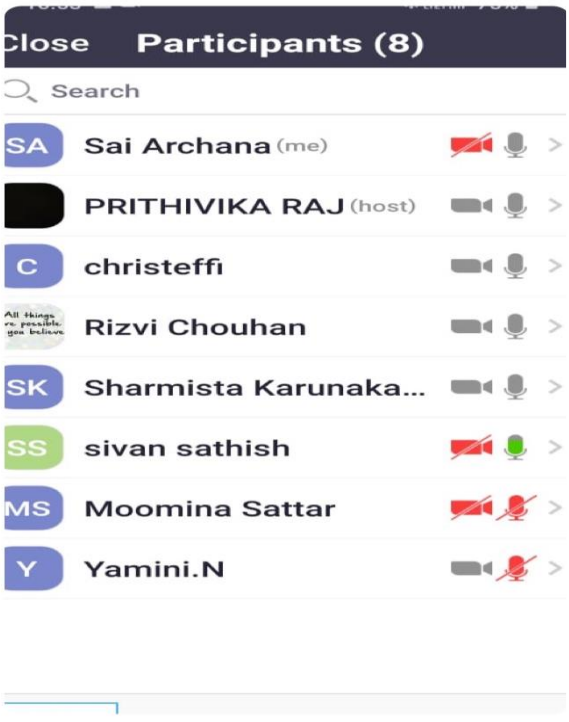
20.4.2020:

SUPERVISION AND DISCUSSION BY
Dr.SIVAN SATHISH, MDS, MFDS RCPS
PROFESSOR AND HOD, ORAL MEDICINE

Work done	Participants	Timing
Discussion on Soft skills management	CRRI	10.30-11.00 am
Clinical case presentation	CRRI, Final year	11.00-11.30 am
Discussion with PGs on *Neurological diseases*	PGs, CRRIs, Final year, Third year	11.30-01.00 pm
Clinical case presentation	CRRI, Final year	02 pm -03 pm
NEET Questions Discussion	CRRI, Final Year	03 pm- 04 pm

- **NAME OF STAFFS PARTICIPATED: 4**
    1. Dr. SIVAN SATHISH
    2. Dr. CHRISTEFFI MABEL
    3. Dr. SAI ARCHANA
    4. Dr. MOOMINA
- **STUDENTS PARTICIPATED:**
    1. Raj Prithvika
    2. Rizvi Chauhan
    3. Sumithra
    4. Sharmista
    5. Soundhar Rajan
    6. Yamini

PICTURES:



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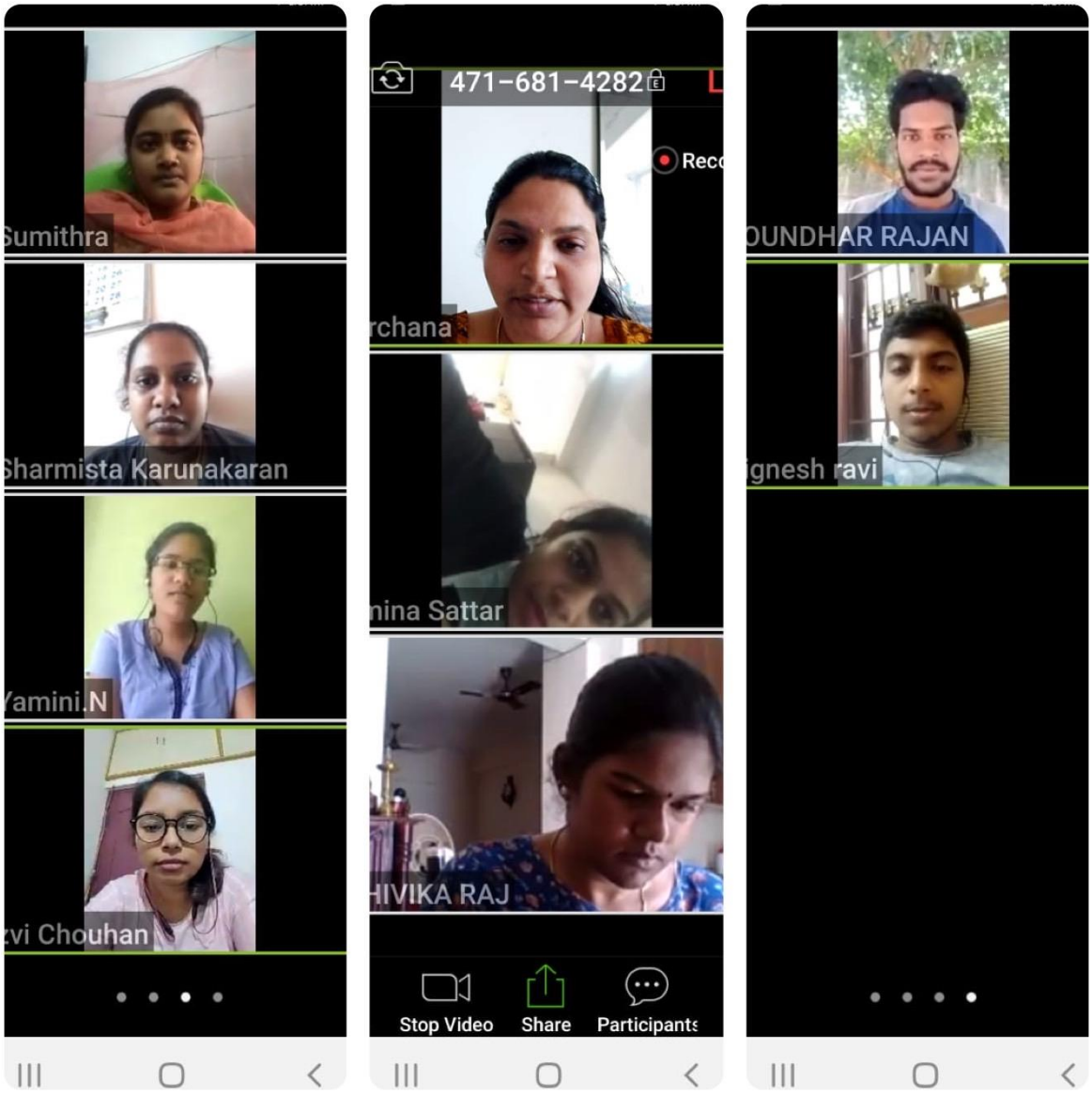

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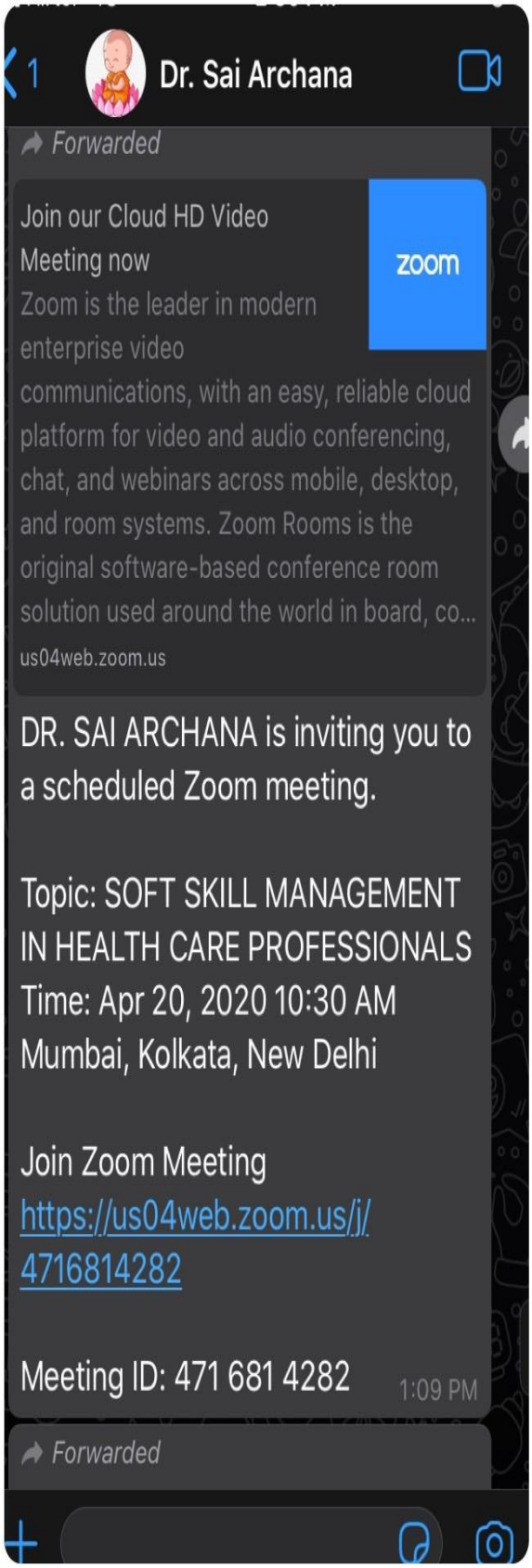
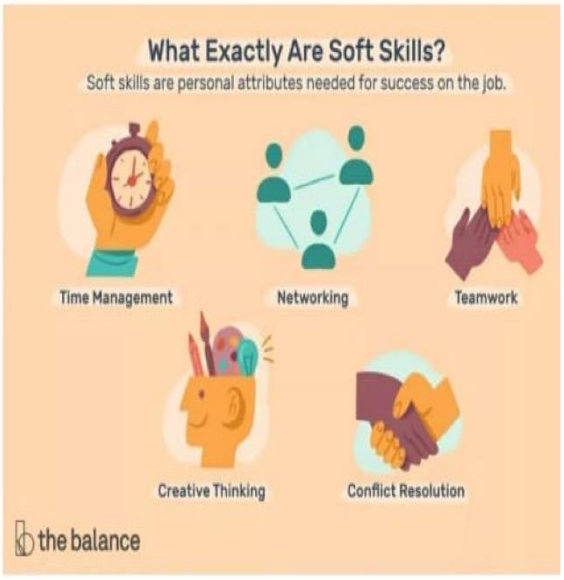
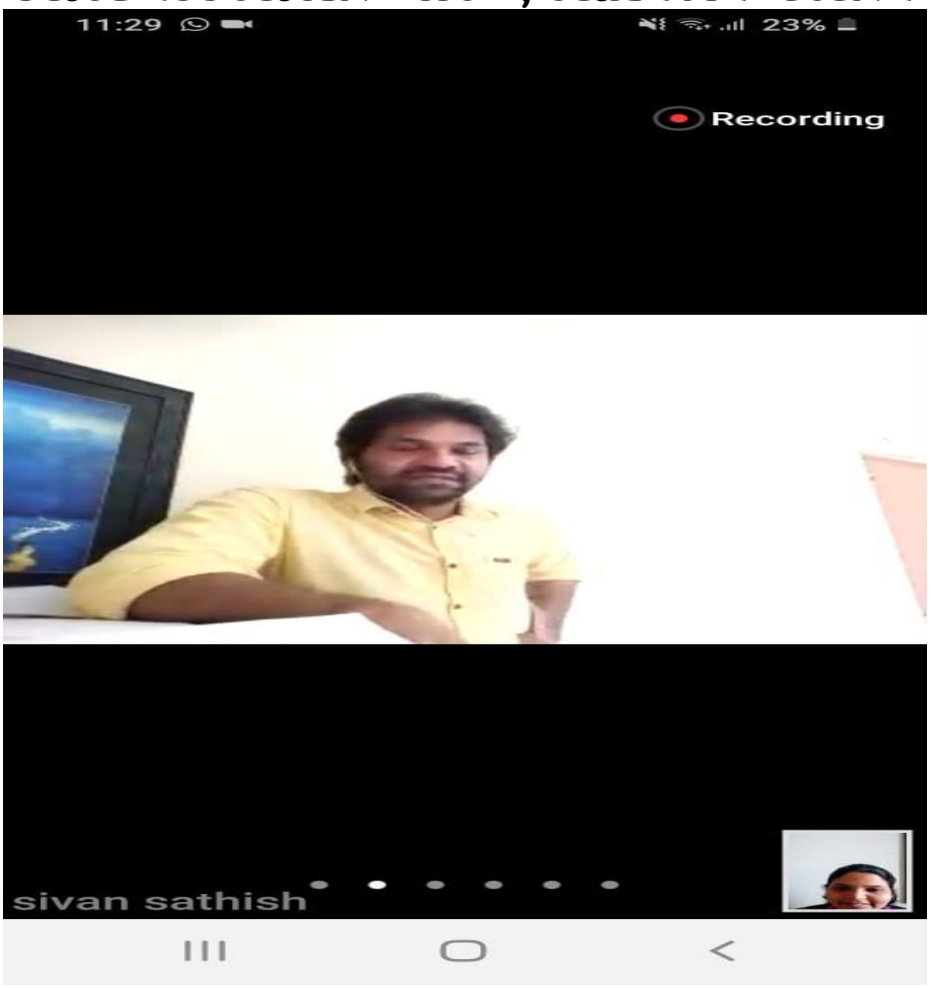




