



## **INTERNATIONAL CONSULTATIVE MEET ON “ACCESSIBLE AND SUSTAINABLE HEARING CARE FOR ALL IN SOUTH EAST ASIA REGION” held on 2<sup>nd</sup> -3<sup>rd</sup> February 2018**

### **Organizers:**

Department of Community Medicine, Maulana Azad Medical College and Associated Hospitals, New Delhi

In collaboration with World Health Organization and Ministry of Health and Family Welfare.

Technical support from Sound Hearing 2030.

**Venue:** New Lecture Theatre, Ground Floor, Maulana Azad Medical College, New Delhi.

**Total participants:** 135

### **Report**

**Day 1 (Date: 2.02.2018, Time: 9am to 4:15pm)**

#### **Inaugural session:**

The international consultative meet commenced with the inaugural session during which Dr. Suneela Garg, Director Professor and Head, Department of Community Medicine, Maulana Azad Medical College, briefed the participants on the status of hearing care in India and the barriers and challenges in primary ear care and the highlights of the agenda of the consultative meet.

Following which Dr. A.K. Agarwal, former Dean, Maulana Azad Medical College and Addl. Director General, New Delhi, spoke to the participants on the need for focussing on prevention of hearing loss and filling of gaps in primary ear health care in the country.

Dr. S. Ramji, Dean, Maulana Azad Medical College, in his inaugural address spoke on the need for implementing primary level ear care, capacity building of grass root level workers and inter-sectoral coordination to ensure availability of ear health care service delivery throughout the country.

Dr. Patanjali Nayar, Regional Advisor for Disability, Injury Prevention and Rehabilitation (DPR), SEARO, New Delhi, in his address highlighted the importance of the National Programme for Prevention and Control of Deafness (NPPCD) including the Sound Hearing 2030 initiative and how it should be replicated in other countries, especially in South East Asian Region, to reduce the burden of avoidable hearing impairment.

Dr. Promila Gupta, Deputy Director General (Blindness and Deafness), Ministry of Health and Family Welfare (MoHFW), Directorate General of Health Sciences, discussed how the consultative meet would help in bringing about new ideas and boost the NPPCD programme in our country.

Mr. Sunil Sharma, Joint Secretary, MoHFW briefed the participants on the need to integrate ear health care with the maternal and child health care programme and also stressed on neonatal screening for hearing defects.

## **Technical Sessions Day 1**

**(Time: 10:00-11:30am)**

- Dr. Pragya Sharma, Professor, Department of Community Medicine, Maulana Azad Medical College, spoke on the World Health Assembly Resolution on hearing loss and the objectives of the consultative meet. The important aspects highlighted in the presentation were accessibility to ear and hearing care, universal access to prevention and screening programmes in respect of primary ear and hearing care, integrating strategies for ear and hearing care within the primary health care systems framework, capacity building by training human resources in the field of ear & hearing care and improved access to communication materials by promoting alternative methods such as sign language, captioning etc.

➤ The objectives of the meet were to sensitize all the participants towards primary ear and hearing care and its operationalization in SEAR and Indian context, identify the barriers and challenges for prevention of hearing loss and deafness and development of a road map for strategic implementation.

- Dr. Suneela Garg spoke on Primary ear and hearing care, the global burden of hearing loss and the changing scenario. She spoke about the rising number of cases of hearing loss and the need to understand better the burden of hearing loss in the community. She also spoke on the important causes of hearing loss for which primary ear care services should be made available in the country.

➤ One of the key recommendations made was to develop human resources for providing primary ear health care throughout the country and to make the stakeholders aware about the global and country wise burden of hearing loss.

- Dr. A.K. Agarwal made his presentation on the barriers and challenges in implementing primary ear and hearing care in India, during which he discussed the issues of gender, lack of awareness, misconceptions regarding ear conditions, role of culture, poverty and stigma associated with ear health care. It was recommended by the speaker that school children should be made aware of common ear conditions and how to prevent them.

- Dr. Shelly Chadha, Technical Officer, Prevention of Deafness and hearing loss, World Health Organization, made her presentation through video-conferencing on primary ear care and the WHO perspective on strategies towards prevention and control of deafness. Dr. Chadha stressed on the importance of making ear and hearing care accessible to all.

