



Government of West Bengal  
**Institute of Postgraduate Medical Education & Research**  
**Centre of Excellence in Medical Education & Research**

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**Institute of Otorhinolaryngology and Head & Neck Surgery**  
**Centre of Excellence**

**ENT (Otorhinolaryngology)**

**Faculty List**

<b>Name</b>	<b>Designation</b>
Prof.(Dr.) Debasis Barman	Professor & Head
Prof.(Dr.) Bijan Basak	Professor
Prof.(Dr.) Sudip Kumar Das	Professor
Prof.(Dr.) Goutam Choudhuri	Professor
Dr. Soma Mandal	Associate Professor
Dr. Satadal Mandal	Associate Professor
Dr. Debasish Ghosh	Associate Professor
Dr. Alok Ranjan Mandal	Assistant Professor
Dr. Kaustav Das Biswas	Assistant Professor
Dr. Arindam Das	Assistant Professor
Dr. Siddhartha Kumar Das	Assistant Professor
Dr. Saikat Samaddar	Assistant Professor
Dr. Amit Bikram Maiti	Assistant Professor
Dr. Poulomi Saha	Assistant Professor
Dr. Anindita Sengupta	Assistant Professor
Dr. Chiranjib Das	Assistant Professor
Dr. Ankit Choudhary	Assistant Professor
Dr. Sayan Hazra	Assistant Professor
Dr. Urvee Sarkar	Assistant Professor
Dr. Dhritashree Mandal	Assistant Professor

**Head & Neck Surgery**

**Faculty List**

<b>Name</b>	<b>Designation</b>
Prof.(Dr.) Arunabha Sengupta	Professor
Dr. Subhradeb Biswas	Associate Professor & Head
Dr. Animesh Ghosh	Associate Professor
Dr. Subhadeep Karanjai	Assistant Professor
Dr. Sourav Datta	Honorary Consultant

Dr. Pranay Kumar Agarwal (MS)	RMO cum Clinical Tutor
Dr. Arya Brata Dubey (MS)	RMO cum Clinical Tutor
Dr. Nabanita Mondal (MS)	RMO cum Clinical Tutor

The **Institute of Otorhinolaryngology and Head & Neck Surgery: Centre of Excellence** was established on 3rd March 2020 as iconic and state of the art department at prestigious and historic IPGME&R/SSKM HOSPITAL and was **inaugurated by Hon'ble Chief Minister of West Bengal, Ms. Mamata Banerjee**.

Founding of this Institute has made a paradigm shift in treatment of Ear, Nose and Throat diseases in the State of West Bengal and Eastern India as a whole.

- ⇒ 180 bedded indoor services for Otorhinolaryngology Surgery.
- ⇒ Specialized Trauma care for head and neck injuries.
- ⇒ First time in eastern India.
- ⇒ 24 hours ENT Emergency.

By providing latest and quality treatment to large number of patients across all the strata of society it gives healing touch to the lives of thousands of patients, particularly poorest of the poor. The Institute, which is **FIRST OF ITS KIND IN INDIA**, is gearing up with 180 beds with World Class Facilities free of cost. All General ENT treatments with state-of-the-art equipment, world class operation theater, highly skilled surgeons and caring staffs catering comprehensive treatment of Ear, Nose & Throat diseases under one roof. IORL-HNS has a state-of-the-art Modular Operation Theatre with latest microscope, camera, drill, LASER system to provide best result for our patients. IORL-HNS has five OT table to run five operations at the same time. This ensures large number of cases per day as well as shorter waiting period for patient admission. For Cochlear Implantation surgery we have a separate OT room to provide extra safety and sterility during surgery. This Specialized OT Complex has all the latest medical equipment for better results and to reduce complications even in most adverse situations. World class microscopes (Zeiss, Pentero 9000), Medtronic, NIM-3.0 Facial Nerve monitoring system, Medtronic Skeeter microdrill, CO2 LASER and Storz spies (3-chip) camera system are the latest high end equipments, which help us to operate with highest precision.

### Postgraduate Trainees

Third year	Second year	First year
Dr. Srijana Saha	Dr. Ayesha Shirin	Dr. Tapajit Das
Dr. Kamran Ahmed	Dr. Pooja Goyel	Dr. Nur Mafizur Rahaman
Dr. Deblina Chatterjee	Dr. Rahul Dey	Dr. Payal Pandey
Dr. Souvik Maity	Dr. Chandrima Purkait	Dr. Nitika Singh
Dr. Mainak Saha	Dr. Sabrina Parvin	Dr. Souvik Mondal
Dr. Tushar Halder	Dr. Akash Mondal	
Dr. Aneek Chakraborty	Dr. Buddhadeb Maity	
Dr. Samiuz Zaman	Dr. Tapas Ghosh	

### SPECIALIZED SERVICES:

#### OTOLOGY & NEUROTOLOGY

It is a super speciality division of Otorhinolaryngology (ENT) that specifically treat various types of ear and neural disorders. Starting from simple ear infections to complicated tumours of skull base.

*Basic Otology*- Long standing ear infection is one of the commonest ear diseases that lead to perforation of ear drum and hearing loss. Treatment may involve eardrops, antibiotics or surgery (Tympanoplasty, Mastoidectomy).

- Myringotomy + Grommet insertion
- Tympanoplasty

- Mastoidectomy
- Ossiculoplasty (OCR)

*Stapes Surgery-* Otosclerosis is a condition where the third bone of hearing does not move as well as it should. This causes conductive hearing loss. When hearing loss becomes more advanced, hearing aids or surgery may be effective treatment options.

Stapedotomy is done to replace the smallest bone of the human body with micro prosthesis for these conditions. A successful surgery enables patient to hear again.

*Cochlear Implantation-* Cochlear Implant is probably one of the best inventions in the recent history of medical science for bilateral severe to profound hearing loss. A cochlear implant is an electronic device that stimulates residual nerve fibers in the inner ear. These electrical pulses are sent to the brain and interpreted as sound. While hearing aids and other assistive listening devices simply amplify sounds, a cochlear implant transforms speech and other sounds into electrical energy that is used to stimulate surviving auditory nerve fibers in the inner ear.