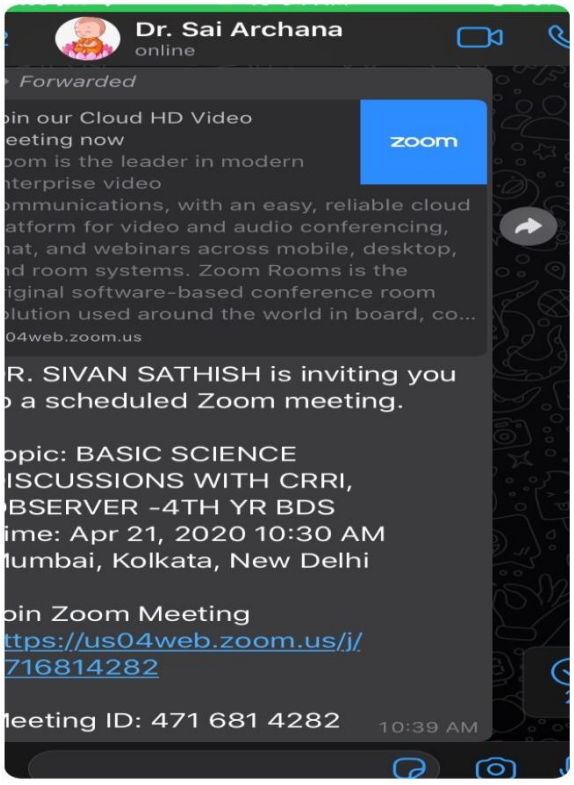
21.4.2020:

SUPERVISION AND DISCUSSION BY
Dr.SIVAN SATHISH, MDS, MFDS RCPS
PROFESSOR AND HOD, ORAL MEDICINE



Work done	Participants	Timing
Discussion on NEET Questions	CRRI	10.30-11.00 am
Clinical case presentation	CRRI, Final year	11.00-11.30 am
Discussion with PGs on *VITAMIN B12*	PGs, CRRIs, Final year, Third year	11.30-01.00 pm
Clinical case presentation	CRRI, Final year	02 pm -03 pm
Theory class on Ideal long case	III Year, CRRI, Final Year	03 pm- 04 pm

- **NAME OF STAFFS PARTICIPATED: 4**
    5. Dr. SIVAN SATHISH
    6. Dr. CHRISTEFFI MABEL
    7. Dr. SAI ARCHANA
    8. Dr. MOOMINA
- **STUDENTS PARTICIPATED:**
    7. Raj Prithvika
    8. Rizvi Chauhan
    9. Sumithra
    10. Sharmista
    11. Soundhar Rajan
    12. Yamini



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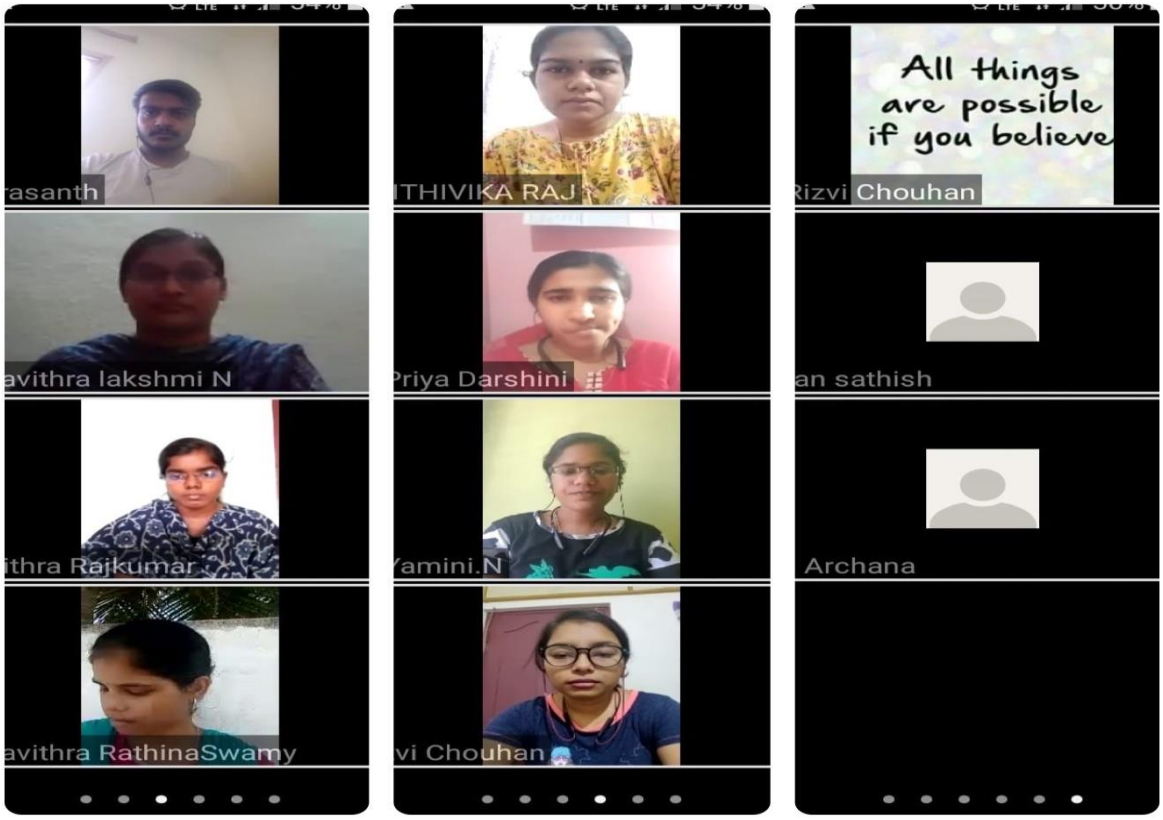

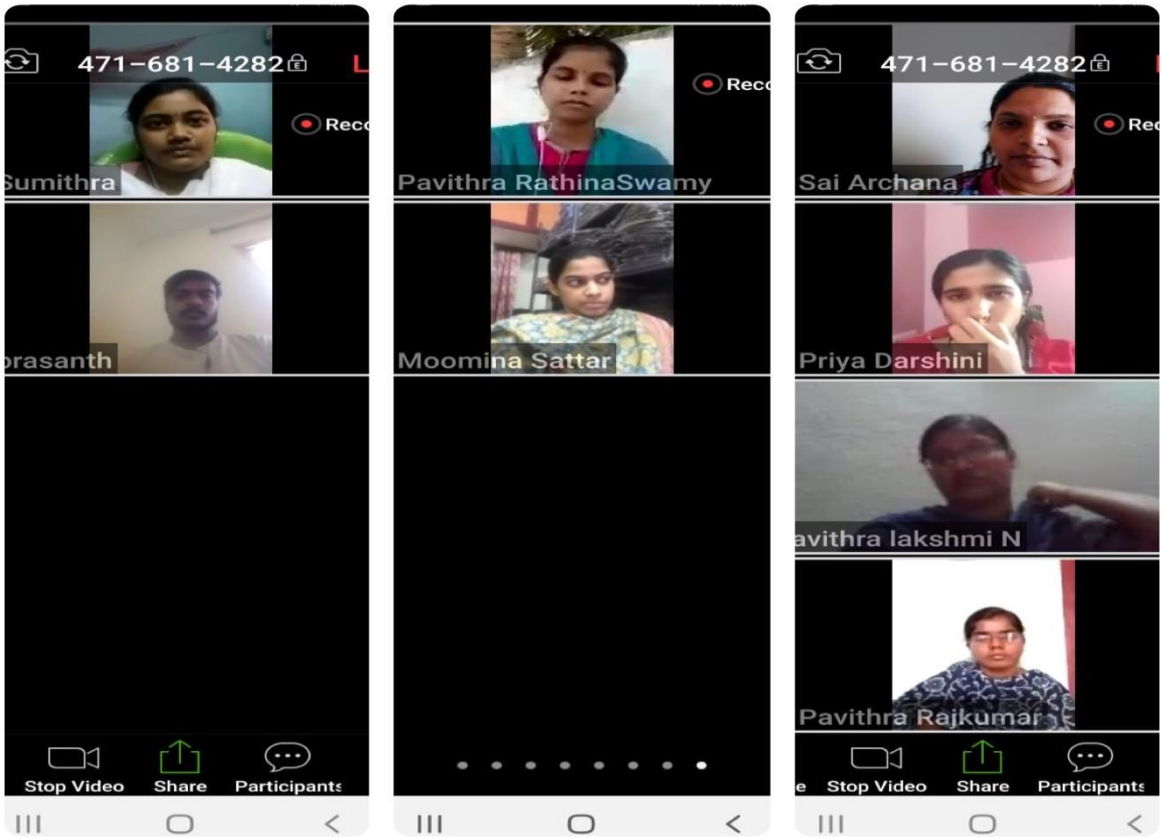

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22.4.2020:

SUPERVISION AND DISCUSSION BY
Dr.SIVAN SATHISH, MDS, MFDS RCPS
PROFESSOR AND HOD, ORAL MEDICINE

Work done	Participants	Timing
Discussion on NEET Questions	CRRI	10.30-11.00 am
Clinical case presentation	CRRI, Final year	11.00-11.30 am
Discussion with PGs on *HYPERPARATHYROIDISM*	PGs, CRRIs, Final year, Third year	11.30-01.00 pm
Clinical case presentation	CRRI, Final year	02 pm -03 pm
NEET Questions discussion	CRRI, Final Year	03 pm- 04 pm

- **NAME OF STAFFS PARTICIPATED: 4**
    1. Dr. SIVAN SATHISH
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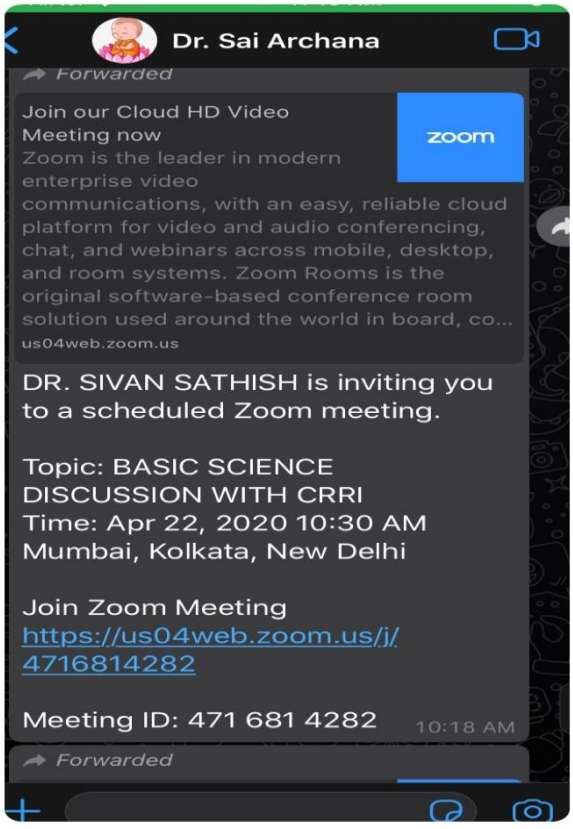
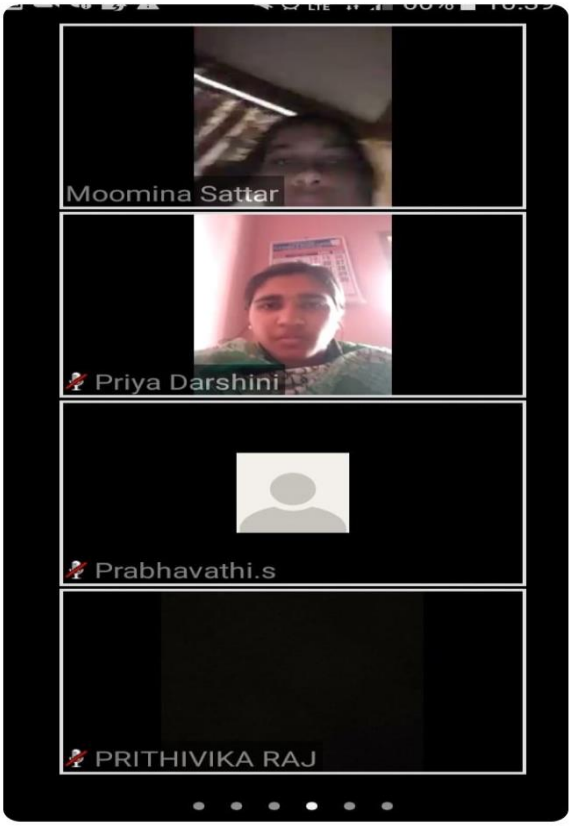
PICTURES:





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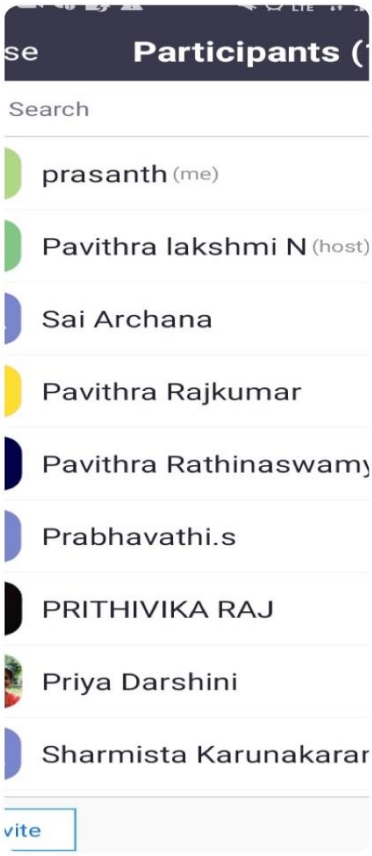

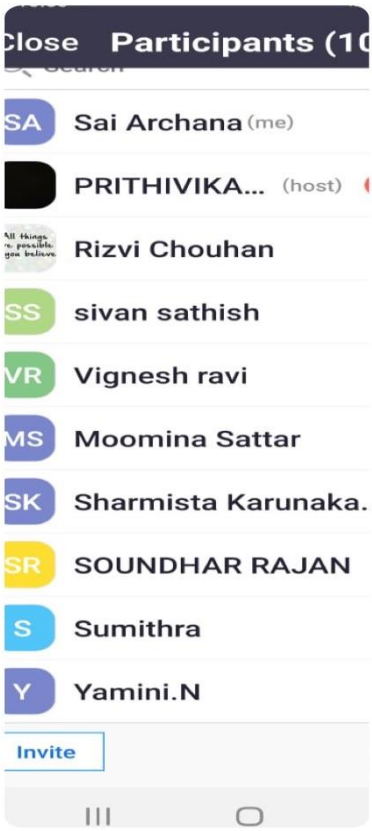

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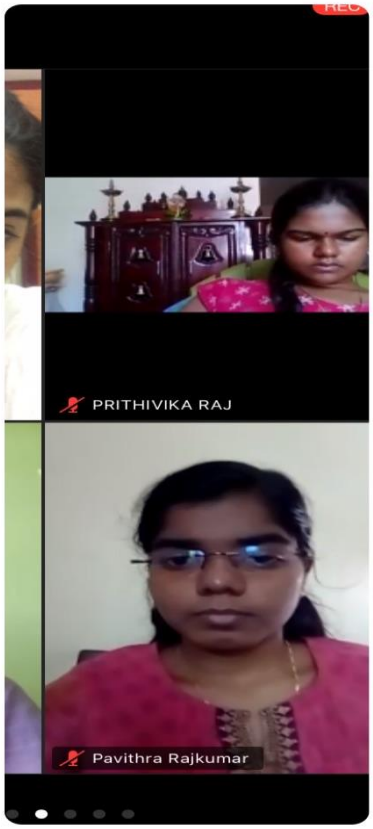

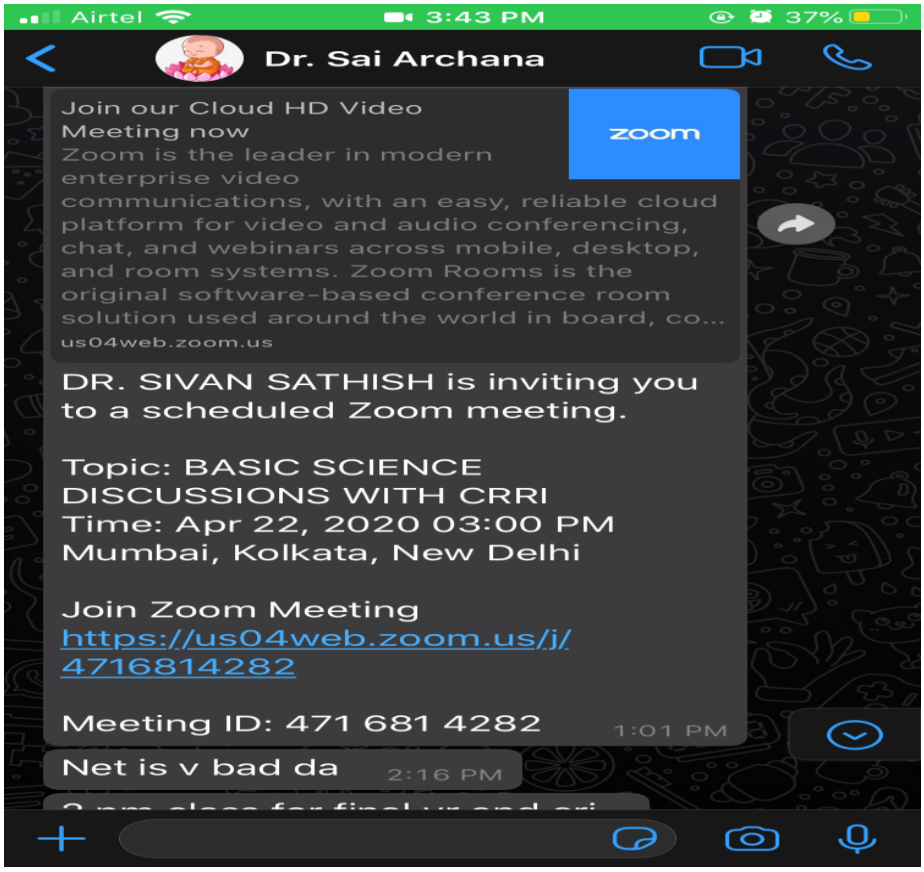

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23.4.2020:

SUPERVISION AND DISCUSSION BY
Dr.SIVAN SATHISH, MDS, MFDS RCPS
PROFESSOR AND HOD, ORAL MEDICINE

Work done	Participants	Timing
Discussion on NEET Questions	CRRI	10.30-11.00 am
Clinical case presentation	CRRI, Final year	11.00-11.30 am
Discussion with PGs on Insulin and anti-diabetic drugs	PGs, CRRIs, Final year, Third year	11.30-01.00 pm
Clinical case presentation	CRRI, Final year	02 pm -03 pm
NEET Questions discussion	CRRI, Final Year	03 pm- 04 pm

- **NAME OF STAFFS PARTICIPATED: 4**
    1. Dr. SIVAN SATHISH
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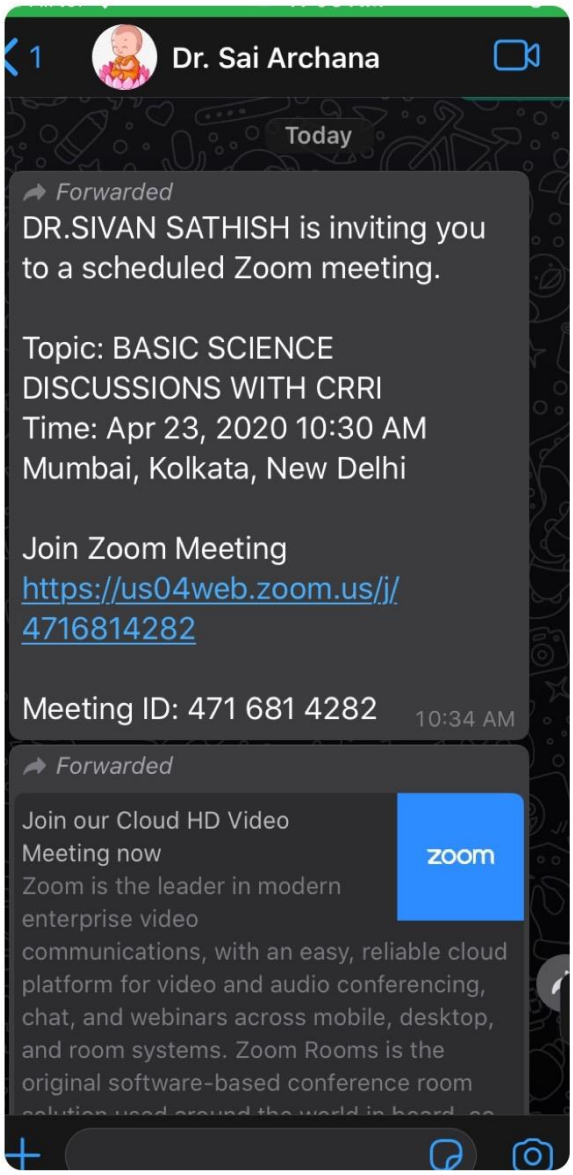

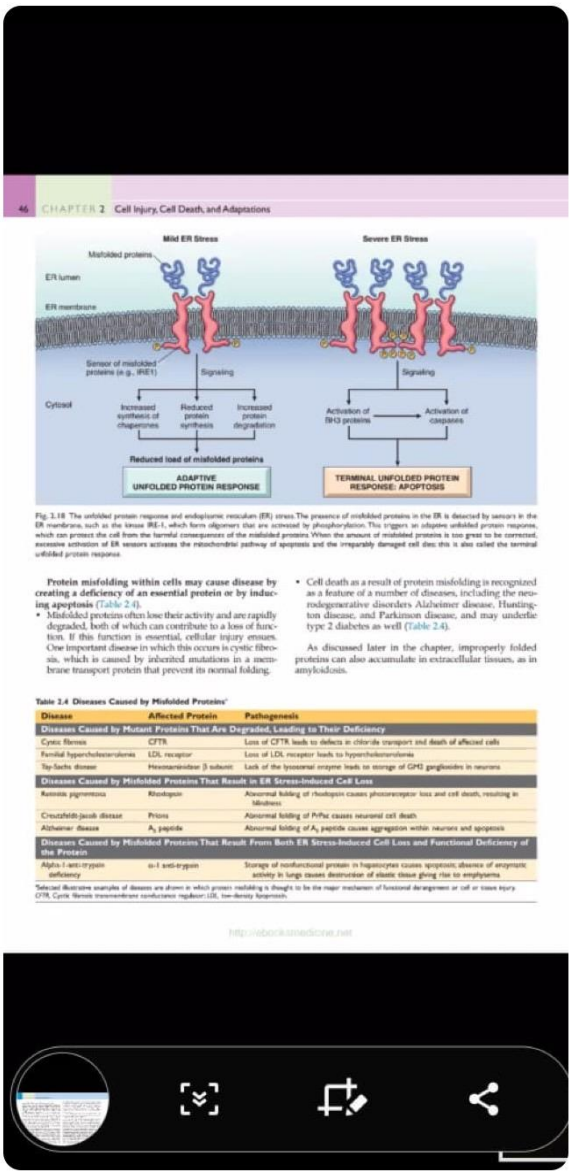

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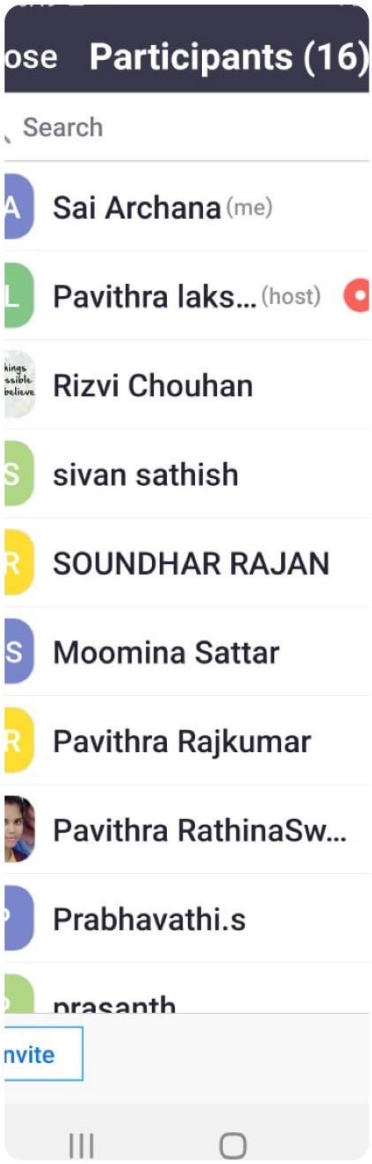

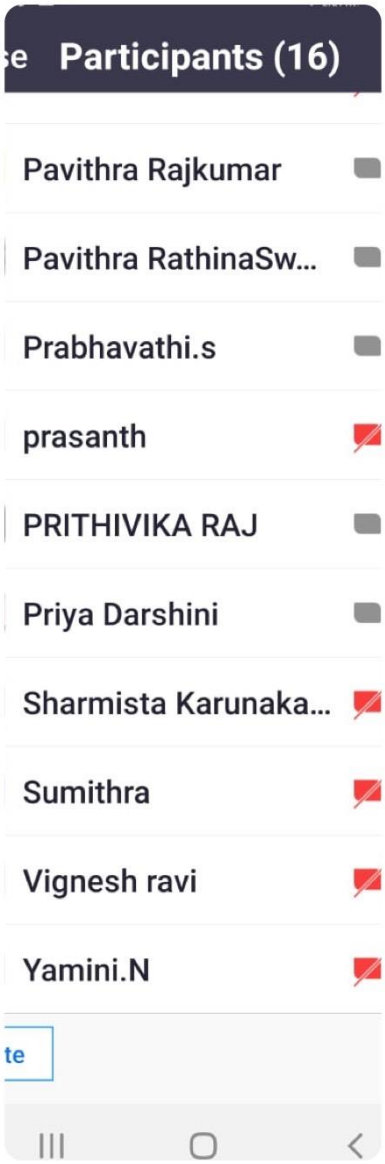

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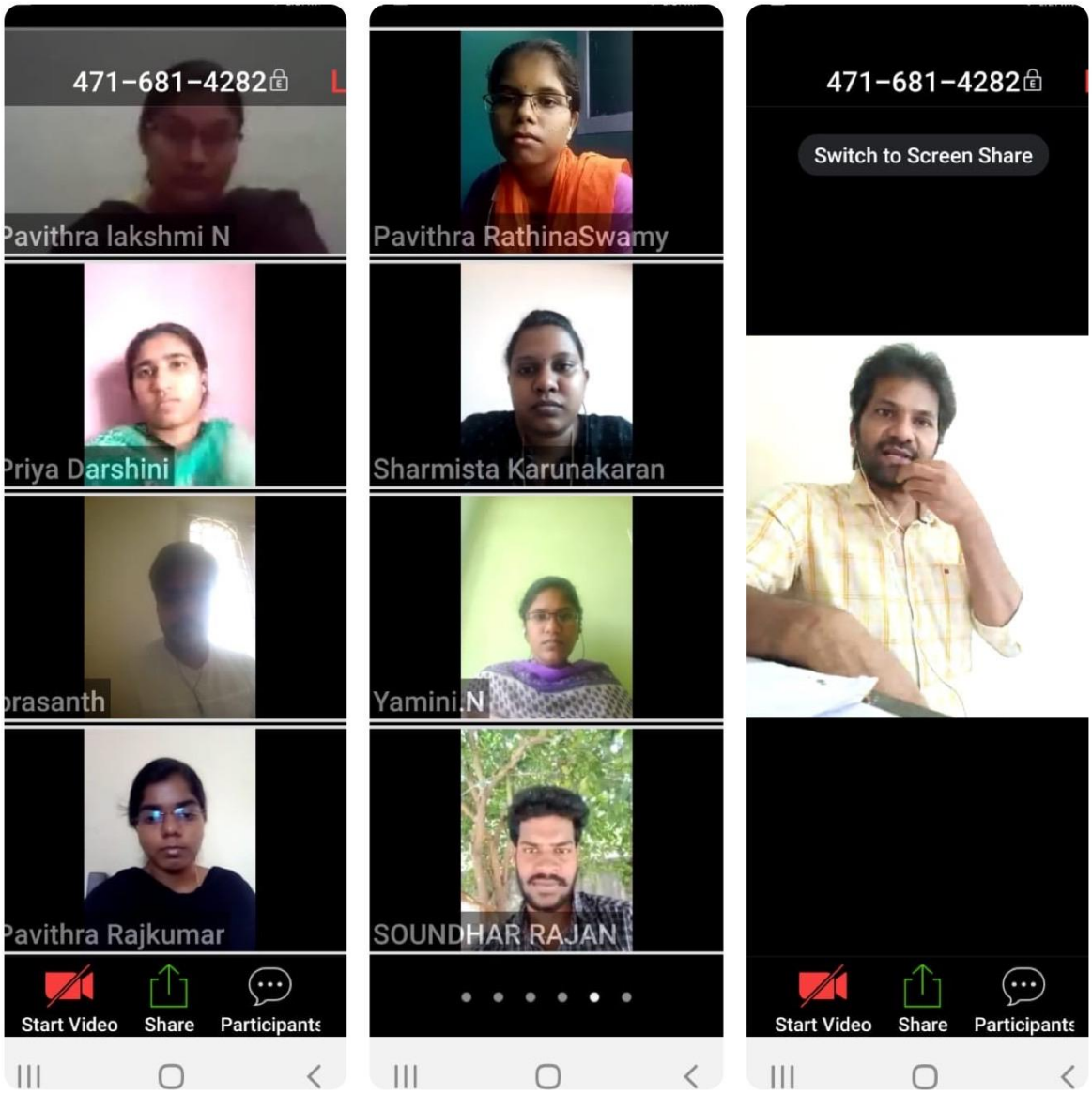

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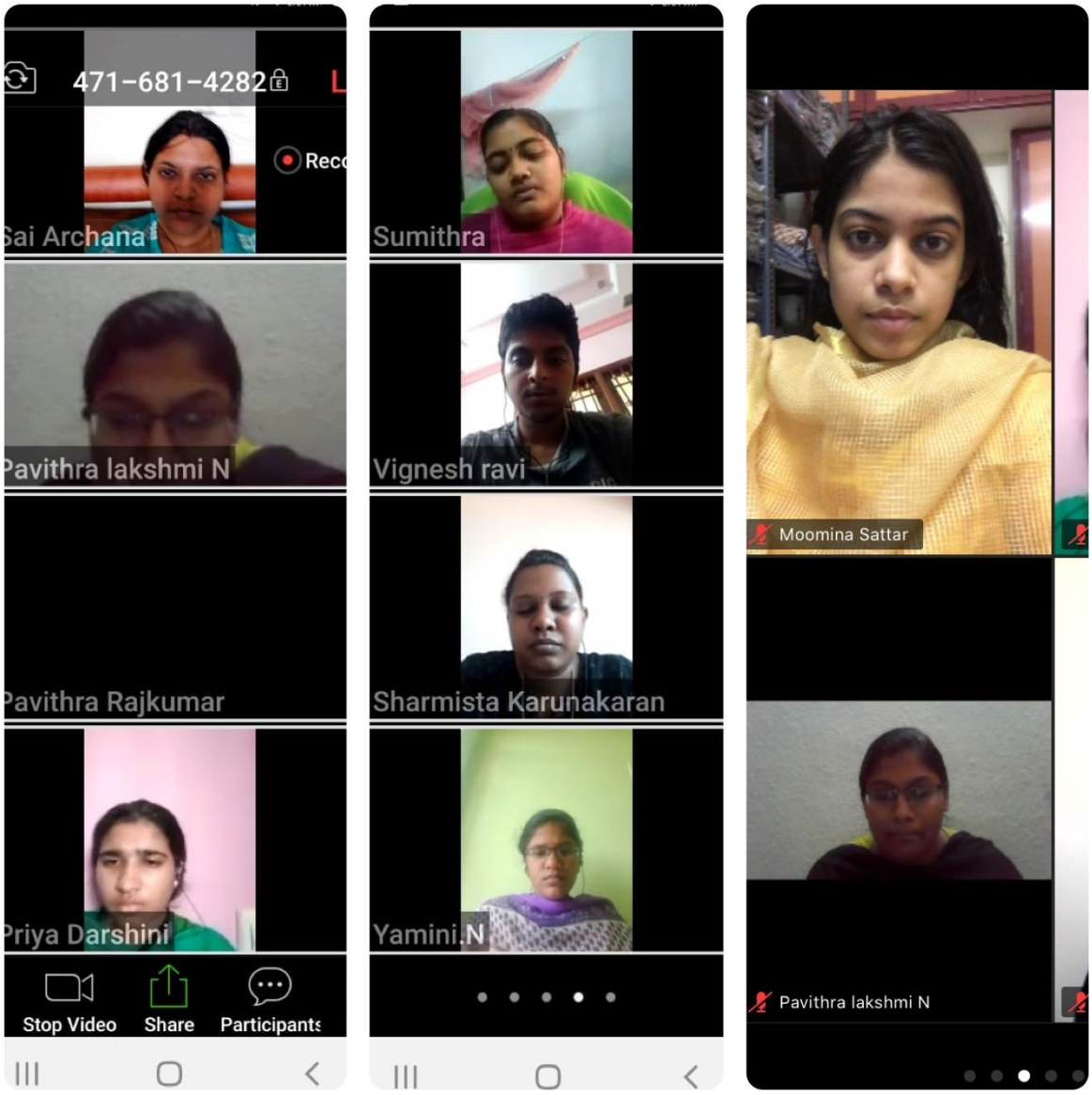

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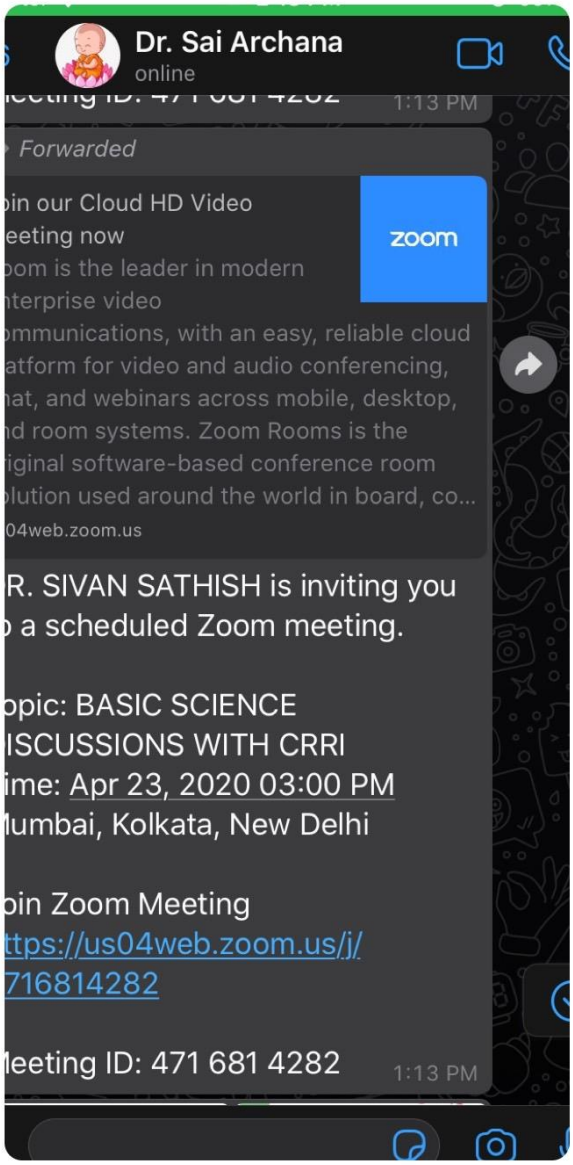

