

ORAL MEDICINE AND RADIOLOGY- CRRI WORK DONE 13.04.2020-18.04.2020



<u>DEPARTMENT OF ORAL MEDICINE AND RADIOLOGY</u> E-CLASSES FOR CRI BDS

13.4.2020:

• 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

WORK DONE:

- > Dicussion on Basic Sciences
- > Discussion with PGs on Calcium Homeostasis
- > Combined clinical classes with final years.
- > NEET Questions discussion with final years





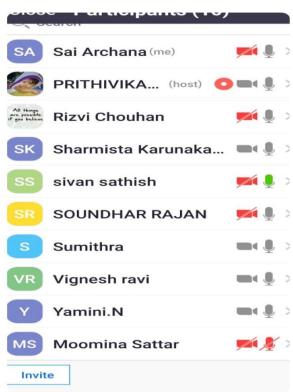






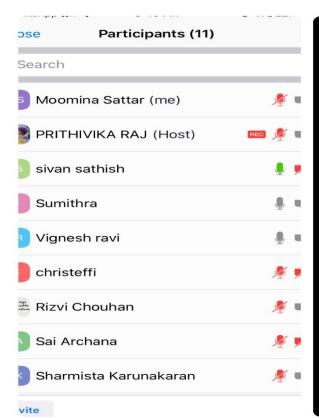




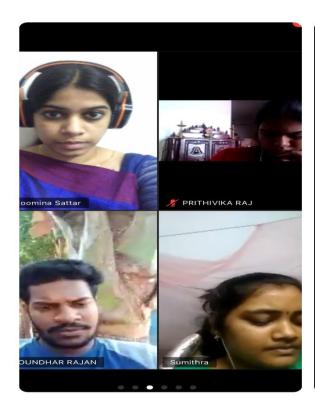




AFTERNOON DISCUSSION:











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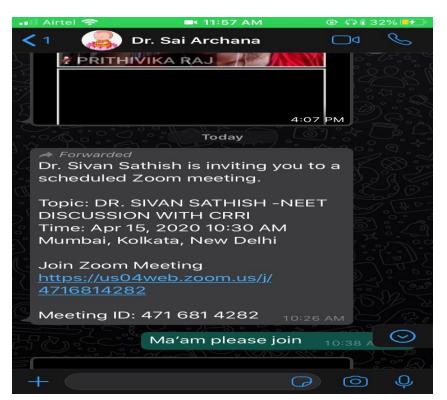
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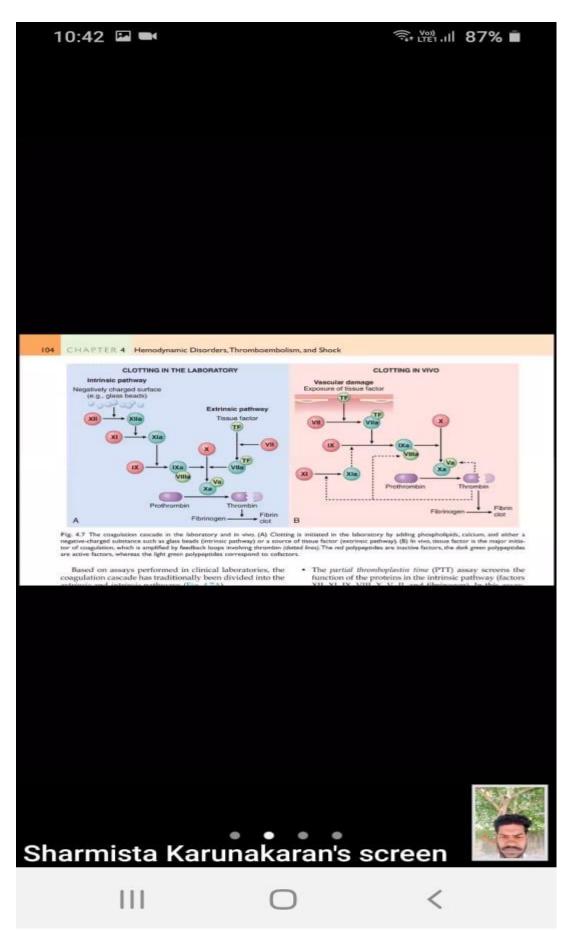
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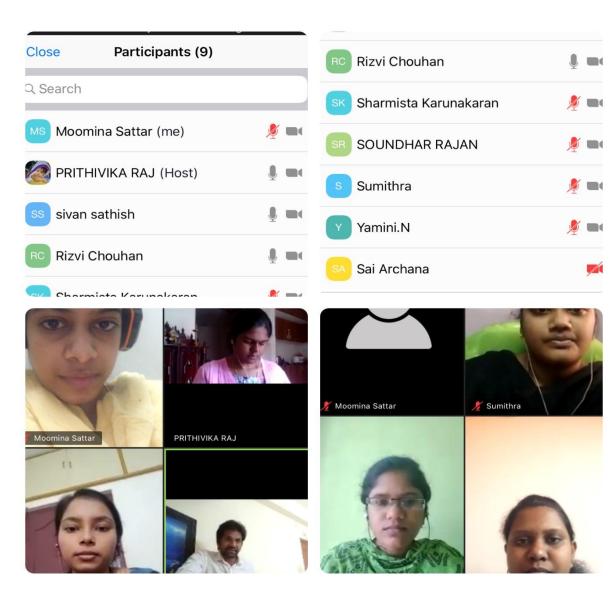
- > Dicussion on Basic Sciences
- Discussion with PGs on Neurological diseases and dental significance
- > Combined clinical classes with final years.
- > NEET Questions discussion with final years.