#### Statistics

- According to WHO Hearing Impairment (HI) in India is around 6.3%.
- 4 in every 1000 children suffer from severe to profound hearing loss.
- Our expert team of Implant otologist has been involved in doing Cochlear Implantation since 2015 under various sponsored schemes like ADIP, State govt.
- Over 70 implantations done since then with high success rate.

*Facial Nerve Decompression and grafting-* Facial Nerve paralysis can occur as result of viral infection (Bell's Palsy), Head injury, ear and brain tumors. Prompt management in the form of conservative therapy with medicine or surgery (Facial Nerve decompression/ Nerve Grafting) is required to achieve good results.

*Endoscopic Ear Surgery-* Institute of Otolaryngology is pioneering minimally invasive endoscopic ear surgery to fix various middle ear problems, such as ear drum perforations, Otosclerosis, hearing loss and cholesteatoma. Minimally invasive scar less surgical techniques have already gained huge popularity in the field of otology & neurotology. Today it possible to treat ear diseases with the help of endoscope as day care basis. In expert hands this surgeries are painless, devoid of any major complications and reduce hospital stay for the patient.

*Vertigo Clinic-* Institute of Otorhinolaryngology & HNS runs a separate VERTIGO clinic, to provide comprehensive evaluation and management for patients with dizziness and balance disorders.

#### Facilities-

- All relevant investigations at our audiovestibular lab, such as PTA, TDT, SISI, ABLB, ENG.
- Vestibular Rehabilitation Therapy
- Specialized exercise for BPPV (Epley's manoeuvre)
- 3 Tesla MRI

*Lateral Skull Base Surgery-* This encompasses surgery for acoustic neuromas, arachnoid cysts, neurofibromas via trans-labyrinthine approach. Subtotal Temporal Bone Resection is also performed for carcinomas.

## RHINOLOGY

*Functional Endoscopic Sinus Surgery-* FESS is performed for various nasal pathologies such as polyposis, allergic fungal rhinosinusitis, inverted papilloma, etc.

*Endoscopic CSF rhinorrhea repair-* CSF rhinorrhea is leakage of CSF through nasal cavity. It has multiple etiologies. Repair is performed endoscopically without any external incision.

*Endoscopic Trans-nasal Trans-sphenoidal Hypophysectomy-* Endoscopic trans-sphenoidal pituitary excision is a minimally invasive procedure used to remove certain pituitary tumours that starts to grow inside pituitary gland giving rise to endocrine, visual and neurologic sequelae. Our multi-disciplinary team consists of ENT surgeon, Neurosurgeon, Endocrinologist & ophthalmologist. It is much safer compared to open neurosurgery techniques. Post-operative recovery is rapid. complications are transient and minimal with very low morbidity and mortality.

*Anterior Skull Base Surgery-* Pituitary macroadenoma, olfactory groove meningioma, Sino nasal ossifying fibroma, craniopharyngioma, suprasellar arachnoid cyst can be accessed safely through this corridor. Endoscopic trans nasal

anterior skull base surgery becoming popular for both benign and malignant skull base tumors. Reduced the need for extensive hybrid surgical approach to select cases only.

*Sino-nasal tumors resection-* Angiofibroma excision with pre-operative embolization

*Surgery for malignancy-*

*Obstructive Sleep Apnea (OSA) management-*

Infrastructure to manage cases of OSA-

- Sleep lab
- Sleep study machines
- Flexible endoscopes
- Carl Zeiss Microscope
- Karl Storz 3 chip HD Cameras
- HD video Monitors
- Laser Machines
- Coblation Machine

Protocol for OSA management-

1. Sleep study and calculation of AHI
2. Drug Induced Sleep Endoscopy (DISE)
3. CPAP trial
4. Surgical Management- Uvulopalatopharyngoplasty, Z plasty, Turbinoplasty, Septoplasty, Mandibular Advancement, Tongue Base Resection

*Septoplasty and Turbinoplasty-* performed for deviated nasal septum (DNS) and hypertrophied turbinates

*Aesthetic Rhinoplasty-* Each rhinoplasty operation unique and it is customized to the need and look of the patient.

*Endoscopic Dacrocystorhinostomy (EndoDCR)-* performed for epiphora

## **LARYNGOLOGY**

Congenital diseases (Laryngomalacia, Laryngeal Web, Subglottic stenosis, Subglottic Hemangioma) treated by endoscopic excision by LASER and laryngofissure. Inflammatory diseases and traumatic diseases of Larynx are also treated by Standard protocol. Benign and malignant diseases of larynx treated by Microlaryngeal surgery, Hemilaryngectomy, Supraglottic Laryngectomy, Near-Total Laryngectomy, Total Laryngectomy. Laser Therapy, Radiotherapy and Chemotherapy are also offered.

Speech therapy to re-educate voice production is also done at our Institute.

## **HEAD AND NECK ONCOSURGERY**

At the Institute of Otorhinolaryngology and Head Neck Surgery we have a dedicated Head Neck Surgery unit providing the best evidence based surgical care to patients with Head Neck Cancer—the only such dedicated unit within any ENT department in the state.

Oral cancer surgeries- Mid third facial defect reconstructed using Free Fibula Osteocutaneous Flap. Floor of mouth and tongue lesion resected and reconstructed using Pectoralis Major Flap and Reconstruction Plate. Sinonasal malignancy, Salivary gland surgery and Temporal Bone malignancy and Plastic reconstruction with stress on microvascular reconstruction.

## **MAXILLOFACIAL SURGERY**

Our Institute caters to the maxillofacial trauma a case which is taken care by a dedicated team of Maxillofacial and ENT Surgeons.

Un-displaced or minimal injuries are treated by conservative management.

Intermaxillary fixation for Stable Occlusion if needed.

Grossly comminuted or displaced fractures are treated by surgery.

**LASER SURGERY**

Surgeries performed at IORL&HNS using CO2 Laser for Vocal Nodule, Vocal Polyp, T1 laryngeal carcinoma of Vocal cords, Keratosis larynx, and Posterior cordectomy for Abductor Vocal cord palsy, Laryngotracheal stenosis and laryngeal papillomatosis.

**EMERGENCY SURGERY**

Being the apex tertiary referral centre of Eastern India, all the major life-saving emergency procedures are being done round-the-clock

Notable procedures include emergency Rigid Bronchoscopy, Rigid Esophagoscopy, and emergency tracheostomy. And all types of foreign body removal from ear, nose and throat, emergency trauma care surgery, etc.