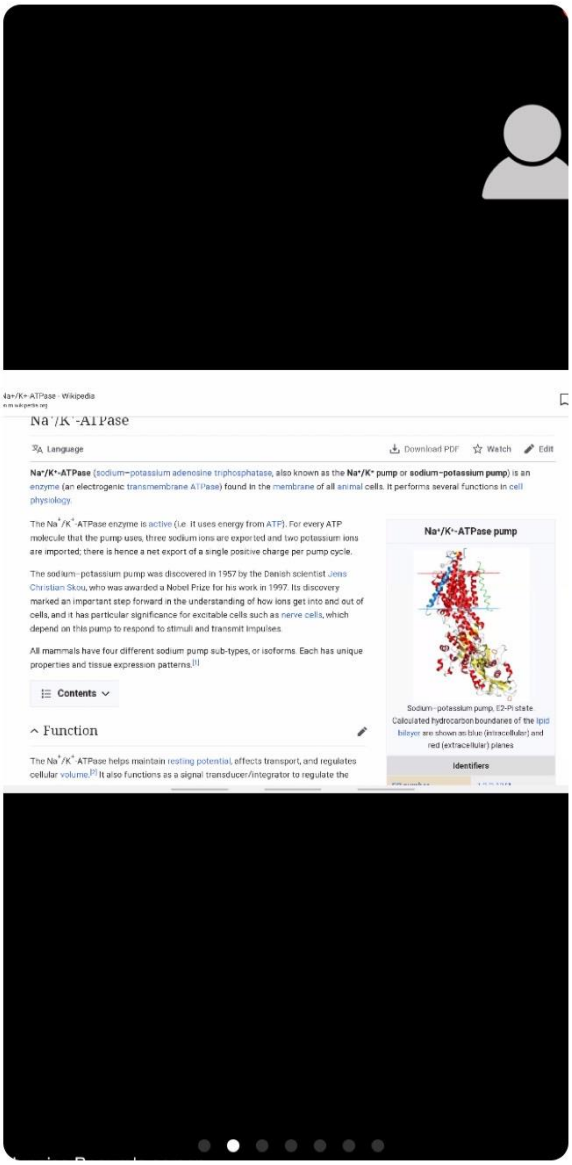

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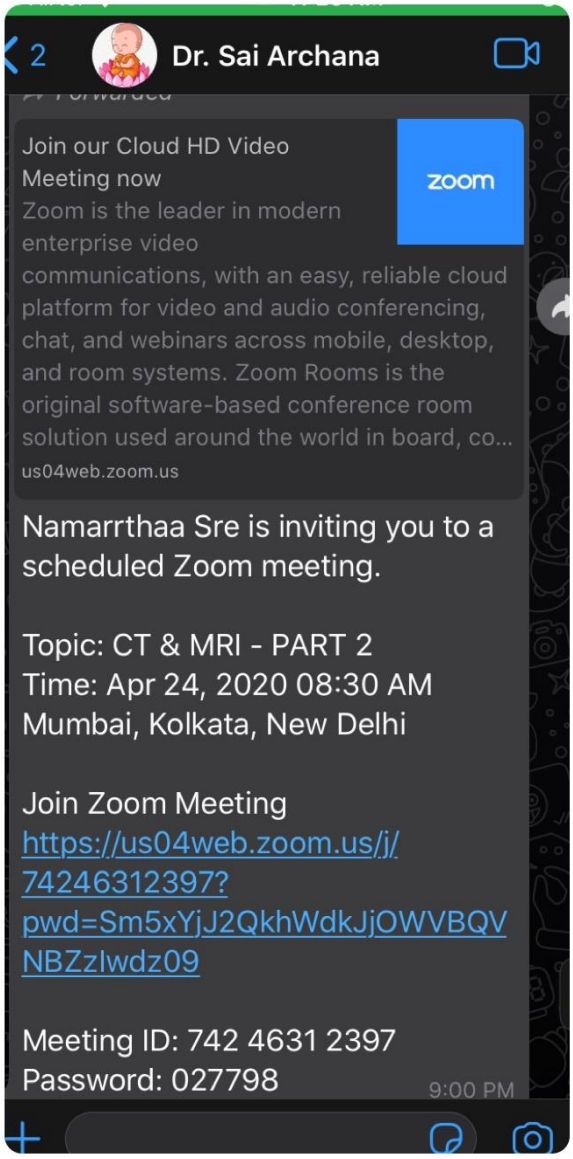
24.4.2020:

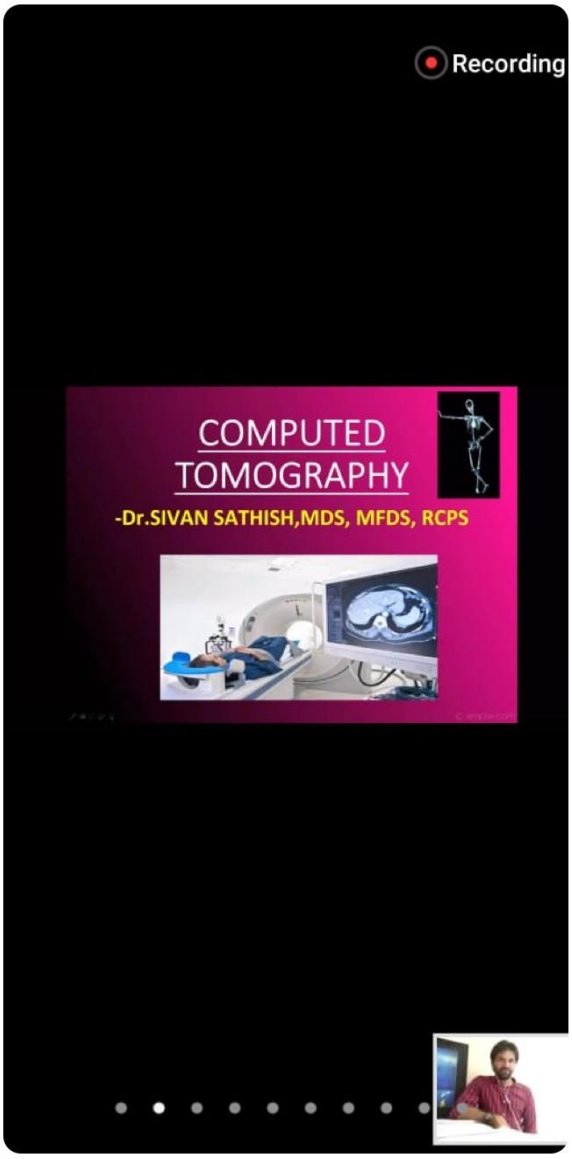
SUPERVISION AND DISCUSSION BY
Dr.SIVAN SATHISH, MDS, MFDS RCPS
PROFESSOR AND HOD, ORAL MEDICINE

Work done	Participants	Timing
Combined theory class on Computed tomography	Final years, CRRI	8.30-09.30 am
NEET Questions Discussion	CRRI	10.30-11.00 am
Clinical case presentation	CRRI, Final year	11.00-11.30 am
Discussion with PGs on Amelogenesis	PGs, CRRIs, Final year, Third year	11.30-01.00 pm
Clinical case presentation	CRRI, Final year	02 pm -03 pm
NEET Questions discussion	CRRI, Final Year	03 pm- 04 pm

- **NAME OF STAFFS PARTICIPATED: 4**
    1. Dr. SIVAN SATHISH
    2. Dr. CHRISTEFFI MABEL
    3. Dr. SAI ARCHANA
    4. Dr. MOOMINA
- **STUDENTS PARTICIPATED:**
    1. Raj Prithvika
    2. Rizvi Chauhan
    3. Sumithra
    4. Sharmista
    5. Soundhar Rajan
    6. Yamini

PICTURES:





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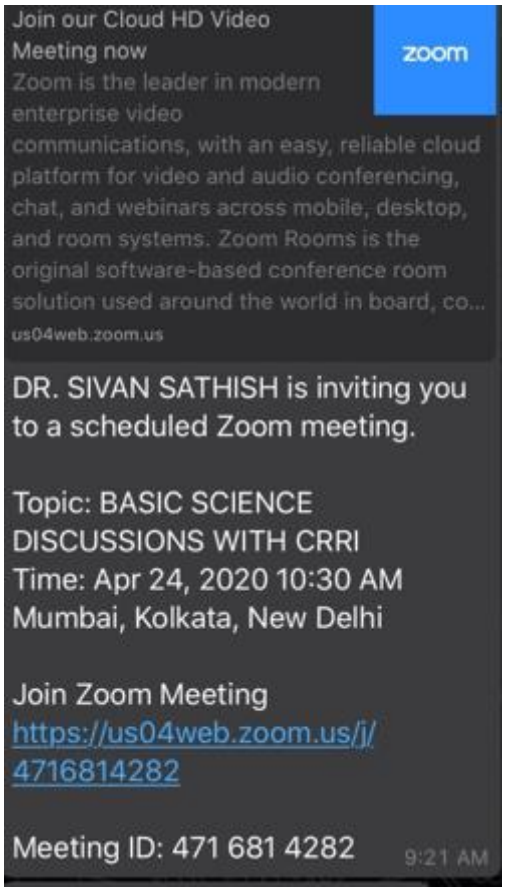

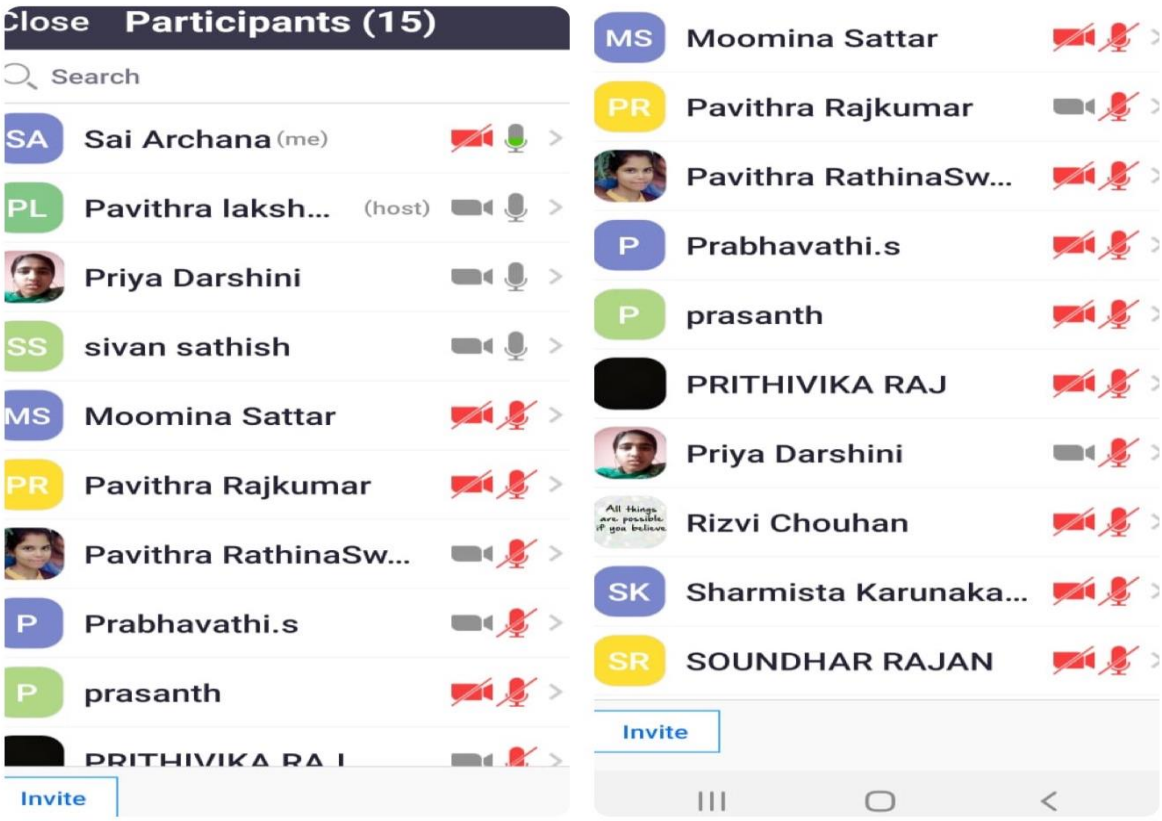

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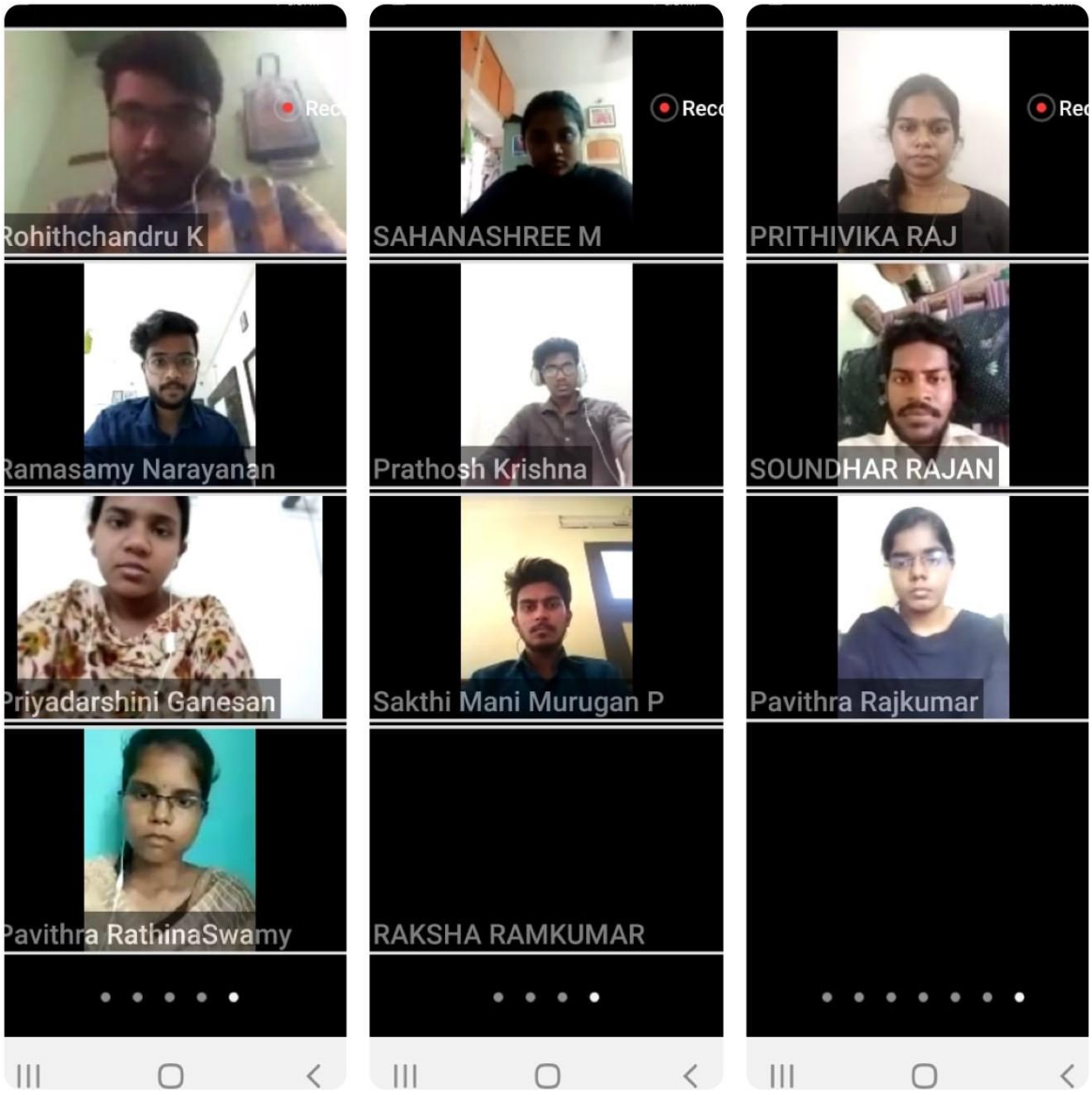

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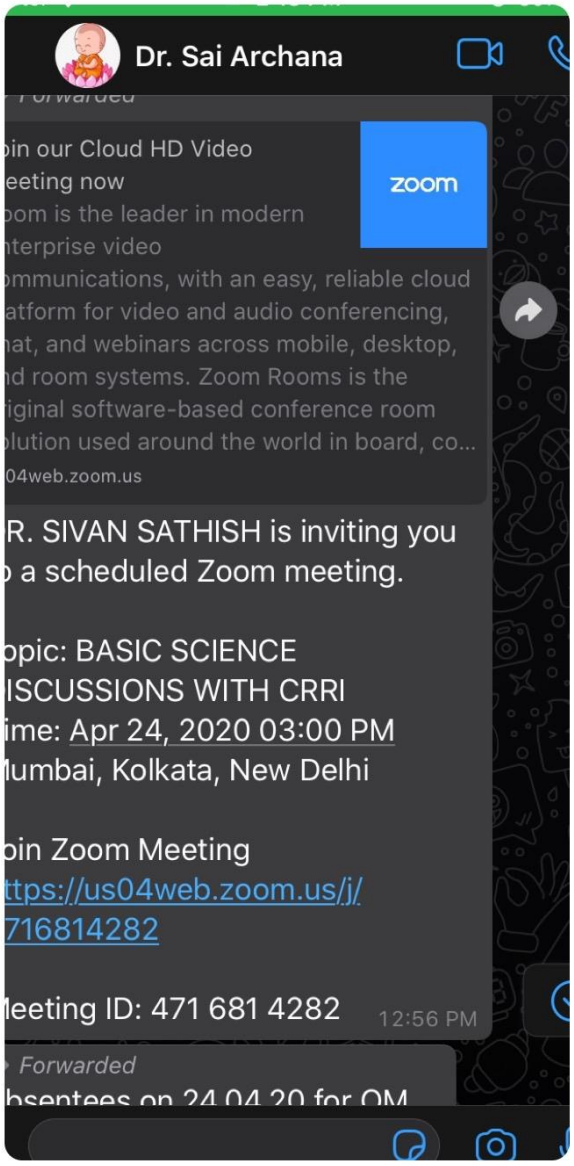

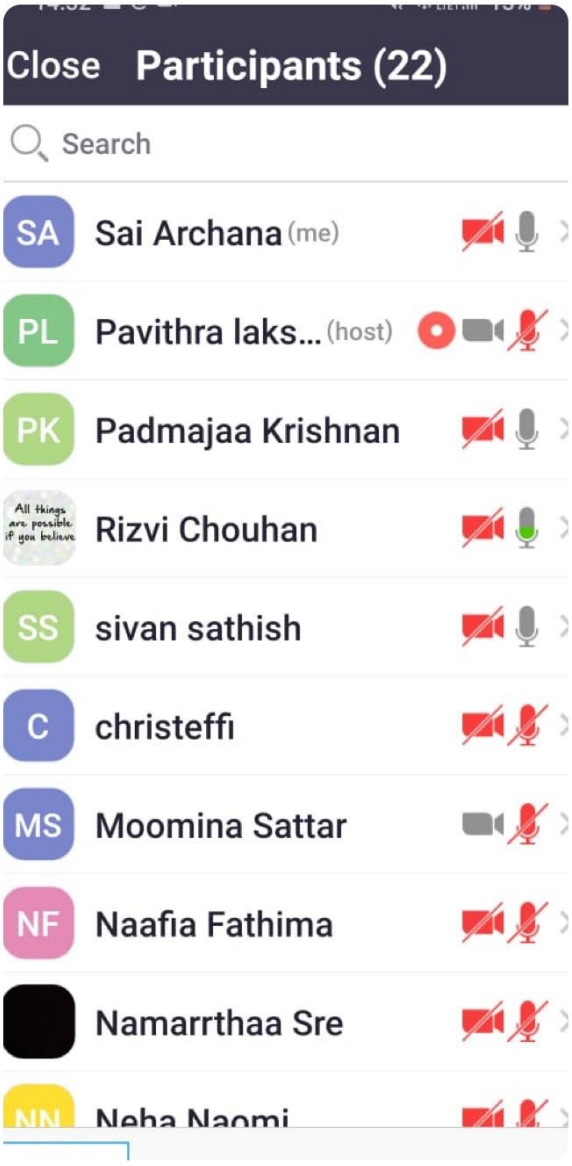

Aging. Cellular senescence results in a diminished ability of cells to respond to stress and, eventually, the death of cells and of the organism. The mechanisms underlying cellular aging are discussed at the end of this chapter.

With this introduction, we proceed to a discussion of the progression and morphologic manifestations of cell injury, and then to the biochemical mechanisms in injury caused by different noxious stimuli.

SEQUENCE OF EVENTS IN CELL INJURY AND CELL DEATH

Although various injurious stimuli damage cells through diverse biochemical mechanisms, all tend to induce a stereotypic sequence of morphologic and structural alterations in most types of cells.

Reversible Cell Injury

Reversible injury is the stage of cell injury at which the deranged function and morphology of the injured cells can return to normal if the damaging stimulus is removed (Fig. 2.3). In reversible injury, cells and intracellular organelles typically become swollen because they take in water as a result of the failure of energy-dependent ion pumps in the plasma membrane, leading to an inability to maintain ionic and fluid homeostasis. In some forms of injury, degenerated organelles and lipids may accumulate inside the injured cells.

MORPHOLOGY

The two main morphologic correlates of reversible cell injury are cellular swelling and fatty change.

- **Cellular swelling** (Fig. 2.4B) is commonly seen in cell injury associated with increased permeability of the plasma membrane. It may be difficult to appreciate with the light microscope, but it is often apparent at the level of the whole organ. When it affects many cells in an organ, it causes pallor (as a result of compression of capillaries), increased turgor, and an increase in organ weight. Microscopic examination may show small, clear vacuoles within the cytoplasm; these represent distended and pinched-off segments of the endoplasmic reticulum (ER). This pattern of nonlethal injury is sometimes called hydropic change or vacuolar degeneration.
- **Fatty change** is manifested by the appearance of triglyceride containing lipid vacuoles in the cytoplasm. It is principally encountered in organs that are involved in lipid metabolism, such as the liver, and hence it is discussed in Chapter 16.

The cytoplasm of injured cells also may become redder (eosinophilic), a change that becomes much more pronounced with progression to necrosis (described later). Other intracellular changes associated with cell injury (Fig. 2.3) include (1) plasma membrane alterations such as blebbing, blunting, or distortion of microvilli, and loosening of intercellular attachments; (2) mitochondrial changes such as swelling and the appearance of phospholipid-rich amorphous densities; (3) dilation of the ER

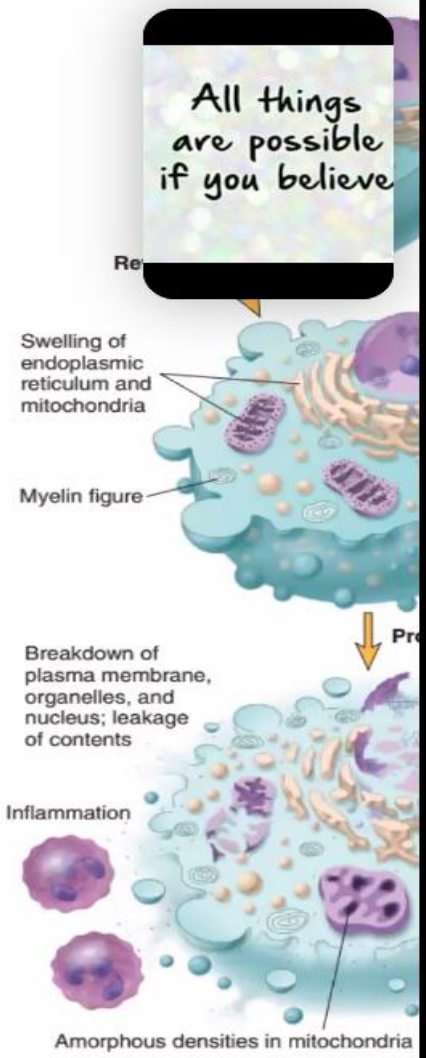

Fig. 2.3 Reversible cell injury and necrosis. The that characterize reversible cell injury and necro tion, reversible injury is considered to culmina stimulus is not removed.

with detachment of ribosomes and dis and (4) nuclear alterations, such as clu cytoplasm may contain so-called "myelin lections of phospholipids resembling r derived from damaged cellular membra

In some situations, potentially in specific alterations in cellular organ The smooth ER is involved in the chemicals, and cells exposed to t hypertrophy of the ER as an adapt have important functional conseq many drugs, including barbiturat monly used as sedatives in the past treatment for some forms of epilep the liver by the cytochrome P-450 n system found in the smooth E

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25.4.2020:

SUPERVISION AND DISCUSSION BY
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Work done	Participants	Timing
NEET Questions Discussion	CRRI	10.30-11.00 am
Clinical case presentation	CRRI, Final year	11.00-11.30 am
Discussion with PGs on *Oral submucous fibrosis with squamous cell carscinoma*	PGs, CRRIs, Final year, Third year	11.30-01.00 pm
Clinical case presentation	CRRI, Final year	02 pm -03 pm
NEET Questions discussion	CRRI, Final Year	03 pm- 04 pm

- **NAME OF STAFFS PARTICIPATED: 3**
    1. Dr. SIVAN SATHISH
    2. Dr. SAI ARCHANA
    3. Dr. MOOMINA

    ABSENTEE: Dr. CHRISTEFFI MABEL
- **STUDENTS PARTICIPATED:**
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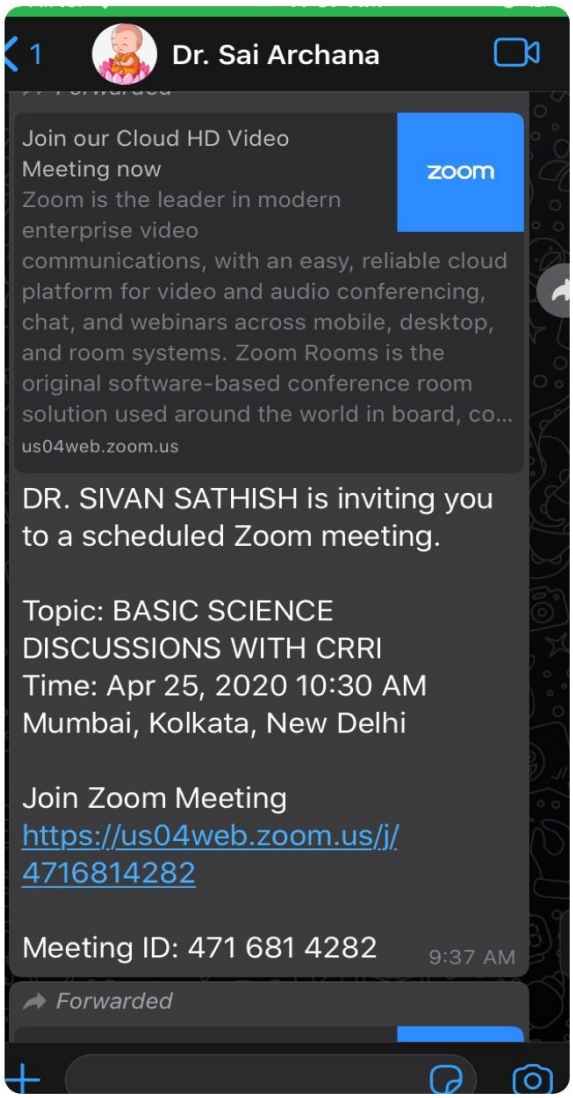
Pictures:



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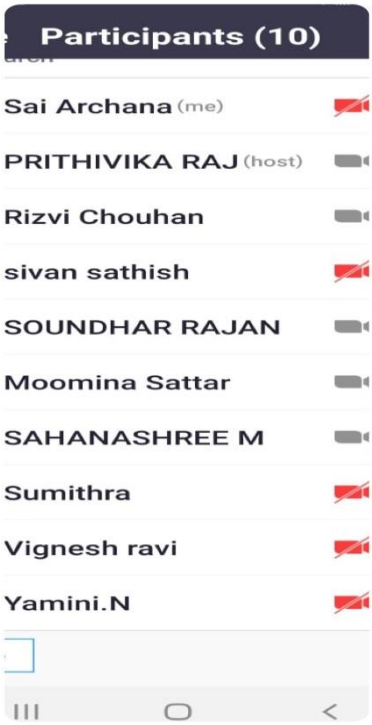

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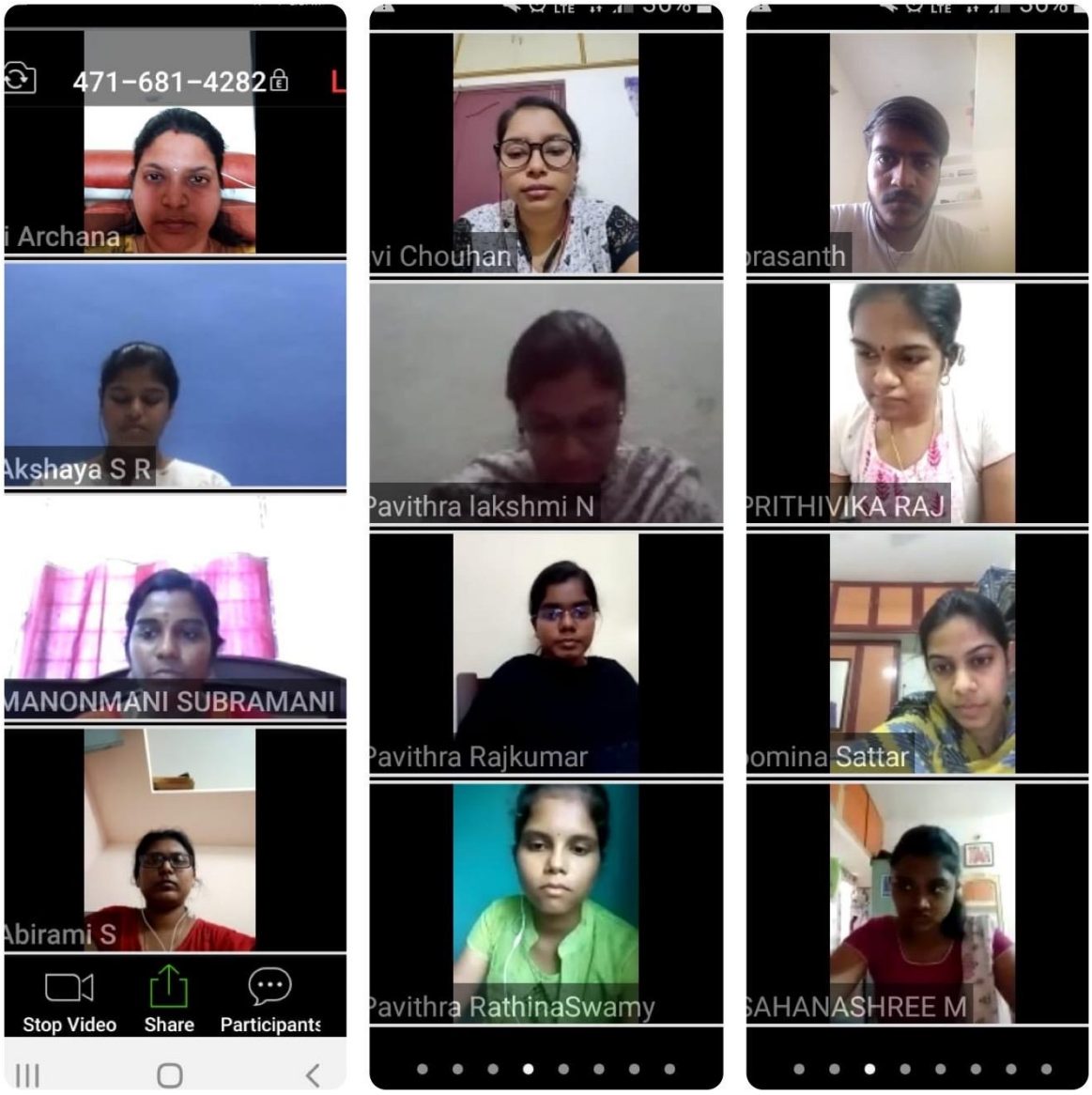

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