Key recommendations included development of primary ear care and referral services at the community level and to form linkages between the community, public health sector, NGOs, WHO and other associated professional bodies.

**(Tea break from 11:30-11:45 am)**

## **Technical sessions post tea break (Time: 11:45-1:15pm)**

- Dr. Patanjali Nayar, Regional Advisor for Disability, Injury Prevention and Rehabilitation (DPR), SEARO, New Delhi spoke on the need for strengthening primary ear care in South East Asian Region. In his presentation Dr. Nayar discussed how large the problem of hearing loss is in the South East Asian Region in comparison to Sub-Saharan Africa.

Key recommendations were to make available the products listed under the WHO's priority assistive products list at subsidized costs to the community for reducing the burden of hearing loss. The need to use resources judiciously was emphasized on. Dr. A.K. Agarwal recommended the development of affordable hearing diagnostic tools.

- Dr. Nitin Nagarkar, Director, AIIMS, Raipur deliberated upon the status of primary ear and hearing care in the South East Asian Region. Dr. Nagarkar recommended the promotion of health education as a measure to prevent and control deafness. It was recommended by the chairperson that health personnel such as midwives and ANMs need to be trained on providing primary ear care.
- Dr. Sara Varghese, National Director & Managing Trustee, CBM addressed the gathering on the importance of strengthening primary ear and hearing care in the country
- Dr. Promila Gupta discussed the National Programme for Prevention and Control of Deafness and its operationalization. The presentation touched upon the magnitude of hearing loss in our country, goals and strategies of the programme.

Dr. Suneela Garg suggested that medical colleges and the Department of Community Medicine should undertake supervision and monitoring of the programme as it is being done in Maternal Death and Surveillance Response (MDSR).

- Dr. M.M. Singh, Director Professor, Department of Community Medicine, Maulana Azad Medical College made his presentation on the epidemiology and risk factors of hearing loss in context of developing countries. Issues such as the paucity of national survey data on hearing loss was highlighted in the session.

Key recommendations included use of mobile applications for assessing hearing loss in remote areas. Other recommendations included the maintenance of a deafness register for the country and to encourage undergraduates and postgraduates to undertake research on the prevalence of deafness in the community.

**(Lunch break: 1:15-2:00pm)**

### **Panel discussion on “Status of Primary Ear and Hearing Care” in SEAR countries**

**(Time: 2:00pm-4:00pm)**

- Dr. Rakesh Srivastav, chairman of IMPACT, Nepal shared the experience of IMPACT in providing primary ear and hearing care to the community in Nepal. He also elaborated how the organization was conducting mobile ear surgery camps as tertiary level care.

Key discussion points included the risk of acquiring postsurgical infections in this camp based treatment approach and the sustainability of such an approach, the need for creating manpower for providing primary ear care such as audiology and otology assistants and ear care workers and the need to develop a strategy to prevent ear care problems for Nepal.

- Dr. Kamrul Hasan, Professor and Head, ENT, Bangabandhu Sheikh Mujib Medical University (BSMMU), Dhaka, Bangladesh spoke on the status of primary ear care in Bangladesh. He shared that a National Institute of ENT is under construction in Bangladesh and that the Government has plans of capping the price of hearing aids being distributed in the country. Also screening activities are being undertaken in the high-risk occupational groups for hearing defects.

Key discussion points include the barriers faced by the country in providing primary ear care, which comprised of mostly administrative and political issues. Dr. A.K. Aggarwal commented on the training programme for audiologists in Africa and Germany and the need for our country to undertake similar capacity building for primary ear care service delivery.

- Dr. Nyilo Purnami, Lecturer and Coordinator of Research, faculty of Medicine, Airlangga University in Surabaya, Indonesia spoke about the Indonesian National Committee on prevention of hearing loss and deafness (Komnas PGPKT) and the activities undertaken to achieve the goal of Sound hearing 2030. The main activities undertaken by the Indonesian National Committee include National Campaign of Deafness Prevention for high-risk population and for general population, Less Noise City initiative to reduce noise in public areas and Lets Make Listening Safe initiative through KRSB (Kampanye Remaja Sadar Bising - Noise Awareness Campaign for Teenager), spreading awareness on the danger of excessive noise in adolescents through promotion media such as printed/electronic media, talk show, fun walk, Car Free Day during World Hearing Day and NAD (Noise Awareness Day).

Coordination between the government, NGOs and other bodies was recommended for better functioning of the programme in the country.

- Dr. Khin Khin Phyu, Professor and Head of the Department of ENT, University of Medicine, Mandalay, Myanmar and Project Manager of the Prevention of Deafness Project, Myanmar spoke on the Prevention of Deafness Project. The screening of young school students for hearing defects has been planned for in the near future.

Lack of resources and manpower was stated as one of important barriers faced by the country.

### **Technical sessions by guest speakers**

- Dr. Pankaja Raghav, Professor & Head, Department of community medicine and Family Medicine, AIIMS, Jodhpur spoke on the activities undertaken by AIIMS, Jodhpur in the field for strengthening primary ear and hearing care.

The need to undertake studies on noise induced hearing loss in the community emerged as an important recommendation.

- Dr. Ritesh Singh, Associate Professor, Dept. of community medicine, College of Medicine and JNM hospital, Kalyani, West Bengal spoke on public private partnership in primary ear and hearing care.

Some important recommendations included provision of funds by the government for conducting research in primary ear care, introduction of certificate courses and capacity building to provide ear care services in the community. Recommendations made by other participants were involvement of NGOs to support the programme and evaluation of the role of RBSK for screening hearing defects and development of referral systems for complicated cases.

- Dr. Suneela Garg concluded the first day of the programme by recapitulating the important recommendations made during the technical sessions and highlighting the barriers and challenges faced in primary ear care in the country.

**Day 2 (Day: 3.02.2018, Time: 9am to 4pm)**

**Technical Sessions Day 2:**

**(Time: 9:30-10:45am)**

- Dr. Nandini Sharma, Director Professor, Department of Community Medicine, Maulana Azad Medical College, spoke on the role of IEC in Primary ear and hearing care. The process of designing, developing and validation of the IEC material was also discussed in great detail. The IEC material including flip charts designed by the Department of Community Medicine for usage by community level health workers on ear care and detection of hearing loss were displayed during the presentation and explained in detail by Dr. Suneela Garg.
- Dr. Rohit Mehrotra, Professor of ENT, Director of Mehrotra ENT Hospital, Ashok Nagar, Kanpur, spoke on the integration of otology and audiology and the initial experience with ear care workers in the State of Uttar Pradesh and on the Shruti programme. He stressed on the need for having an otology and audiology team under one roof to ensure better management of childhood hearing loss, idiopathic sudden sensorineural hearing loss and tinnitus and cochlear implants. The major challenges faced in the field of ear and hearing care in the State of Uttar Pradesh were the lack of skilled manpower and infrastructure in the government sector, large burden of CSOM and hearing loss in both children and adults and highly priced services offered by the private health sector.
- Dr. J. C. Passey, Medical Director- LNJP Hospital, New Delhi, presented an update on Otitis Media in which he discussed the barriers faced in its treatment and recent advances in treatment in the fields of microbiology, biofilm study, vaccines, genetics and drug delivery. He mentioned how these recent advances offer the potential for better treatment in the future.
- Dr. Achal Gulati, Director Principal and Director Professor of ENT, Dr. BSA Medical College, New Delhi, spoke on the rehabilitation strategies for hearing loss. The need to select affordable and good quality hearing aids was stressed upon.

During discussion Dr. A.K. Agarwal spoke on the benefits of Borospirit in Otitis Media management due to its affordability and effectiveness.

**(Tea break: 10:45-11:00am)**

**Technical sessions post tea break**

**(Time: 11:00-1:30am)**

- Ms. Shilpi Narang, Special educator, Alps International, New Delhi, made a presentation on 'Parents, the essential partners in the rehabilitation of children with hearing impairment'. She discussed the role of special educators in counselling of parents of children with hearing loss and described the various methods of rehabilitation for children with hearing loss.
- Dr. Nishi Gupta, Associate Medical Director and Head, Dept. of ENT, Dr. Shroff's Charity Eye Hospital, New Delhi, spoke on the role of tele-otology in primary ear and hearing care and the activities undertaken under the Shruti programme by Medtronics. Challenges faced in the programme included conducting door-to-door survey by the health workers and the involvement of parents in the programme for screening of ear defects and hearing loss in their children.

- Dr. Saurabh Varshney, Professor and Head, Dept. of ENT, AIIMS, Rishikesh spoke on the need for neonatal hearing screening and prevention of congenital hearing loss. Chairperson Dr. S. Ramji stressed on home delivery as an important barrier for screening of neonates for hearing loss.
- The status of NPPCD and Primary ear and hearing care in the states of Andaman & Nicobar Islands, Arunachal Pradesh, Assam, Chhattisgarh, Goa, Kerala, Manipur, Sikkim, Andhra Pradesh and Mizoram was shared by the respective State Nodal officers and representatives of the state.

- a) Dr. A Subramaniam, SNO (NPPCD), Andaman & Nicobar Islands shared an update on the current status of the NPPCD programme in the State of Andaman & Nicobar. During his presentation he spoke about some important challenges faced by the State in the functioning of the programme, which included, the varied topography of the State, lack of health personnel and NGOs working in primary ear care.
- b) Dr. Sankaranarayanan, Professor of ENT, Madras Medical College, Chennai, presented the progress of NPPCD in Tamil Nadu. He spoke about new initiatives undertaken in the programme such as the compulsory new born screening programme that has been begun in two districts and will be extended to other districts, capacity building and manpower training development.

Key recommendations included establishment of a National congenital deafness registry, standardization of the cost and quality of hearing aids and cochlear implants being used in the programme, recruitment of adequate number of audiologists in the programme and integration of the audiology services of NPPCD, DEIC and Rehabilitation Department with Medical Colleges or District Head Quarter Hospitals.

- c) Dr. Manoj G. Nair, SNO (NPPCD), Kerala spoke about lack of manpower under the programme in Kerala, especially audiologists. Level 1 training is yet to be undertaken for the State.
- d) Dr. Kamlesh Jain, SNO, Chhattisgarh, Associate Professor, Dept. of Community Medicine, Pt. JNM Medical College, Raipur, during his presentation spoke about the services provided under the NPPCD programme in Chhattisgarh including the construction of sound proof rooms and BERA in 9 out of 14 districts and the various IEC and BCC activities being undertaken in the State.
- e) Dr. Upashna Rai, ENT Surgeon, STNM Hospital, Sikkim on behalf of SNO (NPPCD), Sikkim, spoke about the progress of the programme in Sikkim. Some of the challenges faced are lack of manpower such as audiologists and speech instructors. She also highlighted how huge the burden of hearing loss is in the old aged population and the need for the programme to focus on this section of the community.
- f) Dr. Bhupen Nath, SNO (NPPCD), Assam, shared with the participants that the new initiatives under the NPPCD programme in Assam included screening camps for 0-6 years children in collaboration with RBSK and provision of hearing aids from February 2018. Awareness and screening camps are underway in 22 districts of Assam.

## **Way forward:**

Dr. Suneela Garg in her concluding remarks recommended the use of systems approach in primary ear care in India. She stressed on the need for formation of linkages between the public sector, private sector, NGOs and other related professional bodies and the need to adopt an integrated approach in primary ear care in order to improve the status of primary ear and hearing care in India. State representatives were informed about the EHCSAT tool available on the SH2030 website.

Dr. A.K. Agarwal stressed on public private partnerships as an important strategy to provide primary ear care for all. Dr. Promila Gupta recommended that apex medical colleges should provide handholding for the programme in the States and they should be sensitized about the NPPCD programme.

## **Recommendations:**

1. Development of human resources under the NPPCD programme.
2. Capacity building.
3. Sensitization of all health facilities about the services provided under NPPCD programme.
4. Systems approach to be followed in primary ear and hearing care service delivery.
5. Formation of linkages between the public sector, private sector, NGOs and other related professional bodies and the need to adopt an integrated approach in primary ear care in India.
6. Establishment of a National congenital deafness registry.
7. An audiology centre to be attached to all health facilities for providing comprehensive ear and hearing care.
8. Provision of grants by the government for conducting research in the field of ear care.

The programme ended with concluding remarks by Dr. Suneela Garg and Dr. A.K. Agarwal. The next meeting of Ear and Hearing Care will be held after 6 months.

## **Annexure-I**

**Date: 2.02.2018 (Day 1)**

<b>Time</b>	<b>Topic/Activity</b>	<b>Speaker</b>	<b>Chairperson/s</b>
9.00-9.30 am	Registration, arrangements	Ms. Indu Arora, Ms. Janki Mehta, Ms. Tripti, Mr. Nand kishore	–
9.30-10.00am	Inaugral session	Dr. Sunil Sharma Dr. Promila Gupta Dr. Patanjali Nayar Dr. Suneela Garg Dr. A.K. Agarwal Dr. S Ramji	Coordinators: Lt. Col. (Dr.) Vipra Mangla Dr. Kajok Engtipi Dr. Ekta Arora Dr. Vinita Dr. Nidhi Budh Dr. Ruchi
10.00-10.15am	World Health Assembly Resolution and Objectives of consultative meet	Dr. Pragya Sharma	Dr. A.K. Agarwal Dr. M.M. Singh
10.15-10.30am	Primary Ear and Hearing Care: Global burden of hearing loss changing Scenario	Dr. Suneela Garg	Dr. A.K. Agarwal, Dr. Rakesh Srivastav
10.30-10.45am	Barrier and challenges in implementing primary ear and hearing care	Dr. A.K. Agarwal	Dr. Pankaja Raghav, Dr. NyiloPurnami
10.45-11.30am	Video Conferencing	Dr. Shelly Chadha	Dr. A K Agarwal

	“Primary Ear Care- A strategy towards Prevention and Control of Deafness: WHO Perspective”		Dr. GS Meena
11.30-11.45am	.....Tea.....		
11.45-12.30pm	Status of Primary Ear and Hearing Care in SEAR	Dr. Nitin Nagarkar	Dr. Khin KhinPhyuster
12.30-12.45pm	Need for Strengthening Primary Ear Care in South East Asian Region	Dr. Patanjali Nayar	Dr. Nitin Nagarkar Dr. Kamrul Hasan Tarafder
12.45-1.00pm	National Programme for Prevention and Control of Deafness and its operationalisation	Dr. Promila Gupta	Dr. Nandini Sharma, Dr. Nyilo Purnami
1.00-1.15pm	Epidemiology and risk factors of Hearing Loss in context of Developing Countries	Dr. MM Singh	Dr. A Subramaniam Dr. Ranabir Pal
1.15-2.00pm	.....Lunch.....		
2-3.00pm	Panel discussion on “Status of Primary Ear and Hearing Care” in SEAR countries <ul style="list-style-type: none"> <li>• Taking Ear Care to Community in Nepal</li> <li>• Indonesia</li> <li>• Bangladesh</li> <li>• Myanmar</li> </ul>	<ul style="list-style-type: none"> <li>• Dr. Rakesh Srivastav</li> <li>• Dr. Nyilo Purnami</li> <li>• Dr. Kamrul Hasan Tarafder</li> <li>• Dr. Khin Khin Phyuster</li> </ul>	Dr. A.K. Agarwal, Dr. Patanjali Nayar
3.00-3.15pm	Activities undertaken by AIIMS Jodhpur in field of strengthening primary Ear & Hearing Care in Community Setting	Dr. Pankaja Raghav	Dr. GS Meena
3.15-3.30pm	Public private partnership in Primary Ear and Hearing Care	Dr. Ritesh Singh	Dr. Pankaja Raghav Dr. Nandini Sharma
3.30-3.45pm	Ethical issues in Primary Ear and Hearing Care	Dr. A.K. Agarwal	
3.45-4.00pm	Summary and conclusion of Day 1	Dr. Suneela Garg	–
4.00-4.15pm	.....Tea.....		

**Date: 3.2.2018 (DAY 2)**

<b>Time</b>	<b>Topic/Activity</b>	<b>Faculty/Staff</b>	<b>Moderator/Panelist</b>
9.30-9.45am	Role of IEC in Primary Ear and Hearing Care	Dr. Nandini Sharma	Dr. Promila Gupta, Dr. Sankaranarayanan
9.45-10.00am	Integration of otology and audiology and initial experience with ear care workers in the state of UP	Dr. Rohit Mehrotora	Dr. A.K. Agarwal Dr M.M Singh
10.00-10.15am	Otitis Media- an update	Dr. J. C. Passey	Dr. Suneela Garg, Dr. Rakesh Srivastav
10.15-10.45am	Rehabilitation strategies for hearing loss	Dr. Achal Gulati	Dr. Nitin Nagarkar Dr. A.K Agarwal
10.45-11.00am	.....Tea.....		
11.00-11.15am	Importance of parents counselling in rehabilitation	Ms. Shilpi Narang	Dr. Achal Gulati Dr. Suneela Garg
11.15-11.30am	Role of tele-otology in Primary ear and hearing care	Dr. Nishi Gupta	Dr. JC Passey Dr. AK Agarwal
11.30-11.45pm	Status of NPPCD and Primary Ear and Hearing Care in Goa	Dr. Vinay M.	Dr. Promila Gupta Dr. Suneela Garg Dr G.S Meena
11.45-12pm	Need for Neonatal Hearing screening and prevention of congenital hearing loss	Dr. Saurabh Varshney	Dr. S Ramji Dr Achal Gulati
12-1pm	Status of NPPCD and Primary Ear and Hearing Care in <ul style="list-style-type: none"> <li>• Andaman and Nicobar Islands</li> <li>• Arunachal Pradesh</li> <li>• Assam</li> </ul>	<ul style="list-style-type: none"> <li>• Dr. A Subramaniam</li> <li>• Dr. Pekba Ringu</li> <li>• Dr. Bhupen Nath</li> </ul>	Dr. Promila Gupta Dr. Suneela Garg Dr G.S Meena



	<ul style="list-style-type: none"> <li>• Chhattisgarh</li> <li>• Goa</li> <li>• Kerala</li> <li>• Manipur</li> <li>• Sikkim</li> <li>• Tamil Nadu</li> <li>• Mizoram</li> </ul>	<ul style="list-style-type: none"> <li>• Dr. Kamlesh Jain</li> <li>• Dr. Vinay</li> <li>• Dr. Manoj Nair</li> <li>• Dr. T Manihar Singh</li> <li>• Dr. Upasana Rai</li> <li>• Dr. Sankaranarayanan</li> <li>• Dr. Eric Zomawia</li> </ul>	
1.-1.30pm	Primary Ear and Hearing Care and the way forward	Dr. A.K. Agarwal Dr. Suneela Garg	
1.30-2.30	Certificates Valedictory followed by .....Lunch.....		—

## Annexure-II

### List of expert panellists:

1. Dr. Suneela Garg, Director Professor and Head, Department of Community Medicine, Maulana Azad Medical College
2. Dr. A.K. Agarwal, former Dean, Maulana Azad Medical College and Addl. Director General, New Delhi.
3. Dr. S. Ramji, Dean, Maulana Azad Medical College
4. Mr. Sunil Sharma, Joint Secretary, MoHFW
5. Dr. Promila Gupta, Deputy Director General (Ophthalmology), MoFHW, Directorate General of Health Sciences.
6. Dr. Pragya Sharma, Professor, Department of Community Medicine, Maulana Azad Medical College
7. Dr. Shelly Chadha, Technical officer, Prevention of Deafness and hearing loss, Blindness and Deafness Prevention, Disability and Rehabilitation, World Health Organization. World Health Organization.
8. Dr. Patanjali Nayar, Regional Advisor for Disability, Injury Prevention and Rehabilitation (DPR), SEARO, New Delhi
9. Dr. Nitin Nagarkar, Director, AIIMS, Raipur
10. Dr. M.M. Singh, Director Professor, Department of Community Medicine, Maulana Azad Medical College
11. Dr. Rakesh Srivastav, chairman of IMPACT, Nepal
12. Dr. Kamrul Hasan, Professor and Head, ENT, Bangabandhu Sheikh Mujib Medical University (BSMMU), Dhaka, Bangladesh
13. Dr. Nyilo Purnami, Lecturer and Corrdinator of Research, faculty of Medicine, Airlangga University in Surabaya, Indonesia.
14. Dr. Khin Khin Phyu, Professor and Head of the Department of ENT, University of Medicine, Mandalay, Myanmar and Project Manager of the Prevention of Deafness Project, Myanmar spoke on the Prevention of Deafness Project.
15. Dr. Pankaja Raghav, Professor & Head, Department of community medicine and Family Medicine, AIIMS, Jodhpur.
16. Dr. Ritesh Singh, Associate Professor, Dept. of Community Medicine, College of Medicine and JNM hospital, WBUHS, Kalyani, West Bengal.
17. Dr. Nandini Sharma, Director Professor, Department of Community Medicine, Maulana Azad Medical College.

18. Dr. Nishi Gupta, Associate Medical Director and Head, Dept. of ENT, Dr. Shroff's Charity Eye Hospital, New Delhi.
19. Dr. Saurabh Varshney, Professor and Head, Dept. of ENT, AIIMS, Rishikesh.
20. Dr. Rohit Mehrotra, Professor of ENT, Director Mehrotra ENT Hospital, Ashok Nagar, Kanpur
21. Dr.J.C. Passey, Medical Director- LNJP Hospital, New Delhi.
22. Dr. Achal Gulati, Director, Ambedkar Hospital, New Delhi.
23. Ms. Shilpi Narang, Special educator, Alps International, New Delhi.
24. Dr. N.K.Mohindroo, Professor & Head, Dept. of ENT, Indira Gandhi Medical College, Shimla
25. Dr. Diwakar Jha, Professor PSM, NDMC
26. Dr. G.S. Meena, Director Professor, Department of Community Medicine, Maulana Azad Medical College, New Delhi.
27. Dr. Rajesh Kumar, Professor, Department of community medicine, Maulana Azad Medical College, New Delhi.
28. Dr. Sankaranarayanan, Professor of ENT, Madras Medical College, Chennai.
29. Dr. Sara Varghese, National Director & Managing Trustee, CBM.
30. Dr. A Subramaniam, SNO (NPPCD), Andaman & Nicobar Islands
31. Dr. T Manihar Singh, Jt. Director, DHS Manipur, SNO (NPPCD)
32. Dr. Vinay M. Nagvenkar, District nodal officer & Sr. ENT surgeon, Hospicio Hospital, Margao, Goa
33. Dr. Obangjungla, SNO (NPPCD), Nagaland
34. Dr. Ranjan Das, Director Professor, PSM, LHMC, New Delhi
35. Dr. Pekba Ringu, SNO (NPPCD), Arunachal Pradesh
36. Dr. Eric Zomawia, SNO (NPPCD), Mizoram
37. Dr. Manoj G. Nair, SNO (NPPCD), Kerala
38. Dr. Kamlesh Jain, SNO, Chhattisgarh, Associate Professor, Dept. of Community Medicine, Pt. JNM Medical College, Raipur.
39. Dr. Bhupen Nath, SNO (NPPCD), Assam
40. Dr. Upashna Rai, ENT Surgeon, STNM Hospital, Sikkim

#### List of participants

1. Neha Singh, speech therapist
2. Md. Abid Ali, Speech pathologist, Audiologist
3. Priyanka Singh, Consultant audiologist, Asha Speech & Hearing Centre
4. Ravi Mathur, Special educator, Coordinator
5. Dr. Ashutosh Gogia, DPO, State NCD cell, Gujarat
6. Dr. Tushar Jain, Ganganagar, Rajasthan
7. Dr. Ranjana Sethi, Shri Ganganagar, Rajasthan
8. Dr. Nazish Rasheed, Asst. Professor, HIMSR
9. Dr. Gurmeet Kaur, SR Community Medicine
10. Speech and hearing pathologists from Ali Yavar Jung National Institute of Speech and hearing disabilities, Noida – 26 participants
11. Post graduates from Department of Community Medicine, Maulana Azad Medical College, New Delhi – 12 participants
12. Senior Residents from Department of Community Medicine, Maulana Azad Medical College, New Delhi – 10 participants