Rigid Bronchoscopy - one of the most difficult Emergency cases that any doctor may face is a Choking patient or a patient who has inhaled an object into the lungs. - "EVERY SECOND COUNTS"

**INDOOR PATIENT DATA**

<b>2021</b>						
<b>MONTH</b>	<b>MALE ADMISSIONS</b>	<b>FEMALE ADMISSIONS</b>	<b>MALE DISCHARGE</b>	<b>FEMALE DISCHARGE</b>	<b>MALE DEATHS</b>	<b>FEMALE DEATHS</b>
<b>DECEMBER</b>	131	104	111	89	0	0
<b>2022</b>						
<b>JANUARY</b>	121	83	103	72	1	1
<b>FEBRUARY</b>	124	127	110	87	0	0
<b>MARCH</b>	173	156	80	131	2	1
<b>APRIL</b>	120	108	137	128	0	1
<b>MAY</b>	125	101	132	97	0	0
<b>JUNE</b>	140	91	120	71	0	2
<b>JULY</b>	133	146	114	130	2	1
<b>AUGUST</b>	161	133	154	103	0	1
<b>SEPTEMBER</b>	177	135	161	114	2	1
<b>OCTOBER</b>	91	115	77	104	0	2
<b>NOVEMBER</b>	116	131	89	129	1	0

**TOTAL OPD FOOTFALL**

<b>MONTH</b>	<b>MALE</b>	<b>FEMALE</b>
December 2021	3224	3111
January 2022	3001	2976
February 2022	3411	3459
March 2022	3997	3345
April 2022	3184	3671
May 2022	2178	2112
June 2022	2041	1976
July 2022	3412	2212
August 2022	4116	4321
September 2022	4544	4920
October 2022	5121	4881
November 2022	5312	5101
<b>TOTAL</b>	<b>43541</b>	<b>42085</b>

**TOTAL OT CASE COUNT**

<b>OTOLOGY</b>	
Mastoidectomy & Tympanoplasty	476
Facial Nerve Decompression	29
Stapes surgery	59
Pre-auricular sinus	79
Cochlear Implant	47
Ear (Others)	54
<b>RHINOLOGY</b>	
Functional Endoscopic Sinus Surgery (FESS)	211
Endoscopic Dacryocystorhinostomy	34
CSF leak repair	22
Endoscopic Sphenopalatine Artery Ligation	14
Septo-rhinoplasty	105
Rhinospordiosis mass excision	66
Juvenile Nasopharyngeal Angiofibroma and other nasopharyngeal mass excision	71
Endoscopic Transnasal Transphenoidal Hypophysectomy	33
Nose (Others)	112
<b>HEAD AND NECK SURGERY</b>	
Bronchoscopy	33

Esophagoscopy	79
Thyroid and thyroglossal duct surgery	387
Direct Laryngoscopy Biopsy/Microlaryngeal Surgery	697
Adenotonsillectomy	111
Total Laryngectomy	25
Submandibular gland excision	38
Parotidectomy	51
Oral cavity mass biopsy	161
Mandibulectomy	39
Wide local excision + Neck Dissection + Loco-regional Flap Reconstruction	193
Wide local excision + Neck Dissection + Free Flap Reconstruction	2
Neck (Others)	204
<b>TOTAL</b>	<b>3416</b>

## ACADEMIC ACTIVITY

The department is involved in Under & Post graduate teaching, which includes-

- Lectures
- Webinars
- Temporal bone & cadaver dissection
- Seminars,
- Journal clubs,
- CME programmes,
- Group discussions
- Clinical meetings

Regular Temporal Bone Dissection Workshops held regularly at IPGME&R and SSKM Hospital at NPPCD Programme.

State and National conferences as well as different workshop in the country are attended by teachers, students and Medical Officers. 72 well organized CME were conducted in the department during the present year. Theoretical & clinical classes of MBBS students are also taken regularly as per Health University schedule.

## ARTICLES PUBLISHED, WORKSHOPS & CONFERENCES ATTENDED

### Prof. (Dr.) Arunabha Sengupta, Professor & Examiner

1. Examiner for MBBS & MS ENT & HNS exam in IPGME&R SSKM Hospital.
2. DNB examiner of Apollo Chennai Hospital, Department of ENT.
3. External examiner of MS exam of ENT & HNS of Assam Medical College.
4. External examiner of MS exam of ENT & HNS of RIMS, Shillong.
5. Participated 12<sup>th</sup> ENT Conclave on enhancement of surgical outcomes in otorhinolaryngology & Live surgical demonstration on 31<sup>st</sup> July, 2022 (Virtual)
6. Chairperson at 'ORIENT ENT Summit' 2022 held at Taj Vivanta, Kolkata held on 07/08/2022.
7. Attended in 13<sup>th</sup> MIDAOICON organized by AOI West Bengal on 20<sup>th</sup> August, 2022 at BNR officers club, Kolkata.
8. Organizing chairman at "Advanced Workshop and CME on Lateral skull base-Cadaver dissection, live surgery" organized by Institute of Otorhinolaryngology & Head Neck surgery, COE, IPGME & SSKM Hospital, Kolkata on 24<sup>th</sup> & 25<sup>th</sup> September, 2022.

### Dr. Debasis Barman, HOD ENT&HNS

1. Assessor of NMC for PG courses (Otorhinolaryngology) at Mandya Institute of Medical Sciences, Mandya, Bangalore on 19/05/2022.
2. Participated 12<sup>th</sup> ENT Conclave on enhancement of surgical outcomes in otorhinolaryngology Live surgical demonstration on 31<sup>st</sup> July, 2022 (Virtual)
3. Chairperson at 'ORIENT ENT Summit' 2022 held at Taj Vivanta, Kolkata held on 07/08/2022.