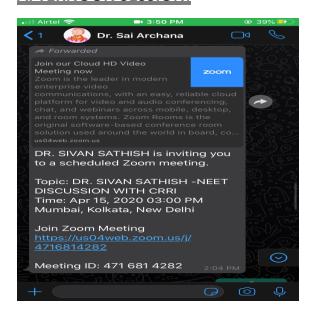








AFTERNOON SESSION:









zvi Chouhan





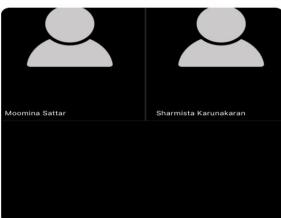




🔏 Nehrthika Kumaresan









Participants (14) Participants (Close Naafia Fathima omina Sattar (me) Sharmista Karunakarar narrthaa Sre (Host) Vignesh ravi vi Chouhan Neha Naomi an sathish Nehrthika Kumaresan afia Fathima Padmajaa Krishnan armista Karunakaran PRITHIVIKA RAJ nesh ravi **SOUNDHAR RAJAN** na Naomi Sumithra nrthika Kumaresan Yamini.N Invite





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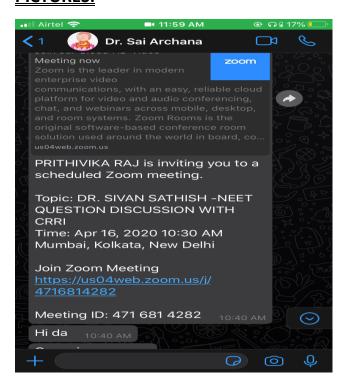
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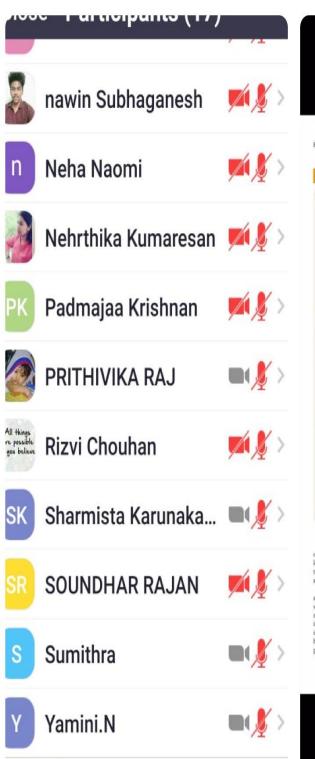
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WORK DONE:

- Dicussion on Basic Sciences
- > Discussion with PGs on PHYSIOLOGY OF TASTE
- > Combined clinical classes with final years
- > NEET Questions discussion with final years







Invite



88 SECTION I Cellular and Molecular Basis for Medical Physiolog

CLINICAL BOX 4-1

Demyelinating Diseases

Normal conduction of action potentials relies on the insulating properties of myelin. Thus, defects in myelin can have major adverse neurologic consequences. One example is multiple sclerosis (MS), an autoimmune disease that affects over 3 million people worldwide, usually striking between the ages of 20 and 50 and affecting women about twice as often a sme. The cause of MS appears to include both genetic and environmental factors. It is most common among whites living in countries with temperate climates including Europe, southern Canada, northern United States, and southeastern Australia. Environmental triggers include early exposure to virices such as Epiteria Pari virus and those that cause measles, herpes, chickenpox, or influenza. In MS, antibodies and white blood cells in the immune system attack myelin, causing inflammation and injury to the sheath and eventually the nerves that it surrounds. Loss of myelin leads to leakage of K' through voltage-gated channels, hypespolarization, and failure to conduct action potentials. Intital presentation commonly includes reports of paraparesis (weakness in lower extremities) that may be accompanied by mild spatisficial surrections.

characterized by blurred vision, a change in color perception, visual field defect (central scatema), and pain with eye movements; dysarthrike and dysphagia. Symptoms are often exacerbated by increased body temperature or ambient temperature. Progression of the disease is quite variable. In the most common form called relapping-remitting MS, traviant episodes appear suddenly, list a few weeks or months, and then gradually disappear. Subsequent episodes can appear years fates, and eventually full recovery does not occus. A steadily womening course with only minor periods of remission isecondary progressive MSS develops later in many individuals. Others have apongessive from the diseases in which there are no periods of remission (primary-progressive MSS.) Diagnosing MS is very difficult and generally is delayed until multiple episodes occur with deficits separated in time and space. Nerve conduction tests can detect slowed conduction in motor and sensory pathways. Cerebral spinal fluid analysis can detect the presence of eligoporanal bands indicative of an abnormal immune maction against myelin. The most definitive assestment is magnetic resonance imaging (MRB) to visualize multiple scarred (sclerotri areas or pluques in the brain. These plaques often appear in the perventricular regions of the cerebral hemispheres.

THERAPEUTIC HIGHLIGHTS

Although there is no cure for MS, corticosteroids (eg. prednisones) are the most common treatment used to reduce the inflammation that is accentuated during a relapse. Some drug treatments are designed to modify the course of the disease. For example, daily elijections of pl-interferons suppress the immune respect to reduce the severity and slow the progression of the disease. Glatizamer acetate may block the immune systems attack on the myelin. Natalizumab interfers with the ability of potentially damaging immune cells to move from the bloodstream to the CNS. A clinical trial using B cell-depleting therapy with rituximab, an arti-CD20 monoclonal antibody, showed that the progression of the disease was slowed in patients younger than 51 years in whom the primary-progressive form of MS was disapnoted. Another clinical trial has shown that oral administration of fingolimed slowed the progression of the relapsing-remitting form of MS. This immunosuppressive drug acts by requestering lymphocytes in the lymph nodes, thereby limiting their access to the CNS.

or attached to the side of the axon (eg, cutaneous neurons). Its location makes no difference as far as the receptor function of the dendritic zone and the transmission function of the axon are concerned.

The axons of many neurons are myelinated, that is, they acquire a sheath of myelin, a protein-lipid complex that is wrapped around the axon (Figure 4-18). In the peripheral nervous system, myelin forms when a Schwann cell wraps its membrane around an axon up to 100 times. The myelin is then compacted when the extracellular portions of a membrane protein called protein zero \mathbb{C}_1 (bok to the extracellular portions of \mathbb{P}_8 in the apposing membrane. Various mutations