4. Attended in 13<sup>th</sup> MIDAOICON organized by AOI West Bengal on 20<sup>th</sup> August, 2022 at BNR officers club, Kolkata.
5. Organizing chairman at "Advanced Workshop and CME on Lateral skull base-Cadaver dissection, live surgery" organized by Institute of Otorhinolaryngology & Head Neck surgery, COE, IPGMER & SSKM Hospital, Kolkata on 24<sup>th</sup> & 25<sup>th</sup> September, 2022.
6. Assessor of NMC for UG courses at Mamta Academy of Medical Sciences (MAMS), Hyderabad on 6/12/22

**Dr Bijan Basak, Professor & Examiner**

1. External examiner of UG at Tejpur Medical College, Assam.
2. External examiner UG, Zogram Medical College, Manipur.
3. Internal examiner UG at KPC Medical College.
4. Internal and external examiner of MS ENT & HNS at RGKar MCH.
5. Internal and external examiner of MS ENT & HNS Midnapur Medical College.
6. Attended 49<sup>th</sup> AOIWBICON 2022 Held at R G Kar Medical College and Hospital.
7. Attended MID AOIWBICON Held at SER Central Hospital, Kolkata, WB.
8. Attended Advanced Workshop and CME on Lateral Skull Base, Cadaver dissection and Live Surgery Organised by IORL & HNS SSKMH. September 2022.
9. Attended 73<sup>th</sup> Annual Conference of the Association of Otolaryngologist of India AOICON 2022
10. Attended 8<sup>th</sup> IASSACON & Calcutta Sleep Course 2<sup>nd</sup> Edition in December, 2022

**Dr. Satadal Mandal, Associate Professor.**

1. Attended Otology Workshop ReVision2020, at Bangalore 03/06/22-05/06/22.
2. External examiner for UG Exam at Midnapore Medical College
3. 49<sup>th</sup> AOIWBICON 2022 Held at R G Kar Medical College and Hospital.
4. MID AOIWBICON Held at SER Central Hospital, Kolkata, WB.
5. Advanced Workshop and CME on Lateral Skull Base, Cadaver dissection and Live Surgery Organised by IORL & HNS SSKMH. September 2022.

**Dr Debashis Ghosh, Associate Professor**

1. Attended Otology Workshop ReVision2020, at Bangalore 03/06/22-05/06/22.
2. Attended 5<sup>th</sup> Hands on Laryngotracheal Reconstruction course at Deenanath Mangeshkar Hospital & Research Centre on 18<sup>th</sup> September 2022.
3. Completed 6<sup>th</sup> Tata Annual Biostatistics and clinical Research Methodology course 15/7/2022-17/7/2022.
4. External examiner for UG Exam at ESI Medical College, Joka.
5. Attended 49<sup>th</sup> AOIWBICON 2022 Held at R G Kar Medical College and Hospital.
6. Attended MID AOIWBICON Held at SER Central Hospital, Kolkata, WB.
7. Attended Advanced Workshop and CME on Lateral Skull Base, Cadaver dissection and Live Surgery Organised by IORL & HNS SSKMH. September 2022.

**Dr Soma Mondal, Associate Professor**

1. External examiner for UG Exam at Midnapore Medical College
2. Attended 49<sup>th</sup> AOIWBICON 2022 Held at R G Kar Medical College and Hospital.
3. Attended MID AOIWBICON Held at SER Central Hospital, Kolkata, WB.
4. Attended Advanced Workshop and CME on Lateral Skull Base, Cadaver dissection and Live Surgery Organised by IORL & HNS SSKMH. September 2022.

**Dr Anindita Sengupta, Assistant Professor**

1. Performed 26 cochlear implant surgeries.
2. Attended advanced Workshop and CME on Lateral Skull Base, Cadaver dissection and Live Surgery Organised by IORL & HNS SSKMH. September 2022.
3. Attended ENT conclave 2022.
4. External examiner for UG Exam at Midnapore Medical College

**Dr. Arindam Das, Assistant Professor**

1. A Das, M Janweja, A Dubey, S Mitra, A Sengupta; A high-resolution computed tomography based scoring system to predict ease of electrode insertion in cochlear implantation; The Journal of Laryngology & Otology 136 (6), 479-485
2. Published a book titled: Surgical Atlas of Transcanal Endoscopic Ear Surgery: A Step by Step Guide September 2022



Publisher: Jaypee Brothers Medical Publishers (P) Ltd.  
ISBN: 978-9354658884

3. Did 15 Cochlear Implant Surgeries.
4. Attended 49th AOIWBICON 2022 Held at R G Kar Medical College and Hospital.
5. Attended Advanced Workshop and CME on Lateral Skull Base, Cadaver dissection and Live Surgery Organised by IORL & HNS SSKMH. September 2022.
6. Attended ISOCON-2022- held at Bhubaneswar, November 2022
7. Principal Investigator (PI) of ongoing ICMR project entitled "A prospective, observational Study of intranasal pH monitoring in post COVID-19 patients in view of rising incidence of Rhino-orbito-cerebral Mucormycosis cases".
8. External examiner for UG Exam at Calcutta National Medical College.

**Dr Subhadeep Karanjy, Assistant Professor**

1. AOIWB State Conference Paper presentation March 2022 Perioperative Acid base disturbances in major maxilla-facial oncosurgeries with flap reconstruction -a retrospective case series.
2. Attended 49th AOIWBICON 2022 Held at R G Kar Medical College and Hospital.
3. Attended MID AOIWBICON Held at SER Central Hospital, Kolkata, WB.
4. Attended Advanced Workshop and CME on Lateral Skull Base, Cadaver dissection and Live Surgery Organised by IORL & HNS SSKMH. September 2022.

**Dr Kautav Das Biswas, Assistant Professor**

1. Attended XVII basic course in Endoscopic Sinus Surgery (20-24<sup>th</sup> April, 2022).
2. Underwent RBCW workshop training in IPGMER & SSKM Hospital in collaboration with Jorhat Medical College Assam (13-15<sup>th</sup> 2022).
3. Attended ENT conclave, 2022.
4. Attended Advanced Workshop and CME on Lateral Skull Base, Cadaver dissection and Live Surgery Organised by IORL & HNS SSKMH. September 2022.
5. External examiner for UG Exam at Sagar Dutta Medical College.

**Dr. Animesh Ghosh, Assistant Professor**

1. External examiner for UG Exam at Midnapore Medical College
2. Attended 49th AOIWBICON 2022 Held at R G Kar Medical College and Hospital.
3. Attended MID AOIWBICON Held at SER Central Hospital, Kolkata, WB.
4. Attended Advanced Workshop and CME on Lateral Skull Base, Cadaver dissection and Live Surgery Organised by IORL & HNS SSKMH. September 2022

**Dr. Siddhartha Kumar Das, Assistant Professor**

1. External examiner for UG Exam at I care hospital.
2. Attended 49th AOIWBICON 2022 Held at R G Kar Medical College and Hospital.
3. Attended MID AOIWBICON Held at SER Central Hospital, Kolkata, WB.
4. Attended Advanced Workshop and CME on Lateral Skull Base, Cadaver dissection and Live Surgery Organized by IORL & HNS SSKMH. September 2022

**Dr . Poulomi Saha, Assistant Professor**

1. External examiner for UG Exam at IPGMER& SSKM Hospital.
2. Attended 49th AOIWBICON 2022 Held at R G Kar Medical College and Hospital.
3. Attended MID AOIWBICON Held at SER Central Hospital, Kolkata, WB.
4. Attended Advanced Workshop and CME on Lateral Skull Base, Cadaver dissection and Live Surgery Organised by IORL & HNS SSKMH. September 2022

**Dr Saikat Samaddar, Assistant Professor**

1. Maiti AB, Dam SP, Samaddar S, Das SK. A retrospective comparative study on the outcome of microscope-assisted technique and supra-auricular approach in preauricular sinus surgery in a Tertiary Care Hospital. Journal of Indian Association of Pediatric Surgeons. 2022 Sep 1; 27(5):565.
2. Maiti, A.B., Samaddar, S., Ghosh, S. et al. An Epidemiological Study of Hearing Loss in a Peripheral Tertiary Care Hospital. Indian J Otolaryngol Head Neck Surg (2021).<https://doi.org/10.1007/s12070-021-02934-w>
3. Samaddar S, Maiti AB, Samaddar SB, Mondal B, Bandyopadhyay SN. Exploring the Art of Medical Photography-an Otolaryngologist's Perspective. The Journal of Laryngology & Otology. 2021 Oct 1:1-31.
4. Attended 49th AOIWBICON 2022 Held at R G Kar Medical College and Hospital.

5. Attended MID AOIWBCON Held at SER Central Hospital, Kolkata, WB.
6. Attended Advanced Workshop and CME on Lateral Skull Base, Cadaver dissection and Live Surgery Organised by IORL & HNS SSKMH. September 2022.

#### **Achievements:**

1. First Runner Up Dr B K Roychoudhury Consultant Award Paper presented at 49th AOIWBCON 2022 Held at R G Kar Medical College and Hospital.
2. Organiser Advanced Workshop and CME on Lateral Skull Base, Cadaver dissection and Live Surgery at IORL & HNS SSKMH. September 2022.

#### **Dr. Amit Bikram Maiti, Assistant Professor**

1. Maiti AB, Dam SP, Samaddar S, Das SK. A retrospective comparative study on the outcome of microscope-assisted technique and supra-auricular approach in preauricular sinus surgery in a Tertiary Care Hospital. Journal of Indian Association of Pediatric Surgeons. 2022 Sep 1;27(5):565.
2. Maiti, A.B., Samaddar, S., Ghosh, S. et al. An Epidemiological Study of Hearing Loss in a Peripheral Tertiary Care Hospital. Indian J Otolaryngol Head Neck Surg (2021).<https://doi.org/10.1007/s12070-021-02934-w>
3. Samaddar S, Maiti AB, Samaddar SB, Mondal B, Bandyopadhyay SN. Exploring the Art of Medical Photography-an Otolaryngologist's Perspective. The Journal of Laryngology & Otology. 2021 Oct 1:1-31.
4. Attended Otology Workshop ReVision2020, at Bangalore 03/06/22-05/06/22.
5. External examiner for UG Exam at Calcutta National Medical College
6. Attended 49th AOIWBCON 2022 Held at R G Kar Medical College and Hospital.
7. Attended MID AOIWBCON Held at SER Central Hospital, Kolkata, WB.
8. Attended Advanced Workshop and CME on Lateral Skull Base, Cadaver dissection and Live Surgery Organised by IORL & HNS SSKMH. September 2022

#### **Dr. Chiranjib Das, Assistant Professor**

1. Received P K Khasnobis Award for best article in BJOHNS in 49th AOIWBCON on 26th March, 2022 at R G Kar Medical College, Kolkata
2. External examiner for MBBS 3rd Professional Part 1 Examination at Midnapore Medical College, Midnapore from 25/04/2022 to 29/04/2022
3. Speaker in Orient ENT Summit on 7th August, 2022 at Taj Vivanta, Kolkata
4. Chairperson in 13th MIDAOICON organized by AOI West Bengal on 20th August, 2022 at BNR Officers Club, Kolkata
5. Attended "Advanced Workshop and CME on Lateral Skull Base - Cadaver Dissection, Live Surgery" organized by Institute of Otorhinolaryngology and Head Neck Surgery, Centre of Excellence, IPGME&R and SSKM Hospital, Kolkata on 24th and 25th September, 2022

### **STUDENT ACTIVITIES**

#### **Ongoing thesis-**

1. Outcome Analysis of Surgical Management of Juvenile Nasopharyngeal ANGIOFIBROMA (Upto Stage II C) Endoscopic Vs Open Approach - A Comparative Study by Tushar Halder
2. PREVALENCE OF HEARING LOSS AND ITS TYPE AMONG PATIENTS OF RHEUMATOID ARTHRITIS by Aneek Chakraborty
3. Prevalence of hearing loss and its type among patients of ankylosing spondylitis by Samiuz Zaman
4. SURGICAL MANAGEMENT OF CHRONIC OTITIS MEDIA WITH CENTRAL PERFORATION: A COMPARATIVE STUDY BETWEEN INTERLAY AND UNDERLAY TYPE 1 TYMPANOPLASTY by Mainak Saha
5. Study of the relation between pre-operative serum calcium & vitamin D3 levels and postoperative hypocalcemia in total thyroidectomy patients by Dr. Tapas Ghosh
6. COMPARATIVE STUDY ON PREOPERATIVE AND POST OPERATIVE TYMANOMETRIC FINDINGS IN PATIENTS HAVING ADENOID HYPERTROPHY by Pooja Goyal
7. A STUDY ON THE CORRELATION BETWEEN PRE-OPERATIVE RADIOLOGICAL FINDINGS AND INTRA-OPERATIVE FINDINGS IN CASES OF CHRONIC OTITIS MEDIA" by Ayasha Shirin
8. Role of High Resolution Computed Tomography of temporal bone in pre operative evaluation of cholesteatoma by Rahul Dey
9. Prevalance of high frequency Sensory neural hearing loss in Type II Diabetes Mellitus - as an early indicator for deafness ,a Cross Sectional observational study By Buddhdeb Maity
10. Correlation between preoperative radiological findings and intraoperative findings of chronic rhinosinusitis by Chandrima Purkait

11. A comparative study of voice outcomes in thyroid surgeries using conventional method of identification versus intraoperative neuromonitoring of the recurrent laryngeal nerve by Srijana Saha
12. Effect of mastoid drilling on Sensorineural hearing of contralateral healthy ear by Kamran Ahmed
13. A comparative study between endoscopic and microscopic facial nerve decompression in post traumatic facial nerve palsy by Akash Mondal
14. Comparative study of endoscopic vs microscopic ossiculoplasty using various graft in COM by Dr Deblina Chatterjee
15. A comparative study of benign VC lesion preoperative and postoperative using Videostroboscopy voice analysis and voice handicap index by Dr. Souvik Maity
16. Comparative study b/w rubella positive and rubella negative patient in term of speech out by Dr. Sabrina parvin

## **DIVISION OF COMMUNICATION SCIENCE AND DISORDERS (AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY UNIT)**

### **Clinician or clinical team members**

<b>Sl. No</b>	<b>Name</b>	<b>Qualification</b>
01.	Md Sahidul Arefin	BASLP (Kol, WBUHS); MASLP (Kol, WBUHS); Fellowship in ASD (GOI, New Delhi); Trained in OPT (Talktools, USA); Trained in PECS (Pyramid Educational Consultants, USA); Trained in pre and post Laryngectomy Rehabilitation; Audiologist and Speech Language Pathologist
02.	Dipanwita Roy	BASLP (Kol, WBUHS); MASLP (Kol, WBUHS); Trained in pre and post Laryngectomy rehabilitation; ACORD Fellowship (Australia); Audiologist and Speech Language Pathologist
03.	Jahidul Khan	BASLP (Kol, WBUHS); MASLP (Kol, WBUHS); Audiologist and Speech Language Pathologist
04.	Goutam Polley	BASLP (CU); MASLP (Kol, WBUHS); Audiologist and Speech Language Pathologist
05.	Sujata Mulia	BASLP (Kol, WBUHS); MASLP (Kol, WBUHS)
06.	Sushmita Biswas	BASLP (Kol, WBUHS); MASLP (Kol, WBUHS)

(BASLP= Bachelor in audiology and speech language pathology; MASLP= Masters in audiology and speech language pathology)

The division of communication sciences and disorders (audiology and speech language pathology) started functioning in new way from 20<sup>th</sup> march, 2020 with an objective to:

- Conduct state-of-the-art basic, translational, and clinical research in the areas of speech, language, hearing, swallowing and balance.
- Offer accessible, culturally competent, evidence-based clinical care for all people with disorders in communication, balance and swallowing.
- Engage in different activities that directly benefit professional colleagues, students, and individuals and their families in the community.
- Promote a welcoming and open environment where all can learn and engage.
- Enhance the core values of the Division of Communication Sciences and Disorders are caring, collaboration, compassion, connectedness, and family.

An estimated 1 in 6 individuals suffer from communication impairment in their lifetime. Audiologist and speech Language Pathologist is an integral part in the multidisciplinary team in assessment, treatment and rehabilitation of person with communication disorders. They identify, prevent, evaluate and treat individuals with communication disorders. Hence we have started different specialty clinic at Institute of Otorhinolaryngology and Head and Neck Surgery (Centre of Excellence).

### **Different clinical activities under communication sciences and disorders:**

#### **Infant Hearing Clinic**

It is important to identify hearing loss as early as possible because babies start learning how to use sound as soon as they are born. Listening in the first months of life prepares babies to speak. These early steps are building blocks for communication. Institute of Otolaryngology and Head & Neck Surgery is realizing the importance of screening in the

first days of a baby's life. As a result, Infant hearing clinic have started and participate in hearing screening programs, such as Universal Newborn Hearing Screening (UNHS).

#### **Diagnostic Audiology Clinic**

Hearing loss is typically a slow insidious process. Many people with hearing loss are unsure of the severity of the problem. Our clinic is designed to perform comprehensive hearing evaluations using state of the art equipment and techniques.

#### **Balance and vestibular Rehabilitation Clinic**

Assessment of the vestibular system includes administration and interpretation of behavioral and electrophysiological tests of equilibrium. Evaluations may incorporate clinical and electrophysiological tests of vestibular and extr vestibular (vision and somatosensory) systems.

#### **Occupational Audiology Clinic**

Employees from occupational hearing conservation programs often do not get the expected and needed type of evaluation, diagnosis or treatment in India. We for the first time in India provide services to both industrial employees and individuals who want to protect and seek services regarding noise induced hearing loss.

#### **Interventional Audiology Clinic**

It focuses on preventing and treating hearing loss before it becomes a barrier to other treatments or leads to other health co-morbidities. Interventional Audiology focuses on detecting and treating medical conditions that may lead to or exacerbate other conditions, with the ultimate goal of promoting a healthier lifestyle.

#### **Cochlear Implant Rehabilitation Clinic**

While the cochlear implant provides access to sound, understanding takes more than just hearing. Intensive individualized habilitation (intervention for patients who has never heard before) and rehabilitation (intervention for patients who are learning to hear again) allows for optimal gains for all recipients. Our rehabilitation team consist of highly trained speech language pathologists. A unique rehabilitative and patient-centered focus allows for collaboration among the recipient, family, speech language pathologist, doctor, audiologist, and other professionals to establish a path to success. Our multi-disciplinary team shares a commitment to providing a complete network of services to help each of our patients use their cochlear implant(s) to achieve their greatest potential.

#### **Paediatric Speech and Language Disorders Clinic**

Speech Language Pathologists have expertise in the assessment, differential diagnosis and treatment of preschool and school aged children presenting with a varied, and often complex, range of speech, language, social-pragmatic and language-literacy issues.

Speech Language Pathologist assess and treat preschool or school aged children presenting with:

- Delayed early language development or "late talkers"
- Unclear speech, articulation delay or dyspraxia
- Comprehension difficulties
- Language delay or disorder
- Pragmatic (conversational) and play/social issues
- Attention and listening difficulties
- Stuttering
- Developmental delay or disorder
- Autism Spectrum Disorder
- Language based learning and literacy issues.
- Cleft Lip and Palate

#### **Adult Neuro-Communication Disorders Clinic**

Acquired neurogenic communication disorders are caused by damage to the central or peripheral nervous system. People with these disorders at one time had normal communication abilities. The difficulties may come suddenly after an acute event or appear gradually as part of a progressive disorder. Some of the causes include stroke, dementia, Parkinson's disease, Lou Gehrig's disease, tumour, and traumatic brain injury. Speech and communication abilities are sensitive indicators of neurological problems and one of first places where neurologic problems are noticeable. We provide services for adult outpatients and inpatients that are experiencing communication difficulties associated with:

- Aphasia
- Apraxia

- Dysarthria

We also provide services for adult outpatients with cognitive-communication disorders resulting from:

- Concussion/Mild Traumatic Brain Injury
- Dementia/Mild Cognitive Impairment
- Right Hemisphere Disorder
- Traumatic Brain Injury

Our services include:

- Comprehensive evaluations of communication and cognition
- Individualized, evidence-based treatment programs
- Patient and family counselling and education
- Consultations and in-service programs
- Group and individual therapy

### **Dysphagia Clinic**

Speech Pathologist helps to assess and manage dysphagia in order to prevent aspiration pneumonia and improve quality of life for people with swallowing difficulties.

The assessment includes:

- Understanding what medical conditions the individual presents with and how they may affect swallowing
- Assessing the strength and movement of the muscles involved in swallowing
- Observing posture, feeding behaviour and swallowing movements during eating and drinking
- If required, perform further assessments to evaluate swallowing, such as
  - Videofluoroscopy (VFS) – an assessment where the swallowing process is viewed on X-ray while the individual eats or drinks food or liquid coated with barium.
  - Flexible endoscopic examination of swallow (FEES) – a flexible scope with a tiny camera is inserted through the nose to observe the swallowing process

### **Voice Clinic**

Our multidisciplinary team includes otolaryngologists, speech-language pathologists and other medical professionals with specializations in care related to disorders of voice, resonance, breathing, swallowing and head and neck cancer. Voice Clinic provides comprehensive and state-of-the-art services for patients of all ages using computerised speech lab (CSL), stroboscope and nasometer.

### **Augmentative and Alternative Communication Clinic**

Augmentative and Alternative Communication (AAC) refers to communication methods that supplement or replace speech or writing. The Augmentative and Alternative Communication Clinic at Institute of Otolaryngology and Head & Neck Surgery provides comprehensive, state-of-the-art evaluation and treatment for children and adults whose speech or expressive language is either severely or profoundly impaired.

## **ARTICLES PUBLISHED, WORKSHOPS & CONFERENCES ATTENDED**

### **Md. Sahidul Arefin**

1. **Arefin Md. S.**, Roy D., Khan J. Autism Spectrum Disorder (ASD): Disorder with Therapeutic Interpretation for Communication. International Journal of Research and Analytical Reviews (IJRAR): Vol. 9, Issue 1, January 2022: 44-51
2. **Arefin Md. S.**, Roy D., Khan J. Hearing Loss in India: Audiological Perspective. International Journal of Advance and Innovative Research: Volume 9, Issue 2(XIX): April-June 2022:150-155
3. **Arefin Md. S.**, Khan J., Roy D. ADHD: Multimodal Intervention with Speech and Language Therapy. Journal of Positive School Psychology 2022: Vol. 6, No. 6, 4977-4983
4. **Arefin Md. S.**, Polley G., Roy D. Telepractice in Speech Language Pathology and Audiology. International Journal of Advance and Innovative Research: Volume 9, Issue 3(I): July-September 2022: 309-315
5. Edited a Book titled: Contemporary Research Explorer  
Publishers- Notion Press, 2022  
ISBN-13:979-8888056264
6. Edited a Book titled: Research in India: Present and Future  
Publishers- Notion Press, 2022  
ISBN-13:979-8888697054

7. Attended structured programme on AVT for Rehabilitation in speech & hearing (Virtual) from April 11 –June 27<sup>th</sup> 2022 conducted by AYJNISHD Mumbai and Cochlear.
8. Attended SHAIWBCON 2022 on 7<sup>th</sup> and 8<sup>th</sup> May at Science city, Kolkata.
9. Conducting member in 3 days (17/10/22, 18/10/22,19/10/22) state level hands on training of Audiologist & Speech Language pathologists” on post Cochlear Implant rehabilitation at IPGMER & SSKM.

#### **Dipanwita Roy**

1. Arefin Md. S., **Roy D.**, Khan J.; Autism Spectrum Disorder (ASD): Disorder with Therapeutic Interpretation for Communication. International Journal of Research and Analytical Reviews (IJRAR): Vol. 9, Issue 1, January 2022: 44-51
2. Arefin Md. S., **Roy D.**, Khan J.; Hearing Loss in India: Audiological Perspective. International Journal of Advance and Innovative Research: Volume 9, Issue 2(XIX): April-June 2022:150-155
3. Arefin Md. S., Khan J., **Roy D.**; ADHD: Multimodal Intervention with Speech and Language Therapy. Journal of Positive School Psychology 2022: Vol. 6, No. 6, 4977-4983
4. Arefin Md. S., Polley G., **Roy D.**; Telepractice in Speech Language Pathology and Audiology. International Journal of Advance and Innovative Research: Volume 9, Issue 3(I): July-September 2022: 309-315
5. Speaker at 4<sup>th</sup> SHAIWBCON organised by SHAIWB at Science City, Kolkata
6. Conducting member in 3 days (17/10/22, 18/10/22,19/10/22) state level hands on training of Audiologist & Speech Language pathologists” on post Cochlear Implant rehabilitation at IPGMER & SSKM.

#### **Jahidul Khan**

1. Arefin Md. S., Roy D., **Khan J.**; Autism Spectrum Disorder (ASD): Disorder with Therapeutic Interpretation for Communication. International Journal of Research and Analytical Reviews (IJRAR): Vol. 9, Issue 1, January 2022: 44-51
2. Arefin Md. S., Roy D., **Khan J.**; Hearing Loss in India: Audiological Perspective. International Journal of Advance and Innovative Research: Volume 9, Issue 2(XIX): April-June 2022:150-155
3. Arefin Md. S., **Khan J.**, Roy D.; ADHD: Multimodal Intervention with Speech and Language Therapy. Journal of Positive School Psychology 2022: Vol. 6, No. 6, 4977-4983
4. Conducting member in 3 days (17/10/22, 18/10/22,19/10/22) state level hands on training of Audiologist & Speech Language pathologists” on post Cochlear Implant rehabilitation at IPGMER & SSKM.
5. Attended SHAIWBCON 2022 on 7<sup>th</sup> and 8<sup>th</sup> May at Science city, Kolkata.

#### **Gotam Polley**

1. Arefin Md. S., **Polley G.**, Roy D.; Telepractice in Speech Language Pathology and Audiology. International Journal of Advance and Innovative Research: Volume 9, Issue 3(I): July-September 2022: 309-315
2. Conducting member in 3 days (17/10/22, 18/10/22,19/10/22) state level hands on training of Audiologist & Speech Language pathologists” on post Cochlear Implant rehabilitation at IPGMER & SSKM.

#### **Sujata Mulia**

1. A Comparative Study among Trained Hindustani Classical Singers, Untrained Singers and Non-singers through Cepstral Analysis” in International Journal of Phonosurgery & Laryngology, Volume 12 Issue 1 (January-June 2022)
2. Attended structured programme on AVT for Rehabilitations in speech & hearing (Virtual) from April 11 –June 27<sup>th</sup> 2022 conducted by AYJNISHD Mumbai and Cochlear.
3. Attended SHAIWBCON 2022 on 7<sup>th</sup> and 8<sup>th</sup> May at Science City, Kolkata.
4. Conducting member in 3 days (17/10/22, 18/10/22,19/10/22) state level hands on training of Audiologist & Speech Language pathologists” on post Cochlear Implant rehabilitation at IPGMER & SSKM.

#### **Sushmita Biswas**

1. Conducting member in 3 days (17/10/22, 18/10/22,19/10/22) state level hands on training of Audiologist & Speech Language pathologists” on post Cochlear Implant rehabilitation at IPGMER & SSKM.
2. Attended SHAIWBCON 2022 on 7<sup>th</sup> and 8<sup>th</sup> May at Science City, Kolkata.

### **Clinical Services Summery of division of Communication Sciences and Disorders (Audiology and Speech Language Pathology): December 2021 to November 2022**

#### **Number of Audiological Assessment Done:**

<b>PTA*</b>	<b>IA*</b>	<b>OAE &amp; Sc. BERA</b>	<b>Diag* BERA</b>	<b>ENG*</b>	<b>Special Test*</b>	<b>HA Counselling</b>	<b>CI Mapping</b>	<b>NRT</b>	<b>TRT</b>	<b>VRT</b>	<b>Total</b>
<b>6617</b>	<b>5603</b>	<b>9722</b>	<b>2570</b>	<b>478</b>	<b>131</b>	<b>10333</b>	<b>382</b>	<b>42</b>	<b>71</b>	<b>183</b>	<b>36132</b>

(PTA= Pure tone Audiometry; IA= Impedance Audiometry including Reflexometry; OAE= Otoacoustic Emission; HA= Hearing Aid; CI= Cochlear Implant TRT= Tinnitus Retraining Therapy; VRT= Vestibular Rehabilitation Therapy; NRT= Neural Response Telemetry) \*Under PPP unit

#### Number of Speech, Language and Swallowing Assessment Done:

CCD	Vo.D	ANCD	Flu.D	Swa.D (B)	Swa.D (Cl.)	MBS	Art. D	AVT Asst	FEES	Strobos -copy	Total
4322	2291	907	563	26	1312	00	491	213	318	1362	11805

(CCD= Childhood Communication Disorders; VD= Voice Disorders; ANCD= Adult Neuro Communication Disorders; Vo.D= Voice Disorders; Flu.D= Fluency Disorders; Swa. D (B) =Swallowing Disorders (Bedside); Swa. D (Cl.) =Swallowing Disorders (Clinical); MBS= Modified Barium Swallow; Art.D= Articulation Disorders; FEES= Flexible Endoscopic Evaluation of Swallowing; AVT= Auditory Verbal Therapy)

#### Number of Speech, Language and Swallowing Intervention Done

CCD	Vo.D	ANCD	Flu.D	Swallowing Disorders (Bedside)	Swallowing Disorders (Clinical)	Modified Barium Swallow	Articulation Disorders	AVT	Total
6123	3067	1211	901	51	1302	00	381	3805	16841

**Total Services under communication sciences and disorders (From 01-12-2021 to 30-11-2022):**  
**36132+11805+16841 = 64778**

#### Psychometry Done

**Clinical Psychologist:** Satanjaya Bhattacharya; M.Phil (RCI); Research Scholar (CU)

Month	Number
February, 2022	06
March, 2022	19
April, 2022	14
May, 2022	23
June, 2022	19
July, 2022	26
August, 2022	16
September, 2022	18
October, 2022	11
November, 2022	32

#### LIST OF ADVANCED SURGICAL INSTRUMENTS IN ENT MAIN OT

- CO<sub>2</sub> laser with fibreoptic carrier and micromanipulator
- Navigation system
- Intra-operative Nerve Monitoring System
- Skeeter drill
- PENTEX advanced microscope
- Microdebrider
- Coblation device
- Harmonic scalpel
- Microdrill set with micromotor and burr set

#### LIST OF INSTRUMENTS IN OPD COMPLEX & DIAGNOSTICS

- Audiovestibular laboratory equipped with Audiometer, Tympanometer, ENG, BERA, OAE machine
  - Fiberoptic laryngoscopy/ nasopharyngoscopy with monitor in minor OT complex attached to ENT OPD
  - Flexible fibre-optic Bronchoscopy
  - Diagnostic and operative ENT microscope
  - Videostroboscopy
  - Flexible Endoscopic Evaluation of Swallowing (FEES) System
-