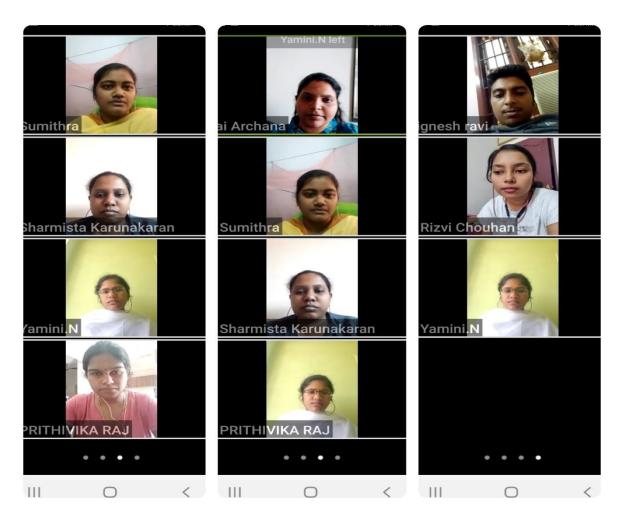
in the gene for P_g cause peripheral neuropathies, 29 different mutations have been described that cause symptoms ranging from mild to severe. The myelin sheath envelops the axton except at its rading and at the nodes of Ranvier, periodic 1-jam constrictions that are about 1 mm apart (Figure 4-2). The insulating function of myelin is discussed later in this chapter. Not all neurons are myelinated; some are unmyelinated, that is, simply surrounded by Schwarn cells without the wrapping of the Schwarn cell membrane that produces myelin around the axton.

In the CNS of mammals, most neurons are myelinated, but the cells that form the myelin are oligodendrocytes

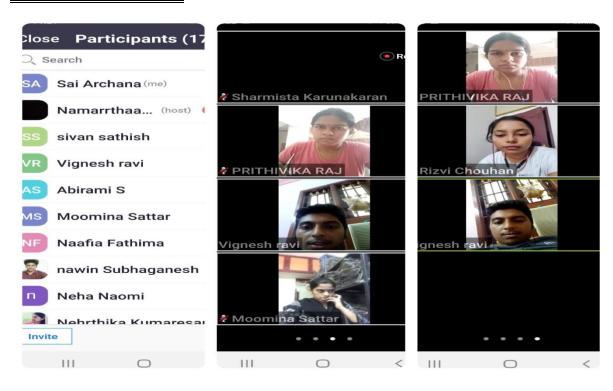
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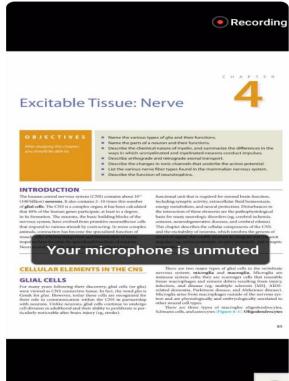


AFTERNOON SESSION:





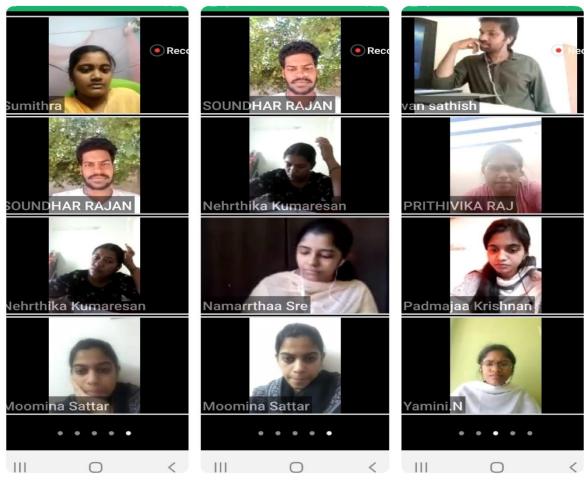










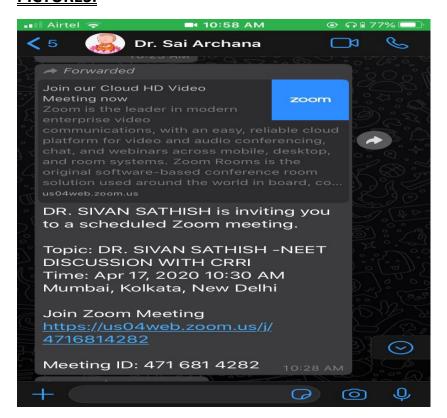




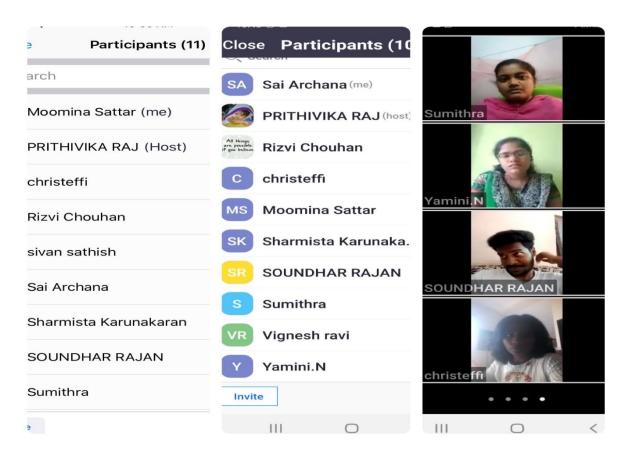




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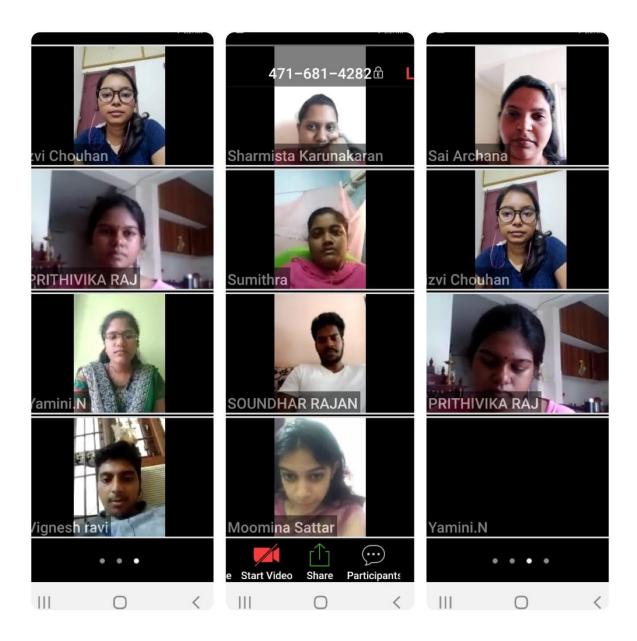


















Rizvi Chouhan's screen

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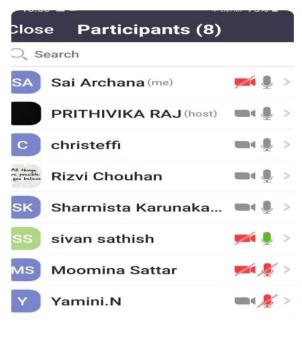
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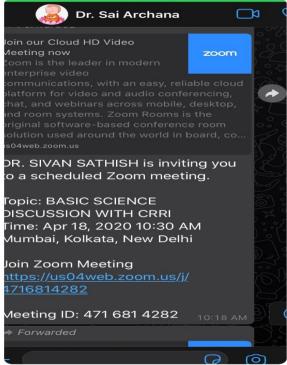
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- > Combined clinical classes with final years
- > NEET Questions discussion with final years

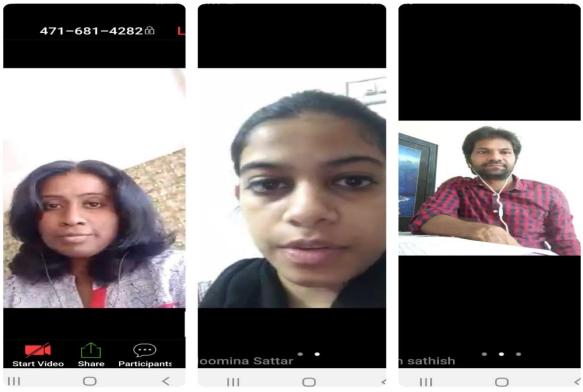














AFTERNOON SESSION:

