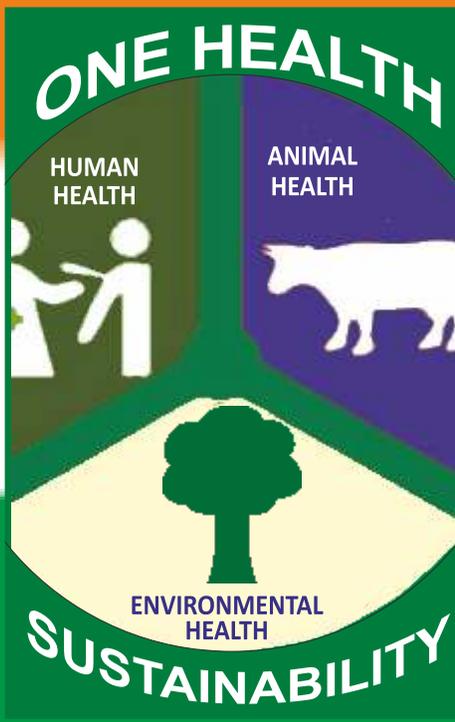




संघीय सरकार
Government of India

ANNUAL REPORT 2023



All India Institute of Hygiene & Public Health, Kolkata

Ministry of Health & Family Welfare
Government of India

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प्रो.(डॉ.) अतुल गोयल

Prof. (Dr.) ATUL GOEL
MD (Med.)

स्वास्थ्य सेवा महानिदेशक
DIRECTOR GENERAL OF HEALTH SERVICES



सत्यमेव जयते

भारत सरकार
स्वास्थ्य एवं परिवार कल्याण मंत्रालय
स्वास्थ्य सेवा महानिदेशालय
Government of India
Ministry of Health & Family Welfare
Directorate General of Health Services



संदेश

यह जानकर काफी प्रसन्नता हुई कि अखिल भारतीय स्वास्थ्य विज्ञान एवं जन स्वास्थ्य संस्थान, कोलकाता 3 जनवरी 2024 को "कृत्रिम मेधा के सहयोग से जन स्वास्थ्य सशक्तिकरण: आने वाले कल के लिए एक दृष्टिकोण" विषय के साथ अपना 92वां स्थापना दिवस मना रहा है।

जन स्वास्थ्य के क्षेत्र में कृत्रिम मेधा (एआई) के उपयोग को लेकर काफी समय से चर्चा चल रही है। किसी भी अन्य उभरती तकनीक की तरह जन स्वास्थ्य के क्षेत्र में नैतिकता को बनाए रखते हुये कृत्रिम मेधा लागू होने पर फायदे और नुकसान दोनों ही हो सकते हैं। हालाँकि भारत जैसे विकासशील देश, जहाँ जन स्वास्थ्य प्रणाली पहले से ही आबादी की भारी बोझ से दबी हुई है, कृत्रिम मेधा से नुकसान की अपेक्षा फायदे ज्यादा होंगे। यह अधिक स्वचालित होगा और उपलब्ध संसाधनों का अधिक कुशल तरीके से उपयोग होगा। जन स्वास्थ्य कृत्रिम मेधा संचालित प्रौद्योगिकियों में रिपोर्टिंग प्रणालियों को उन्नत करके जन स्वास्थ्य निगरानी में क्रांति लाने की क्षमता रखता है।

अखिल भारतीय स्वास्थ्य विज्ञान एवं जन स्वास्थ्य संस्थान, जन स्वास्थ्य संबंधी समस्याओं का समाधान निकालने में अपने गौरवशाली इतिहास के साथ जन स्वास्थ्य के क्षेत्र में कृत्रिम मेधा को आगे लाने में अग्रणी बन सकता है।

इस अवसर पर, मैं संस्थान से जुड़े संकाय सदस्यों, कर्मचारियों, छात्रों और अन्य विशेषज्ञों को अपनी शुभकामनाएं देता हूँ।

अतुल गोयल

(अतुल गोयल)

प्रो० (डॉ०) रंजन दास
निदेशक

Prof. (Dr.) Ranjan Das
MBBS, MD, C Epid, PGC HFWM, PGC HM
Director



सत्यमेव जयते

भारत सरकार

Government of India

अखिल भारतीय स्वास्थ्य विज्ञान और जन स्वास्थ्य संस्थान

All India Institute of Hygiene & Public Health

110, चित्तरंजन एवेन्यु, कोलकाता - 700 073

110, Chittaranjan Avenue, Kolkata - 700 073

Land : 033-2241-3954, Fax : 033 2241-8717

Mob. : 9311188920

E-mail : director.aiihph@gov.in

E-mail : ranjandas1986@gmail.com



संदेश

अखिल भारतीय स्वास्थ्य विज्ञान एवं जन स्वास्थ्य संस्थान, कोलकाता को उसके 92वें स्थापना दिवस पर जन स्वास्थ्य शिक्षा, प्रशिक्षण और अनुसंधान में उत्कृष्टता के एक उल्लेखनीय वैश्विक केंद्र के रूप में समर्पित करना मेरे लिए सौभाग्य की बात है। इसके लिए महत्वपूर्ण कदमों में से एक पहल स्वास्थ्य एवं परिवार कल्याण मंत्रालय, भारत सरकार के नौ विशेष जन स्वास्थ्य संगठनों-ROHFW, PHO, APHO, RLTRI, GMSD, IoS, FSSAI आदि के साथ सहयोग करके विशेषीकृत क्षेत्रों में जन स्वास्थ्य कौशल को बढ़ाने के लिए स्नातकोत्तर प्रशिक्षण कार्यक्रम को पुनर्जीवित करना शामिल है, जिसमें हमारे माननीय प्रधान मंत्री की कल्पना के अनुसार गाँव को गोद लेना भी शामिल है।

यह बताते हुए खुशी हो रही है कि अखिल भारतीय स्वास्थ्य विज्ञान एवं जन स्वास्थ्य संस्थान ने इस वर्ष भी अनुसंधान के क्षेत्र में 54 शोध पत्र प्रकाशित करके अपना महत्वपूर्ण योगदान दिया है, जबकि 12 स्नातकोत्तर छात्रों ने राष्ट्रीय/राज्य स्तर पर पुरस्कार जीते हैं। शिक्षण और अनुसंधान को और भी आगे ले जाने के लिए, अखिल भारतीय स्वास्थ्य विज्ञान एवं जन स्वास्थ्य संस्थान, संकाय, छात्र और कर्मचारियों के आदान-प्रदान कार्यक्रमों को सुविधाजनक बनाने और विभिन्न विशेषज्ञताओं/संवर्गों के लिए नए जन स्वास्थ्य पाठ्यक्रम विकसित करने के लिए न्यू साउथ वेल्स विश्वविद्यालय (UNSW), ऑस्ट्रेलिया के साथ सहयोग कर रहा है। रूपान्तरण प्रक्रिया के रूप में, अखिल भारतीय स्वास्थ्य विज्ञान एवं जन स्वास्थ्य संस्थान ने अपने दृष्टिकोण, मिशन, लक्ष्यों और उद्देश्यों को भी संशोधित किया है और उन्हें प्राप्त करने के लिए लंबे समय से रिक्त पड़े 164 पदों को भरा गया है, इस प्रकार हमारे माननीय प्रधान मंत्री के युवा पीढ़ी को रोजगार के अवसर प्रदान करने के दृष्टिकोण को पूरा किया जा सका है।

आधुनिक अखिल भारतीय स्वास्थ्य विज्ञान एवं जन स्वास्थ्य संस्थान का मानना है कि वर्तमान और भविष्य की जन स्वास्थ्य संबंधी चुनौतियों से निपटने के प्रयासों के लिए कृत्रिम मेधा (AI) और एक स्वास्थ्य की अवधारणा पर अधिक निर्भर रहना होगा, और इसलिए हमने इन दो नए विभागों की स्थापना की प्रक्रिया शुरू कर दी है। जन स्वास्थ्य में कृत्रिम मेधा (AI) की भूमिका को समझते हुए, स्थापना दिवस समारोह के लिए अखिल भारतीय स्वास्थ्य विज्ञान एवं जन स्वास्थ्य संस्थान की वैज्ञानिक समिति ने इस वर्ष का विषय " कृत्रिम मेधा के साथ जन स्वास्थ्य को सशक्त बनाना: आने वाले कल के लिए एक दृष्टिकोण" रखने का निर्णय लिया। मुझे

विश्वास है कि कृत्रिम मेधा (AI) पर प्रख्यात विशेषज्ञों के विचार-विमर्श हमें एक लचीली, न्यायसंगत और भविष्य के लिए तैयार जन स्वास्थ्य प्रणाली के निर्माण के लिए एवं इसकी क्षमता का दोहन करने के लिए रास्ते दिखा सकता है।

पिछले वर्ष कई नई बुनियादी ढांचा परियोजनाओं की शुरुआत की गई, जिनमें एनसीडीसी पश्चिम बंगाल की राज्य शाखा, मेट्रोपॉलिटन सर्विलांस यूनिट (MSU) -कोलकाता, स्वास्थ्य देखभाल वितरण के लिए ड्रोन टेक्नोलॉजी और व्यावसायिक स्वास्थ्य विभाग की प्रयोगशाला का उन्नयन शामिल हैं। प्रशिक्षण, जो इस संस्थान की प्राथमिक जिम्मेदारियों में से एक है, के क्षेत्र में हमने जन स्वास्थ्य आपातकालीन प्रबंधन(PHEM), माँ के पूर्ण स्नेह(MAA), एकीकृत रोग निगरानी परियोजना(IDSP)और व्यावसायिक स्वास्थ्य(OH) के लिए राष्ट्रीय स्तर के प्रशिक्षण में उत्कृष्ट प्रदर्शन किया। आने वाले वर्ष में पांच नए पाठ्यक्रमों - एसोसिएट फेलो ऑफ इंडस्ट्रियल हाइजीन (AFIH) , नॉन-मेडिकल मास्टर ऑफ पब्लिक हेल्थ (MPH), बैचलर ऑफ पब्लिक हेल्थ (BPH), ऑर्गन डोनेशन कोऑर्डिनेटर (ODC), और MBBS चिकित्सा अधिकारियों के लिए पब्लिक हेल्थ सर्टिफिकेट कोर्स (CCPH) का प्रस्ताव किया गया है। संस्थान ने यह भी योजना बनाई है कि जनवरी 2024 से ऑनलाइन प्लेटफॉर्म के माध्यम से प्रशिक्षण प्रदान किया जाएगा, जिसके लिए एक MOU ECHO-INDIA के साथ हस्ताक्षरित किया गया है। संस्थान द्वारा, IGOT Platform पर भारत सरकार के विभिन्न कर्मचारियों के लिए तीन पाठ्यक्रम भी शुरू किया जा चुका है और बाद में और भी पाठ्यक्रम जोड़े जाएंगे।

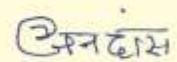
शिक्षा में हमारी उच्च प्रदर्शन के साथ-साथ, इस संस्थान ने आजादी का अमृत महोत्सव (AKM 2023) के तहत सामाजिक सेवा कार्यक्रमों को भी आयोजित किया है, जिसमें रक्तदान शिविर, विश्व पर्यावरण दिवस, विश्व स्वास्थ्य दिवस, और अंतरराष्ट्रीय योग दिवस शामिल हैं।

इस संस्थान के प्रमुख के रूप में मुझे यह बताते हुए बहुत खुशी हो रही है कि उपरोक्त सभी उपलब्धियाँ संकाय सदस्यों, कर्मचारियों, छात्रों और हमारे सहयोगी संस्थानों की पहल, कड़ी मेहनत और अटूट समर्थन से ही संभव हो पाई हैं। लेकिन इससे भी अधिक श्रेय हमारे उच्च अधिकारियों, विशेष रूप से माननीय केंद्रीय स्वास्थ्य मंत्री डॉ मनसुख मांडविया जी, सचिव (स्वास्थ्य और परिवार कल्याण) श्री सुधांशु पंत जी और हमारे मार्गदर्शक डीजीएचएस, प्रोफेसर (डॉ.) अतुल गोयल जी का है जिनका हम सभी आभार व्यक्त करते हैं और उनके निरंतर आशीर्वाद और समर्थन की अपेक्षा करते हैं।

अंत में, मैं ईश्वर से प्रार्थना करता हूँ कि वह हमें इस संस्थान को जन स्वास्थ्य शिक्षण, प्रशिक्षण और अनुसंधान के संबंध में राष्ट्रीय और अंतरराष्ट्रीय स्तर पर अधिक से अधिक ऊंचाइयाँ हासिल करने में हम सभी को साहस, प्रेरणा और समर्पण प्रदान करें।

अखिल भारतीय स्वास्थ्य विज्ञान एवं जन स्वास्थ्य संस्थान शाश्वत रहें!

जय हिन्द!



(रंजन दास)

OUR VISION, MISSION, VALUES, AND GOALS

Vision

- To be one of the Centre of excellence globally and the best Institution in the country with respect to Public Health Education, Training & Research.

Mission

- i. To develop competent workforce for all Public Health Specializations /Cadres in adequate numbers in collaboration with other Public Health Institutions.
- ii. To develop Model Centres & Laboratories (incl. State Branch of NCDC, WB & Metropolitan Surveillance Unit- Kolkata) for surveillance, combating, and controlling Epidemic Prone diseases in Rapid Response Mode.
- iii. To deliver PH services in our field practice areas (RHU&TC, Singer & UHU&TC, Chetla) including for Priority Tropical Diseases (PTDs) through Upgrading RLTRI (National PTD Center) Gouripur.
- iv. To develop & strengthen Collaboration and Networking including MOUs at National & International levels for specialized PH curriculum, courses and services including with Foreign Universities and agencies of the Dte. G.H.S.of MOHFW, Govt. of India viz. NCDC, PoEs, RLTRI, ROHFW, GMSD, Institute of Serology, FSAAI etc.
- v. To support Research, Innovations, Evolve Best Practices & Provide Expert Technical Advice & Leadership to States/ UTs & Program Divisions of MoHFW, Govt. in various fields of PH including Drone Technology, One Health, Occupational Health, Artificial Intelligence, M&E etc.
- vi. Handholding of Low- & Middle-Income Countries to support them for creating specialized PH workforce including for Nursing & Allied health cadres
- vii. Develop Consortium of Central PH Training institutions & "Deemed PH University"

Value

- To strive for excellence, innovation, leadership, global perspective, collaboration, integrity and ethics, and community engagement in the field of public health.
 - **Excellence:** Commitment to achieving the highest standards in education, research, and service delivery in the field of Public Health.
 - **Collaboration:** Foster partnerships and collaborations with national and international institutions, agencies, and stakeholders to enhance the quality and reach of public health initiatives.
 - **Innovation:** Embrace innovation, technological advancements, and best practices to address emerging challenges in public health effectively.

- **Leadership:** Provide visionary leadership in the domain of public health education, training, research, and service delivery.
- **Global Perspective:** Encourage a global outlook, promoting diversity, inclusivity, and learning from diverse cultural and regional perspectives.
- **Integrity and Ethics:** Uphold the highest standards of integrity, ethics, and professionalism in all endeavours.
- **Community Engagement:** Engage actively with local communities and stakeholders to address their health needs and concerns effectively.

Goals

- **Developing Competent Workforce:** Produce a skilled and competent workforce in various public health specializations through quality education, training, and collaboration with other institutions.
- **Establish Model Centres & Laboratories:** Create and operate model centers and laboratories for surveillance, rapid response, and control of epidemic-prone diseases, including collaboration with institutions like the National Centre for Disease Control (NCDC) and Metropolitan Surveillance Units.
- **Delivering Public Health Services:** Provide comprehensive public health services in designated field practice areas, prioritizing the management of Priority Tropical Diseases (PTDs) and upgrading facilities like the National Priority Tropical Diseases Centre.
- **Enhancing Collaborations and Networking:** Develop and strengthen collaborations and partnerships at national and international levels through Memoranda of Understanding (MOUs) with various institutions, universities, and agencies to enrich specialized public health curriculum, courses, and services.
- **Supporting Research, Innovation and Best Practices:** Encourage research, innovation, and the development of best practices in public health. Provide expert technical advice and leadership to governmental bodies in diverse fields such as Drone Technology, One Health, Artificial Intelligence, Monitoring & Evaluation, etc.
- **Global Outreach and Support:** Extend support to Low- and Middle-Income Countries in building specialized public health workforce capacity, including nursing and allied health cadres.
- **Formation of a Consortium of Training Institutions:** Establish a consortium of central public health training institutions and advocate for the recognition of a "Deemed Public Health University" to further elevate the standards and reach of public health education and training nationally.

By aligning actions with these values and working towards these goals, the institute can effectively strive toward becoming a **globally recognized centre of excellence in public health education, training, and research.**

ALL INDIA INSTITUTE OF HYGIENE & PUBLIC HEALTH

AN OVERVIEW

Introduction

All India Institute of Hygiene & Public Health (AIHPH), established on 30th December 1932 with generous assistance from the Rockefeller Foundation as a first school of Public Health in South-East Asia region. It has been a Pioneer Institute of its kind dedicated to teaching, training, and research in various disciplines of Public Health and allied sciences to ensure capacity building in the area of Public Health. The teaching, training, and research at AIHPH have the unique support of its field centres, namely, Urban Health Unit and Training Centre, Chetla and Rural Health Unit & Training Centre, Singur.

The wider canvas available to the Institute has been signified by the diverse disciplines such as Biochemistry and Nutrition, Epidemiology, Health Promotion and Education, Maternal and Child Health, Microbiology, Occupational Health, Public Health Administration, Public Health Nursing, Environmental Sanitation and Sanitary Engineering, Preventive and Social Medicine, Behavioural Sciences, and Statistics operate here.

The department-wise list of regular courses offered by the Institute indicates that the Institute has been following a holistic approach to the issue of Public Health.

Courses

Sl. No.	Nodal Department*	Name of the Course(s)
1.	Biochemistry & Nutrition	M.Sc. in Applied Nutrition. Diploma in Dietetics.
2.	Environmental Sanitation and Sanitary Engineering	Master of Engineering (Public Health).
3.	Epidemiology	Master in Public Health (Epidemiology). Post Graduate Diploma in Public Health Management.
4.	Health Promotion & Education	Diploma in Health Promotion & Education. M Sc in Public Health (Health Promotion)
5.	Maternal and Child Health	Diploma in Maternity & Child Welfare* M Sc in Public Health (Maternal & Child Health)
6.	Microbiology	Master of Veterinary Public Health.
7.	Occupational Health	Diploma in Industrial Health*

Sl. No.	Nodal Department*	Name of the Course(s)
8.	Preventive and Social Medicine	MD (Community Medicine).
9.	Public Health Nursing	DNEA (CH) Course was stopped in 2013 following instruction of INC as per INC Resolution.
10.	Public Health Administration	PGDPHM (Post Graduate Diploma in Public Health Management)
11.	Statistics	Diploma in Health Statistics.
* In the current session no student has been admitted for Diploma in Industrial Health, and Diploma in Maternity & Child Welfare courses because the MCI has not declared the number of seats for the said courses.		
Other departments also contribute significantly in conducting the courses.		

The courses are affiliated to the West Bengal University of Health Sciences, Kolkata for all the courses except Master of Veterinary Public Health which is affiliated to University of Calcutta. Among the above courses, MD (Community Medicine) and the three-year MPH (Epidemiology) Course are recognised by NMC.

Other Activities

- The Institute has been running a number of Short Courses / Training Programmes for different categories of Health Personnel on a regular basis in coordination with State Governments/ Central Ministries/ International agencies / etc.
- The Institute has been providing primary health care through its field units at Singur and Chetla to its service areas and these field units have been making significant contributions in providing windows to the students of the Institute and other institutions for their field experience in the public health practices.
- Apart from assuring the nation on the availability of competent Human Resource on Public Health, and undertaking research to find solutions to the Public Health Challenges, the Institute has undertaken several notable initiatives in collaboration with national and international institutions to promote Public Health. It regularly undertakes various activities including public health interventions, especially through its field units to promote Public Health.
- The Institute is also assigning priority to Drinking Water and as such it has been taking initiatives to propagate the importance of safe drinking water. To facilitate the supply of safe drinking water, it provides a water testing facility at its B.N. Campus for one and all.
- In case of national disaster, the Institute deposes resource persons for Emergency Medical Response (EMR) duty on a regular basis.
- As a pre-condition, people travelling from India to yellow fever-endemic areas need the Yellow Fever Vaccination before issue of VISA. All India Institute of Hygiene and Public Health functions as one of the three centres of Yellow Fever Vaccination in Kolkata. On the average, every month, more than hundred people obtain vaccination from the centre.

Infrastructure

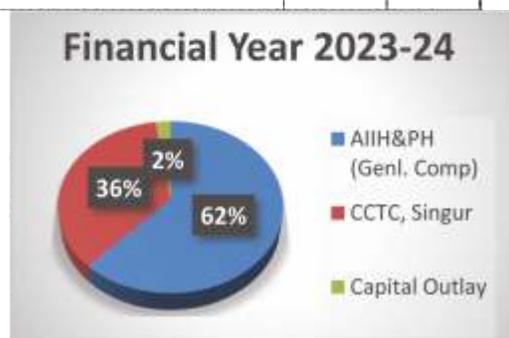
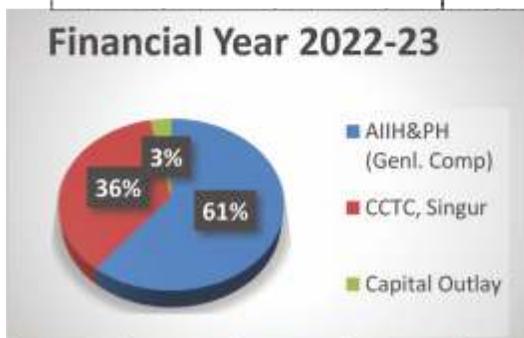
- The Institute operates its academic and administrative activities from the main building at 110 Chittaranjan Avenue, Kolkata 700073 and the second campus at JC 27 and JC 27 B, Sector III, Salt Lake. It has a Rural Health Unit and Training Centre at Singur, Hoogly, West Bengal and Urban Health Unit and Training Centre at Chetla, Kolkata, West Bengal. The Institute has staff quarters at both the places, Kolkata and Singur. Moreover, it has Hostel Facilities for students in Kolkata (Near Main Campus as well as in Second Campus) and Singur. In addition, we have Guest House Facilities near main campus as well as in the second campus.
- The RHU&TC, Singur has two Primary Health Centres, one at Diarah and another at Anandnagar and each of them has sub-centres. In addition to the sub-centres, the Primary Health Centres have other functional units which may be considered as sub-centres without fixed structure.
- The Institute has well equipped laboratories, library, computer lab, classrooms, auditorium, and conference rooms. It has adequate LAN and Internet facilities with NKN connectivity and intercom facilities.

Library

- All India Institute of Hygiene & Public Health has one of the premier reference libraries on public health sciences. The library has been identified as the Regional Medical Library in the Eastern Region by D.G.H.S, and Ministry of Health & Family Welfare and ERMED facility. It has sufficient resources for the users.

General Budget

Budget at a Glance (Rs. in Crore)					
Classification	FY		Classification	FY	
	2022-23			2023-24	
AIIH&PH (Genl. Comp)	42.07	61%	AIIH&PH (Gen. Comp)	43.15	62%
CCTC, Singur	24.98	36%	CCTC, Singur	24.84	36%
Capital Outlay	2.30	3%	Capital Outlay	1.64	2%
Total	69.35		Total	69.63	



Manpower

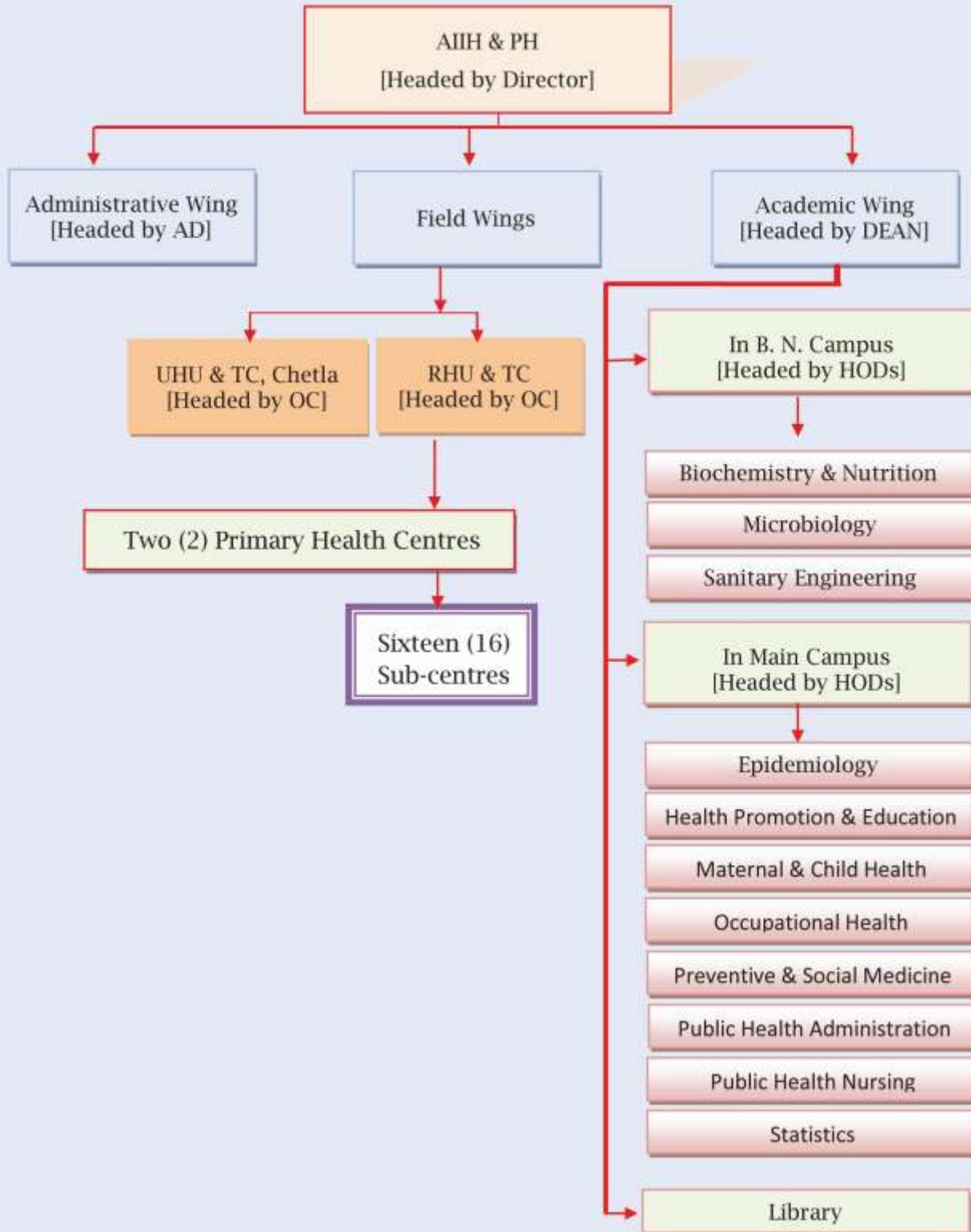
Cadre-Wise /Category-Wise Human Resources of AIIH&PH				
Sl. No.	Cadre / Category	No. of Posts		
		Sanctioned	In position	Vacant*
Group-A				
1.	Director	1	1	0
2.	CHS (Teaching Specialists)	22	14	8
3.	CHS (Non-Teaching Specialists)	1	0	1
4.	CHS (Public Health Specialists)	7	5	2
5.	CHS (General Duty Medical Officers)	30	25	5
6.	Teaching (Non-Medical)	20	0	20
7.	ISS	3	3	0
8.	Assistant Director (Official Language)	1	1	0
	Total (Group - A)	85	49	36
Group - B				
9.	Gazetted	13	4	9
10.	Non-Gazetted	16	0	16
	Total (Group - B)	29	4	25
Group - C				
11.	MTS	229	157	72
12.	Canteen Staff	14	2	12
13.	Other Group - C	306	170	136
	Total (Group - C)	549	329	220
	Grand Total	663	382	281

* As on 22.12.2023

Human Resource Development

Human Resource Development assumes added significance in the strengthening of the Institute. Apart from internal training arranged by different departments, officials are also deputed to standard institutions/organisations/agencies for attending Trainings/Workshops/Seminars etc. Department-wise/Unit-wise reports given in the report of the departments/units provide further details on the issue.

Organization Chart



IMPORTANT ACTIVITIES AND ACHIEVEMENTS INCLUDING NEW INITIATIVES

All India Institute of Hygiene & Public Health (AIH&PH), Kolkata, was established in 1932 as Southeast Asia's first public health teaching, training, and research institute with support from the Rockefeller Foundation, U.S.A. under the inspiration of Swami Vivekananda.

The Institute subsequently developed as a premier and unique Public Health (PH) Institution of the Government of India and contributed key public health innovations viz.: (i) the Primary Health Care set up, suggested by Sir Joseph Bhore (Outreach, Subcentre, P.H.C., including its staffing), which is followed in India and globally, even today; (ii) Arsenic Treatment Plant by the S.E. Dept. (iii) First Blood Bank in India by P.H.A. Dept. jointly with Bengal Red Cross; (iv) Bore Whole Latrines by the S.E. Dept. , the precursor of Modern Sulabh Souchalay.

This Institution was also associated directly or indirectly with many other Public Health achievements, mainly, (i) Mahalanabish Theory (ii) the Use of O.R.S. Therapy (iii) Health and Nutritional Status of the Jarwa Tribes of the Andaman and Nicobar Islands, besides many other collaborations with WHO, Unicef, ILO etc. The Department of Sanitary Engineering and the Department of Occupational Health has contributed immensely on International and National Level.

The Institution has also, recently, revised its Vision and Mission.

- **Existing departments, Field Practice Areas & Associated Public Health Units:** The Institute has eleven (11) existing departments, two (02) field practice areas (1 urban & 1 rural), eight (8) public health units of DGHS of MOHFW, GOI associated with AIHHPH, through academic training, research and service delivery (PGT rotational posting w.e.f. 01/08/2023, as approved by the DGHS / Secretary Health). In addition, two (02) new departments are being proposed, viz. One Health & Artificial Intelligence, jointly with NCDC. This will take the total number of public health departments/units affiliated to AIHHPH to twenty-five (25),
- **New Infrastructure under creation:** (i) State Branch of NCDC WB- All arrangements have been made and physical work has been started by CPWD Kolkata to establish the State branch of NCDC WB at BN Campus of AIH&PH Kolkata by December 2023. The state branch as additional sanctioned man power consisting of microbiologist, public health specialists, lab technicians & other cadre of workers totalling up to approximately 22 In numbers and this will be a centrally sponsored scheme. As of now, Director AIH&PH has been given additional responsibility of State NCDC Officer. (ii) Drone Technology for Healthcare Delivery: The institution has been enlisted as one of the 25 prestigious national institutions for procurement and utilisation of Drone Technology for Healthcare Delivery. Process is on for procurement, training and implementation of the same under a committee chaired by

OC RHUTC, Singur with Dr. Rivu Basu, Assistant Professor PSM Department as nodal officer and Dr. Hari Krishna as assistant nodal officer. Two frontline health workers have also been identified for drone operation training and one lab technician and one pharmacist are also kept in the drone technology implementation team functioning of which is likely to begin in January 2024. (iii) Laboratory of Occupational Health Department: The department of occupational health (OH) has recently got the permission for starting 3-month AFIH course for MBBS doctors for joining as Factory Medical Officers. The laboratory of department has been and renovated.

- **Existing Courses:** AIHPH runs eleven (11) regular courses and approximately twenty-eight (28) short training programs, which keeps on varying year to year. The two NMC recognised flagship programs are 1) MD (Community Medicine) (20/yr) 2) MD (MPH Epidemiology) (07 /yr). Besides NMC course the institution also has 35 seats for its 1 year Post Graduate Diploma in Public Health Management (PGDPHM), sponsored by National Health Mission of Govt. of India. Dept. of Biochemistry & Nutrition runs two courses - 2 yr M.Sc. in Applied Nutrition (20/yr) & 1 yr Diploma & Dietetics (31/yr). Dept. of HPE runs diploma in HPE program with 46 intake/yr. Dept. of Microbiology course runs a prestigious 2yr course of MVPH with 15 intake/yr, one alumni of which was conferred the prestigious Padmashree Award. Dept. of Statistics runs a diploma in Health Statistics with 8 intake/yr & Dept. of SE also runs a skill based Sanitary Inspector course of 9 month duration (20 intake/yr)
- **Two new courses launched:** The two new courses which were sanctioned last year started intake of M.Sc. in Public Health (Health Promotion) and M.Sc. Public Health (Maternal and Child Health) for 02 years duration by AIHPH, this year with intake strength of 10 for each course.
- **Five New Proposed Courses:** (i) Associate Fellow of Industrial Hygiene (AFIH) course – the three (03) months course for M.B.B.S. Doctors, has been allowed to be started from 2024 in collaboration with Ministry of Labour with 25 intake capacity. (ii) The institution has also proposed 2 years MPH Course for Medical and Non-Medical background students with intake of 10 seats per year (iii) The institution is also about to propose jointly with PGI, Chandigarh a 3 years Bachelor of Public Health (BPH) course with intake of 30/year which together with the non-medical MPH course may serve as the feeder cadre for Community Health Officer (CHO), who are in great need at this juncture across the country. (iv) 6 months Organ Donation Co-ordinator course, with 10 intake/course in collaboration with NOTTO of DGHS/NITI AYOOG, New Delhi & IPGME&R, Kolkata. (v) 6 weeks Certificate Course in Public Health for MBBS MOs, freshly inducted into the Central/ State/ UTs.
- **Short term Training Courses:** (i) Two rounds of Public Health Emergencies Management (PHEM) training for Senior District Level Officers (CMO/ Deputy

CMO) & Senior Hospital Administrators (MS/ DMS/ AMS of Govt. Hospitals) supported by Disaster Management Cell, MoHFW is being successfully conducted by AIIHPH. Seven (07) Eastern/North-Eastern States have been assigned to AIIHPH till 2026. PSM Dept. is the nodal department for this activity. (ii) Three rounds of Mother's Absolute Affection (MAA) TOT training for 7 States have been held successfully in joint collaboration with UNICEF India. MCH Dept. is the nodal department for this activity. (iii) Two batches of Integrated Disease Surveillance Project (IDSP) and Integrated Health Information Portal (IHIP) Training have been successfully conducted by this institution this year, jointly with NCDC, New Delhi. Epidemiology Dept. is the nodal department for this activity. (iv) Dept. of Occupational Health has organized over half a dozen trainings of various duration for workers belonging to the organized and unorganized sectors. (v) UHU & TC Chetla and RHU & TC Singur with Dept. of Public Health Nursing has organized nearly a dozen training programs of various duration from Undergraduates as well as Postgraduates Nursing Cadres from various Universities and States including the Indian Army. (vi) Dept. of HPE, Microbiology, Biochemistry & Nutrition, Statistics & SE have also conducted many short-term training programs, which is commendable.

- **Newer PGT Training Initiatives:** (i) Rotatory PGT Posting: AIIHPH took a unique initiative by posting its Junior Residents to eight (08) sister public health institutions falling under the purview of Dte.GHS, MOHFW, Govt. of India, for a period of one month approximately at a stretch on full time basis w.e.f. 1st of August 2023 after approval of competent authorities. Nodal Officers for each training institution shall shortly be identified and the training curriculum and log book shall also be finalized in due course, along with the commencement of operational research in these institutions. (ii) Village Adoption Program has been launched by PSM department in line with the vision of hon'ble PM and all efforts are being made to provide essential services and plug the gaps found therein while also aiming to prepare a community empowerment programme for the village Khosalpur under Singur block of Hooghly district. (iii) District Residency Program has entered its 2nd yr. in collaboration with the Government of West Bengal & 18 Junior Residents from the Department of PSM and 3 from the Department of Epidemiology participated in it. Short term research papers as well as programme monitoring and evaluation was carried out in some instances, jointly by the District/ State health authorities and the academic in-charges of AIIH&PH.
- **Other activity** (i) Azadi Ka Amrit Mahotsav (AKAM) 2023: Five (05) new initiatives for societal as well as staff/PGT/ faculty benefit were undertaken by AIIHPH under inspiration of our Hon'ble PM and Hon'ble HFM. Our institution hosted the World Environment Day at UHUTC Chetla with more than 100 participants including school children with the theme of "Plastic Free World" on 2ND June 2023. The 2nd event was International Day of Yoga held at RHUTC, Singur, Hooghly jointly with the Heartfulness Meditation Centre on 21st June 2023 with around 800 participants

(students and teachers) from 12 adjoining schools. The 3rd event was Blood Donation Camp on 8th August at AIIH&PH, jointly with Department of Immunohematology, Medical college Kolkata in which 50 units of blood were collected from students, staff and faculty and awareness on blood donation was disseminated. The 4th AKAM event was commemoration of World Health Day with theme of One Health, on 14th August 2023 which was addressed by three dignitaries, two of whom were Padmashree Awardees from this institution (Prof. Mahender Pal, MVPH from AIIHPH and Prof Indira Chakraborty, Former Director AIIHPH). The 5th AKAM related Programme was a Training Session in Seed Processing Industry in Purba Bardhaman which was held on 13th June 2023 by OH Department in which over 60 workers, staffs and officials were provided the occupational health training.

- **Research and Publications:** Junior Residents of AIIHPH under the able guidance of faculty members have published 54 research papers in various reputed journals in the year 2023 so far. Ten Junior residents of the MD (Community Medicine) Course won awards for presenting their research papers in different categories of oral and poster competitions at the 67th Annual National Conference of Indian Public Health Association held in Kolkata. Two Junior residents of the MD (MPH-Epidemiology) Course also won awards for presenting their research papers in oral and poster competitions at the 63rd Annual State Conference of Indian Public Health Association held in Kolkata.

Human Resource availability (as on 22.12.2023):

Sl	Post Category	Sanctioned	Existing	Current Vacancy
Group A				
1	Teaching- PSM - Public Health - Microbiology	2 17 04	2 09 03	00 08 01 (presently contractual)
2	Public Health Specialist	07	05	02
3	GDMO	30	25	05
4	Non-medical scientists	20	00	20 (deemed abol -ished, revival requested)
5	Teaching-ISS cadre	03	02	01
6	Non-Teaching Specialist (Microbiologist)	01	00	01
7	Asstt. Dir. (Rajbhasha)	01	01	00
GROUP B				
8	Group B (various post)	29	04	25 (deemed abol -ished, revival requested)
GROUP C				
9	- Group C - MTS upgraded to group C - Canteen staff (C)	306 229 14	170 157 02	136 72 12
	<i>Sub-total</i>	663	382	281

NB: Under Mission Recruitment drive 2023, 144 posts have been filled up. In addition, 21 technical posts are in the process of being filling up by December 2023 through HLL and 5 compassionate appointments are also likely to be filled up by mid-January 2024.

- **HR Development and Capacity Building:** 3 categories of trainings/ capacity and skill building were planned and executed during the year through 4 identified agencies namely- (i) Institute of Secretariat Training and Management, New Delhi (ISTM)- Online and Offline, through which 07 officers have been trained (ii) Institute of Government Accounts and Finance (IGAF) Kolkata, through which 75 officers were trained (iii) Integrated Government Online Training Portal (iGOT Karmyogi). Hundreds of workers and officials were nominated for these trainings who completed their courses satisfactorily within stipulated timelines.

Annual Budget and Expenditure:

Classification	FY 2022 - 23	Classification	FY 2023 - 24
AIIH&PH (Genl. Comp)	42.07	AIIH&PH (Genl. Comp)	43.15
CCTC, Singur	24.98	CCTC, Singur	24.84
Capital Outlay	2.30	Capital Outlay	1.64
Total	69.35	Total	69.63

NB: 1. No budget has been granted under Swacchata programme this year, which was very much required.

2. Training budget of 1 lakh was highly insufficient and reappropriation had to be sought from other heads to approximately 8.5 lakhs.

3. Permission has been sought for one more staff car, after off roading of other staff cars due to new MV act.

4. Proposal for RE 23-24, BE 24-25 has been placed as required and greatest urgency is in respect of CPWD (Civil as well as Electrical) and IT.

- **Rajbhasha Activities:** 4 rounds of training/meetings have been held under the auspices of Dept. of Rajbhasha within the institution. 2 rounds of meetings of heads of institution were also held at Central Glass and Ceramic Research Institute (CGCRT). Over 2 dozen employees and officials participated in upgrading their Hindi skills (Pragya, Praveen and Prabodh) through training. An 11 member Rajbhasha Sansadiya Samity visited Kolkata and examined the working of the institute under the leadership of the Director AIIHPH and passed several instructions and directions for betterment and compliance.

Department of Maternal and Child Health, AIIHPH has been identified as the coordinating Department for setting up a Training Hub for accelerating the MAA program in North Eastern States and Union Territories. The training programs under MAA are being conducted regularly by AIIHPH.

- Many of the AIIHPH faculty members also participated in different outbreak programs as a part of the Central Teams across the country.
- The institute has submitted one course on “Diabetes: Prevention and Management” to the Ministry for the iGot platform. Three more public health courses approved in the ACBP of MoHFW for training JS level and below, are under process and will be launched soon..

- AIIPH is in the final stages of implementing eOffice at its campus for paperless file movement.
- The institute is also in the final stages of signing MoUs with the following institutions:
 - University of New South Wales, Australia
 - ECHO India
 - NCDC, New Delhi
 - International Health Division, MoHFW
 - Central Leprosy Division, MoHFW
- A draft module for the " Organ Transplant Coordinator" course was prepared by the department on request from NOTTO.
- A proposal for establishing a new One Health department is drafted and planned.
- Two online courses have been successfully sent by the Dept. to NIHF for the purpose of launching the e-courses in iGOT platform namely "Prevention and Care of Diabetes" and "Best Practices in Medical Education".
- MoU with Regional Labour Institute, Kolkata for future academic collaborations.
- The department entered into an MOU with Medical College and Hospital, Kolkata for placement of our M.Sc. PH (MCH) students for clinical training.

Participation in Various Special Programme, Workshops, Training Programmes and Special Drive

Sl. No.	Name of program	No. of Programme	No. of program days	No. of participants
1	Short term training programme imparted by AIIPH & PH	14	35	303 
2	Awareness programme/ sensitization program reg. public health	15	15	1464 
3	Field training of external students	49	675	976 
4	National-level seminar/ conference	4	4	150 
5	Special drive related to public health	12	14	715 
6	Important Public Health Day celebration	43	43	1536 
7	Any other special programme conducted by Deptt.	7	63	1140 

Academic Wing

HEALTH PROMOTION & EDUCATION

Introduction

Health Education is a process which affects changes in health behaviour of people. The training in Health Education at post graduate level is directed to study and understand various factors involved in the process of imparting knowledge and changing attitude and behaviour of the people so as to promote health. It is an integral part of the institute and actively involved in teaching and training activities in the field of health education and promotion; specially the techniques and methods of assessing health needs, educational needs and planning for changing undesirable health behaviour to different post graduate courses run by the institute.

Teaching Activities

- **Regular Course(s) Conducted:**
 - Diploma in Health Promotion and Education – a one year post graduate course for developing Health Promotion and Education Specialists. The course has an intake capacity of 46 and is affiliated to the West Bengal University of Health Sciences.
 - Master of Public Health (Health Promotion) 2 years' regular course with intake capacity of 10 students each year

New Initiatives:

- Dr. C. S Taklikar is resource person for online training on “Basics of Health Promotion Education Intervention “conducted in collaboration with IIT, Kharagpur on NPTEL-SWAYM platform. Over 1000 participants were enrolled for the course which was conducted from July-Sep, 2023, 8 weeks' duration.

Faculty



Dr. C. S Taklikar
Prof. & HoD
MBBS,MD

E-mail: taklikarcs.aiihph@gov.in

Area of Expertise: Health Promotion,
Health Education, Nutrition Education.



Dr. Sayantani Nandi
Medical Officer
M.B.B.S, MD -Paediatrics
(Joined on 29.09.2023)

E-mail: nandisayantani2022@gmail.com

Other Members

Designation	Number	Activities Performed
Photographer	1 - Vacant	Photography (Retired in Aug-2017)
Stenographer	1	Secretarial Assistance

Designation	Number	Activities Performed
Cine-Technician	2 - Vacant	Arrangement of IEC material, OHP etc. in the classrooms.
MTS	2*	Support Service
*Erstwhile one Carpenter & one Peon.		

Publications

Jha SS, Dobe M, **Taklikar C**, Lahiri A. School-based intervention on behavioural intention of adolescents regarding healthy diet in India. *Front Public Health*. 2023 Feb 9;11: 1094960. doi: 10.3389/fpubh.2023.1094960. PMID: 36844864; PMCID: PMC9947774.

Training program

- Training program on " Basics and Challenges of One Health" was conducted by the department of Health Promotion and Education from 15-17 Feb, 2023. A total of 20 participants participated in the training.
- Dr. C. S Taklikar is resource person for online training on "Basics of Health Promotion Education Intervention "conducted in collaboration with IIT, Kharagpur on NPTEL-SWAYM platform. Over 1000 participants were enrolled for the course which was conducted from July-Sep, 2023, 8 weeks' duration.
- Dr. C. S Taklikar, Prof & HoD, HP&E was invited as resource person to conduct Mixed Methods Research workshop at AIIMS, Jodhpur from 18-21, Jan, 2023.
- 35 participants attended the workshop

Dr. C. Taklikar was resource person for following training programs conducted at AIHHPH:

1. "Mixed Methods Research" for participants from seven different states was conducted from 9-11 Jan at Bidhan Nagar campus AIHHPH.
2. Training on "Mother's Absolute Affection" from 27th Jan to 3rd Feb, 2023 for the Participants from Arunachal Pradesh, Andaman and Nicobar, Lakshdweep and Leh Ladakh
3. Training on "Capacity Buliding trainings on Public Health Emergencies for Hospitals" from 7th -12 Aug, 2023 and 18-13 Sep, 2023

Research Work

- A Community Based Study on Health Literacy and its Associates among Adults in a Rural Area of Hooghly District, West Bengal.
- A Cross-sectional Study on Health Status and Health Seeking Behaviour of School-going Adolescents in a Rural Area of Hooghly District, West Bengal
- A Study on Health Care Utilization & Out of Pocket Expenditure During Covid-19 Pandemic Among Households in an Urban and Rural Area of West Bengal

Conference/Workshop/Seminars attended

- Dr. C.S Taklikar, Prof & HoD, HPE participated as member of Indian delegation in the Regional meeting on Advancing Joint Risk Assessment using One Health approach in WHO- SEARO region from 25-27 July, 2023 at Colombo, Sri Lanka
- Dr. C. S Taklikar attended workshop organized by the Disaster Management Cell, MoHFW for finalization of training materials for Capacity Building trainings on Public Health Emergencies for Hospitals at NCDC, Delhi from 17-19 May, 2023
- Dr. C. S Taklikar was invited as guest speaker to deliver talk on “One Health” at Indian Institute of Bio-science Research and Development, Kolkata on 8th Sep, 2023

Dr. C. S Taklikar

Vigilance Officer of AIIHPH, Kolkata

Examiners

Dr. C. S Taklikar acted as Examiner for MD-MPH Epidemiology exam 2023 conducted by the WBUHS

Dr. C.S Taklikar acted as paper setter and Examiner for DHPE University examination 2023

Field Training

Field Training on Planning Implementation of Health Promotion and Education Intervention regarding Tobacco Use at Haripur village, Singur Block was conducted from 1st Jan-31st Jan, 2023

EMR duty

Dr. C. S Taklikar was deputed as Central Team leader for control of Avian Influenza H5N1 outbreak at Bokaro, Jharkhand from 21st Feb-4th March, 2023.

Awareness program

Health Exhibition and Role play regarding Tobacco control was conducted at Hakimpur village, Singur Block by DHPE & M.Sc. Public Health(HP) on 23.01.2023. Around 80-100 villagers attended the program and visited the Exhibition stalls. 60 Students of Tustocharan Uchha Vidyalaya attended the program.

Important Activities of Department of Health Promotion & Education

Field Training on Planning Implementation of Health Promotion and Education Intervention regarding Tobacco Use at Haripur village, Singur Block was conducted from 1st Jan-31st Jan, 2023

Dr. C. S Taklikar Prof & HoD, HP&E acted as resource person in workshop on “Mixed Methods Research” for participants from seven different states was conducted from 9-11 Jan at Bidhan Nagar campus AIIHPH.



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MICROBIOLOGY

Introduction

The Department of Microbiology of All India Institute of Hygiene & Public Health, Kolkata is concerned with the study of fundamental Microbiology related to the Public Health and Infectious diseases.

It is probably the First Institute/College having a separate Microbiology Section in India. It was established in the year 1932 during British Era. Prof. K.V. Krishnan was the First Head of the Department.

The department is involved in teaching Medical Microbiology to all courses run in the Institute. Department conducts a two year Post graduate course under the University of Calcutta - Master of Veterinary Public Health (MVPH). The department is involved in teaching, training & research activities including the guidance & supervision of dissertation work of the P.G. students of the department and other departments. The department is a recognized centre for testing the bacteriological quality of drinking water. The department is also a recognized centre for "Yellow Fever Vaccination" and Oral Polio Vaccination for the travellers visiting to Yellow Fever endemic countries and Polio endemic countries.

Teaching Activities

- **Regular Courses Conducted:**

- The department runs a P.G course namely Master of Veterinary Public Health (MVPH) under the University of Calcutta.

- **Regular Activities**

- Involved in taking the classes of all the courses run by the Institute. The department also takes practical demonstrations of the different courses allotted to the department.
- All faculties were involved in seminars/Journal club presentations of various students of MVPH.
- All faculties were involved in teaching and training of students coming from other Institutions and enrolled for the Internship in our department after approval from Dean & Director, AIHH&PH.
- All faculties were involved in research activities /dissertation work of various eleven (11) students of MVPH.
- All faculties were regularly involved in routine reporting of Laboratory samples which may be clinical samples or non-clinical samples.

- Total **995** clinical samples were tested for Bacteriological culture & sensitivity in Bacteriology Laboratory section.
- The total **336** water samples were tested for MPN count by the Water Bacteriology Section of the Department.
- Yellow Fever Vaccination certificate was issued to **1549** International Travelers after inoculating Yellow fever vaccine for visiting Yellow Fever Endemic Countries of Africa and South American continent.
- Oral polio vaccination certificate was issued to the **1118** International travellers after inoculating with oral polio vaccine drops so that they do not bring Polio virus strains in India because they may become carrier of Polio virus strains after visiting polio virus endemic countries such as Kenya, Ethiopia, Nigeria, Somalia, Syria etc.
- A lot of different types of Culture Media Room of different categories had been prepared and utilized during the period of reporting and research of students. The Washing Room and Sterilization Room were intimately associated with the preparation of these media.
- On the day Yellow fever vaccination every individual is sensitized about the importance of Yellow fever vaccine and oral polio vaccination.

Faculty



Dr. Atul Raj
 Professor & Head
 MBBS, MD
Email: dratul09@gmail.com



Dr. Amit Banik
 Associate Professor
 MBBS, MD, DNB
Email: dramitbanik@gmail.com

 <p>Dr. Sayan Bhattacharyya Associate professor MBBS, MD</p> <p>Email: sayanda7@outlook.com</p>	 <p>Dr. Shubhra Chattopadhyay Assistant Professor MBBS, MD</p> <p>Email: shubhra.chattopadhyay@gmail.com</p>
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Research activities

1. Drug Resistance Profile of *Salmonella enterica* And Thermophilic *Campylobacter* Isolated from Broilers in Kolkata Wet Markets.
2. Studies on immunological detection of cryptosporidium spp. Isolated from cattle and buffalo calves in and around Kolkata.
3. Development of Loop-mediated Isothermal Amplification technique for differentiation of MTBC from NTM and Assessment of growth characteristics of MTBC in Lowenstein Jensen media with Glycerol and Pyruvate.
4. Detection & characterization of Beta lactamase producing *E. coli* from milk & milk products in & around Kolkata.
5. Study on prevalence of Pork associated zoonotic parasites.
6. Assessment Of Microbiological Quality of Milk Based Indian Sweets Sold in and around Metropolitan City Kolkata.
7. Antimicrobial resistance profile and biofilm forming ability of coagulase-positive and coagulase-negative *Staphylococci* (COPS & CONS) isolated from farmed *penaeus vannamei* shrimp in Andhra Pradesh.
8. Development of Triplex PCR based assay for simultaneous detection of *Escherichia coli*, Methicillin sensitive and resistant *Staphylococcus aureus* from pork meat.
9. Study on protective efficacy of trivalent outer membrane vesicle based immunogen against non-typhoidal *Salmonella* and *Campylobacter* in adult mice.
10. Isolation and molecular characterisation of betalactamse producing *E. coli* in pig farming and Slaughter unit.
11. Characterization of piggery farm waste borne bacterial transposable elements associated with antimicrobial resistant phenotypes.
12. Evaluation of a new banana peel based medium for studying fungi in air by settle-plate method.
13. Evaluation of a new glass slide method of Biofilm testing in Uro-pathogens and its comparison with test-tube method.
14. Study of comparison of oral microbial flora of smokers vs non-smokers in a Metropolitan city.

Publications

1. Bhattacharyya S, Banik A, Chakraborty R, De S, Raj A, Dan A. Gluteal abscess caused by *Rothia dentocariosa* in a sick but immunocompetent adult: A case report and review of literature. *Indian J Case Rep* 2023 November 23 (epub ahead of print)
2. Tiwari SS, Raj A, Bhattacharyya S, Ganguli A. Study of Comparison of Oral Fungal Flora of Smokers vs Non-Smokers in a Metropolitan City. *SVOA Microbiol* 2023;3(3):91-97
3. Kabiraj A, Bhattacharyya S, Lahiri S. Study of *Escherichia coli* and *Klebsiella oxytoca* isolated from edible leafy greens. *J Prevent Med Holistic Health* 2023;9(2):106-112.
4. Bhattacharyya S, Kumar SK, Majumdar S, Dutta M. Nipah Virus infections. *Clinics in Nursing* 2023;2(5).
5. Tiwari SS, Raj A, Bhattacharyya S, Ganguli A. Study of Comparison of Oral Microbial Flora of Smokers vs Non-Smokers in a Metropolitan City. *Res Med Engineering Sci* 2023; 10(4):1115-20.
6. Roy B, Das T, Bhattacharyya S. Overview on Old and New Biochemical Test for Bacterial Identification. *Scholastic Microbiol* 2023;1.1:23-28.
7. Bhattacharyya S. Association between Infections and Diabetes Mellitus. *J Gen Med Clin Pract* 2023; 6(5).
8. Biswas M, Bhattacharyya S, Banik A. Methods for detection of biofilms in bacteria and fungi. *Eastern J Med Sci* 2023; epub ahead of print.
9. Bhattacharyya S, Emerging fungal infections of man. *Medcrave Online J Biol Med* 2023;8(2): 77-79.
10. Lahiri S, Bhattacharyya S, Thakur S. Journal of Prevention, Diagnosis and Management of Human Diseases Experience of Emergency Relief Work and Monitoring for Bird Flu in a City in Eastern India. *J Prevent Diag Manag Human Dis* 2023;3(3):1-8.
11. Das T, Bhattacharyya S, Datta S, Banik A. Study of normal and pathogenic bacteria and yeasts in curd samples. *IP International J Med Microbiol Trop Dis* 2023;9(1):57-65.
12. Bhattacharyya S, Triparagiri SKV, Chakraborty S, Banik A, Raj A. A study on prevalence of Intestinal worm infestation and a comparative analysis between two floatation methods, for demonstrating intestinal parasites in stool (dung) of cattle. *IP International J Med Microbiol Trop Dis* 2023;9(1):31-35.
13. Das T, Bhattacharyya S, Datta S. Study of Normal and Pathogenic Bacteria in Medicinal Probiotics. *International J Med Case Rep Rev* 2023; 2(2):1-8.
14. Bhattacharyya S. Hand washing and hand hygiene in medical practice and day to day life. *Indian J Microbiol Res* 2022; 9(4):249-251.

Other Special Activities Performed:

Dengue awareness day on occasion of Neglected Tropical diseases day

The department organized Dengue awareness day on the occasion of Neglected tropical disease day i.e., 30th January, 2023 in the auditorium of B. N. Campus with almost all students of the Institute, staff of B.N. Campus and some students of other Institute. In this program the entomology and its survey techniques were taught by eminent speaker followed by Public health aspect of dengue and lab diagnosis of dengue. It was a great exposure to each and every one in audience for gathering information.

Immunology Day celebrated

The department organized “The World Immunology Day” on 1st May 2023, the “Theme of Immunology Day for this year was “**Immunology Talks to Public Health**”. The Intent and concept of Immunology Day was to spread awareness about Immunology and its relationship with Public Health.

The Objective/Intent was to spread the awareness about Immunology and its relation with Public Health among school and college students, their teachers, general public, medical students, staff of Institute and also Faculty. Main aim was to increase awareness about Immunology and demonstrate how our understanding of human immunology can improve public health. The program was attended by more than one hundred participants which include about 50 students from other Institutions.

Fungal infection awareness week

The department organized fungal infection awareness week in UHU&TC Chetla on 5th October, 2023.

Disaster Management Duties

Dr. Amit Banik joined EMR duty for Avian Influenza outbreak at Bokaro, Jharkhand from 22nd Feb – 4th March 2023.

Dr. Sayan Bhattacharyya joined EMR duty for Avian Influenza outbreak at Ranchi, Jharkhand from 8th -14th March 2023.

Dr. Amit Banik joined EMR duty for Unknown Exanthematous fever outbreak at Murshidabad, West Bengal from 18th - 21st Mar 2023.

Workshop /training attended

Dr. Sayan Bhattacharyya attended RBC workshop at SCB Medical college, Cuttack from 11th -14th Jan 2023.

Dr. Atul Raj & Dr. Amit Banik attended the Diagnostic Mycology Workshop by ICMR – IAMM at Tata Medical Centre, Kolkata from 4th -6th September, 2023.

Dr. Amit Banik attended online training in Administrative Vigilance – Role of IO/PO by ISTM on 3rd-7th July 2023

As invited Resource person

Dr. Amit Banik was invited as Speaker in Short training Course – ‘Basics and challenges of One Health’ to deliberate on ‘Tackling Antimicrobial Resistance in One Health’ on 17th January, 2023.

Dr. Sayan Bhattacharyya acted as Judge of oral free paper session at ISMM, Manipur conference on 21st -23rd March, 2023.

Dr. Atul Raj was invited as a resource person for the panel discussion on 31st March, 2023 in the capacity building SLOs, SLC and ILEP consultants on LPEP, NSP implementation and Nikusth 2.0 at Faridabad, Haryana. This was organised by the Leprosy division of MOH&FW, New Delhi.

Dr. Amit Banik delivered lectures as Resource person in Training of Capacity Building – Public Health Emergency- Hospital Preparedness and Disaster Management on 7th -12th July, 2023 & 9th-14th October, 2023.

Dr. Atul Raj delivered lectures as Resource person in Training of Capacity Building – Public Health Emergency- Hospital Preparedness and Disaster Management on 7th -12th July, 2023 & 9th -14th October, 2023.

Dr. Atul Raj acted as a resource person in the annual CME 2023 on “Parasites of Public Health importance” on 4th November, 2023 at School of Tropical Medicine, Kolkata.

Dr. Amit Banik acted as a resource person for State level Orientation of Microbiologists under NLEP for State leprosy office of Tripura on 4th & 5th December, 2023 at Agartala.

Dr. Sayan Bhattacharyya spoke virtually on infectious diseases for public awareness and also in coordination with Telengana Government on One Health on 6th July, 2023.

Poster/ Paper presentation/Book chapter published

Dr. Sayan Bhattacharyya presented a paper at ISMM, Manipur conference on 21st -23rd March, 2023.

Dr. Sayan Bhattacharyya presented a poster at HOPECON 2023 at ITC Royal Bengal, Kolkata on 30th June 2023.

Dr. Sayan Bhattacharyya & Dr. Amit Banik contributed chapters in a book named Micronutrients and Macronutrients as Nutraceuticals. Dr. Sayan Bhattacharyya also acted as one of the main editors of the book published by the “Apple Academic Press”.

Extramural trainings

On request of FAITH (Foundation for Action and Innovations Towards Health Promotion) an advocate of One Health and the importance of its integration in educational curriculums, the Lectures & demonstration on Microbial Contamination of Food and water, for the life science students of Sri Shikshayatan College, Kolkata, organized at the Microbiology department B. N Campus on 25th May, 2023.

Program conducted

Dr. Sayan Bhattacharyya successfully conducted Vigilance awareness campaign and Vigilance awareness week in B.N campus with everyone's wholehearted participation.

Dr. Amit Banik conducted Swachhta Pakhwada & Swachhta Hi Seva in the Institute as its Nodal Officer in April and October, 2023 respectively.

Dr. Amit Banik conducted a Blood Donation Camp on 8th August, 2023 at Main Campus Auditorium with logistics from Blood Bank, Medical College, Kolkata under Azadi ka Amrit Mahotsav activities.

Pictures of our routine activities of the Department



Bacteriology Laboratory work – Lab Technologist performing routine bio-chemical testing of samples for microbe identification.



Yellow fever vaccination: AIIH & PH is registered Yellow Fever Vaccination Centre. Scores of travellers travelling to Africa and Sout America get vaccinated at Microbiology Department after thorough medical history evaluation in a streamlined process.



Water Bacteriology testing of drinking water samples received from various agencies through multiple tube method using Most Probable Number technique.



Microbiologist examining a stained smear of a sample. This helps to decide the course of microbe identification as well as in some cases leads to immediate initiation of therapy.

STATISTICS

Introduction

Accurate, comprehensive, high-quality data and statistics are central elements of evidence-based public health policy and therefore the section of Vital Statistics and Epidemiology was established in the beginning in All India Institute of Hygiene & Public Health. The increasing application of the statistical methods in data analysis and research required biostatistics to be separated from the Epidemiology as a separate section, the Section of Statistics.

The Section of Statistics in All India Institute of Hygiene & Public Health came into existence in the year 1945 and it was subsequently renamed as the Department of Statistics (DOS). Due to persistent economic, social and geographical diversity, the huge variety across different states health sectors continues to result in visible disparities in health conditions within India. This variety, therefore, plays an important role in its performance in delivering health services and policies. In addition, a special course viz. Diploma in Health Statistics (DHS) commenced under the Department in the year 1966 with participation of students from India and abroad. Moreover, this Department is engaged in imparting training on Statistics to the students of all postgraduate degree and diploma courses run by the Institute and furthermore, it is supporting statistical surveys, special studies and research activities undertaken by the Institute. Statisticians are the specialists of data evaluation, as it is their expertise that allows them to take complex, mathematical findings of research-related data and translate them into valuable information that is used to make public health decisions by utilising statistical tools to enhance science and bridge the gap between theory and practice.

Moreover, the Department has been working as IT Wing of the Institute and as such taking care of the LAN, WAN, NKN Connectivity, Website Development, Maintenance and Updation of IT facilities, etc.

Teaching Activities

- **Regular Course Conducted by the Department**
 - **Diploma in Health Statistics (DHS)**
 - ❖ **Level: Diploma (Post Graduate); Duration: One Year (Full Time)**
 - ❖ **Affiliation/Recognition: West Bengal University of Health Sciences**
 - ❖ **Intake Capacity: 8**
- **Involvement in Courses Conducted by other Departments**
 - **Core Course**
 - MD(CM) (Post Graduate Degree), MPH(Post Graduate Degree), MVPH(Post Graduate Degree), M Sc in Public Health (Maternity and

Child Health), Post Graduate Diploma in Public Health Management (Post Graduate diploma);

- Dip-Diet (Post Graduate Diploma);
- DHPE (Post Graduate Diploma);
- M Sc (Applied Nutrition) (Post Graduate Degree);
- M Sc in Public Health (Health Promotion)

Short Courses/Trainings Conducted

- The department conducts various short courses and training on the use of statistical methods and application of data handling packages such as Excel, Access, SPSS, Epi-Info etc. for the faculty and students of this institute and other medical researchers. It also conducts training on the use of IT for different user groups on various aspects related to Public Health and medical research.

Other Important Activities

- All IT related infrastructural and maintenance work, training on IT related matters, website maintenance and uploading of materials, monitoring and management of Computer Network (LAN/WAN), providing support for the operation of Biometric Attendance System etc. have been taken up by the Department on regular basis.

Faculty



Shri R.K. Tiwary, ISS
Dir.-Professor & Head
(from 05.06.2023)
M.A. (Statistics)

E-mail: ranjit.k.tiwary@gmail.com
Mobile No.: 9830569566
Area of expertise: Administration & Management, Large Scale Field Survey Administration, Data Processing, etc.



Smt. Shruti Shukla, ISS
Professor
M.Sc. (Statistics)

E-mail: shruti.shukla@nic.in
Mobile No.: 9830867740
Area of expertise: Economic Statistics (Trade & Industry) & different statistical packages like R, SPSS etc.



Ms. Chandrima Das, ISS
Assistant Professor
M.Sc. (Statistics)

E-mail: chandrima120@gmail.com
Mobile No.: 9831519527
Area of expertise: Bio-statistics including Epidemiology, Survival Analysis, Clinical Trial etc. & different programming software like R, etc.



Shri Anupam Deb Barman,
Senior Statistical Officer
B.A in Economics
(up to 13.03.2023)

E-mail: debbarmananupam1@gmail.com
Mobile No.: 94744 57887
Area of expertise: Field Work for Large Scale Sample Survey, Survey Methodology, Statistical Applications, etc.



Shri Subhrajit Sarkar,
Senior Statistical Officer
M.Sc. (Economics)

E-mail: ssarkar.aiihph@gov.in

Mobile No.: 94333 05466

Area of expertise: Field Work for Large Scale Sample Survey, Expertise in Statistical Packages like Adv. Excel, SPSS, Survey Methodology and IT etc.



Shri Subrata Majumder,
Senior Statistical Officer
M. Com, ICWAI
(from 14.03.2023)

E-mail: subrata.m@gov.in

Mobile No.: 98832 42331

Area of expertise: Field Work for Large Scale Sample Survey, Survey Methodology, Statistical Applications, Administration etc.



Dr. Shampa Mukherjee
(Kundu),
Senior Statistical Officer
Ph.D. (Economics)

E-mail: shampa_kundu@yahoo.co.in

Mobile No.: 94335 25849

Area of expertise: Field Work for Large Scale Sample Survey, Survey Methodology, Statistical Applications etc.



Shri Subhojit Ghosh
Senior Statistical Officer
M. Com

E-mail: subhojit.ghosh@gov.in

Mobile No.: 98368 02265

Area of expertise: Field Work for Large Scale Sample Survey, Survey Methodology, Statistical Applications, etc.

Other Members

Designation	Number	Activities Performed
EDP Staff, DEOs	3	Electronic Data Processing, IT Support, Field-Support, Documentation, Management of Computer Lab, Software application, Website maintenance, etc.
Stenographer	1	Stenography, Documentation, and Secretarial Service
MTS	2	Support Service

Research Work

- Faculties of the Department supervise the PG students of all Departments in data handling and statistical analysis of their research project/ thesis.
- Sh. Subhrajit Sarkar, Senior Statistical Officer, acted as co-guide to the following Curricular Research studies:
 - ✓ A Study on Morbidity Profile of Horticultural workers in a rural area of South 24 Parganas District of West Bengal [by MD(CM) student].
 - ✓ A cross-sectional study on smartphone addiction and associated health effects among under-graduate students of a Govt. college in West Bengal [by MD(CM) student].

- ✓ A KAP Study on Reuse of Cooking Oil amongst the household of a village in Purba Barddhaman District, West Bengal [by MSc(AN) student].
- ✓ Study on Self-care Practices among Diabetes Mellitus Patients attending health and wellness centres in a block of West Bengal (by PGDPHM student).
- **Dr. Shampa Mukherjee (Kundu), Senior Statistical Officer, acted as guide to the following Curricular Research study:**
 - ✓ A KAP Study on Reuse of Cooking Oil amongst the household of a village in Purba Barddhaman District, West Bengal [by MSc(AN) student].
- **Dr. Shampa Mukherjee (Kundu), Senior Statistical Officer, acted as co-guide to the following Curricular Research study:**
 - ✓ A cross-sectional study on nutritional status and associated factors among adolescents in Singur, West Bengal [by MD(CM) student].
 - ✓ A Comparative Study of Nutritional Status Among Young Adolescent (11-14yrs) Mid-day Meal Beneficiaries of Selected Rural & Urban Schools in Purba Burdwan, West Bengal [by MSc(AN) student].
 - ✓ A Study on Utilization and Beneficiaries Satisfaction of ICDS Scheme Regarding the Mother and Child Care In a Village of Purba Bardhaman, West Bengal [by MSc(AN) student].
 - ✓ A Study on quality of life among Hypertensive patients attending clinics of Urban Health Unit and Training Center, Chetla, West Bengal (by PGDPHM student).

Conference/Seminar/Workshop Attended

- **Sh. Subrata Majumder, Senior Statistical Officer attended**
 - A 5-day training on Administrative Vigilance -Role of IO/ PO from 3rd July to 7th July 2023 conducted by Institute of Secretariat Training and Management, New Delhi.
 - A 2-day training on Statistical Tools and Techniques from 24th July to 25th July 2023 conducted by Institute of Secretariat Training and Management, New Delhi.
- **Dr. Shampa Mukherjee (Kundu), Senior Statistical Officer attended**
 - A two-day online workshop for Liaison Officer (SC/ST) held on 17-18 August 2023 conducted by Institute of Secretariat Training and Management, New Delhi.
 - A half-day online workshop on Conduct of Inquiry on Complaints relating to Sexual Harassment of Women at Workplace on 04 September 2023 conducted by Institute of Secretariat Training and Management, New Delhi.

- **Sh. Subhojit Ghosh, Senior Statistical Officer attended**

- A 2-day training on Statistical Tools and Techniques from 24th July to 25th July 2023 conducted by Institute of Secretariat Training and Management, New Delhi.

Paper Setter/Examiners

- All faculty members acted as paper setter for DHS Entrance Exam. 2023 conducted by the West Bengal University of Health Sciences, Kolkata.
- Dr. Shampa Mukherjee (Kundu) acted as paper setter and examiner for the M Sc (Applied Nutrition) Part I examination, 2023 conducted by the West Bengal University of Health Sciences, Kolkata.
- Sh. Subhojit Ghosh, Senior Statistical Officer prepared MCQs for recruitment of SHI in VMMC – SJH.

Additional Responsibility

- **Shri Ranjit K Tiwary**
 - ❖ OSD, CPWD, AIH&PH
 - ❖ Chairperson, Website Management Committee
 - ❖ CPIO (till 31.08.23)
 - ❖ Member of various academic and administrative committees
 - ❖ Coordination CDAC
- **Smt. Shruti Shukla, Professor is acting as –**
 - ❖ Nodal Officer for various IT projects including e-office
 - ❖ Nodal Officer, iGot Karmayogi platform
 - ❖ NIC coordination
- **Ms. Chandrima Das, Assistant Professor is acting as**
 - ❖ Public Grievance Officer of the Institute (up to August 2023)
 - ❖ Member and rollout officer of e-HRMS Committee of the institute.
- **Sh. Subhrajit Sarkar, Senior Statistical Officer is acting as**
 - ❖ Public Grievance Officer of the Institute (from September 2023),
 - ❖ Assistant Nodal Officer (AIQ) for NEET – PG admission.
- **Shri Subrata Majumder, Senior Statistical Officer is acting as**
 - ❖ DDO in All India Institute of Hygiene and Public Health, and serves key responsibilities such as:
 - Financial Management.

- **Budget Management:** Create and oversee budgets.
- **Fund Allocation:** Distribute funds to departments.
- **Record Keeping:** Maintain transparent financial records.
- **Auditing:** Cooperate during financial audits.
- **Reporting:** Provide financial reports to higher authorities.
- ❖ **Nodal Officer of Government email id.**
- **Dr. Shampa Mukherjee (Kundu) is acting as**
 - ❖ **Liaison Officer for Economically Weaker Section,**
 - ❖ **Assistant Nodal Officer (SQ) for NEET – PG admission.**
- **Shri Subhojit Ghosh, Senior Statistical Officer is also acting as**
 - ❖ **DDO & Public Grievance Officer (as Link Officer).**

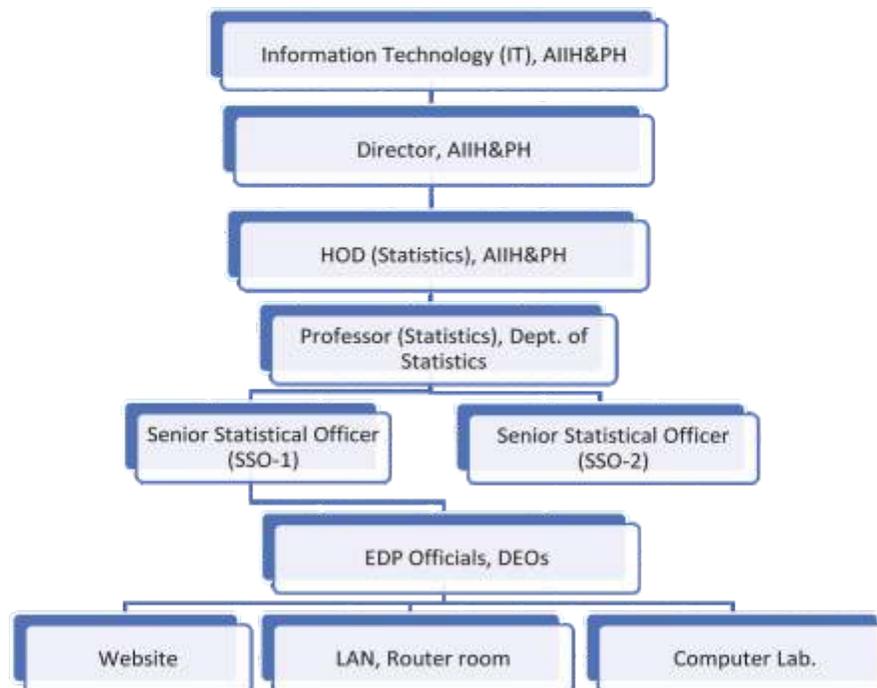
Special Activities

- **A broad conceptual sketch for erecting a new department of Artificial Intelligence (AI) in Public Health was developed by the officials of department of Statistics under the leadership of Sh. R.K. Tiwary, HOD in consultation with C-DAC, Kolkata.**
- **Shri K.K. Kundu worked as coordinator for Yoga Day, Environment Day and Blood Donation Camp.**
- **Officials attended the virtual launch of Annual Capacity Building Plan by Hon'ble HFM on 17.5.23**
- **Officials attended the virtual orientation program regarding iGot Karmayogi Platform on 21.6.23 for capacity building.**
- **Prof. of Statistics appointed as Nodal Officer(MDO Admin), iGot Karmayogi for AIIHPH, Kolkata.**
- **Attended virtual weekly review meetings chaired by JS(Trg) and Dir(Trg) in the capacity of Nodal officer AIIHPH 8.8.23 onwards.**
- **Organized 4 training Programs on "Pursuing the mandated courses on iGot Karmayogi Portal/App" for all the AIIHPH employees at the institute's four campuses attended by around 200 employees on 22.11.23, 4th - 6th Dec'23.**

INFORMATION TECHNOLOGY OF AIIH&PH

This institute is having an integrated IT infrastructure which is supervised by Department of Statistics. The main components of this IT setup are Website, AIIHP&H, NKN LAN, Firewall, Router setup, computer Lab. etc. The whole LAN network and the website are setup with the coordination of NIC. Accordingly proper coordination with the NIC is maintained by the Department of Statistics. The website of the Institute is updated with uploading of the various information supplied by various departments which pass through a hierarchy and approval.

Thus, a system has been developed where properly trained manpower are supervising the IT system. In addition to above a computer laboratory is maintained for teaching purpose including training on various software used in data analysis by the students of various public health courses (as mentioned under the heading courses elsewhere). The various decisions regarding IT processing are made in hierarchical order mentioned in the organogram below. The various IT related projects are taken up for various necessities for teaching, training and research.



iGot Karmayogi:

AIIHPH is one of the participating institutes in Annual Capacity Building Plan (ACBP) of Ministry of Health and Family Welfare. The institute has been allocated three training programs in the ACBP for creation of training course modules. These courses cater to various levels of Govt. officials beginning from the Under Secretary level to Joint Secretary level. These courses will be a part of learning programs offered by the Ministry of Health and Family Welfare on iGot platform. Apart from preparing training contents,

the institute is also encouraging all its employees to pursue courses on iGot Platform to upgrade their skills. Accordingly, the Department of Statistics (DOS) is participating and coordinating at the National Level Seminars, Meeting and Training.

E-office:

AIHHPH is presently in the final stage of e-office implementation at its main campus. This will be the first step towards a paperless office and e-governance at AIHHPH. The project has been handled by Department of Statistics since its beginning. The successful rollout of e-office will further ensure transparency and accountability in the office functions of AIHHPH. The e-office project is being implemented with the help from NICSI, NIC and RailTel. Thus, this Department is maintaining inter-organizational coordination and after earning the objective knowledge, passing it to other officials of the Institute.

Website:

The institute has its own website www.aiihph.gov.in, managed by C-DAC under the supervision of Department of Statistics, AIHHPH. It's a secured website having the necessary SSL certification. The work related to day-to-day website management and its security audit is also done under the supervision of Department of Statistics. The various material, information, news, tender notice, other updates are uploaded by DEOs and are supervised by SSOs. As per instructions of competent authority various remodeling exercise of the text or picture materials are taken up by the officials of this department.

For maintaining transparency, audit of the content of the Website is done. The responsibility of AIH&PH part was completed in time and the result was sent to designated auditor. The Department is at present involved in the following for Website Development :

1. Staging / UAT server for the website <https://aiihph.gov.in> that should be a exact replica of the original website with some/all data associated with the website.
2. A dummy user to be created for each role (i.e. normal user/ admin etc.) for testing purpose only.
3. Access to the dummy/testing website, that should be accessible from CDAC network.
4. VPN connectivity for connecting to the Admin console (WordPress CMS), as CMS admin panel is only accessible through VPN (as already discussed).

Computer Lab.:

The Computer of the Institute is maintained by Department of Statistics. This uses the LAN system and works in an integrated way. In fact, various statics theories and data analytics software viz. SPSS, Advance Excell, R are inter-twined which are taught with the help of Computer Lab. At present the Lab. is under process of upgradation.

ENVISIONING DEPARTMENT OF ARTIFICIAL INTELLIGENCE (AI) IN AIIPH&PH, KOLKATA

Introduction

The application of artificial intelligence in public health

Driven by major advances in computers algorithms and accumulation of big data over the decades, AI has entered an extraordinary stage of rapid development and widespread application. More recently, traditional AI research areas, including computer vision, speech recognition, and robotics, have also been found to be innovatively applicable in other real-world contexts, such as public health. In particular, the coronavirus pandemic outbreak at the end of 2019 plunged the world into a severe public health crisis. AI-based medical devices, algorithms, and other new industries have shown great potential in surveillance, prevention, diagnosis, and health management, which provides important support for this global fight against the epidemic.

Definition:

AI is a broad field of computer science that focuses on creating smart machines capable of performing tasks that typically require human intelligence. These tasks include problem-solving, understanding language, perception, and decision-making.

Scope:

AI encompasses a variety of subfields, including machine learning, robotics, natural language processing, and expert systems.

Goal:

The primary goal of AI is to develop systems that can execute tasks where human-like reasoning, knowledge, planning, learning, communication, perception, and physical action are required.

Broadly, AI refers to the processes by which computers and machines simulate human behaviour, including perception, learning, inferencing, analysis, and decision-making, *to perform tasks through data processing and pattern recognition.*

AI includes multiple **subsets** or **subfields**, of which machine learning, deep learning, neural networks, computer vision, and robotics are the five main subfields of AI. Machine learning and deep learning are two major subfields that are often mentioned in AI. Machine learning enables computers to learn autonomously by analysing training data and experience without explicit programming. Furthermore, its performance improves with time. Machine learning algorithms include the supervised type that needs a training dataset containing input data and expected output and the unsupervised type that the data

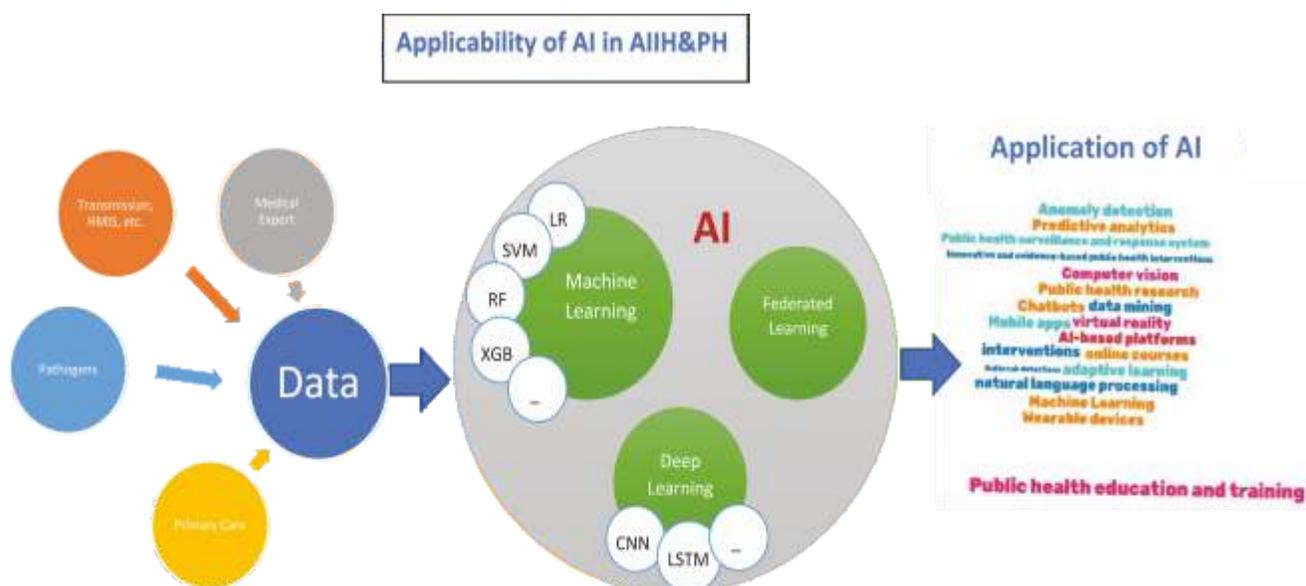
itself learns instead of the training datasets. Recently, multiple complex problems in areas, such as finance, healthcare, and manufacturing, have been well-addressed through machine learning.

Proposed courses:

Short training programs:

1. Statistical Analysis in Public Health Specialisation.
2. Introduction to AI for Hygiene & Public Health
3. AI for Health Promotion and Disease Prevention

The beginning of this new venture is a marathon task as it demands new additional resources viz. new hardware supplements and computers, developed space, updated computer lab. and relevant new Software's. It is obvious that the Institute will have to wait for additional resources and budget including sanction for new posts in addition to existing posts.



ARTIFICIAL INTELLIGENCE IN PUBLIC HEALTH: A PEEK THROUGH THE LENS OF HINDU PHILOSOPHY

Artificial Intelligence (AI) refers to the simulation of human intelligence in machines that are programmed to think and learn like humans. The goal of AI is to develop systems that can perform tasks that typically require human intelligence, such as visual perception, speech recognition, decision-making, and language translation. These systems are designed to adapt and improve their performance over time as they are exposed to more data.

While we are yet to make a strict distinction between consciousness and intelligence, it is undeniable that they are different things. Artificial Intelligence has evolved rapidly, raising fundamental questions about the nature of consciousness and self-awareness. Though the realms are far apart, we cannot but discuss a few areas, where vastly different genres of AI and Hindu Philosophies merge. Concurrently, Hindu philosophy, with its ancient wisdom, has contemplated the intricacies of consciousness for centuries. This synthesis aims to bridge the gap between these seemingly disparate realms, exploring how AI and Hindu philosophy intersect in the realm of consciousness.

Hindu philosophy offers a diverse array of perspectives on consciousness. The Upanishads, ancient texts foundational to Hindu thought, delve into the concept of "Brahman," an ultimate reality that underlies and unifies the diversity of the material world. The self (Atman) is considered identical to Brahman, emphasizing a non-dualistic perspective. This unity forms the basis for an interconnected and pervasive consciousness that transcends individual identities.

The quest for conscious machines has been a focal point in AI research. While current AI systems exhibit narrow intelligence, the aspiration is to develop machines capable of self-awareness. Neural networks and deep learning algorithms simulate cognitive processes, yet true consciousness remains elusive. The integration of Hindu philosophical insights into AI discussions provides a unique perspective on the nature of machine consciousness.

The Concept of Karma and Machine Learning is another area in this discussion that requires special mention. Hindu philosophy introduces the concept of karma, the law of cause and effect that governs the cycle of birth, death, and rebirth. In the context of AI, this can be related to the continuous learning and adaptation of machines through algorithms. Understanding the implications of karma in AI systems may guide the development of responsible and accountable machine learning processes.

This synthesis of AI and Hindu philosophy provides a comprehensive exploration of the intersections between technological advancements and ancient wisdom. By examining the nature of consciousness, self-awareness, and ethical considerations, this synthesis offers a holistic perspective on the potential impact of merging AI and Hindu philosophy. As both

fields continue to evolve, their convergence may lead to novel insights, ethical frameworks, and a deeper understanding of the nature of consciousness in the context of artificial intelligence.

Thus with this background, we can now embark on a journey to identify the areas where AI can help Public health, in recognizing new patterns, finding out existing patterns, coming to programmed decision making and maybe make lives simpler for public health specialists. As already discussed, consciousness is still elusive in its meaning and context. However, there are scopes of pattern recognition, and acting on that along with generating new pattern. Whether the entire human mind is a reducible object with some degrees of determinism, remains a question that needs to be answered. But with the power that AI already has harnessed, let us find some areas where it can work well.

AI has proved its worth in Disease Surveillance and Prediction. It can analyze large volumes of data, including social media, search queries, and electronic health records, to detect patterns and trends that may indicate the outbreak of diseases. Machine learning models can predict disease spread and identify potential hotspots, enabling timely interventions and resource allocation.

Another area where AI can work is Healthcare Management and Resource Allocation. AI can optimize hospital workflows, resource allocation, and patient scheduling, improving overall healthcare system efficiency. Predictive analytics can help anticipate patient admission rates, enabling better planning for staffing, equipment, and supplies.

Last but not the least, AI can help to develop Monitoring and Early Warning Systems. It can analyze environmental and climate data to predict and mitigate the impact of environmental factors on public health. Thus early warning systems can be developed to alert authorities and communities about potential health risks.

The applications of AI are broad and continue to expand across various industries, including healthcare, finance, education, manufacturing, and more. While AI has the potential to bring about significant advancements and efficiency improvements, it also raises ethical and societal considerations, such as job displacement, privacy concerns, and the responsible use of AI technologies. In a country like India, data validity also poses a huge question. As AI continues to evolve, researchers and developers strive to strike a balance between harnessing its capabilities for positive impact and addressing potential challenges.

PREVENTIVE AND SOCIAL MEDICINE

Introduction

The Department of Preventive and Social Medicine was established in 1973 with the objective of developing skilled and motivated workforce in the public health services including training of trainers and course facilitators for planning, organization and evaluation of national health programmes. Thus, ever since the days of its foundation, the department has been addressing a wide range of issues on Public Health by its multi-disciplinary functions in the form of research, education and training interventions.

Teaching Activities

- **Regular Courses Conducted:**

MD (CM) Three-year full-time course recognized by NMC and affiliated to WBUHS.

Intake capacity of the MD (CM) course - 20 seats

➤ Classes taken for other courses i.e. MD(MPH), DHS, PGDPHM, MSc (MCH), MSc (HPE), SHI and DHPE courses

- **Other Regular Activities**

Seminars/ Short Study presentation/ Journal Club/Focus Group Discussion/ Field Activities/Family Care presentations etc. are undertaken as part of curricular activities by MD (CM) students.

New Initiatives

- **Village Adoption Programme** has been a novel initiative by the Department to conduct various awareness programmes in the village of Khosalpur, Singur with a vision to make the village a model health village.
- **Capacity Building Training on Hospital Preparedness during Public Health Emergencies** has been started and two rounds of training have been successfully conducted for the states of West Bengal, Tripura, Bihar, Mizoram, Assam and Arunachal Pradesh.
- Junior Residents (18) from the Department of PSM participated in District Residency Programme in collaboration with Government of West Bengal in 3 batches over a period of 3 months in each round.
- Junior Residents (16) for the first time were sent on rotational posting to the seven public health units of MOHFW in and around Kolkata: RLTRI Gouripur, APHO, PHO, Regional Office MOHFW, Institute of Serology, Government Medical Store Depot and Land Port Health Organisation to enhance the quality of teaching and training through field experience.

- Two online courses have been successfully sent by the Dept. to NIHFV for the purpose of launching the e courses in iGOT platform namely “Prevention and Care of Diabetes” and “Best Practices in Medical Education”.
- NMC inspection was conducted in virtual mode on 09.06.2023 i.e. during the Final MD Practical Examination, for recognition of 10 enhanced seats of the MD (Community Medicine) course

Faculty:

	<p>Dr. Ranjan Das Director, AIIHPH Kolkata & Director Professor of PSM MBBS, MD, C Epid, PGC HFWM, PGC HM</p>	<p>E-mail: dasranjan.aiihph@gov.in Mobile No.: 9311188920. Area of expertise: Applied Nutrition, Biostatistics, Epidemiology & Research Methodology</p>
	<p>Dr. Bobby Paul Professor, Head of the Department (from 17/01/23 onwards), Preventive and Social Medicine MBBS, MD(CM), DCH, FAIMER Fellow</p>	<p>E-mail: drbobbypaul@gmail.com Mobile No.: 9830046821 Area of expertise: Bioethics, Non-communicable diseases, and Public Health Emergency Management</p>
	<p>Dr. Lina Bandyopadhyay Advisor Public Health (SAG) Professor (Eq), Department of PSM M.B.B.S, DPH, MD(PSM)</p>	<p>E-mail: sulins81@gmail.com Mobile No.: 9830020149 Area of expertise: Public Health, Non communicable diseases, MCH & Geriatric Health</p>
	<p>Dr. Madhumita Bhattacharya Professor, Paediatrics (Eq) CMO (SAG) MBBS, DMCW, DCH, MD (Pediatrics)</p>	<p>E-mail: madhumita57@yahoo.co.in Mobile No.:9830134419 Area of expertise: Community Paediatrics, Child Health & Nutrition, Neonatal Care & Resuscitation, Adolescent Health, School Health.</p>

	<p>Dr. Monalisha Sahu Associate Professor and acting Head (Occupational Health) MBBS, MD</p>	<p>E-mail: drmonalisha@outlook.com Mobile No.: 9873927966 Area of expertise: Maternal Infant and Young Child Nutrition, Climate Change & Health, Healthy Work Environment, Indigenous Health</p>
	<p>Dr. Rivu Basu Assistant Professor MBBS, MD, MBA, PGDFM, FAIMER (CMC-L)</p>	<p>Email: rivobasu83@gmail.com Mobile No:8420256694 Area of expertise: Health Management, Health Economics</p>

Other Members:

Post/Category	Number	Activities performed
Stenographer	1	Secretarial Assistance
Museum Curator	1	Museum – Curator
MTS	2	Support Service

Publications:

1. Halder R, Paul B, Bandyopadhyay L, Bhattacharya M, Das R, Banerjee A. Awareness Regarding Gestational Diabetes Mellitus among Antenatal Women of Rural West Bengal: A Mixed-method Study. *Healthline*. 2022;13(1):22-30.
2. Bag NI, Sahu M, Paul B, Das R, Bandyopadhyay L, Bhattacharyya M, et al. Knowledge, Attitude and Level of Involvement of Married Males in Family Planning. *Kathmandu Univ Med J*. 2022;78(3):128-35.
3. Maity CS, Paul B, Banerjee A, Bandyopadhyay L, Bhattacharyya M, Sahu M. Perception and Practices Regarding Rabies among Animal Bite Victims: A Cross-sectional Study in a Rural Area of West Bengal. *APCRI J*. 2022;23(2):11-19.
4. Biswas B, Naskar NN, Basu K, Dasgupta A, Basu R, Paul B. An Epidemiological Study of the Quality of Life of Children With Beta-Thalassemia Major (β -TM) and Its Correlates in Kolkata, West Bengal, India. *Cureus*. 2023 Mar;15(3):e36888.

5. Chattopadhyay B, Paul B, Das R. Cardiovascular Disease Burden and Longitudinal Changes in Cognitive Function among Older Adults: A Narrative Review. *Int J Med Rev.* 2023 Mar 1;10(1):463–76.
6. Sengupta T, Paul B, Banerjee A, Das R, Halder R. Chronic musculoskeletal pain among elderly individuals in a rural area of West Bengal: A mixed-method study. *Malays Fam Physician Off J Acad Fam Physicians Malays.* 2023;18:25.
7. Banerjee A, Paul B, Das R, Bandyopadhyay L, Bhattacharyya M. Utilisation of adolescent reproductive and sexual health services in a rural area of West Bengal: A mixed-method study. *Malays Fam Physician Off J Acad Fam Physicians Malays.* 2023;18:26.
8. Paul B, Saha I. System Approach to Combat Challenges in Implementing Competency-Based Medical Education in India. *Med J Dr Patil Univ.* 2023 Feb;16(1):138.
9. Jaiswal AA, Paul B, Das R. Antibiotics in the times of COVID 19'- A Mixed-Methods study among patients attending OPD of an Urban Health Centre of West Bengal. *Indian J Prev Soc Med.* 2022;53(4):234–45.
10. Halder, R., Paul, B., Banerjee, A., Das, R., Sengupta, T. . (2023). Functional Status of the Elderly and their Rehabilitation Needs: A Mixed-Method Study in a Slum of Kolkata, West Bengal. *Siriraj Medical Journal*, 75(1), 20–28. <https://doi.org/10.33192/smj.v75i1.260526>
8. Banerjee B, Dutt D, Saha I, Paul B, Lachyan D. Effectiveness of mHealth for modification of dietary habits and physical activity among individuals at risk or suffering from noncommunicable diseases in primary healthcare settings in South East Asian Region countries – A systematic review and meta-analysis. *Int J Noncommunicable Dis.* 2023 Jan 7;7:161.
9. Ghosh S, Yasmin M, Sen K, Goswami S, Das TC, Swar SC, et al. Integrated Care for Type 1 Diabetes: The West Bengal Model. *Indian J Endocrinol Metab* [Internet]. 2023 May 8 [cited 2023 Jun 13]; Available from: https://journals.lww.com/indjem/Abstract/9000/Integrated_Care_for_Type_1_Diabetes__The_West.99982.aspx
10. Reshma A, Bandyopadhyay L, Paul B, Jaiswal A, Das A, Pal N. A cross-sectional study: Assessment of optimal breastfeeding practices among tribal women having children 0-23 months of age residing in an Island of Sundarbans, West Bengal. *J Surg Spec Rural Pract.* 2023 May 1;4(2):92–92.
11. Jana D, Sahu M, Paul B, Chakraborty S, Bandyopadhyay L, Das R. Proportion, Pattern, and Predictors of Falls in Older Adults – A Community-based Observational Study in Rural West Bengal. *J -Life Health.* 2023 Sep 18;14:130–8.

12. Banerjee, Bratati; Dutt, Debashis¹; Saha, Indranil²; Paul, Bobby³; Lachyan, Abhishek Shivanand⁴. Effectiveness of mHealth for modification of dietary habits and physical activity among individuals at risk or suffering from noncommunicable diseases in primary healthcare settings in South East Asian Region countries – A systematic review and meta-analysis. *International Journal of Noncommunicable Diseases* 7(4):p 161-176, Oct–Dec 2022. | DOI: 10.4103/jncd.jncd_59_22
13. Chopra H, Paul B, Virk A, Pandey G, Lahariya C. Triple Burden of Malnutrition among Children in India: Current Scenario and the Way Forward. *Indian J Pediatr.* 2023 Jul 28. doi: 10.1007/s12098-023-04739-x. Epub ahead of print. PMID: 37505406.
14. Kishore J, Paul B, Roy R. Involvement of Medical Colleges in Implementation of National Strategic Plan 2023-27 for Leprosy Elimination: A Roadmap. *Epidem Int.* 2023;8(2):4-6
15. Ghosh P, Sadhukhan SK, Dasgupta A, Paul B, Ghose S, Biswas A. Scourge of out-of-pocket expenditure on health: A study on its burden and predictors in a rural community of West Bengal. *Journal of Family Medicine and Primary Care* 12(8):p 1576-1581, August 2023. | DOI: 10.4103/jfmpe.jfmpe_2208_22
16. Podder D, Paul B, Biswas SC, Dasgupta A, Roy S, Pal A. Predictors and pathway of Maternal Near Miss: A case control study in a tertiary care facility in Kolkata. *Indian J Community Med* 2022 Dec;47:555-61
17. Mitra S, Sarkar A, Chowdhury S, Basu R. COVID-19 vaccine hesitancy amongst residents of an urban field practice area: A cross-sectional survey. *J Med Evid* 2023;4:109-14.
18. Sinha S, Basu R, Chakravarty K. An Analytical Observational Study on Chronic Kidney Disease of Unknown Etiology at a Rural Tertiary Care Hospital in West Bengal. *Indian Journal of Public Health* 67(2):p 208-214, Apr–Jun 2023.
19. Biswas B, Naskar N N, Basu K, et al. (March 29, 2023) An Epidemiological Study of the Quality of Life of Children With Beta-Thalassemia Major (β TM) and Its Correlates in Kolkata, West Bengal, India. *Cureus* 15(3): e36888.
20. Chakraborty D, Debnath F, Kanungo S, Mukhopadhyay S, Chakraborty N, Basu R, Das P, Datta K, Ganguly S, Banerjee, P and et al. 2023. "Rationality of Prescriptions by Rational Use of Medicine Consensus Approach in Common Respiratory and Gastrointestinal Infections: An Outpatient Department Based Cross-Sectional Study from India" *Tropical Medicine and Infectious Disease* 8, no. 2: 88.
21. Sarkar P, Sarkar A, Basu R. Sociodemographic factors influencing knowledge, attitude, and practices regarding the prevention of common cancers among adults in urban slum, Kolkata. *Muller Journal of Medical Sciences and Research* 13(2):p 85-92, Jul–Dec 2022. | DOI: 10.4103/mjmsr.mjmsr_41_22

22. De R, Bhattacharya A, Basu R, Das M, Sarkar A, Pattanayak SK. Factors Influencing Contribution of Geriatric Persons in the Society: A Glance from a Rural Area of West Bengal. *Indian Journal of Public Health* 67(1):p 99-104, Jan–Mar 2023. | DOI: 10.4103/ijph.ijph_1127_22

23. Sarkar A; Dalui A, Sarkar P, Das M, Basu R, Sardar JC. COVID Vaccine Hesitancy among the Tribal Population and Its Determinants: A Community-Based Study at Berhampore Block of Murshidabad District, West Bengal. *Indian Journal of Public Health* 67(1):p 21-27, Jan–Mar 2023.

Research Work:

On-going Thesis Work:

Batch 2021-24:

1. Effect of Health Education intervention on Knowledge and Attitude Regarding Childhood Injuries among Caregivers of Under Five Children in an Urban Slum of Kolkata
2. A Comparative Study on Air Pollutants Exposure and Respiratory Health of Street Vendors and Established Shopkeepers in Selected Market Areas in Kolkata
3. A Community Based Cross Sectional Study on Multimorbidity and its Outcomes among Adults Aged 45 Years or Above in a Rural Area of Hooghly District, West Bengal
4. A Cross Sectional Study on Locomotor Capacity of Elderly in Rural Area of Singur Block, West Bengal
5. A Study on Gestational Diabetes Mellitus and Factors Associated with it among Mothers Attending Antenatal Clinic of an Urban Health Centre in Kolkata
6. A Study on the Morbidity Profile of Brick-Kiln Workers in a Rural Area of Hooghly District, West Bengal
7. Morbidity Profile, Health Service Utilization and Out of Pocket Expenditure among Mothers and Infants in a Rural Area of Singur, West Bengal- An Ambispective Study
8. A Cross Sectional Study on Morbidity Profile and Health Seeking Behaviour among Female Beedi Rolling Workers of selected rural area in South 24 Parganas, West Bengal
9. A Study on Perceptions regarding Infants and Young Child Feeding practices using Health Belief model in a Rural Area of Hooghly District, West Bengal
10. A cross-sectional study on Reproductive tract Infection among Women of Reproductive Age Group in a rural area of Singur, West Bengal

11. A Study on Metabolic Syndrome and its Determinants among Adult Women of Reproductive Age Group in a Rural Area of Hooghly district, West Bengal
12. A Comparative Study on Anemia among Elderly in a Rural area of Singur and Selected Slum areas of Kolkata
13. A Study on Quality of Life of Post-Stroke Survivors Attending Stroke Clinic of a Tertiary Care Hospital in Burdwan district, West Bengal
14. A Non-Randomised Controlled Study on Impact of Diabetes Self-Care Management Education on HbA1c Levels among Diabetes Patients of a Selected Slum Area of Kolkata
15. A Cross-Sectional study on Distress and Coping among Caregivers of Cancer Patients Attending Oncology OPD of a Tertiary care Hospital, Kolkata
16. A Community-Based Study on Unintentional Injuries among Elderly Residing in a Rural Area of Hooghly District in West Bengal
17. An Epidemiological Study on Diarrheal Diseases among 6 to 59 Months Children in a Slum Area of Kolkata
18. Health-Related Quality of Life among Chronic Obstructive Pulmonary Disease Patients attending an Out Patient Department in a Tertiary Care Hospital, Kolkata

Batch 2022-25:

1. Effect of Health Education on Perceptions regarding Breast Cancer and its Screening using Health Belief Model among Women of 18-30 Years in Singur, West Bengal
2. Role of Women Empowerment in Reproductive Health Status Among Women of Reproductive Age in a Rural Area of West Bengal
3. A Study on Quality of Life and its Associated Factors among Adult People Living with HIV attending an ART Centre, Kolkata
4. A Study on Morbidity Profile of Horticultural Workers in a Rural Area of South 24 Parganas District of West Bengal
5. A Cross-sectional Study on Nutritional status and Associated Factors among Adolescents in Singur, West Bengal
6. Assessment of Risk of Obstructive Sleep Apnea and Sleep Quality among Chronic Obstructive Pulmonary Disease Patients in Medical College, Kolkata
7. A Cross-sectional Study on Smartphone Addiction and Associated Health Effects among Undergraduate Students of a Government College in West Bengal
8. A Cross-sectional Study on Morbidity Profile and Health seeking behaviour among Bus Drivers Working in Government Bus Depots in Kolkata

9. A Cross-sectional Study on Morbidity Profile and Health Seeking Behaviour of Agricultural Workers in a Rural Area of West Bengal
10. A Mixed Method Study on Treatment Outcome of Tuberculosis Preventive Treatment among Household contacts of Registered TB Cases in a Selected TB unit of Kolkata District, W.B
11. A Community Based Mixed Methods Study on Modern Spacing Methods of Contraception among Eligible Couples in a Rural Area of West Bengal
12. A Mixed Method Study on Premenstrual Syndrome and Its Association with Quality of Life among Students of a University in Kolkata
13. Assessment of vulnerability to abuse among elderly residing in a rural area of West Bengal, a community based mixed methods study
14. A Study on Evaluation of Flood Preparedness in a Selected Block of Jalpaiguri District, West Bengal
15. Assessment of Climate Anxiety and Associated Factors Among Adults Residing in a Riverine Area of Sundarbans, West Bengal
16. A Study on the Morbidity Profile of Traffic Police Personnel of Kolkata, West Bengal

Short Studies:

December 2022 to November 2023: 37 short studies were completed during this period

1. A Study on Perceptions Regarding Cervical Cancer and HPV Vaccination Using the Health Belief Model Among Women of the Reproductive Age Group in a Rural Area of Hooghly District
2. A Study on Water, Sanitation and Hygiene Facilities and Morbidities Among School going Children in a Rural Area of Singur, West Bengal
3. Assessment of Knowledge regarding the Nutritional Information of Food labels among the migrant Tamil population residing in an urban area of Kolkata, West Bengal
4. A Study on Knowledge & Attitude of Medical Students Regarding Lesbian, Gay, Bisexual, and Transgender (LGBT) Community in a Teaching Hospital of Kolkata
5. Prevalence of Polypharmacy and its Association with Health-Related Quality of Life in Pre-Elderly Population of Urban Slum of Kolkata: A Cross Sectional Study
6. A Cross-sectional Study on the Respiratory Morbidity among Seed Processing Unit Workers in Hooghly district, West Bengal
7. A Study on Knowledge, Attitude Practice & Readiness to manage Domestic Violence among Intern Doctors in a Tertiary Hospital of Kolkata, West Bengal

8. A Study on Knowledge and Awareness Regarding Breast Cancer and Perception Towards Screening Among Women in an urban slum area of Kolkata, West Bengal
9. Assessment of Satisfaction of Using Socially Marketed Health Consumables at Government Settings among Beneficiaries in a Rural Area of Hooghly, West Bengal
10. A Study on Association Between Problematic Smartphone Usage and Cognitive Emotion Regulation Strategies Among Adolescents Girls in a school of Jhargram District, West Bengal
11. Burden of oral precancerous lesions and its associated factors among truck lorry drivers in Kolkata, West Bengal
12. Effect of Stress on Sleep Hygiene Among 15-18 Years Students of a School in Urban Area of Burdwan, West Bengal: Cross- Sectional Study
13. Successful Ageing and its Determinants; a Community Based Cross-Sectional Study Among Elderly Residents In a Rural Block of Bengal
14. Cross sectional study on intention and attempt to quit tobacco among current adult tobacco users of a rural area of West Bengal
15. A cross-sectional study on cardiovascular risk and its associated factors among residents above 40 years in Singur, West Bengal
16. A Study on Frailty and Its Associates Among Elderly Residing in an Urban Slum of Kolkata, West Bengal
17. Motivation Among Community Health Officers (CHOs) in South 24 Parganas District in West Bengal: A Cross- Sectional Study
18. A Study on Self-Medication Practices among Adult Patients Attending Out Patient Department in an Urban Slum of Kolkata
19. A Study on Association between Learning Environment and Self-Directed Learning Readiness among Students studying in a Public Health Institute in Kolkata
20. Screen Time and its Associated Factors among School Going Adolescents in a Rural Area of Hooghly District: A Mixed Method Study
21. A Community-based Cross-sectional Study on Heat-Related Illness and Adaptations among Farmworkers in A Rural Community of Singur Block, West Bengal, India
22. A Study on the Quality of Life of Leprosy Patients Attending Regional Leprosy Training and Research Institute, Gouripur in West Bengal
23. A Study on Period Poverty among Female Beedi rolling workers in the Selected Rural Area of South 24 Parganas, West Bengal
24. Study on Clinical Patterns of Deformities and Disabilities and Their Relationship with Psychological Health Among Leprosy Patients in a Village in Bankura

25. Relationship of Working Status of Rural Adult Women with Their Mental Health: Mixed Methods Study in a Rural Block of West-Bengal
26. A Study on Determinants of Individual-Level Double Burden of Malnutrition Among Women in an Urban Slum of Chetla
27. Nutritional Status and its Determinants among Under-5 Children in Brick- kilns of a rural area of Hooghly district, West Bengal- a Mixed Method Study
28. Exploring the Awareness and implications of Noise Hazards on Shopkeepers and Street Vendors in Market area of South Kolkata: A Cross Sectional Study
29. A Study on Factors Influencing Self-Compassion and its Relation with Resilience among Nursing Students in Rural Area of Singur, West Bengal
30. Heat related illness and coping mechanism among the street vendors working in a Slum area of South Kolkata-A Community-based Cross-sectional study
31. A cross sectional study on musculoskeletal discomfort and its determinants among agricultural workers in a rural community of West Bengal
32. Self-care practice and its predictors amongst Type-2 Diabetes Mellitus patients in the outpatient department of a Rural health unit and training center of Kolkata, West Bengal- A cross-sectional study
33. Sense of Grip on Disease (SOGOD) & Its Associates Among PLHIV Visiting an ART Center of Tertiary Care Hospital of Kolkata
34. Development and Validation of a life-skill score scale for adolescents at selected schools of Kolkata, West Bengal: A Mixed-methods Study
35. Ergonomic Risk Factors and their Association with Musculoskeletal Disorders among Automobile Garage Workers in Chetla, Kolkata: A Cross Sectional Study using Rapid Upper Limb Assessment
36. Disaster Preparedness Knowledge and Self Perceived Competence of Undergraduates of a Paramedical School in Rural Bengal
37. A Mixed Method Exploration of Multifaceted Stressors on Suicidal Ideation and Behaviour among School going Adolescents in a Rural Area of Hooghly District

- **Guidance of Research Work by Faculty**

- Dr Ranjan Das, Guide of 3 ongoing MD(CM) thesis work
 - Dr. Lina Bandyopadhyay: Guide of 2 ongoing MD (CM) thesis work and 1 MSc (Applied Nutrition)
 - Dr. Bobby Paul: Guide of 5 and Co-guide of 3 ongoing MD (CM), 2 PhD thesis work and 1 MSc (Applied Nutrition)

- Dr. Monalisha Sahu: Guide of 2 and Co-guide of 4 ongoing MD (CM) thesis work
- Dr. Madhumita Bhattacharya: Co-guide of 8 ongoing MD (CM) thesis work and Guide of 2 MSc (Applied Nutrition)
- Dr. Rivu Basu, Co-guide of 7 ongoing MD (CM) thesis work

Conference/Seminars/Workshop Attended

Dr Ranjan Das, Dr B Paul, Dr L Bandyopadhyay, Dr M Sahu and Dr R Basu attended Annual National Conference of Indian Public Health Association IPHACON (7th to 9th April 2023) in Kolkata

Dr B Paul and Dr L Bandyopadhyay attended Asia Pacific Organisation for Cancer Prevention, Conference on Cancer Prevention (APOCP 11) on 8th -10th December 2022 at Biswa Bangla Convention Centre, Kolkata,

Dr Ranjan Das, Dr B Paul, Dr L Bandyopadhyay, Dr M Sahu and Dr R Basu attended Annual Conference of Indian Association of Preventive and Social Medicine IAPSMCON West Bengal Chapter (September 8th and 9th, 2023) at IPGME&R and SSKM Hospital

Dr Ranjan Das, Dr L Bandyopadhyay, Dr M Sahu and Dr R Basu attended Annual Conference of Indian Public Health Association IPHACON (West Bengal Chapter) from 5th to 6th August 2023 in Kolkata.

Dr L Bandyopadhyay attended Association for Prevention and Control of Rabies (APCIRCON 23) in India held on 8th & 9th July 2023 at ITC Royal, Kolkata .

Dr Ranjan Das and Dr R Basu attended Public Health Conclave organized by Indian Public Health Association (28th September 2023) in Kolkata

Dr. Monalisha Sahu (activities covered under OH department)

Dr. Madhumita Bhattacharya (activities covered under MCH department)

Dr Rivu Basu attended the Indian Public Health Association The 182nd Central Council meeting of IPHA on 22nd July, 2023 at 12.00 PM at ICMR-RMRC, Bhubaneswar, Odisha in the capacity of Joint secretary (East) of IPHA

Membership of Committees

- Dr Lina Bandyopadhyay is Chairperson of Swachh Bhart Committee (SAP), and Nodal Regional Officer for NCDC Development and Establishment Committee, , executive member of IAPSM.

Dr. Bobby Paul is the member of Institutional Ethics Committee of IPGME&R and SSKM Hospital, D N De Homeopathic Medical College, Govt. of WB and Indian Institute of Chemical Biology, Govt. of India and editor of Journal of Compressive Health.

Dr. M Bhattacharya (activities covered under MCH Departments)

Dr. Monalisha Sahu (activities covered under OH department)

Dr. Rivu Basu is the member of Managing Editor, Journal of Comprehensive Health, Joint Secretary (East), Indian Public Health Association, State Nodal Officer of Sub National Certification of TB Elimination, West Bengal, Joint Secretary of IPHACON 2023 and Faculty Mentor of IAPSM Fellowship in Public Health Leadership Course, Research Methodology

Examiner

- **Dr. B. Paul was**

Convenor and Examiner of MD (Community Medicine) Examination 2023 conducted by WBUHS Kolkata.

External examiner of Final Professional Part 1 MBBS Examination at Guwahati Medical College from 5th to 8th April 2023

Examiner of MD (Community Medicine) Examination 2023 at AIIMS Jodhpur from 13th-14th June 2023

Worked as PhD Entrance Examination Paper setter appointed by WBUHS in January 2023

- **Dr. L Bandyopadhyay was**

External examiner of MBBS 3rd professional Part 1 MBBS Examination at Hi -Tech Medical College & Hospital, Rourkela from 18th -21st January 2023

External examiner of MBBS 3rd professional Part 1 (supplementary) Examination at Guwahati Medical College on 13th July 2023

- **Dr. Monalisha Sahu :** Activities covered under OH department

Training Received:

Dr B Paul completed online training on Implementation Research (IR) with a focus on Infectious Diseases of Poverty (IDP) from on June 19th , 2023 to July 30th ,2023

Dr. Monalisha Sahu (activities covered under OH department)

Field Activities/Programmes:

- Three Junior Residents were involved as external monitors in monitoring Pulse Polio SNID May'23 Programme at High-risk Wards of Kolkata organized by

National Polio Surveillance Project (Kolkata unit), WHO on 29.05.2023, 30.05.2023 and 01.06.2023

- Mixed Methods Research workshop is the flagship programme of the Department of PSM. It was conducted from January 9th to January 11th, 2023 with a pan India participation of 30 participants
- Two Day Annual Review Meeting of Regional Offices, MoH&FW, from 18 States concluded at AIHPH Kolkata on 23.02.2023 and 24.02.2023 which was organised by the Department involving 18 Sr RDs. A host of dignitaries DGHS Prof Atul Goel, JS, Dr Harmeet Singh, Additional DG Dr Anil Kumar, Additional DDGs Dr Nikhil Chandra & Dr Bina Sawhney, ADG Dr Manas Pratim Roy were present.
- An awareness program on Swachh Bharat Mission was conducted among 40 migrant labourers of a Brickfield under RHU&TC, Singur on 06.03.2023.
- An awareness program on Swachh Bharat Mission was conducted among 60 school children of Nanda Primary School, Singur on 14.03.2023.
- Technical support was provided to 6 districts of West Bengal by two faculty members Dr Lina Bandyopadhyay, Dr Monalisha Sahu and five(5) 3rd year PGTs for surveillance activities for Mass Drug Administration (MDA) for Filaria elimination in March 2023.
- **Village Adoption Programme:** This is a novel initiative by the Department of PSM initiated from August 2023 onwards wherein Khosalpur village under Balitipa sub-centre, Singur has been adopted and a series of activities have been conducted and will be continued in future with a vision to make Khosalpur a model health village.
- **Three NCD camps** have been conducted in Khosalpur village as a part of the Village Adoption Programme on 19.09.2023, 17.10.2023 and 28.11.23 involving 90, 85 and 71 patients respectively. Regular health check-ups, routine blood investigations and one to one counselling were a part of the NCD camps.
- **An awareness programme on Non-Communicable Diseases** was conducted as a part of the Village Adoption Programme on 22.09.2023 involving 50 participants.
- As a part of the Village Adoption programme, **International day of Older Persons** was celebrated in Balitipa Health centre of Khosalpur village on 29.09.2023 involving 40 participants.
- **Capacity Building Training on Hospital Preparedness during Public Health Emergencies:** Two rounds of this training have been conducted from 07.08.2023 to 12.08.2023 and 09.10.2023 to 14.10.2023 with participants from West Bengal, Tripura, Bihar in the first round [28 participants] and Mizoram, Assam and Arunachal Pradesh in the second round [30 participants]. The trainings were hugely successful with involvement of the NDRF team in conducting mock drills for disaster preparedness and various field visits were also arranged for the participants. Many of the participants have started working on a disaster management plan back in their districts.
- The 3rd MD CM and MD MPH (Epidemiology) Pgts (21 in number) attended two days training programme on Leprosy on 12th to 14th December 2022 at RLTRI, Gauripur

- The MD CM 2nd year PGTs [12 in number] were sent on an intensive training on Neglected Tropical diseases at RLTRI, Gauripur from 04.09.2023 to 06.09.2023.
- Junior Residents [18 in number] were taken to an educational visit to Port Health Organisation on 19.07.2023 to have a basic understanding of the structural organisation and functioning of PHO.
- An academic visit was organized for Interns and Pgts of Eastern Command Hospital on 06/10/23 for orientation to Public Health Institutions
- World Tsunami Day was observed at Raidighi rural hospital on 03.11.2023 in collaboration with Occupational Health Dept involving 50 participants.
- GIS Workshop was conducted by Dr Rivu Basu with the help of 2nd year PGTs at RHU&TC, Singur on 17.10.2023 with an objective to inculcate geotagging in Dengue Surveillance. Dr Ram Bhunia, CMOH, Hooghly chaired the programme. The programme involved around 25 participants which included the BMOH of Singur rural hospital, Block data managers, Block epidemiologists, Block Public Health Managers, PHNs and DEO.
- Dr B Paul and Dr L Bandyopadhyay conducted one training programmes at CINI, Kolkata Unit among Health personnel and mothers of under 5 children on 4th September 2023 at CINI Kolkata during Nutrition Week 1st to 7th September 2023.
- Dr B Paul and Dr L Bandyopadhyay conducted one training programmes at CINI, Kolkata Unit among Health personnel and mothers of SAM children on 30.11.23 at CINI Kolkata on Maternal and Child Nutrition in first 1000 days of life.

Awards:

- Dr Bobby Paul received FAIMER fellowship at PSG FAIMER Medical Institute, Coimbatore on 30th January 2023
- Dr Madhumita Bhattacharya (covered under MCH department)
- Dr. Monalisha Sahu (covered under OH department)
- Dr Rivu Basu Received
 - “SD Gaur Best Paper Award” at IPHACON 2023
 - Fellowship of IPHA
 - FAIMER fellowship at CMC, Ludhiana

The postgraduate residents attended and presented papers at National IPHACON which was held at Biswa Bangla Convention Centre, Kolkata from 07.04.2023 to 09.04.2023 and also the State WB-IAPSMCON which was held at IPGMER and SSKM Hospital on 08.09.2023 and 09.09.2023. The junior residents won awards in several categories as mentioned below:

Other Special Activities Performed:

Name	Award Received
Dr Soumik Ghosh	Best oral presentation in Public Health Nutrition, Reproductive and Maternal health category at National IPHACON 2023. First prize in Journal club competition at National IPHACON 2023 Akalanka Bhandari Award Grant for Best Research Proposal at WBIAPSMCON 2023
Dr Ankur Chaudhari	Topper in Poster (Miscellaneous category) at National IPHACON 2023
Dr Sayantika Barman	Topper in Poster (Miscellaneous category) at National IPHACON 2023
Dr Shruvajit Roy	Topper in Poster (Miscellaneous category) at National IPHACON 2023
Dr Sujith Surendran	Topper in Poster (Child and adolescent health category) at National IPHACON 2023
Dr Akash Dasgupta	Topper in Poster (Climate change, environment and occupational health category) at National IPHACON 2023 Best Poster in ICC National Occupational Health and Safety Poster Competition for Young Minds at 5 th ICC National Occupational Health and Safety Conference and Awards held at Kolkata on 22.09.2023
Dr Gurusanganabasava Hawaldar	Topper in Poster (Mental and Geriatric health category) at National IPHACON 2023
Dr Kishore Eswaramoorthi	Second Prize in Journal Club competition at National IPHACON 2023
Dr Sandipta Chakraborty	Third prize overall among all poster categories at National IPHACON 2023

- **Dr B Paul**

1) Scientific committee member and Judge of poster presentation of International APOCP Conference from 8th to 10th December 22 at Biswa Bangla Convention Centre, Kolkata

- 2) Presented Oral paper on “Barriers to Cancer Screening Uptake under NPCDCS Programme in North East India: Formative Research Results” on 9th December 2022 at APOCP Conference
- 3) Invited guest lecture on “Multidisciplinary Research Protocol” (online mode) at National Conference on Multidisciplinary Research :An approach to Sustainable Health Care Solutions organized by MGM Institute of Health Sciences on 20/12/2022
- 4) Judge for oral presentation at Regional Science and Technology Congress organized by DST, Govt of WB at Maulana Azad College on 4th and 5th January 2023
- 5) Resource person at 4th MMR workshop at AIIMS Jodhpur involving 20 participants from 19th to 21st January 2023
- 6) Nodal Officer for CB PHEM for 7 states from January 2023 onwards
- 7) Member of Leprosy Technical Research group, Central Leprosy Division from May 2023 onwards
- 8) Panelist in a panel discussion on Role of Medical Colleges in implementing National Strategic Plan in Leprosy organized by Central Leprosy Division at Faridabad on 31st March and 1st April 2023
- 9) Monitored LCDC activities at Chandigarh from 31st July- 2nd August 2023.
- 10) Worked as member of ICMR Project Screening Committee for Intramural Projects in Communicable Diseases in August- September 2023
- 11) Attended 2 days National Workshop for SLOs of High Priority Leprosy States/UTs in New Delhi on 23-24 November 2023 organized by Central Leprosy Division and chaired one session
- 12) Resource person at Preconference CME at WBIAPSMCON on 7/08/23 at College of Medicine and Sagore Dutta Hospital, Kolkata and Annual State Homeopathy Conference at DN De Homeopathy Medical College, Kolkata on 25th Nov 2023
- 13) Judge of Journal Club Competition at National IPHACON on 09/04/23 at Biswa Bangla Convention Centre, Kolkata

- **Dr L Bandyopadhyay**

- 1) Technical support was provided to Bolpur Block of Birbhum District West Bengal for surveillance activities for Mass Drug Administration (MDA) for Filariasis elimination in March 2023.
- 2) Worked as Nodal person for technical support and attended several meetings with MOH&FW, GOI and State authority, WB on several occasions.
- 3) As Chairperson of a Scientific Session on the topic of “Implementation of ICMR - STWs for improving population health - An Approach to UHC”, attended the 67th

Annual National Conference of Indian Public Health Association 2023(IPHACON) held at Biswa Bangla Convention Centre from 7th to 9th April 23

- 4) Contributed as a Resource Person in "Training Program on Occupational safety and Health" at Pan Seed- Processing plant, Purba Bardhaman on 13th June, 23
- 5) As Chairperson of AKAM Committee , organized and coordinated the International Yoga Day at RHU&TC, Singur Campus on 21st June 2023 involving the school students and staffs in collaboration with Heartfulness Meditation Institute, Kolkata
- 6) Coordinated the felicitation program as Chairperson of Azadi ka Amrit Mahotsav and felicitated the Padmashree awardee specially Prof (Dr) Indira Chakravarty and Prof (Dr) Mahendra Pal on 14th August 2023
- 7) As Chairperson of AKAM committee observed World Environment Day 2nd June 23 and Blood donation camp on 8th August 2023
- 8) Contributed as Resource person at "Awareness program on Occupational Hazard and Hands-on First Aid Training at Pan Seed Processing plant", Purba Bardhaman on 12 Sept 2023
- 9) As Chairperson of Swachh Bharat Committee, organized & participated in Shramdan on Swachhata on 2nd October, 23 at AIIPH&PH, Main Campus.
- 10) As Chairperson attended the Program of IPHA on World AIDs Day 1st Dec 23 held at AIIPH&PH, Kolkata.
- 11) Resource person in two rounds of CB PHEM Training Programme at AIIPH, Kolkata conducted from 07.08.2023 to 12.08.2023 and 09.10.2023 to 14.10.2023

- **Dr Madhumita Bhattacharyya** (activities covered under MCH department)
- **Dr. Monalisha Sahu** (activities covered under OH department)
- **Dr Rivu Basu**

Delivered lecture on "Managing Health Systems: An organic Approach" by IAPSM e-connect on 23.06.2023

Delivered Lecture on "Sampling Techniques" as a part of the Research Methodology workshop by IAPSM on 12.10.2023

Facilitated participants in the Fellowship on Public Health Leadership by IAPSM on October 2023



3rd National Level Mixed Methods Research Workshop (09.01.2023 to 11.01.2023)
conducted with 30 participants from 10 states.



Swachh Bharat Activities at Brickfields (06.03.2023) and Primary School (14.03.2023)
held under Swachh Bharat Mission.



Various activities as a part of the Village Adoption Programme at Khosalpur village, Singur which is a new flag ship programme undertaken by Department of PSM.



National Level Capacity building Training on Hospital Preparedness during Public Health Emergencies in collaboration with DM Cell, MoHFW



Junior Resident working as external monitors deputed by WHO in Pulse Polio Surveillance programme (SNID May 2023)



Faculties and JRs participated as monitors of MDA survey for filariasis in collaboration with Swasthya Bhawan , Govt. of West Bengal.



Observation of World Tsunami Day at Rai Dighi Rural Hospital on 03.11.2023 in collaboration with Occupational Health Department involving 50 Health Personnel.

OCCUPATIONAL HEALTH

Introduction

The Occupational Health Department, AIIHPH Kolkata has been a trailblazer in occupational health, which is concerned with preventing and managing health risks from work and the environment. The department of Occupational health was established at the AIIHPH Kolkata in 1949, and the Diploma in Industrial Health (DIH) program was launched in the same year. Since then the department has been consistently producing well-trained, knowledgeable, and competent medical officers for Indian industries. These medical officers have been delivering excellent services in various economic sectors, such as coal, cement, mines, oil exploration, paint, ports, airports, nuclear establishments, and railways. The department has also been instrumental in conducting research on occupational health hazards and developing guidelines for their prevention. Furthermore, the department has played a pivotal role in raising awareness of occupational health issues among employers and workers.

The AIIHPH Kolkata has also been involved in various short training programs and workshops on occupational health for medical professionals, officials, frontline health workers and community. Thus, the AIIHPH Kolkata has made significant contributions to the evolution of occupational health scenario in India, and has been a leader in promoting Occupational And Industrial Health in the country.

Teaching Activities

- Faculty of this department is continuously involved in teaching and field training of students of all regular courses conducted by the Institute (viz.- M.D., D.H.P.E., M.P.H., P.G.D.P.H.M., M.V.P., M Sc MCH, M Sc H P E, Dip.Diet. and M.Sc.-Applied Nutrition courses)
- **Short Training Programmes Conducted**
 - One day Training program on “Occupational health practice” for 50 qualified Nurses at Ramkrishna Mission Nursing college, Behala on 29th April 2023
 - One-day educational visit to AIIH&PH and Seminar on ILO Radiographs for the AFIH-2023 trainee doctors (30 candidates) of Regional Labour Institute Kolkata on 17th May 2023
 - Training programme on “Personal Protective Equipment” for seed processing unit at Purba Bardhaman (50 workers) on 13th June 2023
 - Training program on “Prevention of Occupational Hazards and Industrial Ergonomics in Aeronautical industry at Hindustan Aeronautics Limited (HAL), Barrackpore division, for 50 aeronautical engineers and technicians on 05th September 2023
 - Department of Occupational health conducted Occupational Safety and First Aid Training for Staffs (35 in number) at Seed Processing plant in Purba bardhaman on 12/09/2023.

- **Other Regular Activities**

- Faculty members from this department are included in various academic, field, and administrative committees of this Institute.
- The department has conducted numbers of on-site/field training programmes for the skill building of Medical Officers as well as for workers engaged in different hazardous processes in Industries including unorganised sectors.

- **New Initiatives**

- A proposal for starting Post Graduate Certificate Course in Industrial Health – Associate Fellow of Industrial Health”. (A.F.I.H.) is sent to DGHS. The course shall be conducted as per guidelines by the Directorate General Factory Advice Service & Labour Institutes (DGFASLI), Government of India, Ministry of Labour & Employment, Mumbai Faculty
- Actions initiated to revive ‘Occupational Health Laboratory’ through procurement of new equipments necessary for the evaluation occupational hazards viz Noise, Illumination, Heat, vibration, etc.
- Future proposal for starting Certificate course in Occupational and environmental health in phygital mode.
- Technical collaboration in the field of Occupational Safety & Health with Regional Labour Institute for academic collaborations.
- Future proposal for collaborations with NCDC for Basic Occupational Health Services.

Faculty:

	<p>Dr. Monalisha Sahu MBBS, MD</p> <p>Associate Professor and acting Head (Occupational Health)</p>	<p>E-mail: sahumonallisha@allhph.gov.in</p> <p>Mobile No.: 9873927966</p> <p>Area of expertise: Occupational & Environmental Health, Climate Change & Health, Maternal Infant and Young Child Nutrition, Indigenous Health</p>
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	Dr. Nandini Bhattacharyya Senior Medical Officer MBBS, DIH	E-mail: nbhattacharyya640@gmail.com Mobile No.: +91 9143036926 Area of expertise: Occupational Health
	Dr. Sibnath Banerjee Assistant Professor (From 07/12/2022) M. Sc. (Chemistry); Ph. D.	E-mail: snb301259@gmail.com Mobile No.: +91 87671 73248 Area of expertise: Analytical Chemistry, Industrial Hygiene.
	Dr. Bismita Nath General Duty Medical Officer, MBBS	E-mail: nathbismita@gmail.com Mobile No: 91 9123945861 Area of expertise: Occupational Health Illnesses

Other Members:

Post/Category	Number	Activities performed
Laboratory Technician (Mr. Pradip Roy)	1	Lab activities
Stenographer (Anushree Kundu)	1	Secretarial Assistance
MTS (Mr. Debjit Sarkar)	1	Support Service

Publications:

1. Measuring Impact of Climate Change on Indigenous Health in the Background of Multiple Disadvantages: A Scoping Review for Equitable Public Health Policy Formulation| Journal of Prevention| Monalisha Sahu, Biswadip Chattopadhyay, Ranjan Das, Sakshi Chaturvedi

2. A Critical Take on Sustaining Precautionary Behaviors for COVID-19| Medical Journal of Dr D Y Patil Vidyapeeth|Madhumita Dobe, Arista Lahiri, Monalisha Sahu, Sweety Suman Jha
3. A study on risk perception, cognitive awareness and emotional responses to identify unmet training needs of frontline health care workers for COVID-19 containment in India| South Eastern European Journal for public Health|Madhumita Dobe, Monalisha Sahu, Chandrashekhara Taklikar, Shibani Dutta
4. Details of some other publications with details of Dept of PSM

Research Work:

- **Dr. Monalisha Sahu acted as:**

- PI in Ford Foundation Grant “Solastalgia and Quality of Life in People Residing on the Fringes of Climate Change and Environmental Disruptions in the Sundarbans: A Mixed Method Study”
- Co-PI for “Health ageing for indigenous communities in India and Sweden with focus on nutritious and culturally adequate food provision.
- She served as Guide for thesis and short projects for following Occupational and environmental health research for MD CM students (For Dept of PSM):
 - ❖ Thesis Guide for MD CM Thesis titled “Assessment of Climate Anxiety and Associated Factors Among Adults Residing in a Riverine Area of Sundarbans, West Bengal”
 - ❖ These Guide for MD CM Thesis titled “A Study on The Morbidity Profile of Traffic Police Personnel of Kolkata, West Bengal”
 - ❖ Project Guide for MD CM Short project titled “Heat Related Illness and Coping mechanisms among Street Vendors working in a Shum area of South Kolkata- A Cross-sectional Community-based Study”
 - ❖ Project Guide for MD CM Short Project titled “Noise hazard awareness among street vendors and evaluation of Noise levels in the market areas of North Kolkata: A cross sectional study”
 - ❖ Project Guide for MD CM Short Project titled “A Community-based Cross-sectional Study on Heat-Related Illness and Adaptations among Farmworkers in a Rural area of Singur Block, W.B”
 - ❖ Project Guide for MD CM Short Project titled “Motivation Among Community Health Officers (CHOs) in South 24 Pargana District in West Bengal: A Cross-Sectional Study”
 - ❖ Project Guide for MD CM Short Project titled “Morbidity profile in Seed processing Unit workers”.
- She also served as Thesis Co-guide & Short Project guide/Co guide for few other short projects shared with Dept of PSM

Conference/Seminars/Workshop Attended

- **Dr. Monalisha Sahu**

- **Attended the Golden Jubilee Annual Conference of the Indian Association of Preventive and Social Medicine (IAPSM) held from 2nd to 4th February 2023 held at NIN Hyderabad**
- **Attended Annual review meeting of Regional Offices from 23rd to 24th February 2023 at AIHH&PH, B.N.Campus, Kolkata**
- **Attended Annual review meeting of all Point of Entries (POEs) meet at Tiruchirappalli, Tamilnadu.**
- **Virtually Attended Environment Health Cell Working Group meeting hosted by Min. of Environment, Forests & Climate change**
- **Annual National Conference of Indian Public Health Association IPHACON (7th to 9th April 2023) in Kolkata**
- **Annual Conference of Indian Association of Preventive and Social Medicine IAPSMCON West Bengal Chapter (September 8th and 9th, 2023) at IPGME&R and SSKM Hospital**
- **Annual Conference of Indian Public Health Association IPHACON (West Bengal Chapter) from 5th to 6th August 2023 in Kolkata.**
- **Attended HOPECON 2023 held at ITC Royal, Kolkata.**
- **Attended a one-day workshop on National Standards for Civil Service Training Institutions (NSCSTI) organized by Capacity Building Commission (CBC) at SKIPA, Ranchi.**
- **CME program on Occupational Health by Indian Association of Occupational Health Kolkata**
- **Virtually Attended National Consultation On “Air Pollution and Health in India - Actions for moving forward on Science, Policy, Programme and Community engagement” Friday, 17 November 2023 All India Institute of Medical Sciences (AIIMS), New Delhi**
- **Attended the Bengal Global Business Summit BGBS 2023 on 22nd November 2023 at the Dhono Dhanyo Auditorium, Kolkata.**

Membership of Committees

- **Dr. Monalisha Sahu**

- **Member, Core Group on Right to Food and Nutrition, National Human Rights Commission**
- **Member, International Commission on Occupational Health Scientific Committee for Occupational Medicine, Construction workers & Health Workers.**
- **Member, ICC National Occupational Health, Safety & Environment (OHSE) Committee for the year 2023**

- Participated as panelist in the panel discussion on “Role of Industry for Safe Road and Safe Mobility” at Conference on Road Safety held on 27th July, 2023 in Kolkata by Indian Chamber of Commerce.
 - Member of National MIYCN Core Committee of IAPSM,
 - Editorial Board Member for PLOS ONE, South Eastern European Journal of Public Health, Journal of community Health & Indian Journal of Hygiene and Public Health.
 - Member of six different institutional committees like IEC, CC, Faculty council, website committee etc
- . **Dr. Nandini Bhattacharyya**
 - Act as Ladies Hostel Warden and Library-in-charge
 - Nodal officer of Swachhta monitoring cell
 - Member-Secretary of Preventive vigilance committee, Canteen committee and Computer committee.
 - Member of another eleven-committee including Internal complaint committee (Sexual harassment)

Examiner

- **Dr. Monalisha Sahu acted as**
 - Examiner for AFIH-2023 Practical Examination at RLI-Kolkata.
 - Examiner of PGDPHM Exam 2022-23
 - Centre In charge and Practical Examination for DHPE Exam
- **Dr. Sibnath Banerjee acted as an**
 - Examiner for AFIH-2023 Practical Examination at RLI-Kolkata.

Training Received:

- Dr M Sahu completed training on “Emergency Care” offered by MMHRC Madurai, Tamil Nadu
- Orientation Program on application of Digital Solutions & Technology in Healthcare & Research organized by WBUHS.
- “Learning for a Sustainable Future by University of Edinburgh in online mode.

Field Activities/Programmes:

- Awareness programme for prevention of occupational hazards in Bidi rolling workers of Sighevery and Rupnarayan Village, Singur, Hooghly on 10th March, 2023.
- Awareness programme on Swachh Bharat Mission at Janakalyan Samiti, Singur block in collaboration with RHUTC Singur on 10th March, 2023.
- Awareness programme on “World Tsunami day” on 03/11/2023 at Raidighi, South 24 Parganas.

Awards:

- Dr. Monalisha Sahu
 - Received “IAPSM Ford Foundation Grant” at IAPSMCON 2023
 - Received Best speech at Hindi Pakhwara celebrations 2023

Other Special Activities Performed:

➤ Dr. Monalisha Sahu

- 1) Scientific committee member and ‘Judge’ of Oral presentations at National IPHACON on 09/04/23 at Biswa Bangla Convention Centre, Kolkata 67th Annual Conference of IPHA 2023 held at Kolkata as Scientific committee member and chair for oral paper session
- 2) Technical support was provided to Sonamukhi Municipality Block of Bankura District, West Bengal for surveillance activities for Mass Drug Administration (MDA) for Filaria elimination in March 2023.
- 3) Co-chairperson for inauguration programme Annual review meeting of all Point of Entries (POEs) meet at Tiruchirappalli, Tamilnadu.
- 4) Panelist in a panel discussion on Impact of clean water hygiene & sanitation in fighting NCDs & chronic Water Borne diseases organized by IHW Council at ‘Jal Jeevan conclave’ on world water day 22nd March 2023
- 5) Served as panelist for 5th ICC National Occupational Health Conference, discussing the crucial topic of ‘Building Competitiveness for a Safe Workplace’ where emphasized on the ‘Importance of mental wellbeing at Workplaces’.
- 6) Served as a jury member for the Industrial Awards for 2023 recognizing best practices in Occupational Health and Safety.
- 7) Judge for Young Mind Poster Competition 2023 for 5th ICC National Occupational Health Conference
- 8) Served as Resource person for Capacity Building Training on Hospital Preparedness during Public Health Emergencies: Two rounds of this training have been conducted from 07.08.2023 to 12.08.2023 and 09.10.2023 to 14.10.2023 with participants from

West Bengal, Tripura, Bihar in the first round [28 participants] and Mizoram, Assam and Arunachal Pradesh in the second round [30 participants].

9) Felicitated by IMA, Behala on International Women's Day.

10) Attended BIMAWOMBCON 2023 as Moderator & Chair for scientific sessions on Vit D and its role in fertility & long term management of Endometriosis

➤ **Dr. Sibnath Banerjee**

- 1) Contributed as Resource person at "Awareness program on Occupational Hazard and Hands-on First Aid Training at Pan Seed Processing plant", Purba Bardhaman on 12 Sept 2023
- 2) Contributed as Resource Person one day Training program on "Occupational health practice" for qualified Nurses at Ramkrishna Mission Nursing college, Behala on 29th April 2023
- 3) Contributed as Resource Person One-day educational visit to AIHH&PH and Seminar on ILO Radiographs for the AFIH-2023 trainee doctors of Regional Labour Institute Kolkata on 17th May 2023

Training Programme on Usage of Personal Protective Equipment in Seed Processing Unit at Purba Bardhaman (13/06/2023)



Training Programme on Prevention of Occupational Hazards and Ergonomics at Hindustan Aeronautics Limited (HAL), Barrackpore division (05/09/2023)



Training program on "Occupational health practice" for qualified Nurses at Ramkrishna Mission Nursing college, Behala (29/04/ 2023)



Training Programme on Occupational Safety and First Aid at Seed Processing plant in Purba bardhaman (12/09/2023)



Awareness Programme on Prevention on Occupational Diseases in Bidi Rolling Workers of Singur(10/03/2023)



IAPSM Ford Foundation Research Grant and Related Field Work in Raidighi, Sundarbans



EPIDEMIOLOGY

Introduction

The Department of Epidemiology was established along with the formation of the Institute in 1932. The Department is the First Institute/College having a separate Epidemiology Department in India.

The department has played significant role in the development of the discipline of epidemiology and of community health in broader sense. The department has been pioneer in carrying out General Health Survey in the population of its rural field practice area in Singur, Hooghly District West Bengal. The department had been involved in identifying the problem of Arsenicosis as a major public health problem in the country. The department has been involved in carrying out many surveys. Lal RB, Roy SC had conducted investigation of epidemic dropsy in 1930. Work was done on chronic arsenic toxicity from drinking water from tubewells in rural West Bengal in 1980s. The Sonagachi Project launched in 1992 by the Dept. in Sonagachi red light area of Kolkata, has evolved into a multi-faceted community effort to empower sex workers (particularly women) in ways that go beyond HIV prevention. The Sonagachi Project has been identified as a World Health Organization (WHO) model.

The department has been the nodal department in monitoring and supervision of HIV sentinel surveillance in West Bengal and North Eastern States of India. It is also the nodal dept. for IDSP (TOT) and Field Epidemiology Training Program (FETP) in North Eastern States and West Bengal.

The Department practices epidemiology as a broad scientific discipline, addressing the occurrence of disease and the distribution of health status in populations. By integrating causal concepts at the molecular, cellular, clinical, and social-environmental levels, our faculty work to maintain an intellectual environment that facilitates the integration of biological, social, and analytic approaches. Within such an environment, faculty and students are able to develop the breadth of knowledge necessary to appreciate fully the complexities of the biosocial systems that we seek to understand and modify. The department strives to better understand the burden and causes of health problems in human populations, and to make changes that decrease risk and improve health.

The Mission of the Department of Epidemiology at AIH&PH is to contribute to the reduction of the disease burden in human populations through research, education, and service. The research mission is met by study into the risk of disease associated with inherent, acquired, social, or environmental factors, and the development and application of methods to alleviate that risk. These methods range from primary prevention through service provision to modification of social systems. Faculty and students pursue this research mission through research projects conducted both by individuals and by multi-disciplinary teams.

The educational mission includes the training of students to generate and interpret epidemiologic information, to synthesize it with other information, and to apply it to reduction of the disease burden. Graduates from the Department's research and training programs are prepared to develop their careers as independent researchers and health managers, and all

Departmental graduates are prepared to take up leadership positions in public and private agencies involved with health care or research.

Teaching Activities

- **Regular Courses Conducted:**

The department has introduced three years MD (MPH-Epidemiology) course from 2016, which is now a regular NMC recognised MD course of the institute.

- **Regular Activities:**

- Departmental faculty take regular theory and practical classes as well as organize community based learning experiences to the Post Graduate students e.g. MD (MPH Epidemiology), MD (Community Medicine), MVPH, PGDPHM, DHPE, MSc (Applied Nutrition, MPH-MCH),DHS etc.

The Department faculty guided and supervised the core course students in conducting Community Diagnosis survey, Risk Factors of Non Communicable Diseases at Singur, Hooghly. The departmental faculty also provided guidance and supervision in Family Care program of core course students in UHU&TC, Chetla Kolkata.

New Initiatives

1. Initiatives taken for under graduate (MBBS) teaching assignments of students of MD (MPH Epidemiology) course conducted by this department in State Medical Colleges.
2. Initiatives taken for considering the MD (MPH Epidemiology) degree as essential qualification for selection/recruitment of all relevant “Public Health” posts/courses esp. for i) Public Health Specialists/Epidemiologists ii) Senior Residency and subsequent Teaching Faculty (Assistant Professors onwards) positions in departments of Community Medicine/Public Health/ Preventive & Social medicine etc. and iii) Any existing DM course where MD (Community Medicine) is eligible.

Collaborations

- Department is conducting IDSP Training in collaboration with CSU IDSP.
- Arrangement is underway to initiate new “One India FETP” program with “Frontline FETP”.

Faculty



Dr. Sanjoy Kumar
Sadhukhan
Director Professor
& Head
M.D.

E-mail: sdknsanjoy@gmail.com

Mobile No.: 9836287874

Area of Expertise: Epidemiology,
Research methods, Programme
Evaluation, Biostatistics.



Dr. Kiran Swapnil Akhade
Asstt. Prof.
M.D.

E-mail: kiranakhade2007@gmail.com

Mobile No.: 8087363852

Area of Expertise: MCH, Nutrition, Disaster,
Surveillance.

[Joined on 14.09.23]



Dr. Manas Kumar Kundu
Public Health Specialist (SAG) & Additional Director.
DPH MPH PhD
Email: kundum2000@gmail.com
Mobile: 9474994630
Area of Expertise: Surveillance, International Health Regulation

[2 days/wk]

Other Members

Designation	Number	Activities Performed
Stenographer	1	Secretarial Assistant
Lab. Attendant	1	Collection of Lab samples in the field & Supportive Services of dept.

Publications:

> Article:

1. Ghosh P, *Sadhukhan SK*, Dasgupta A, Paul B, Ghose S, Biswas A. Scourge of out-of-pocket expenditure on health: A study on its burden and predictors in a rural community of West Bengal. *J Family Med Prim Care* 2023;12:1576-81.
2. Akhade SP, *Akhade KS*, Chavli KH, Ranjan R. Comparison of burden of injury at a tertiary care centre of national importance: Pre-COVID-19 and COVID-19 era. *Indian J Community Med* 2023; 48:790-3.
3. Pandey P, Sinha S, *Akhade KS*. Effects of visible lights, photodermatoses and role of antioxidants in skin health. *Int J Res Med Sci* 2023; 11: 4272-6.

4. SarjuZilate RK , Naik C, Akhade K. Drug Prescription Trends in Neonatal Intensive Care Unit (NICU) at a Tertiary Care Private Teaching Hospital in Central India International Journal of Pharmaceutical and Clinical Research 2023; 15(9); 274-277

Attendance/Presentations in Conferences:

A. In 38th Annual State Conference of Indian Association of Preventive & Social Medicine: West Bengal Chapter (held at IPGMER Kolkata in September 2023)

1. Dr. Sanjoy Kr. Sadhukhan, Dir. Prof. acted as Judge of one Oral paper session on 08.09.2023

B. In 67th Annual National Conference of Indian Public Health Association (IPHACON), Kolkata, West Bengal [held in April 23]

1. Dr. Sanjoy Kr. Sadhukhan, Dir. Prof. acted as Judge of one competitive Oral paper session on 07.04.23
2. Dr. M. K. Kundu, Public Health Specialist (SAG) and Additional Director, attended as delegate.
3. Dr. Nandu Krishna and Dr. Mainak Mondal, [JR-MD(MPH Epidemiology)], attended as delegates.

C. In 4th Annual National Conference of Epidemiology Foundation of India (EFICON), Goa [held in October 2023]

1. Dr. Nandu Krishna [JR-MD(MPH Epidemiology)] Presented *paper* (Poster) entitled 'Knowledge about Vaccines, Attitude towards Emporiatrics and Pre-travel Health-Seeking Behaviour among the Indians Travelling abroad attending a Yellow Fever Vaccination Centre in Kolkata'

D. In 63rd Annual State conference of Indian Public Health Association, West Bengal State Chapter, Kolkata [held in Aug 2023]

1. Dr. Nandu Krishna [JR-MD(MPH Epidemiology)] Presented *paper (Oral)* entitled "Epidemiological and Spatial characteristics of Scrub Typhus in Hooghly District from 2019-2023"
2. Dr. Mainak Mondal, [JR-MD(MPH Epidemiology)] Presented *paper (Poster)* entitled "A Retrospective study of Snakebite cases in Hooghly district, West Bengal"

E. In 24th Annual Maharashtra State Joint Conference of IAPSM & IPHA 2023 (held in March 2023).

1. Dr. K. S. Akhade, Asstt. Prof. presented paper (oral) "Tackling the burden of Non Communicable Diseases: New Frontiers & Challenges".

Research Work

➤ Dr. Sanjoy Kr. Sadhukhan acted as a guide/co-guide in thesis work on:

- A Community Based Cross-Sectional Study on Self Medication Practices among Adults in a Rural Community of Hooghly District, West Bengal, India—Dr. Subrata Halder, MD (MPH Epidemiology) PGT, Session – 2020-23.
- A Cross-Sectional Study on Asymptomatic Bacteriuria and Associated Factors among Pregnant Women in a Slum of Kolkata, India - Dr. Smita Dolui, MD (MPH Epidemiology) PGT, Session – 2020-23.
- A Comparative Study on Drug Compliance and Life Style among Adult Hypertensive patients visiting a rural and urban Health Center in West Bengal - Dr. Rajkumar Bhattacharya, MD (MPH Epidemiology) PGT, Session – 2020-23.
- Perceived Stress and Quality of life of Accredited Social Health Activists in South 24 Parganas Health District of West Bengal - Dr. Mita Basu, MD (MPH Epidemiology) PGT, Session - 2020-23.
- A Cross sectional study on Under nutrition, developmental delay and their determinants among under-five children in a rural area of West Bengal. Dr. Nandu Krishna J, MD (MPH Epidemiology) PGT, Session – 2021-24.
- A Cross-Sectional Study on Chronic Pain and its Associates among the Elderly in a Rural Area of Hooghly District, West Bengal. Dr. Koustab Ghosh, MD (MPH Epidemiology) PGT, Session – 2021-24.
- Injuries sustained in Road Traffic Accidents and Associated Factors among the Admitted patients in a Tertiary Care Hospital of West Bengal. Dr. Mainak Mondal, MD (MPH Epidemiology) PGT, Session – 2021-24.
- A study on association between obesity and elevated liver enzymes in adults visiting a diagnostic laboratory for health checkup at Burdwan town, West Bengal. Dr. Subhashis Dan, MD (MPH Epidemiology) PGT, Session – 2022-25
- A cross sectional study on sleep quality and its associates among school going adolescents in an urban area of West Bengal. Dr. Soham Biswas, MD (MPH Epidemiology) PGT, Session – 2022-25
- Quality of Life and its Associated factors among Chronic Kidney Disease Patient on Hemodialysis attending a Tertiary Health Facility of Kolkata. Dr. Rajdeep Shaw, MD (MPH Epidemiology) PGT, Session – 2022-25
- A Cross-Sectional Study on Morbidity Pattern and Health Seeking Behaviour among Female Sex-Workers in a Rural Area of West Bengal. Dr. Aniruddha Biswas, MD (MPH Epidemiology) PGT, Session – 2022-25
- A Cross Sectional study on Caffeine consumption and its Association with Stress, Anxiety and Insomnia among College Students in a Government Degree College, Tripura - Pratyusha Paul, M. Sc Applied Nutrition PGT; Session 2021-23
- Assessment of Iron Folic acid (IFA) Supplementation Status of Adolescents in a Village of Purba Bardhaman district, West Bengal. Rimi Mukhopadhyaya, M. Sc Applied Nutrition PGT; Session 2022-24

➤ **Others:(guided/helped/assisted)**

➤ **A. Outside AIIH&PH**

- Effectiveness of Health and Wellness Centers under Ayushman Bharat in reducing Out of pocket expenditures of Geriatric population: An ICMR Task Force study - by Dr. A. Sinha, NICED.
- Dementia Caregiver's Burden and its Associates: a Multicentre Study across Four sites in India - by Dr. A. Sinha, NICED.
- Comparison of Health-Related Quality of Life (HRQOL) of Type 2 Diabetes Patients in Urban and Rural Districts of West Bengal. - by Dr. A. Ghosh, MPH PGT, *IIPH Gandhinagar under PHFI.*

Short Studies completed till date:

- A Cross Sectional Study on Oral Hygiene among Santhal Tribal Adults in a Village of PaschimBardhaman, West Bengal
- A cross-sectional study on prevalence of Post-Natal Depression and its associates among women in a rural community in Hooghly district, West Bengal.
- Cross sectional study on prevalence of sleep hygiene, sleep quality and excessive day time sleepiness and factors affecting quality sleep among students of AIIH&PH, Kolkata.
- Cross sectional study on e-waste management and practices among college students.
- Internet addiction among undergraduate students of a college in a district of West Bengal.
- Anaemia and its Determinants amongst Peri-Menopausal Women in a Rural Community of West Bengal.
- Knowledge, Attitude and Practice related to Covid, amongst Primary level Health Care workers in a Rural area of West Bengal.
- Effect of Empowerment on Nutrition and Dietary Patterns amongst Tribal Women in a Village of Sunderbans, West Bengal.
- A Study on Knowledge about Oral Cancer and its Attitude towards Tobacco use among Adults attending Tobacco Cessation Centre (TCC) in a District Hospital of West Bengal: An Institutional based Short Study.
- Covid – 19 related Knowledge Attitude and Practice among adults in a Rural area of Hooghly District, WestBengal, India.
- Chronic low back pain and distress associated with it among adults in an Urban Slum of Kolkata, West Bengal.
- Pattern of Skin diseases among patients attending OPD of Urban Primary health centre at Kolkata, West Bengal - A cross sectional study.
- Determinants of Covid 19 Vaccine Hesitancy among adults in an Urban area of West Bengal- A cross sectional study
- Depression, Anxiety and Stress during COVID-19 Pandemic among Health Care Workers in a Rural area of Hooghly District, West Bengal

- Superficial Skin Infection and its Associated Factors Among OPD Patients in Rural Health Centers in Singur , Hooghly
- Does Covid 19 affect IDSP Trends? An experience from a Primary Health Centre in West Bengal
- Illness Perception and Self-care practices amongst type II Diabetic patients attending Health and Wellness Centres in a block of South 24 Parganas West Bengal
- Cross sectional study on Awareness of Breast cancer and Perception of Breast self-examination among Nursing Students of a Tertiary Care Hospital in West Bengal, India
- Investigation of an Outbreak of Scabies in Hooghly district of West Bengal
- Stress among School Teachers of Selected Private Schools in Howrah, West Bengal
- An Observational Study to Assess Awareness about Water Sanitation in a Rural Population of West Bengal
- A Cross-sectional Study on Quality of Life among Post-Menopausal Women in a Rural Community of West Bengal
- Epidemiological and Spatial characteristics of Scrub Typhus in Hooghly District from 2019-2023
- Knowledge about Vaccines, Attitude towards Emporiatrics and Pre-travel Health-Seeking Behaviour among the Indians Travelling abroad attending a Yellow Fever Vaccination Centre in Kolkata
- A Retrospective study of Snakebite cases in Hooghly district, West Bengal.
- A Qualitative study on Psychosocial issues Experienced by the Leprosy patients in Regional Leprosy Training and Research Institute Gouripur, West Bengal.

Seminars/Workshop/Training programs Attended/Arranged

- **Dr.Sanjoy Kr. Sadhukhan, Director Professor& Head**
 1. Received training on “Administrative Vigilance; Role of IO/PO”(online) from 3-7th July 2023 organized by ISTM Delhi.
 2. Provided content for training modules in IGOT platform:
 - a) Integrated Health Information Platform (IHIP) for Integrated Disease Surveillance Program (IDSP)
- **Dr. Manas Kumar Kundu, Public Health Specialist (SAG) and Additional Director**
 1. Coordinator in the Programme Management component for development of National Strategic Plan for Leprosy 2023-2027 and National Guidelines on Anti-Microbial Resistance under NLEP rolled out in January,2023.
 2. Resource Person in the National Level Workshop on integration of Mental Health Programme and National Leprosy Eradication Programme held at Ranchi on 11 -13 Jan , 2023
 3. In the National level Review meeting for Point of Entry Officers as one of the Resource Person of AIHH&PH, Kolkata held at Trichy, Tamilnadu on 1st-3rd March, 2023

4. In the Regional Level Workshop for implementation of National Strategic Plan and Nikusth 2.0 in North Eastern States held at Kohima, Nagaland on 29th-30th May, 2023
5. Resource Person (as a representative of NCDC, New Delhi) in CBRN and Disaster Management Workshop held at NSCBI Airport, Kolkata on 10-14 July, 2023
6. In National Level Consultative Workshop for development of Training Modules for promotion of mental wellbeing of Leprosy patients held at Pune- 10th-11th Aug, 2023
7. Resource Person in the State Level Orientation of Dermatologists under NLEP, Agartala on 26.8.2023
8. Contributed in developing the Framework for integration of Mental Health in NLEP -2023

➤ **Dr. Kiran Swapnil Akhade, Asstt. Professor**

1. Acted as resource faculty for Revised Basic Course Workshop MET at MEU Unit, Raipur Institute of Medical Sciences, Raipur, Chhattisgarh (March 23)

Membership of Committees

Dr. S. K. Sadhukhan,-Director Professor & Head:

- Medical & Public Health Education Unit
- Techno-Commercial Committee
- Committee for implementing EWSs reservation policy in Recruitment & Student admission.
- Institutional Ethics Committee.
- Member, Board of Studies, the WBUHS, Post graduate Medical Courses, AIH&PH, Kolkata.

➤ **Dr. Manas Kumar Kundu, Public Health Specialist (SAG) and Additional Director**

- Chairperson of the Enquiry Committee to conduct an enquiry on a case of death due to medical negligence at Central Institute of Psychiatry, Ranchi
- Member of National Technical Resource Group for National Leprosy Eradication Programme
- Member of Research Group for National Leprosy Eradication Programme

Examiners:

➤ **Dr. S. K. Sadhukhan, Director Professor & Head acted as**

- Paper Setter for MSc Applied Nutrition, Dip-diet & MD (MPH-Epidemiology) Examinations of WBUHS.
- Internal Examiner & Convener for MD (MPH-Epidemiology) examination of WBUHS (May-June & September 2022).

➤ **Dr. K. S. Akhade, Assistant Professor acted as**

- External Examiner for University Practical Examination (3rd MBBS Part I) at Rajiv Gandhi Medical College, Kalwa, Thane, Maharashtra (March 23)

- Internal Examiner for University Practical Examination (3rd MBBS Part I) at Raipur Institute of Medical Sciences, Raipur, Chhattisgarh (February 23)

Field Activities/Programmes Undertaken:

- MD (MPH Epidemiology) students of the session 2020-23 conducted Health Situational Analysis, Secondary Data Analysis, National Health Programme Evaluation and Surveillance System Evaluation in districts of 24 Parganas(North), 24 Parganas (South), Howrah and Hooghly.
- Dept. coordinated Community Diagnosis Survey, Risk Factors of Non Communicable Diseases at Singur, Hooghly.

Administrative Responsibilities

➤ **Dr S. K. Sadhukhan**

Nodal Officer for i) MCI-DMMP project I & II
 ii) National Identification Number project
 Reporting officer for official email creation in AIIH&PH
 Editorial Board member of Journal of Comprehensive Health

➤ **Dr. Manas Kumar Kundu, Public Health Specialist (SAG) and Additional Director**

Monitoring of Leprosy Case Detection Programme as Central Monitor in Chhattishgarh 4th-6th July, 2023

Some Photographs of Our Activities:



Community Feedback Program at village Balidipa (January 2023)



Dr. S. K. Sadhukhan, acted as a Judge in one competitive oral paper session in IPHA CON 2023 at Kolkata



Dr M K Kundu as Central Monitor for LCDC Monitoring in Chhattisgarh



Dr M K Kundu as Resource Person in the workshop on CBRN and Disaster Management held at NSCBI Airport, Kolkata

SANITARY ENGINEERING

Introduction

The main objective of the Department is to create a healthy community through the ways and means to safeguard the environment and protection of the natural ecosystem. The dept. had been involved in various ways with different govt. organisation like PHED, KMDA, in West Bengal in solving the environmental health problems. The Dept. had prepared the state of the art report on the arsenic contamination of ground water in West Bengal.

Teaching Activities

The Department had been conducting the “Master of Engineering (Public Health & Environmental Engineering)” course and other short courses sponsored by CPHEEO, Ministry of Urban Development, Government of India, Ministry of Drinking Water & Sanitation, Govt. of India, and UNICEF & WHO. The ME (PHEE) course is meant for training basic civil engineering graduates for the specialisation in public health or environmental engineering. The course is affiliated to the West Bengal University of Health Sciences. However, the course is temporarily stopped due to non-availability of regular Engineering faculty members in the department.

The department has started a Certificate Course on Sanitary Health Inspector, a skill development course of 10 months’ duration since 2018, under Prime Minister Skill Development Program with an intake capacity of 25 students per batch. In the last 4 years 3 batches of Students have successfully completed the course. The present session 2023-24 has started since 5th October 2023.

The faculties and officers attached with this department takes regular classes of different courses run by the other departments of the Institute, e.g., MD(CM), MD (MPH-Epidemiology), MVPH, PGDPHM, DHPE, DHS, Dip. Diet & M.Sc. Applied Nutrition, M.Sc in Public Health (MCH) , MPH (Public Health).

Faculty

There are 11 faculty positions sanctioned (Prof. - 2, Associate Professor - 2, Assistant Professor – 4, ARO Biologist – 1, Demonstrator – 2) but all posts are lying vacant at present.

Dr. Amit Banik, Associate Professor (Department of Microbiology) is holding additional charge (Acting) of the Head of the Department since 30.06.2022



Dr. Amit Banik
MBBS, MD, DNB, MNAMS
Associate Professor
(Microbiology)
Co-ordinator: SHI course
Email: dramitbanik@gmail.com
Tel: 033-23359858
Mob: 9402195476

Other Members:

Designation	Number	Activities Performed
Medical Laboratory Technologist	3	Laboratory analysis work
Junior Medical Laboratory Technologist **	1	Laboratory analysis work and maintenance of Chemicals
Draftsman	2	Office work
Lab. Attendant	1	Washing and Maintenance
MTS	1	Support Service

** Posted in RHU&TC, Singur, works 3 days/week in dept.

Mr. Swapan Das, Lab Attendant superannuated on 30.06.2023

Regular Activities

The Dept. of Sanitary Engineering provides services of chemical analysis of water to various Govt. organisation and NGOs.

In this year, 1334 parameters in 168 samples of water including the samples from various Government agencies, Family Care programme and Community Diagnosis Programme, Student Dissertations have been analysed in the laboratory till date.

The department is also analysing frequently the potable water samples from different sources of the Institute, e. g. Bidhannagar campus, RHU&TC, Singur, UHU&TC, Chetla and main campus at C.R. Avenue as public health responsibility.

Research Work:

Chemical analysis of Groundwater Samples collected from different parts of different districts of West Bengal.

Member

- ECHO India, AIH&PH

Examiner:

- Final Professional University Exit exam of M. Sc. Applied Nutrition
- Final Professional University Exit exam of MVPH
- Paper Setter for MVPH and M.Sc Applied Nutrition
- Paper Setter Sanitary Health Inspector recruitment at Safdarjung Hospital, Delhi

Guest Lecture:

- Invited as Speaker in Short training Course – 'Basics and challenges of One Health' to deliberate on 'Tackling Antimicrobial Resistance in One Health'

Training Received

- Administrative Vigilance – Role of IO/PO by ISTM on 3rd-7th July 2023

Disaster Management Duties:

- EMR duty for Avian Influenza at Bokaro, Jharkhand from 22nd Feb – 4th Mar 2023.
- EMR duty for Unknown Exanthematous fever at Murshidabad, West Bengal from
- 18th Mar- 21st Mar 2023

Other Activities :

- Member, Technical Committee, BIS
- Treasurer, Indian Academy of Tropical Parasitologists, WB Chapter

Pictures:



Fig 1: Field Visit of SHI students at Bhatpara STP for gaining practical experience on Procedures performed for clean and environment friendly waste disposal techniques



Fig 2: Sanitary Inspection and cleaning of Handpumps done at RHUTC, Singur field area



Fig 3: Lab Technologists performing Chemical Analysis of Drinking Water at AIH&PH SE Department. This helps us to ensure the quality standards of Water are maintained within prescribed limits



Fig 4: KAP on WASH Program in school at Singur

PUBLIC HEALTH ADMINISTRATION

Introduction

The Department of Public Health Administration aims to orient the students in public health and principles of management as applied to the field of health. It covers various administrative techniques such as health service research, planning, organization, evaluation, budget, health management, system analysis, operational research, health sector reforms, etc.

The department, since its inception, has been involved in various research studies in health care delivery, disease epidemiology, operations research, quality of care, health financing, disease surveillance, Health Information systems, in all areas including remote and tribal areas.

Besides, providing inputs to all regular courses, the Department conducts the Post-graduate Diploma in Public Health Management (PGDPHM) course and coordinates the Core course for the MD Community Medicine, MD MPH Epidemiology, MSc Public Health Maternal and Child Health and Master in Veterinary Public Health (MVPH) courses.

Teaching Activities

Regular Courses Conducted:

- Department is coordinating one-year Post-graduate Diploma in Public Health Management (PGDPHM) course supported by the National Health Mission.
- Department of Public Health Administration is also coordinating the Core course programme for the MD Community Medicine, MD MPH Epidemiology, MSc Public Health Maternal and Child Health and Master in Veterinary Public Health (MVPH) courses
- Faculty take classes for other courses conducted by the institute i.e. MD (CM), MPH (Epidemiology) DHPE, DHS, MVPH & SHI

Other Regular Activity

- Seminars/ Short Study presentation/ Journal Club/Focus Group Discussion/ Field Activities/Family Care presentations etc. are undertaken as part of curricular activities by the students.

New Initiatives

The Dept has submitted a proposal for starting Master in Public Health (MPH) course for candidates from medical and non-medical backgrounds

Collaboration

The Department collaborates with Centre on Non-Communicable Diseases, ICMR Kolkata, for student visit and research programme and Public Health Foundation of India for conducting the Post-graduate Diploma in Public Health Management (PGDPHM) course

Faculty



Dr. Debashis Dutt M.D.
Dean, Director Professor &
Head E-mail:
dutta29@gmail.com
Mobile No.: 9433193137
Area of Expertise: Non
Communicable
Disease Epidemiology,
Research methods,
Programme Evaluation,
Surveillance



Dr. RRPati
Director Professor E-
mail:
ranjan.65.pati@gmail.com
Mobile No.: 9903369733
Area of Expertise: Public
Health



Dr Sumanta Pal
Grade I Public Health Specialist
Posted since 01.12.23
dihmdcms2@gmail.com
M: 8583912988

Area of Expertise: Occupational Health



Dr Ketaki Sharma,
CMO NFSG
Posted Since 01.09.2023
Email: dr.ketakisharma1@gmail.com
Mobile : 9433937875
Area of Expertise: MCH, Public Health

Other Members

Designation	Number	Activities Performed
Stenographer	1	Secretarial Assistance.
MTS	1	Support Service.

Publications

- Goutham Mohanan, Dutt D. Medication Adherence and Self-care practices among Type 2 diabetic patients in a rural area of West Bengal In Proceedings: IVth National Conference of Epidemiology Foundation of India, EFICON Oct 2023,
- Banerjee B, Dutt D, Saha I, Paul B, Lachyan AS. Effectiveness of mHealth for modification of dietary habits and physical activity among individuals at risk or suffering from noncommunicable diseases in primary healthcare settings in South

East Asian Region countries – A systematic review and meta-analysis. *Int J Non-Commun Dis* 2022;7:161-76

- Nidhi S, Dutt D et al A Study on Birth preparedness and Complication Readiness among Women Attending Antenatal Clinics in a Rural Area of Hooghly District, West Bengal Accepted for publication in *Medical Journal of Dr. D.Y. Patil Vidyapeeth* 2023
- *Research Work*

Dr. Debashis Dutt acted as a guide the following Curricular Research studies

1. A Study on Quality of Life and its Determinants among Adult People Living with HIV in an ART Centre, Kolkata By: DR ARUN G M.D. (Community Medicine) Session: 2022-2025
2. A Study on the Reproductive Health Status of Women and its Associates with Special Reference to Women Empowerment, in a Rural Area of West Bengal Dr. JYOTIKA SINGH, M.D. (Community Medicine) Session: 2022-2025
3. Study on Metabolic Syndrome and its Determinants among Adult Women of Reproductive Age Group in a Rural Area of Hooghly, West Bengal By Dr Aditi Sur, MD (Community Medicine) Session: 2021-2024
4. A study on morbidity profile of Brick-kiln workers in a rural area of Hooghly district, West Bengal. Dr Akash Dasgupta, MD (Community Medicine) Session: 2021-2024
5. A Cross-sectional Study on quality of life and perception regarding cardiac rehabilitation in patients of coronary artery disease in a tertiary care hospital in Kolkata” Dr Satyabrata Maity MD (CM), Session 2020-2023
6. Risk factor for MDR Pulmonary Tuberculosis among patient attending Tangra urban health district of kolkata – an unmatched case control study. Subhajoy Maitra MD (CM) Session 2020-2023
7. A Study On Quality Of Life Among Hypertensive Patients attending Clinics of Urban Health Unit and Training Centre, Chetla, West Bengal. Sr. Poulami Gupta PGDPHM Session: 2022-2023.
8. Study on Social Media Usage and Health Promoting Lifestyle Among Students In A College In Kolkata . by Swikriti MSc Applied Nutrition 2021-2022 . Session Ended in 2023
9. A Study On Dietary Diversity And Its Association With Nutritional Status Among School Going Older Adolescents' Girls In Purba Bardhaman, West Bengal Anisha Saha. M.Sc Applied Nutrition Session: 2021-2023

Prof. R. R. Pati acted as the guide for the following scientific studies:

1. A study on morbidity profile of horticultural workers in a rural area of South 24 Parganas district of West Bengal. (M. D. thesis)
2. A cross-sectional study on nutritional status and associated factors among adolescents in Singur, West Bengal. (M. D. thesis)
3. A cross-sectional study on morbidity pattern and health seeking behavior among female sex workers in a rural area of West Bengal. (MPH thesis)
4. A comparative study of nutritional status among early adolescents (11-14 years) Mid Day Meal beneficiaries of rural and urban schools in Purba Burdwan, West Bengal. (M. Sc. Applied Nutrition dissertation)
5. A study on self care practices among Diabetes Mellitus patients attending Health & Wellness centers in a block in West Bengal. (DPHM dissertation)

Dr Ketaki Sharma, acted as the co- guide for the following scientific studies:

1. Study On Quality Of Life Among Hypertensive Patients attending Clinics of Urban Health Unit and Training Centre, Chetla, West Bengal. Sr. Poulami Gupta
PGDPHM Session: 2022-2023

2. Non Randomised Controlled Study on Impact of Diabete Self-Care Management Education on HBA1C Levels among Diabetic Patients of a selected slum area of Kolkata". MD student

PhD Thesis

Dr D Dutt is Co Guide for study on Assessment of Coping Skill in various crisis situations among the Adolescent population and their association with different Socio-demographic variables: Cross-sectional, nonintervention Study upon school students: Co guide for PHD Thesis by Shibotosh Sen under WBUHS

World Health Day Celebration 2023

The Dept of PHA organised observation of World Health Day 2023 on 6th April 2023 on the Theme "Health For all - 75 Years of Improving Public Health". A Scientific session was held followed by Poster Competition by Students

Conference/ Seminars attended

Dr D Dutt participated as Co- Chairperson" of Panel Discussion on the topic of "Human PapillomaVirus Vaccination Program: Global and Indian perspectives" in the 67th Annual National Conference of Indian Public Health Association (IPHACON 2023) on April 7th - 9th 2023 at Biswa Bangla Convention Centre (BBCC), New Town, Kolkata, West Bengal.

Workshops Attended

- Prof. R. R. Pati attended Revised Basic Course workshop at S. C. B. Medical College, Cuttack from 11.01.2023 to 13.01.2023
- Director Dr R. Das, Dean Prof. D. Dutt and Dir. Prof. R. R. Pati attended "National Training Conclave 2023" at New Delhi on 11.06.2023.

Participation in Development of Training Modules

Dr D Dutt participated as Co- Chairperson" for Panel in "National Consultative Workshop for Development of Training Modules for promotion of mental wellbeing of Leprosy Patients" at Pune, Maharashtra during 10-11 August 2023. Conducted by Central Leprosy Division (CLD) , Central Institute of Psychiatry (CIP) & World Health Organization(WHO)

Community awareness programs conducted

Department of PHA organised and celebrated the , "World Diabetes Day " on 14th November 2023 at UHU&TC Chetla with active participation of the Doctors, Core Course Students and the Nursing Staffs of UHU&TC Chetla. The program was coordinated by Dr Ketaki Sharma

Poster Competition

The Dept organized Poster Competition on the Theme of World Health Day 2023 on 6th April 2023

Additional Responsibilities

Dr D Dutt Dir.-Professor & Head is holding charge of
Dean, AIHH&PH.Kolkata

Welfare officer of AIHH&PH Kolkata.

Dr Ketaki Sharma is a member of the

Holding Charge of DDO of AIHH&PH of Bidhan Nagar Campus

Membership of Committees

Participation of Dr. D Dutt in different Committees:

- Member Secretary Faculty Council, AIHH&PH and subsequently Chairman Faculty Council AIHHPH
- Chairman, Curriculum Committee
- Chairman Committee for Contractual Appointment of Post of Assistant Professor Public Health and Asst Prof Microbiology
- Officer -in- Charge , Medical Education Unit
- Chairman, Scientific Advisory Committee
- Chairman, Committee on Compassionate Appointment
- Chairman Classroom Committee
- Member Institute Ethics Committee
- Member Overseeing Committee for Foundation Day AIHH&PH
- Member Anti-ragging committee

Participation of Dr Ketaki Sharma in different Committees:

- Medical of Bill Scrutiny Committee
- Tender Evaluation Committee.

Participation as Examiner

Dr. D Dutt, acted as

- Convenor and Internal Examiner for PGDPHM final examinations at AIHH&PH, Kolkata Jan 2023
- Internal Examiner for MD (CM) Examinations 2023 Regular and Supplementary
- External Expert for MPH Examination -Inst. of Public Health (IPH) Kalyani 2023
- Moderator and External Examiner for MPH Examination -Inst. of Public Health (IPH) Kalyani 2023
- Adjudication of MPH Dissertations for IPH Kalyani 2023
- Evaluated 2 Dissertations of PG Courses of external Institutes

Meetings attended

Dr D Dutt,

- Attended meeting of PGDPHM partners for conduction of PGDPHM course 2023
- Attended Several Academic Council, Board of Studies meetings of The West Bengal University of Health Sciences related to academic activities of the Institute



World Health Day 2023 on 6th April 2023 on the Theme "Health For all - 75 Years of Improving Public Health"



Dr D Dutt acted as Co- Chairperson" of Panel Discussion on the topic of "Human PapillomaVirus Vaccination Program: Global and Indian perspectives" in the 67th Annual National Conference of Indian Public Health Association (IPHACON 2023) on April 7th - 9th 2023



Director Dr R Das, Dean Prof. D. Dutt and Dir. Prof. R. R. Pati attended "National Training Conclave 2023" at New Delhi on 11.06.2023.

MATERNAL & CHILD HEALTH

Introduction

All India Institute of Hygiene & Public Health, Kolkata was established in 1932 with four sections, namely – Public Health Administration, Malariology & Rural Hygiene, Vital statistics & Epidemiology and Biochemistry & Nutrition. Soon after the inception of the institute – the Countess of Dufferin Fund, which had been working for the development of medical care of women & children, felt the need of developing and expanding the preventive & promotive aspects in the field of Public Health and accordingly the fifth section of the Institute in the name of “Maternal & Child Health” was created.

The Department of Maternal and Child Health is concerned with Teaching, Training, and Research and for delivery of Services for Mothers, Children and Adolescents within the framework of general and reproductive health services. Emphasis is given on teaching & training for the delivery of health services through integration of preventive, promotive, clinical and managerial skills. Obstetric and Paediatric wards and Adolescent health clinic of the neighbouring Medical Colleges and the Urban and the Rural Health Centres of AIH&PH, Kolkata are extensively used for the practical / field-based hands-on-training in reproductive and child health, adolescent health and family welfare. The research activities of the department primarily focused on reproductive health, safe motherhood, child growth and development & health problems, adolescent health and various aspects of family welfare.

In past, this department used to run Diploma in Maternity and Child Welfare (DMCW) – a postgraduate diploma course since 1933. Since inception, a total of 990 doctors have been trained in DMCW. At present the department conducts a new post-graduate course in the name of M. Sc.PH (MCH). This is a two-year full-time Masters course and is affiliated to West Bengal University of Health Sciences (WBUHS). This post-graduate course equips the medical graduates for administrative, clinical service & teaching / training positions and also to act as public health specialists and health care providers in different aspects of Maternal and Child Health / Reproductive and Child Health in Govt. health services, teaching or non-teaching hospitals, health care delivery systems, non- government organizations etc.

Teaching Activities

- **Regular Courses Conducted:**
 - The department introduced a full time regular new post graduate course in the name of M.Sc. in Public Health (MCH) – a two-year non-MCI recognised P.G. course for medical graduates and for BSc nursing graduates. This course received affiliation from the West Bengal University of Health Science.

Regular Activities

- Teaching and training on MCH/RCH/Family Welfare/related issues imparted to all categories of public health students of all courses of AIH&PH.

- Providing supervision and guidance in curricular research studies conducted by students of different post graduate courses.
- Supervising/guiding students for the urban and rural field programs like “Family care program” at UHU&TC, Chetla and “Community Diagnosis Program” at RHUTC, Singur.
- Participating in conducting examinations of different PG courses.
- Conducting Adolescent Health Clinic (fortnightly) at UHU & TC, Chetla.
- The faculty members of this deptt. are involved in a number of different major administrative committees of this Institute.

Faculty



Dr. A. K. Mallick
Director-Professor & HOD
M.B.B.S., M.D.(SPM)

E-mail: ashokmallick62@yahoo.co.in

Mobile No.: 9433464500

Area of expertise: Health System Management and leadership, HRD, VBDs, Health Promotion & Education, Health education & BCC, Adolescent health & Demography & Family planning



Dr. Madhumita Bhattacharya

Professor, Paeds(eq)/CMO, S
AG
MBBS, DMCW, DCH, MD,
Pediatrics(AIIMS, New
Delhi)

E-mail: madhumita57@yahoo.co.in

Mobile No.: 9830134419

Area of expertise: Community Paediatrics, Child Health & Nutrition, Neonatal Care & Resuscitation, Adolescent Health, School Health.

Other Members

Designation	Number	Activities Performed
Stenographer	1	Secretarial Assistance
MTS	2	Support Service

Publications

1..Halder R, Paul B, Bandyopadhyay L, Bhattacharya M, Das R, Banerjee A. Awareness Regarding Gestational Diabetes Mellitus among Antenatal Women of Rural West Bengal: A Mixed-method Study. *Healthline*. 2022;13(1):22-30.

2.Bag NI, Sahu M, Paul B, Das R, Bandyopadhyay L, Bhattacharyya M, et al. Knowledge, Attitude and Level of Involvement of Married Males in Family Planning. *Kathmandu Univ Med J*. 2022;78(3):128-35.

3.Maity CS, Paul B, Banerjee A, Bandyopadhyay L, Bhattacharyya M, Sahu M. Perception and Practices Regarding Rabies among Animal Bite Victims: A Cross-sectional Study in a Rural Area of West Bengal. *APCRI J*. 2022;23(2):11-19.

4. Banerjee A, Paul B, Das R, Bandyopadhyay L, Bhattacharyya M. Utilisation of adolescent reproductive and sexual health services in a rural area of West Bengal: A mixed-method study. *Malays Fam Physician Off J Acad Fam Physicians Malays*. 2023;18:26.

Research Work

Dr. A. K. Mallick, Director Professor acted as guide to the following curricular research study:

- An Epidemiological study on double burden of Malnutrition among Mother Child Dyads in a rural area of Hooghly District (Thesis for MD, CM- 2020-23 session)
- A comparative study on Knowledge, attitude and Practice of college going women regarding common Cancer affecting Females in a rural and urban area of West Bengal.(Thesis for MD, CM- 2020-23 session)
- A Study on Knowledge, Attitude and Practice on health impact of Fast food among the College going students in Kolkata, West Bengal (M.Sc. App. Nutrition Session 2015-17).

Dr. Madhumita Bhattacharyya, Professor acted as guide and co-guide for following curricular research-

- As a guide "A study on knowledge and practices regarding breastfeeding among mothers having children aged 6 months to 24 months of age in Singur area of west Bengal M.Sc. (Applied Nutrition 2022-2024).
- As a guide "A study on utilisation and beneficiaries satisfaction of ICDS scheme regarding the mother and child care in a village of Purba Bardhaman , West Bengal
- Co-guide for the thesis "A study on perceptions regarding infant and young child feeding practices using health belief model in a rural area of Hooghly District, West Bengal." MD (Community Medicine, session 2021-24)
- Co-guide for the thesis "A study on Anaemia among elderly in a rural area of Singur and selected slum areas of Kolkata." MD (Community Medicine, session 2021-24)
- Co-guide for the thesis "A cross sectional study on distress and coping among caregivers of cancer patients attending oncology department of a tertiary care hospital, Kolkata" MD (Community Medicine, session 2021-24)
- Co-guide for the thesis "A community based study of unintentional injuries among the elderly residing in a rural area of Hooghly district of West Bengal" MD (Community Medicine, session 2021-24)
- Co-guide for the thesis "A community based study on multimorbidity and its associated factors among adults aged 45 years and above in a rural area of Hooghly district of West Bengal." MD (Community Medicine, session 2021-24)
- A Cross-sectional Study on Nutritional status and Associated Factors among Adolescents in Singur, West Bengal MD (Community Medicine, session 2022-25)
- A Cross-sectional Study on Morbidity Profile and Health Seeking Behaviour of Agricultural Workers in a Rural Area of West Bengal MD (Community Medicine, session 2022-25)
- Assessment of Climate Anxiety and Associated Factors Among Adults Residing in a Riverine Area of Sundarbans, West Bengal MD (Community Medicine, session 2022

Guest Lectures Delivered:

Dr Madhumita Bhattacharyya-

- Attended National and International Conference on Paediatrics at Gandhinagar, Gujarat from 20.02.2023 to 24.02.2023.
- Invited as a speaker on Immunology Day -01.05.2023 to speak about “Adult Vaccination
- Invited as a speaker in Institute of Serology for “POSH Act” on 1.11.2023.
- Invited as faculty at East Zone Paediatric Conference at Tripura from 1.12.-3.12.2023
- Invited as panellist in state Paediatric annual conference at Kolkata in a scientific session of “Adolescent Mental Health”
- Invited in a seminar on adolescent health at PM Sri KV School on 14.11. and 18.11 2023
- Invited as a speaker at ICMR-Centre for Ageing & Mental Health Divisions of Non-Communicable Diseases for “POSH Act” on 7.12.2023.

Examiners

- **Dr. A. K. Mallick, Director-Professor, acted as**
 - Paper Setter for DHPE examination under WBUHS.
 - Examiner, DHPE examination, WBUHS

Dr M Bhattacharyya

University Examiner for Dip -Diet Examination (Oral/Practical) on 13 .10.2023

Training received

- Dr M Bhattacharyya attended CVC guideline training Workshop on 01/11/2023 at Regional Training Centre Kolkata

Training conducted by the Department:

- The department conducted short training on Adult Vaccination for the MO,/Nurses /Staff of UHU& TC,Chetla on 10 .10 2023.

Achievements

- Dr Madhumita Bhattacharyya- received award for Extra-Curricular Activities beside Medical activities on International Women’s Day From IMA ,on 8.3.2023

Other Activities:

- Dr. Madhumita Bhattacharyya as a executive member of IMA, Behala branch
- Dr. Madhumita Bhattacharyya is conducting Adolescent clinic at UHU&TC

Some Photographs of Our Activities

Mothers Absolute Affection programme :-



Photograph of preparation of replacement feed



Photograph of clinical training session



Photograph of clinical training session



Group photo of the Participants from Union Territories, MD students and Faculties

PUBLIC HEALTH NURSING

Introduction:

The Department of Public Health Nursing started working in AIIH&PH in 1977. Initially, the department would conduct a number of short-term courses for different stake holders like Public Health Nurses, Nursing teachers, Nursing Administrator, School teachers and others professional groups working at community level to orient or update them with public health issues and National programmes.

AIIH&PH, Kolkata started to conduct the Certificate Course for the Trained Nurses in 1953. In the year 1960, the Certificate Course in Public Health Nursing Supervision (CPHNS) was also started in the department. The department also started running a diploma course in the name of Diploma in Public Health Nursing (DPHN) from the year 1975. In the year 2004, the curriculum of this Diploma course was revised and the course is renamed as Diploma in Nursing Education and Administration (Community Health) (DNEA (CH)). This course was affiliated to Indian Nursing Council. As per resolution of INC in January, 2012. DNEA (CH) course was discontinued. However, a total number of 1434 nursing personnel have been trained by the department so far.

The department acted as WHO Fellowship Training center for nurses and conducted the WHO fellowship programme "Community Care for Chronically Ill Patients" in 2004.

Ms. V. Subhadra, the former Assistant Prof. and Midwifery Nurse had acted as a member of WHO expert panel of nurses for many years and she attended an expert committee of Community Health Nursing meeting in Geneva in the year 1974. Mrs. Uma Chatterjee, the former Sister Tutor of this department worked as an inspector of Indian Nursing Council and inspected several nursing schools in Bihar, Jharkhand, Orissa and Manipur states.

Faculty:

At present there is no Faculty member in the Department. All the Nursing Faculty positions are vacant but process of recruitment of them is on.

Dr. A.K.Mallick, Director Professor and Head of the department of MCH has presently been looking after the department as HOD (Acting)



Dr.A.K.Mallick,
Director-prof and Head,
Dept. of MCH
Acting HOD, Dept. of PHN

Other Members:

Post/Category	Number
Stenographer	Nil
MTS	Nil

Teaching activities:

The department used to run a full-time one-year post-graduate diploma course in the name of DPHN, which was subsequently converted to DNEA (CH). As the said course has been dis-continued due to some INC issues and at this moment the department has no regular course since 2012.

Regular activities:

The department of PHN has regularly been involved in conducting a huge number of Field Training programmes for Nursing students like M.Sc. Community Health Nursing etc. from various organizations and Nursing Colleges, both private and public from across the country. All these courses are coordinated by the department through the field training units both at RHU&TC, Singur and UHU&TC, Chetla. Besides these, the department also conducted some skill-based training courses on First Responder.

Other regular courses can be taken up only after the vacant Faculty positions are filled.

BIO-CHEMISTRY & NUTRITION

Introduction

Biochemistry and Nutrition Department of All India Institute of Hygiene and Public Health is the first ever department in India to start Diploma in Dietetics course in 1950. M. Sc (Applied Nutrition) course was started in the year 2009 by this department. The Department of Bio-Chemistry and Nutrition is concerned with basic and applied teaching, and research in the science of nutrition. Training is oriented towards the nutrition component of health problems at all levels, viz. individual, family, community and National level. Training is also provided in dietetics, identification of the nutritional needs of a community, assessment of nutritional problems and mobilization of resources to deal with these problems. This department was a part of advanced research and teaching centre of ICMR, particularly with respect to epidemiology of malnutrition among the tribal population and urban slum dwellers.

Teaching Activities

Regular Courses Conducted:

1. M.Sc. in Applied Nutrition

Affiliated University: The West Bengal University of Health Sciences

Annual Intake: 20

MCI recognition: No

Admission procedure: Through Common Entrance Examination conducted by The West Bengal University of Health Sciences

2. Diploma in Dietetics

Affiliated University: The West Bengal University of Health Sciences

Annual Intake: 31

MCI recognition: No

Admission procedure: Through Common Entrance Examination conducted by The West Bengal University of Health Sciences

Faculty



Dr. Shibani Datta
Director Professor & HOD

M.B.B.S., D.C.H & MD

Email: shibani.datta@yahoo.co.in

Mobile No. 9433424805

Area of Expertise: Nutrition Education, Public Health Administration, Community Nutrition.



Dr Swetha Rajeshwari

Public Health Specialist-Grade III

Email: swetaraji24@gmail.com

Mobile No: 9964205169

Area of Expertise: Field Epidemiology, Occupational Health, Health Education

Other Members

Sl. No.	Post/Category	No. In position	Activities performed
1	Laboratory Technician	4	Assist Faculty to conduct practical classes
2	Stenographer	1	Secretarial Assistance
3	Laboratory Assistant	0	Assist Faculty to conduct practical classes
4	Laboratory Attendant (MTS)	3	Support Service
5	Senior Cook	1	Assist Faculty to conduct practical classes
6	Cook	1	Assist Faculty to conduct practical classes
7	MTS	1	Support Service

Publications

1) Book chapter published by Prof. Shibani Datta: Chapter written in the book of Nutraceuticals in Insomnia and sleep disorders published by AAP Advances in nutraceuticals .

2) Pathogenic bacteria and parasites present in the edible leafy vegetables by Ankush Kabiraj , Sayan Bhattacharyya and Shibani Datta in Indian Journal of Microbiology Research 2023;10(2);55-59

3) Study of *Escherichia coli* and *Klebsiella oxytoca* isolated from edible green leaves by Ankush Kabiraj, Sayan Bhattacharyya and Shibani Lahiri published in Journal of Preventive Medicine and Holistic Health. <http://www.jpmmh.org>

4) Experience of Emergency Relief work and monitoring for bird flu in a city of Eastern India. by S Lahiri, S Bhattacharyya and Thakur S. published in Journal of Prevention, Diagnosis and management of human diseases. vol -03, no-03, April-May 2023.

5) Smoke Points: A crucial factor in selection of cooking oil for public health by Prasun Roy Chowdhury, Moumita Chatterjee, Anindita Bhattacharyya and Shibani Lahiri in Current Functional Foods, DOI

6) Study of normal and pathogenic bacteria in Medicinal Probiotics by Trisha Das, Sayan Bhattacharyya and Shibani Lahiri in International Journal of Medical case reports and reviews; 2023; vol 2, Issue 2

7) Study of normal and pathogenic bacteria and yeasts in curd samples by Trisha Das, Sayan Bhattacharyya and Shibani Lahiri published in International Journal of Medical Microbiology and Tropical Diseases

Research Work

- **Under the guidance of Prof. Shibani Datta**

1) A study on physical and general parameters concerning substances present in drinking water samples collected from various Railway Stations of West Bengal.

BY Bidisha Das

2). A study on morbidity pattern and Health seeking Behaviour among Zari embroidery workers in a rural Community of Howrah District, West Bengal. By Dr. Dipankar Jana, M.D student (2021-2024).

3) A cross sectional study on Morbidity profile and health care seeking behaviour of the bus drivers working in the bus depots of Kolkata by Dr Taulik MD PGT

4. A cross sectional study on Morbidity Profile of Printing Press workers in Madhyamgram Municipality area of North 24 pgs. By Dr. Tanaji Mukherjee, MD student (2021-2024)

5. A study on Inpatient Experience and quality standards in Gynaecology and Obstetric department of a secondary level hospital in Hooghly District of West Bengal by Dr Kamal Kishore Singh, MD student (2021-2024)

6) Morbidity profile and Health care seeking behaviour of Agriculture workers in a rural area of West Bengal by Dr Saswati Das MD PGT

7) A cross sectional study on Reproductive tract infection among the women of reproductive age group in a rural area of Singur, West Bengal by Narayani Siware MD PGT

8) A comparative study of anaemia in a rural area of Singur and a slum area of Kolkata by Dr Adil Hossain MD PGT

9) A cross sectional study on distress and coping among the care givers of cancer patients in a tertiary care hospital in Kolkata by DR Kaustav chakroborty MD PGT

- **Evaluation of Ph.D. Thesis**

Prof. Shibani Datta, Head of the Department evaluated one Ph.D. Thesis

“Bio banking and responsible Innovation: Framing Issues, values and practise in Umbilical cord stem cell Banking in India”. By Ms Astha Jaiswal under the Central University of Gujrat.

- **Reviewed articles**

Prof. Shibani Datta reviewed one articles from the Journal of Case Reports in Medicine and Health

- **M. Sc. (Applied Nutrition) Dissertation research completed:**

Serial No.	Name	Dissertation Topic
1.	Sneha Saha	Reveling the edible portion of Rice: A study based on common cooking practices
2.	Swagata Goswami	Activity of salivary amylase on carbohydrate digestion among vegetarian & non-vegetarian according to their age, sex height, weight & BMI
3.	Ankush Kabiraj	Study of pathogenic bacteria, parasitic cysts and ova present in leaves of tulsi, pudina and spinach and correlation with clinical findings in consumers.
4.	Rimi Mukhopadhyay	Assessment of Iron Folic Acid (IFA) supplementation status of Adolescents in a village of Purba Bardwan district, West Bengal.
5.	Syed Hushmeera	“Estimating Glucose and protein in selected fruits to enhance dietary knowledge”
6.	Anisha Saha	A study on dietary Diversity and Its Association with Nutritional status among school going older adolescent girls in purba Bardawan , W.B
7.	Nisha Sutradhar	A comparative study on the nutritional status of young Adolescents (10-14 Years) availing mid-day meal in urban and rural areas of Burdwan, W.B
8.	Thimpu Sutradhar	A study on Reusable cooking oil in households, in district Purba Burdwan , Block Ausgram II, Village Amarangarh .
9.	Trisha Bhattacharya	A study on chemical analysis of underground water samples collected from different parts of different districts of W.B.
10.	Ankita Halder	A study on relationship between Nutrition and Mental wellbeing for adult women of reproductive age group (18-49 years) in urban area at Purba Burdwan district , W.B.
11.	Sunanda Pal	A study on utilization and beneficiaries' satisfaction of ICDS schme regarding the mother and child care. Bhandardihi , W.B
12.	Bidisha Das	A study on physical and general parameters concerning substances present in drinking water samples collected from various Railway Stations of West Bengal.
13.	Dyuti Koner	A study on assessment of knowledge, Attitude and practice regarding optimal infant and young child feeding among mothers of children between 0-2 years of age in a shm area of Kolkata.

Online CME was arranged by the department on National Nutrition week .

Membership of Committees

- **Participation of Prof. Shibani Datta in different Committees:**

1) Chairperson of Internal Complaint Committee.

- 2) Member of Curriculum Committee
- 3) Member of the Medical and Public Health Education Unit.

Examiners

- **Prof. Shibani Datta, Head of the Department acted as**
 - 1) Examiner of Dip Diet Final Examination.
 - 2) Examiner of MSc. Applied Nutrition 1st year Final examination.
 - 3) Examiner of MSc. Applied Nutrition 2nd year Final Examination.

Field Activities/Programme

- **Prof. Shibani Datta, Head of the Department acted as**
 - ✓ EMR duty Prof. Shibani Datta Performed EMR duty of Bird flu Surveillance in Ranchi in March 2023.
 - ✓ Dip diet and MSC AN students performed Awareness Programme on Non communicable disease in chetla UHTC .
 - ✓ An online CME was arranged by the department on National Nutrition week .
 - ✓ An awareness program was conducted among the mothers of under five children in ICDS Singur on infant feeding and Immunisation .
 - ✓ An awareness programme was done in a primary school in Singur on personal cleanliness and balanced diet .

हिन्दी अनुभाग



मनीन्द्र नाथ विश्वकर्मा (एम ए - हिन्दी, समाजशास्त्र)

सहायक निदेशक (राजभाषा)

E-mail: dayamaniaruni@gmail.com

परिचय

1. राजभाषा नीति का कार्यान्वयन तथा राजभाषा अधिनियम और उसके अंतर्गत बनाए गए नियमों के प्रावधानों का अनुपालन सुनिश्चित करने के लिए संस्थान में तीस वर्ष पहले हिन्दी कक्ष स्थापित किया गया। हिन्दी कक्ष का उद्देश्य कार्यालयी हिन्दी का प्रचार-प्रसार, सभी अधिकारियों एवं कर्मचारियों को हिन्दी में प्रशिक्षण प्रदान करना है ताकि हिन्दी में कार्यालय का काम करना संभव हो सके। इसके अलावा अधिकारियों को समय-समय पर राजभाषा संबंधी नियमों से अवगत कराना है।
2. संस्थान के हिन्दी कक्ष में एक सहायक निदेशक (राजभाषा), एक कनिष्ठ हिन्दी अनुवादक, एक हिन्दी टंकक एवं एक एम टी एस का पद है। श्री मनीन्द्र नाथ विश्वकर्मा सहायक निदेशक (राजभाषा) हैं। कनिष्ठ अनुवाद अधिकारी का पद रिक्त है। हिन्दी टंकक एवं एम टी एस का पद भर लिया गया है। इस संस्थान की तीन अन्य इकाईयां शहरी स्वास्थ्य इकाई एवं प्रशिक्षण केंद्र, चेतला, ग्रामीण स्वास्थ्य इकाई एवं प्रशिक्षण केंद्र, सिंगुर, एवं द्वितीय परिसर साल्ट लेक में हिन्दी का कोई भी पद नहीं है। यहाँ हिन्दी के पद सृजित करने की दिशा में ठोस कदम उठाया जाना चाहिए।

अनुभाग का कार्य-कलाप

1. हिन्दी कक्ष से जन स्वास्थ्य नामक वार्षिक पत्रिका प्रकाशित की जाती है वर्तमान में रिक्तपदों के कारण उक्त पत्रिका का प्रकाशन नहीं हो सका।
2. इस वर्ष केन्द्रीय काँच एवं सिरामिक अनुसंधान संस्थान, यादवपुर, कोलकाता-32 के द्वारा नगर राजभाषा कार्यान्वयन समिति (कार्यालय-2) की दो बैठकें दिनांक २५/04/2023 एवं 2५/०९/२०२३ को आयोजित की गई थी। जिसकी दिनांक २५/04/2023 को आयोजित पहली बैठक में संस्थान के तरफ से सहायक निदेशक(राजभाषा), श्री मनीन्द्र नाथ विश्वकर्मा जी ने भाग लिया व दिनांक २५/०९/२०२३ को आयोजित द्वितीय बैठक में संस्थान के अपर निदेशक डॉ. संगीता कालसा एवं सहायक निदेशक(राजभाषा), श्री मनीन्द्र नाथ विश्वकर्मा जी ने भाग लिया।
3. पूर्व एवं पूर्वोत्तर भारत का संयुक्त राजभाषा सम्मेलन एवं पुरस्कार वितरण समारोह भुबनेश्वर, ओडिशा में दिनांक 08/12/2022 को आयोजित किया गया था जिसमें संस्थान के सहायक निदेशक(राजभाषा), श्री मनीन्द्र नाथ विश्वकर्मा जी के द्वारा भाग लिया गया।



4. राजभाषा विभाग, गृह मंत्रालय द्वारा संस्थान में हिन्दी के प्रगामी प्रयोग की स्थिति का जायजा लेने के लिए, स्वास्थ्य सेवा महानिदेशालय के हिन्दी प्रभाग से श्रीमती विशाखा बिष्ट, वरिष्ठ अनुवाद अधिकारी और श्री प्रहलाद कुमार झा, कनिष्ठ अनुवाद अधिकारी द्वारा दिनांक 31.05.2023 को संस्थान का निरीक्षण किया गया। इस अवसर पर संस्थान में विशेष हिन्दी कार्यशाला का आयोजन किया गया।
5. तीसरा अखिल भारतीय राजभाषा सम्मेलन दिनांक 14/09/20223 एवं 15/09/2023 को श्री शिवछत्रपति क्रीडा केंद्र पुणे, महाराष्ट्र में आयोजित किया गया था जिसमें संस्थान के सहायक निदेशक(राजभाषा), श्री मनीन्द्र नाथ विश्वकर्मा जी के द्वारा भाग लिया गया।
6. इस वर्ष 14 सितंबर से 29 सितंबर तक संस्थान में हिन्दी पखवाड़ा का आयोजन किया गया था। हिन्दी पखवाड़ा के समापन समारोह का आयोजन दिनांक 29/09/2023 को किया गया। कार्यक्रम की अध्यक्षता संस्थान के निदेशक डॉ रंजन दास के द्वारा की गयी। हिन्दी पखवाड़ा के दौरान टिप्पणी एवं प्रारूपण, निबंध प्रतियोगिता, सुलेख व श्रुति लेखन, साधारण ज्ञान प्रतियोगिता, कविता पाठ, सम्भाषण एवं कथा वाचन आदि प्रतियोगिताएं आयोजित की गईं। प्रतियोगिताएं हिन्दी भाषी एवं हिन्दीतर दोनों के लिए आयोजित की गई थीं। विजेताओं को अध्यक्ष के कर-कमलों द्वारा पुरस्कृत किया गया। हिन्दीतर प्रतियोगियों में सर्वश्रेष्ठ प्रदर्शन डॉ केतकी शर्मा का रहा जिन्होंने कुल चार पुरस्कार जीते। दूसरे स्थान पर संयुक्त रूप से श्री देवाशिष गोलदार, श्री इंद्रनील भद्र, श्री रितम हाज़रा, डॉ सयन भट्टाचार्य, एवं सुश्री अनुश्री कुंडु रहीं, जिन्होंने तीन-तीन पुरस्कार जीते। हिन्दी भाषी प्रतियोगियों में श्री अभिषेक चतुर्वेदी प्रथम स्थान पर रहे, जिन्होंने कुल चार पुरस्कार जीते। द्वितीय स्थान पर श्रीमती मोनालिसा साहू रहीं, जिन्होंने कुल तीन पुरस्कार जीते। श्री संजीव कुमार, श्री विकास कुमार एवं श्री निसु कुमार ने दो-दो पुरस्कार जीते। अन्य प्रतिभागियों को सांत्वना पुरस्कार प्रदान किया गया।
7. इस वर्ष दिनांक 08/11/2023 को कोलकाता के आई टी सी होटल के प्रांगण में संसदीय राजभाषा समिति की आलेख एवं साक्ष्य उप-समिति द्वारा माननीय संसद सदस्य(लोकसभा) श्री भर्तृहरि महताब जी की अध्यक्षता में, संस्थान का राजभाषा संबंधी कार्यों का निरीक्षण किया गया।
8. इस वर्ष हिंदी शिक्षण योजना द्वारा आयोजित जनवरी 2023 सत्र की हिन्दी प्रवीण एवं प्राज्ञ का प्रशिक्षण संस्थान में ही आयोजित की गई थी। इस वर्ष कुल 26 कर्मचारियों ने प्रवीण में एवं 11 कर्मचारियों ने प्राज्ञ में नामांकन कराया।
9. इस वर्ष अलग-अलग अवधियों में कुल तीन, तीन दिवसीय हिन्दी कार्यशालाओं का आयोजन किया गया। पहली कार्यशाला दिनांक 26.04.2023, 27.04.2023 और 02.05.2023 को आयोजित हुई, दूसरी कार्यशाला दिनांक 01.08.2023, 03.08.2023 और 04.08.2023 को आयोजित हुई एवं तीसरी कार्यशाला दिनांक 13.12.2023, 14.12.2023 और 15.12.2023 को आयोजित हुई।
7. संस्थान में व्यवहृत होने वाले अधिकांश कंप्यूटरों में यूनिकोड की व्यवस्था कर ली गई है इस पद्धति के द्वारा आसानी से हिन्दी में काम किया जा सकता है।



LIBRARY

Introduction:

The AIH&PH Institute Library is one of the few reference libraries on Public Health Sciences. It has a collection of more than 35 thousand books, 12 subscribed Journals, 2 complimentary journals and 3000 Reports, 75 Theses etc.

The Library also provides Reprographic Services for the users. The Institute Library has been identified as Regional Medical Library in the Eastern Region by D.G.H.S. and Ministry of Health and Family Welfare to promote Hygiene Library and serve the needs of Faculty/Staff and students.

Resources:

❖ **Infrastructure:**

- Reading — A Large reading hall along with displayed journals.
- Computer Infrastructure: 14 PC's for Readers with Broad-Band Internet Connection.
- Photocopying facility is available.
- **Library open time : 9.30am - 6.00 pm**

❖ **Books/ Journals/ Research Papers Collection:**

- No. of books in the Library: 35 thousand + books .
- No. of journals in the Library: 12 subscribed journals, 2 complimentary journals.
- Research Papers/reports/ in Library: 3000 .
- Thesis - 75 .
- Online Journals accessible : 247+ Journals and Cochrane Library Free access

E-Journals (ERMED) subscribed by the AIHHPH Library under NML Consortia.

❖ **Staff :**

Library Information Assistant --2 seat(1 vacant)
LDC/UDC- 2 (Both vacant)
MTS- 4 (1 vacant).

❖ **Special mentions :**

A massive Library Inhouse drive of digitisation is undergoing. The data entry part of work is rapidly progressing. Thesis, Reports entry are already completed. Book entry major part done and swiftly progressing.



BIDHAN NAGAR CAMPUS

Introduction:

The picturesque Bidhan Nagar Campus is situated at JC Block (27&27B), Salt Lake, Sector III, Kolkata 700106 under Bidhan Nagar Corporation area. Total area of this lush green complex is 10.86 acres. Out of this area 8.16 acres (approx.) was received from the State Govt. in JC 27 Block and 2.7 acres was received from National Institute of Homeopathy in JC-27B Block. The Campus comprises of residential and non-residential buildings, lush green compound and wide parking area. Residential buildings include quarters in blocks A to H, non-residential buildings include the main G+III institutional block, Guest House, International Hostel, a generator room and a few garages. The Institutional Building houses Additional Director's Office and four Departments namely D/O –Microbiology, Biochemistry & Nutrition and Sanitary Engineering.

The foundation stone of the Bidhan Nagar Campus as a nodal centre for education, training and research in public health was laid by Mr. A.R. Antulay, the then Minister of Health & Family Welfare in 1994. The campus started functioning when four departments namely, Microbiology, Epidemiology, Sanitary Engineering and Biochemistry & Nutrition were shifted from the main campus at the end of 2010. The full-fledged functioning of a separate office and establishment for B N Campus was started from September, 2013 with the shifting of establishment of all the employees posted here. B N Campus is headed by Additional Director who works under Director and looks after organizational functioning of campus and provides managerial support for smooth functioning of the departments in the campus.

The Regional Office, Ministry of Health & family Welfare is also housed in Block C of this campus.

Administrative Setup



Dr. Deepa Shaw
CMO, NFSG & Officer -in-Charge
MBBS

E-mail: officebnc4@gmail.com
aiihphbnc@gmail.com
Mobile No.: +91 90519 38055
Area of expertise: Clinical Medicine,
Administration.

Other Administrative Staff

Sl. No.	Cadre /Category	Number
1	Head Clerk	0
2	Assistant	1
3	UDC	2
4	LDC	2

Sl. No.	Cadre /Category	Number
5	Drivers	1
6	MTS	6
7	MTS (Safaiwala)	2

Institute Building

The main administrative cum Academic building houses the Director's room, the Additional Director's room, the administrative offices, caretaker section, store section, transport section, one seminar hall, one library room, two conference rooms apart from the class-rooms, faculty rooms and laboratories allotted to the four academic departments; Epidemiology, Biochemistry & Nutrition, Microbiology, & Sanitary department. Block A, F, G & H which includes two duplex quarters for the Director & Additional Director (A-1 & A-2). Block C houses MOH&FW office for which maintenance & repair work is done by CPWD from AIIH&PH fund. The campus has Gents and Ladies hostel with adequate facilities. The International hostel has 14 double bed rooms & 09 single bed rooms. The Guest House has 2 red suites, 2 grey suites & 3 double bed rooms.

- **Water treatment plant**

The plant with two deep tube wells to use underground water which has the facility of iron removal.

- **One jumbo generator set**

It acts as back-up in the event of power cut

- **Contractual canteen**

Canteen serves food for the employees, students & guests, which is temporarily closed.

- **Biomedical waste disposal**

A pit is constructed as per WHO guidelines.

- **Eco garden**

Eco garden is constructed to strengthen eco-friendly environment of the Institute.



Courses conducted at BN Campus:

Please see the reports of the different departments.

Other Special Services Provided in the Campus:

- Water Testing

Microbiological testing and chemical testing for hardness, alkalinity and presence of Chlorides, Iron, Arsenic and Fluoride are being done here by the Department of Microbiology and the Department of Sanitary Engineering.

- Yellow Fever Vaccination

Yellow Fever Vaccination has been made mandatory before the issue of VISA for visiting yellow fever-endemic areas/countries. In Kolkata, All India Institute of Hygiene & Public Health, being one of the nodal Centres, provides Yellow Fever Vaccine through its Microbiology Department.

Some Important Photographs of Events/Activities Carried out.



*Dengue Awareness Day on 30.01.2023
AIIH&PH at Bidhannagar Campus*



Immunology Day Celebration on 01.05.2023



World Environment Day Celebration at AIH&PH Bidhannagar Campus



Capacity Building Program at AIH&PH



iGot Karmayogi Training at AIH&PH Bidhannagar Campus

Field Units

RURAL HEALTH UNIT & TRAINING CENTRE, SINGUR

Introduction

RURAL HEALTH & TRAINING CENTRE serves as a hub for training both medical and paramedical students, focusing on promoting and protecting community health.

Rural Health Unit & Training Centre (RHU& TC), Singur, Hooghly, started as Maternity and Child Welfare Unit in 26th March, 1939. RHU&TC, Singur became a part of administrative control of AIHH& PH in 1944 - 45. This is the first Rural Health Unit & Training Centre in India which contributed to the “Bhore Committee Report”. This is one of the three field Pilot centres of Primary Health care in India. Rural Health Unit & Training Centre is located at a distance of 35 km. from Kolkata.



Village Map Of RHU&TC, Singur

The Rural Health Unit and Training Centre at Singur apart from working as a Community Health training Centre and field laboratory for Medical and Paramedical Students, also gives comprehensive Primary health care to 64 villages having population of about 1,02,905 through two PHC and 16 units or sub-centres.

ASHA based enumerated Population under RHU&TC: 1,02,905 (as on 01.11.2023)

Families: ≈ 25,397

64 Villages. (≈ 1/3rd of Singur Development Block. 2/3rd - WBHS)

23 Bricklin's population. (Population almost 4500 during peak season)

Total Area: 64.0 Sq. Km.

Objectives

- To provide rural field training of various UG, PG medical and Paramedical courses in Public Health.
- To help in performing Public Health (Field) Research by Students and Experts.

- To provide Primary Health Care in its service area including Public Health Surveillance and Outbreak Management.
- To provide Laboratory Services (Public Health Lab/ Biochemistry Lab) & Sanitary Engineering Services (Construction/ Disinfection of Tube wells).

Workforce Status for Public Health Services

Subcentre/Units	16
Community Health Officer (CHO)	0
Health Worker (F)	7
Health Worker (M)	0
Health Assistant (F) [1 HA for 2 units]	6
Health Assistant (M) [1 HA for 4 units]	0
Public Health Nursing Officer	4
Senior Public Health Nursing Officer	0
ASHA Worker	97

Primary Health Centre

- ❖ Primary Health Centres – 2 [Anandanagar (PHC) and Nasibpur (PHC)]
- ❖ Health Units/ Subcentre - 16 units/SCs
- ❖ Health units 1 to 6 and Ayma SC & Boichipota SC are under APHC and Health units 7 to 12, Purusottompur SC and Ramnagar SC are under NPHC.
- ❖ Only 5 units out of 16 units have separate infrastructure. (4 buildings of SC, i.e. Nasibpur, Balidipa, Paltagarh and Nanda belong to RHU&TC, Singur & 1 SC building, i.e., Dewanvery belonged to West Bengal Govt.).
- ❖ Laboratories – 2 (One in each PHC.).

Teaching activities

Teaching goal for medical and paramedical is to make them a competent for promotive & preventive health services to the patient and community and also acquire knowledge and skills in identifying health needs, able to do resource mapping and manage community health by use of principles and techniques of epidemiology, health management.

Community exposure including development of skills of Community Diagnosis was provided to PG Students of the institute as per curricular activity of MD (CM), MPH (Epidemiology), M.Sc (Applied Nutrition), DPH, DHPE, MVPH, DPHM, DHS students of the Institute. In addition, Post Graduates, Undergraduates and Paramedical students from various institute in the country also participate in field training program in Public Health at RHU&TC Singur.

Field-based training as per curricula for courses of different institutes:

Sl. No.	Institute	Course	No. of students	Duration
1	AIIH&PH	MSc Applied Nutrition & Dip.Diet	51	February 2023
2	AIIH& PH	Core course student 2022	21	Sep 2022- January 2023
3	AIIH& PH	Core course student 2023	20	11.12.2023 – 12.01.2024
4	AIIH&PH	DHPE & MSc in Public Health		06.02.2023 –
5	College of Nursing Eastern Command Hospital, Kolkata	BSc Nursing & MSc Nursing (2nd yr)	30	06.02.2023-05.03.2023
6	Regional College of Nursing, Guwahati.	MSc Nursing 2 nd yr.	6	01.07.2023 – 16.07.2023
7	College of Nursing, Tripura	MSc Nursing 2 nd yr.	2	Two months
8	Sikkim Manipal Institute of Medical Science, Gangtok	MSc Nursing 2 nd yr.	5	03.07.2023-22.07.2023
9	National Institute for Locomotor Disabilities, Bon Hooghly, Kolkata	MSc Nursing	10	19.02.2022 -30.09.2022
10	Tata Medical Centre, Kolkata	MSc Nursing 1 st yr	8	01.05.2023 -11.05.2023
11	Aliah University	BSc Nursing	64	02.01.2023 – 25.02.2023
12	The Calcutta Homeopathy Medical College and Hospital, Kolkata	BHMS	25	19.07.2023
13	National Institute of Nursing Education, PGIMER, Chandigarh	MSc Nursing 1 st yr	5	29.05.2023 – 02.06.2023
14	College of Nursing, Bankura Sammilani Medical College.	MSc Nursing 2 nd yr	5	12.02.2023 – 10.03.2023

Training of Field Functionaries

Observation of World Cancer Day	08.02.2023	All staffs of RHU&TC, Singur
CME on MRVC.	21.11.2023	HW, HA, PHNO
Orientation on Menstruation Hygiene Scheme.	14.02.2023	HW, HA, PHNO
Sensitization on Updated Family welfare Programme.	22.02.2023	HW, HA, PHNO
Observation of World Tuberculosis Day.	24.03.2023	HW, HA, PHNO
Workshop on National Iron Plus Initiative programme.	03.03.2023	ASHA
Sensitization on Intensified Mission Indradhanush 5.0 ,2023.	7 -12 August, 11-16 September, and 9-14 October 2023	HW, HA, PHNO

Diseases (Clinical & Lab based) 2023

Name of the Disease	Emergency	OPD
Diarrhoea	175	158
Helminths	152	168
Other GI (Acidity /pain /indigestion)	711	680
ARI	1215	2081
Fever	289	320
Fever with Rash	0	0
Vectorborne disease	4	0
Skin disease	224	245
STD/RTI	1	0
Musculoskeletal	917	840
TB	3	8
Hypertension	1629	1972
Diabetes	1286	790
Anaemia	5	11
Antenatal & Postnatal	14	108
Gynaecological	21	43
Respiratory(expect ARI/TB)	318	146
Others	1963	2178
Total	8927	9748

Performance Report of Public Health Laboratories

	Type of Sample	No. of Test	No. of (+)ve	Antenatal Mother		
				Type of Sample	No. Of Sample	Positive
A	Glucose	3150	1246	Hb%	583	146
				VDRL	577	00
B	Cholesterol	623	208	Gr-Rh	576	--
				Stool	480	16
C	Uric Acid	457	26	Urine	581	47
				Sugar estimation	578	03
	Grand Total	4230	1480	HBsAg	582	00

Type of Sample	Test	Positive	Hb%	1596	389
Blood	6214	559	Male	232	29
TC	319	02	<11gm	29	00
DC	319	25	<7gm	21	00
ESR	265	90	Female	1364	360
Gr-Rh	716	-	<11gm	360	00
BT-CT	06	-	<7gm	21	00
Malaria Parasite	1545	03	Dengue	273	49
ACD	1274	02	Urine	2109	120
PCD	271	01	Alb	849	63
VDRL	579	00	Sug	871	27
Male	00	00	Microscopy	122	30
Female	579	00	Preg.Color	264	00
HBsAg	596	01	BS-BP	01	00
Male	03	00	OBT	02	00
Female	593	01	Stool	510	16
			OPC	508	16

Community/Public Health Services

Important Indicators of PW- ANC Activities under RCH programme											
% 1st trimester			Apr -Oct % 180 Iron Folic Acid (IFA) tablets & % 360 Calcium tablets				ANC 4 or More Check Up				
Total number of pregnant women registered for ANC	Out of the total ANC registered, number registered within 1st trimester (within 12 weeks)	% 1st trimester	Number of PW provided full course 180 Iron Folic Acid (IFA) tablets	Number of PW provided full Course 360 Calcium tablets	% 180 Iron Folic Acid (IFA) tablets	% 360 Calcium tablets	Number of PW received 4 or more ANC check ups	% 4 or more ANC check ups	% PW given one Albendazole tablet after 1st trimester	Number of PW given Td1+Td Booster	% of Td1+Td Booster coverage
989	955	96.50%	889	866	89.80%	87.50%	861	91%	98.2	989	100

Pregnancy Outcome & Postnatal Care															
Total Delivery -- 929															
Caesarian section	Normal delivery	Live birth-Male	Live Birth -Female	Birth Weight >2.5 kg	Birth weight < 2.5 kg	Nursing Home	Govt Hosp	Home Delivery	Abortion(Spontaneous)	Stillbirth	Within 24 hrs	Infant Death	6 HBNC by ASHA	Ligation	
											Within 4 wks	Within 1 yr			
640	285	478	451	772	197	434	492	1	49	7	0	8	0	881	249
Important Indicators of PW- ANC Activities under RCH programme															
Number of PW tested for Haemoglobin (Hb) 4 or more than 4 times for respective ANCs	No of PW < 11 gm Hb	Number of PW tested for Blood Sugar using OGTT(Oral Glucose Tolerance Test)	% PW tested with OGTT	Number of pregnant/Direct-In-Labor (DIL) women screened/tested (with RDT/PoC) for Syphilis &HIV	Number of pregnant women screened/tested (with RDT/PoC) for HBsAG	Total High Risk Pregnancy (HRP) Antepartum (Only New Cases are to be reported)	Total High Risk Pregnancy (HRP) Antepartum (Only New Cases are to be reported) attended PMSMA clinic								
954	113	521	55.4	978	596	91	82								

Distribution of Eligible Couples by Age and practice of F.W. Methods as on 31.03.2023												
Age Group	Not practicing F.W. Methods	Vasectomy	Tubectomy	Total(3)+(4)	IUCD Users		C.C. Users	OCP Users	Antara Users	Chhaya Users	Total (5) to (11)	Total (2)+(12)
					Interval	PP- IUCD						
1	2	3	4	5	6	7	8	9	10	11	12	13
15-19	113	0	3	3	0	34	119	20	4	4	184	297
20-24	877	0	271	271	8	258	924	606	19	16	2102	2979

Distribution of Eligible Couples by Age and practice of F.W. Methods as on 31.03.2023												
Age Group	Not practicing F.W. Methods	Vasectomy	Tubectomy	Total(3)+(4)	IUCD Users		C.C.Users	OCP Users	Antara Users	Chhaya Users	Total (5) to (11)	Total (2)+(12)
					Interval	PP- IUCD						
25-29	860	0	890	890	18	273	919	716	7	18	2841	3701
30-34	894	1	1313	1313	12	78	663	592	4	5	2667	3561
35-39	821	1	1225	1225	7	43	422	293	4	1	1995	2816
40-44	699	1	1037	1037	2	0	224	130	0	0	1393	2092
45-49	509	0	671	671	0	0	65	38	0	0	774	1283
Total	4773	3	5410	5410	47	686	3336	2395	38	44	11956	16729

Couple Protection Rate - 71 %

Child Immunisation Performance Report (Source- HMIS Report)									
BCG	Penta 1, OPV1, RVV1, fIPV1, PCV1	Penta 2, OPV2, RVV2	Penta 3, OPV3, RVV3, fIPV2, PCV2	MR1, JE1, PCVB, fIPV B	MR2, JE2, DPT B1, OPV B	Full Immunization	MRVC Target	MRVC Achieved	
55	890	862	888	901	901	901	24555	15298	

Adolescent Programme

Menstrual Hygiene scheme Report

Total No of Girls Covered	735
Total No. of sanitary napkin distributed	6470 pkts
To no of Adolescent meeting conducted by ASHA	431

National Tuberculosis Control Programme :

GP wise Screening report (Sputum for AFB)

Anandanagar GP	98
Boichipota GP	58
Bagdanga Chhinamote GP	181
Nasibpur GP	226
Bariipara Paltagarh GP	82
Gopalnagar GP	36

Total Case diagnosed and on treatment	41
Cure rate	90%
Success rate	91.3%
Death	1

Pulse Polio Immunisation Programme:

Total round -2 May 2023 & December 2023

Number of child (0 – 5 yr.) Immunised - 5545 in each round

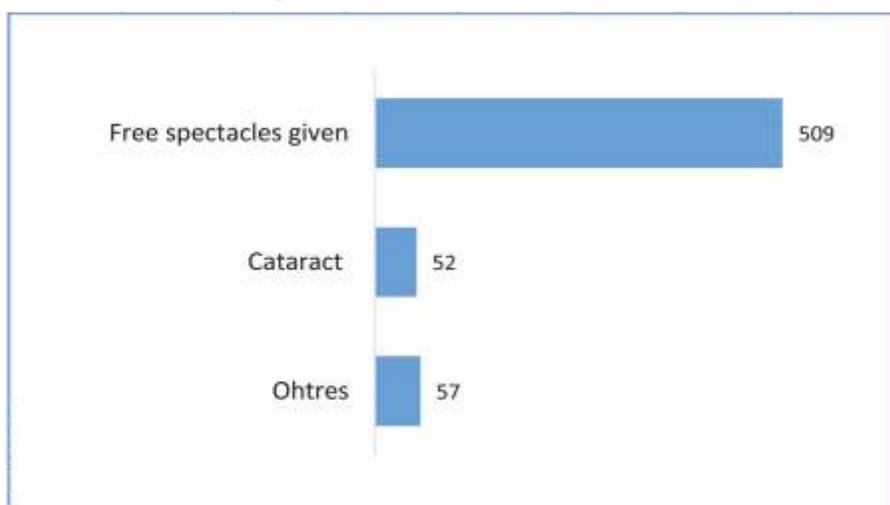
National Iron Plus Initiative:

Total MALE child Covered – 1898

Total Female Child Covered - 1881

National Leprosy CONTROL PROGRAMME:

Total CASE ON TREATMENT – 4 (MB Adult)

National Blindness Control Programme**Sanitary Engineering Section**

Nature of Work	Total Number
Disinfection of Tube Well & Tube well Platform	159
Tube Well Repairing	19
Water sample collection for Routine Chemical Analysis of water Sample	05
Routine Chemical Analysis of water sample	05
Classes taken on method of chemical Analysis of drinking water	10
Demonstration given on Environmental Sanitation.	13
Tube well maintenance work	11
Bacteriological Analysis of water Sample (During Outbreak , using H₂S Kit)	11
Regular maintenance of Demonstration corner at RHU&TC,Singur	
Give Awareness to the villagers of the service area during disinfection work about utility of keep the tube well platform clean to avoid source contamination in drinking water (No of village cover)	21
Take Part in Dengue Awareness at Khosalpur ,Noapara , and Balitipa village.	16
Households Numbering for student programme at Gomotia village.(in Days)	03
Sanitary Survey at Eighty One (81) houses of Gobindapur Village along with SHI students. (in Weeks)	01



Sensitisation of ASHA & AWW on Dengue Outbreak Management at NPHC



Menstruation Hygiene Scheme



International YOGA Day Celebration



Convergence Meeting



Pulse Polio Immunisation Programme

URBAN HEALTH UNIT & TRAINING CENTRE

The Urban Health unit & Training Centre, Chetla is urban field practice area of All India Institute of Hygiene & Public Health, Kolkata. This Centre established in 1955. This centre is oldest of its kind in Southeast Asia along with its unique public health practice field. This centre provides community-based learning opportunity and quality teaching / training, not only to the public health students of the Institute but also from other health institutions of India and abroad. This centre offers best possible integrated health care service to the community mostly the slum dwellers, both in the clinical setting and in the community. Total field Practice area of Urban Health Unit & Training centres about 3.9 Sq. Km over population 1 lakh divided predominantly in KMC ward 74 & 82.

Functions of Urban Health Unit & Training Centre are as follows.

- **Teaching & Training:** UHU&TC provides community-based learning opportunities to generate skilled public health manpower.
- **Investigations & Research:** Mostly need based operational and health system research.
- **Services to the Community:** Integrated facility and community-based preventive, promotive and curative services.
- **Surveillance, Outbreak Investigation & Containment Measures.**
- **In National emergencies as per directives of Government of India.**

Manpower

	Dr. Amitabha Dan, MBBS(Caf), DIH(Caf), Master of Applied Epidemiology (Chennai) PHS(SAG) & Additional Director, UHU&TC, Chetla. E-mail : dan.amitabha@gmail.com Mob No. 7044544489
	Dr. Sanjib Kumar Das, DCH ,DNB (PED) CMO NFSG UHU&TC, Chetla. E-mail: drsanjib.das@gmail.com Mob.No.7044328468
	Dr. Rajarshi Chakraborty Senior Medical Officer M.B.B.S E-mail: raj700031@gmail.com Mobile No.: 983046456
	Dr. Bokam Usha Rani Medical Officer M.B.B.S E-mail: usharani.b25@gmail.com Mobile No.: 76800 27145
	Dr. Shilpa Krishna K , Medical Officer M.B.B.S(ATIMS) E-mail: shilpakrishna16@gmail.com Mobile No. 7978427043

Training Programme Organized: -

Nursing Students from Different Institutes of West Bengal.

No of Batches- 23 No of Students- 611

Sl No	Name Of Programme	Duration/Dates	No of Students	Name of the Institute
1	Field Training Programme of B.Sc Nursing Students (Final Yr - 1 st Batch)	2 Wks (05/12/22-16/12/22)	27	College of Nursing, IDBG Hospital, Kolkata.
2.	Field Training Programme of B.Sc Nursing Students (Final Yr -2nd Batch)	2 Wks (19/12/22-30/12/22)	26	College of Nursing, IDBG Hospital, Kolkata.
3.	Field Training Programme of B.Sc Nursing Students (Final Yr - 1 st Batch)	2 Wks (02/01/23-13/01/23)	24	College of Nursing, Medical College Hospital, Kolkata.
4.	Field Training Programme of B.Sc Nursing Students (Final Yr -2nd Batch)	2 Wks (16/01/23-27/01/23)	25	College of Nursing, Medical College Hospital, Kolkata.
5.	Field Training Programme of GNM Student (1 st Batch)	2 Wks (30/01/23-10/02/23)	45	Nurse's Training School ESI Hospital, Manicktala, Kolkata.
6.	Field Training Programme of GNM Students (2 nd Batch)	2 Wks (13/02/23-24/02/23)	45	School of Nursing, ESI Hospital, Manicktala, Kolkata.
7.	Field Training Programme of Post Basic B.Sc Nursing Students (Final Yr - 1 st Batch)	2Wks (27/02/23-03/03/23 & 13/03/23 -17/03/23)	30	College of Nursing, Medical College Hospital, Kolkata.
8.	Field Training Programme of Post Basic B.Sc Nursing Students (Final Yr -2nd Batch)	2Wks (20/03/23-24/03/23)	30	College of Nursing, Medical College Hospital, Kolkata.
9.	Field Training Programme of B.Sc Nursing Students (Final Yr - 1 st Batch)	2Wks (02/05/23-12/05/23)	31	College of Nursing, R G Kar Medical College & Hospital, Kolkata.
10.	Field Training Programme of B.Sc Nursing Students (Final Yr - 2nd Batch)	2 Wks (15/05/23 - 26/05/23)	31	College of Nursing, R G Kar Medical College & Hospital, Kolkata.
11.	Field Training Programme of M.Sc Nursing Students	4 Wks (02/05/23 – 26/05/23)	05	College of Nursing, R G Kar Medical College & Hospital, Kolkata.
12.	Orientation Visit of M.Sc Nursing Students	1 Day (11/05/2023)	05	College of Nursing, S S K M Medical College & Hospital, Kolkata.
13.	Field Training Programme of M.Sc Nursing Students	4 Wks (22/05/23 – 16/06/23)	06	College of Nursing, IDBG Hospital, Kolkata.
14.	Field Training Programme of ANM Students (1 st Year -1 st Batch)	2 Wks (05/06/23–16/06/23)	30	ANM (R) Training School Vidyasagar S G Hospital Behala, Kolkata.
15.	Field Training Programme of ANM Students (1 st Year - 2 nd Batch)	2 Wks (19/06/23–30/06/23)	30	ANM (R) Training School Vidyasagar S G Hospital Behala, Kolkata.
16.	Orientation Visit of M.Sc Nursing Students	1 Day (22/06/2023)	05	College of Nursing, N R S Medical College & Hospital, Kolkata.
17.	Field Training Programme of ANM Students	2 Wks (03/07/23–14/07/23)	58	ANM (R) Training School Vidyasagar S G Hospital

2.	Field Training Programme of M.Sc (Applied Nutrition) Students	2 Wks (10/07/23 – 21/07/23)	13	Dept. of Biochemistry & Nutrition , AIHH & PH.
3.	Field Training Programme of Dip. Diet Students	2 Wks (10/07/23 – 21/07/23)	12	Dept. of Biochemistry & Nutrition , AIHH & PH.
4.	Orientation Visit of BHMS Students.	One Day (26/07/23)	66	National Institute of Homeopathy, (NIH) Kolkata -700106.

Training Programme (Special) for the boarder (Home Less) of ISWAR SANKALPA

Sl No	Name Of Programme	Duration/Dates	No of Participants	Name of the Institute
1.	Training Programme on BASIC HEALTH & HYGIENE (1st Batch)	4 Days (15/02/23- 17/02/23 & 20/02/23)	10	ISWAR SANKALPA(Support for the mind)
2.	Training Programme on BASIC HEALTH & HYGIENE (2nd Batch)	4 Days (22/02/23- 24/02/23 & 27/0/23)	10	ISWAR SANKALPA(Support for the mind)
3.	Training Programme on BASIC HEALTH & HYGIENE (3rd Batch)	4 Days (01/03/23- 03/03/23& 06/03/23)	10	ISWAR SANKALPA (Support for the mind)
4.	Concluding Session with Distribution of Certificates	09/03/2023	30	ISWAR SANKALPA (Support for the mind)

Total No of Students - A+ B + C + D (611+18+ 94 +30) = 753

2. ORIENTATION TRAINING PROGRAMME, UHU&TC, CHETLA

Total No- 05

Total Participants- 94

Sl No	Name of the Training Programme	Date of Programme & Venue	Number & Type of Participants	Speaker
1.	Orientation programme on Fipv-3 & Measles/Rubella Vaccination Campaign Programme.	01/01/2023 Class Room Of UHU&TC	12 CMO,SMO,MO,PHNO &HA (F)	Mrs Kakali Roy, SPHNO
2.	"Time to deliver zero malaria: invest, innovate, implement"- WORLD MALARIA DAY	25/04/2023 Auditorium UHU&TC	10 MO,SPHNO,PHNO & HA(F)	Dr. Ketaki Sharma, CMO (NFSG)
3.	Orientation Programme on HMIS Portal (New Format)	27/08/2021 Committee Room,UHU&TC,	18 CMO,SMO,MO,PHNO, HA (F),Lab Technician &DEO	Mrs Kakali Roy, SPHNO
4.	Fungal infection Awareness Week	05/10/2023 Committee Room,UHU&TC,	28 All Officers & Staff of UHU&TC,Chetla	Dr Amitabha Dan Dr.Sudhakar Rao Dr.Sayan Bhattacharya Dr. Atul Raj

				Dr. Sanjib Das Dr. Rajarshi Chakraborty.
5.	<u>Adult Vaccination</u>	10/10/2023 Auditorium, UHU&TC,Chetla	26 All Officers & Staff of UHU&TC,Chetla	Dr.Amitabha Dan Dr.Madhumita Bhattacharya

3. AWAREWNESS PROGREAMME AT UHU&TC, CHETLA

Total No of Awareness Programme- 09

Total Participants- 1034

Sl No	Name of the Programme	Date & Place	No & Type of Participants	Organized by
1.	Communicable Disease	30/12/2022 Gitanjali Club 19B Chetla Hat Rd. Chetla	27 Community People	Bsc Nursing Students of CON, IDBG Hospital & MCH Unit of UHU&TC,Chetla
2.	DENGUE	13/01/2023 Nabadiganta Club 101 Alipur Rd. Chetla	19 Community People	BSc Nursing Students of CON, Medical College Hospital & MCH Unit of UHU&TC,Chetla.
3.	Menstrual Hygiene & Personal Hygiene	09/02/2023 Multipurpose Government Girls School, 20 B Judges Court Road, Kol -27.	614 School Students, Teacher & Mother	GNM Students of NTC,ESI Hospital,Manicktala & SH Unit of UHU&TC, Chetla
4.	Adverse effect of Technology	16/02/2023 New Alipore Multipurpose School, New Alipore	205 School Students & Teacher	GNM Students of NTC,ESI Hospital,Manicktala & SH Unit of UHU&TC, Chetla
5.	Prevention of Dengue	31/03/2023 Milan Chakra Club, 10 GA Rd, Chetla.	37 Community People	Post Basic BSc Nursing Students of CON, Medical College Hospital & MCH Unit of UHU&TC, Chetla.
6.	Prevention of Vector borne Diseases	26/05/2023 20/1 Chetla Hat Road.	31 Community People	M.Sc Nursing Students of CON, R.G.Kar Hospital & MCH Unit of UHU&TC,Chetla.
7.	Prevention of Diarrhoea & Preparation of ORS	15/06/2023 Community Hall, UHU&TC, Chetla	46 Community People	ANM Students of NTC, Bidyasagar Hospital,Kol & MCH Unit of UHU&TC, Chetla.
8.	Prevention of Malaria & Dengue	14/07/2023 Kolahal Gosti	26 Community People	ANM Students of NTC, Bidyasagar Hospital,Kol

Sl No	Name of the Programme	Date & Place	No & Type of Participants	Organized by
		42/A Raja Santosh Rd,		& MCH Unit of UHU&TC, Chetla.
9.	Prevention of Air Pollution & Prevention of Water Borne Diseases	27/07/2023 Junior Sporting Club, Raja Santosh Road	29 Community People	ANM Students of NTC, Bidyasagar Hospital, Kol & MCH Unit of UHU&TC,

4. CELEBRATION / OBSERVATION OF SPECIAL DAYS AT UHU&TC, CHETLA

Total No. of DAYS Celebrated - 21

Total Participants- 576

Sl No	Name of the Programme	Date & Place	No & Type of Participants	Organized by
1.	World Leprosy Day	30/01/2023 School Health Clinic, UHU&TC	32 School Students & Parents	School Health Unit, UHU&TC.
2.	World Cancer Day	06/02/2023 School Health Clinic, UHU&TC	22 School Students & Parents	School Health Unit, UHU&TC.
3.	National Science Day	28/02/2023 Dharmadas Model School	38 School Students & Teachers	School Health Unit, UHU&TC.
4.	National Vaccination Day	16/03/2023 Sahid Smriti Vidyalaya	16 School Students & Teachers	School Health Unit, UHU&TC.
5.	World Kidney Day	23/03/2023 Kailash Vidyamandir	63 School Students & Teachers	School Health Unit, UHU&TC.
6.	World TB Day (Elimination of TB by 2025)	24/03/2023 UHU&TC, Chetla	33 TB Patient & Family Member	TB Unit UHU&TC, Chetla
7.	World Health Day	10/04/2023 School Health Clinic, UHU&TC	22 School Students & Parents	School Health Unit, UHU&TC.
8.	World Malaria Day	24/04/2023 School Health Clinic, UHU&TC	19 School Students & Parents	School Health Unit, UHU&TC.
9.	World environment day (Rally & Drawing Competition)	02/06/2023 Community Hall UHU&TC, Chetla.	50 School Going Children.	Urban Health Unit & Training Centre.
10.	World Thalassaemia Day	08/05/2023 School Health Clinic, UHU&TC	17 School Students	School Health Unit, UHU&TC.
11	World Anti Tobacco Day	31/05/2023	30	School Health Unit, UHU&TC.

		School Health Clinic,UHU&TC	School Students , Teachers & Parents.	
12.	International Day of YOGA	21/06/2023 Community Hall UHU&TC, Chetla.	52 All Officers & Staff of UHU&TC, Chetla	Urban Health Unit & Training Centre.
13.	World Hepatitis Day	31/07/2023 School Health Clinic,UHU&TC	17 School Students & Parents.	School Health Unit, UHU&TC.
15.	World Breast Feeding Day	09/08/2023 Community Hall, UHU&TC, Chetla	14 Post Natal & Lactating Mother	BSc Nursing Stds of Aliah University & MCH Unit of UHU&TC,Chetla.
16.	Nutrition Month	06/09/2023 School Health Clinic,UHU&TC	17 School Students & Parents.	School Health Unit, UHU&TC.
17.	First Aid Day	12/09/2023 Alipur Abaitanik KMCP School	20 School Students & Teacher	School Health Unit, UHU&TC.
18.	Literacy Day	26/09/2023 Deshbandhu Bafika Vidyalaya	46 School Students & Teacher	School Health Unit, UHU&TC.
19.	World Rabies Day	29/09/2023 Sahid Smriti KMCP School	12 School Students & Teacher	School Health Unit, UHU&TC.
20.	World Food Day	16/10/2023 School Health Clinic,UHU&TC	12 School Students & Parents.	School Health Unit, UHU&TC.
21.	Vigilance Awareness Week	03/11/23 Class Room UHU&TC,Chetla	44 All Officers & Staff of UHU&TC, Chetla	UHU&TC, Chetla

MCH ACTIVITIES OF UHU&TC, CHETLA.
(December -2022 to November-2023)

	DATA ITEM	TOTAL
A	ANC SERVICES	
1	Total No of ANC Reg.	45
2	ANC Registered within 1st trimester	45
*	Total antenatal mother under MCH care	108
3	ANC-Td /1	45
4	ANC-Td/2	37
5	ANC-Td/Booster	06
6	ANC-180 IFA Tablet	112
7	ANC-360 Calcium Tablet	112
8	ANC-1 Albendazole Tab > 12 Wks.	20
9	4 or more ANC Check up	79
B	PNC Service	
A.	Total post-natal mother under MCH care	144
1	PN Mother -180 IFA Tab	144
2	PN Mother -360 Ca Tab	144
C	FP Services	
1	No of OCP Distributed	263

2	No of Condom pcs Distributed	8170
3	No of Injectable Contraceptive (Antara Prog.)	136
4	No of Centchroman (Wkly) Pill Distributed	69
5	No of Pregnancy Test Kit Used	676
	Total no of children from 0-5 years under MCH care	1137
	Total no of families under MCH care	8362
	Total no of family members	39363
	Total no of eligible couples under MCH care	8543
D	CHILD IMMUNIZATION	
1	BCG	00
2	Pentavalent-1	47
3	Pentavalent-2	56
4	Pentavalent-3	71
5	OPV-0	0
6	OPV-1	47
7	OPV-2	56
8	OPV-3	71
9	PCV-1	47
10	PCV-2	71
11	PCV-BD	87
12	FIPV-1	47
14	FIPV-2	71
15	Rota Virus Vaccine -1 (RVV-1)	47
16	Rota Virus Vaccine -2 (RVV-2)	56
17	Rota Virus Vaccine -3 (RVV-3)	71
18	MR-1	85
19	JE-1	93
20	Fully Immunized-Male (9-11 months)	39
21	Fully Immunized-Female (9-11 months)	46
22	Total Fully Immunized	85
23	MR-1 (after 1 yr. of age)	00
24	JE-1 (after 1 yr. of age)	00
25	MR-2 (16-24 Months)	96
26	JE-2 (16-24 Months)	109
27	DPT-Booster (16-24 months)	107
28	OPV- Booster (16-24 months)	107
29	DPT-5 Yrs.	114
30	TT/ Td -10 Yrs.	132
31	TT/Td -16 Yrs.	134
32	Immunization Session Planned	
33	Immunization Session Held	
34	Vitamin A Dose-1st	103
35	Vitamin A Dose-5th	57
36	Vitamin A Dose-9 th	25
37	No of Child(12-59 months)-Albendazole	306
E	Childhood Diseases-	
38	Pneumonia	262
39	Diarrhoea	136
40	Tuberculosis	00
41	Malaria	00
42	Measles suspected	02
43	AFP	00
44	No of severely underweight Children	00

Total Number of MCH OPD Attendance

Month	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	June-23	July-23	Aug-23	Sep-23	Oct-23	Nov-23
MCH Attendance	1093	596	604	466	350	356	687	615	500	465	507	476

SPECIAL PUBLIC HEALTH PROGRAMME, UHUTC, CHETLA

(DECEMBER-2022 TO NOVEMBER-2023)

- 1. Outreach Session/Urban Health & Nutrition Day (UHND)-**
No of session held-----14
No of Beneficiaries Attended--- 387
- 2. IDCF (Intensified Diarrhoea control Fortnight)-From 15/07/2023 to 30/07/2023**
No of under five children covered---300
- 3. VAS (Bi-Annual Vitamin A Oil Supplementation Programme)-December-2022 & June 2023---394**
- 4. World Population Control Fortnight (27/06/2023 to 24/07/2023)**

Method	No Of Beneficiaries
Oral Pill Distributed	15 Cycle
Conventional Contraceptive Distributed	700 Pcs
Injectable Contraceptive (Antara)	9 Doses
Emergency Contraceptive Pill (Ecp)	9 Cycle

- 5. Intensified Pulse Polio Programme (IPP)-2023-----52**
- 6. NEW INITIATIVE:-**
 1. Few vaccines are introduced as Booster dose—fIPV-B, PCV-B.
 2. New family planning method (Implant method) introduced.
 3. MR campaigning.

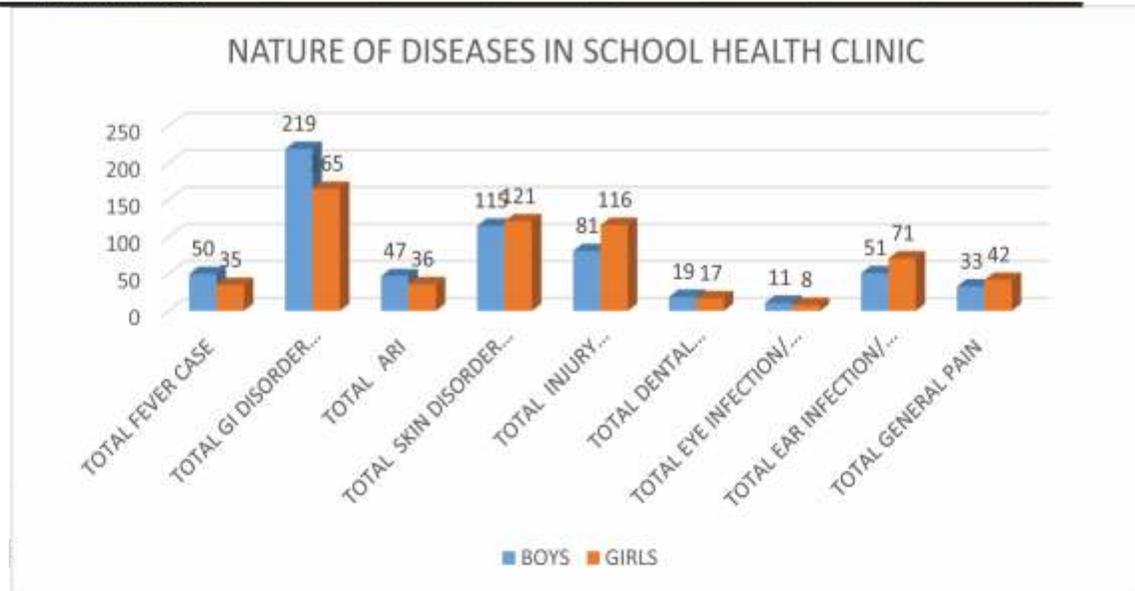
Mental Health Clinic

- Consultant Psychiatrist Dr Anjan Boral attends Mental Health Clinic twice in a month i.e on 2nd & 4th Monday of every month.
- Total No. of Clinic= 21
- Total No. of patients=34(Male=20 Female=14) New= 12 Old=22)
- Mr Dilip Kumar Baidya, Social Worker assists consultant psychiatrist Dr Anjan Boral. He also registers, counsels patients and family members.
- We dealt with the patients of depression, anxiety and schizophrenic patients.

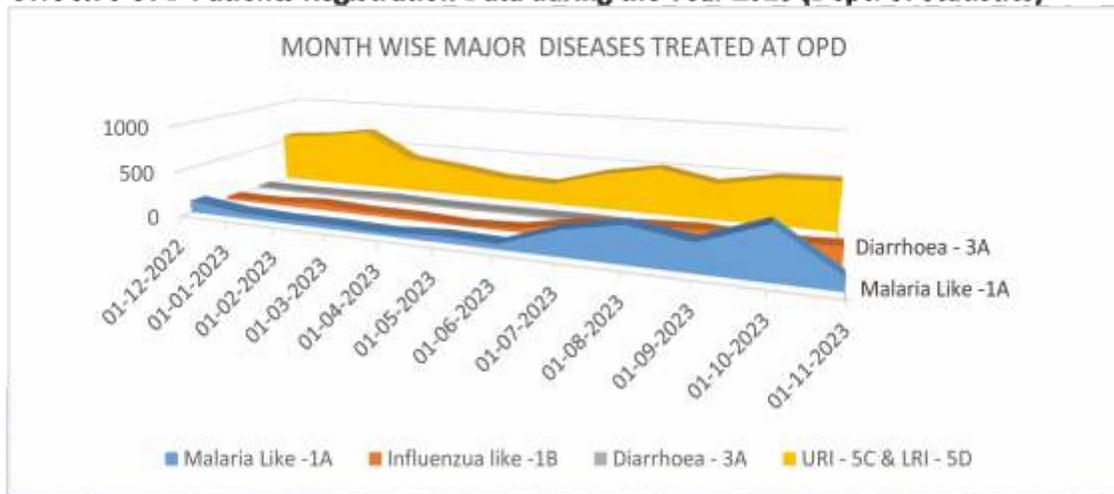
SCHOOL HEALTH OPD CLINIC REPORT

NO OF CLINIC SESSIONS	104
TOTAL BOYS	574
TOTAL GIRLS	506
TOTAL DISEASED STUDENT	1080

NATURE OF DISEASES IN SCHOOL HEALTH CLINIC



UHU&TC OPD Patients Registration Data during the Year 2023 (Dept. of Statistics)

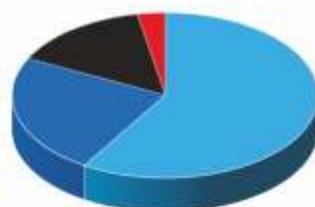


TB UNIT REPORT 2023

	No. Of Cases
1. Total Number of Tb Cases:	52
Pulmonary:	31
Extra Pulmonary	21
2. New Smear Positive	23
Smear Negative	2
Extra Pulmonary	18
3. Re-Treatment Cases	9

Smear Positive	5
Smear Negative	1
Extra Pulmonary	3
CBNAAT	4
4. Category - I	43
Category -II	9
7. Treatment Out Come	36
Cured Case	20
Treatment Completed Case	8
Number of Death Case	5
Number of Failure Case	0
Number of Defaulter Case	1
Number of Admission Case	0
Number of Referred Case:	2
8. Total No. of HIV Positive Case	0
9. Total No. of MDR Case	0
10. Total No. of Male Case	37
11. Total No. of Female Case	15
12. Total No. of Child Case	2
13. Total No. of XDR Case	0

TREATMENT OUTCOMES N=36



■ CURED CASE ■ TREATMENT COMPLETED ■ DEATH
■ FAILURE ■ DEFAULTER ■ ADMISSION

PUBLIC HEALTH LABORATORY, U.H.U.&T.C. CHETLA, REPORT FROM DEC' 2022 TO NOV' 2023

Span of Time	Total no. of tests	Total no. of samples	Total no. of patients	Total no. of blood tests	Total no. of hb % Test	TC	DC	ES R	Other haem. Blood tests	Total Blood group test	Typ hl Dot Test	Ra Factor Test	C.R. P. Test	Aso titre test	Syph Iils test
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December '22 to November '23	12988	6319	4932	11153	1180	1421	1421	953	111	134	123	45	63	22	35
Span of Time	HBS Ag Test	Total malaria test	Total malaria positive	Blood sugar test	Uric Acid test	Cholesterol test	Triglyceride Test	HDL test	LDL test	VL DL test	Total urine test	Total faeces test	Faeces obt test	Total sputum AFB slide	Total sputum AFB possible
December '22 to November '23	35	2933	296	1120	258	276	255	255	255	255	1277	197	25	361	22

Research and Publications

- This centre provides opportunity to carry out research studies for students as a part of their teaching curriculum. Some Public Health oriented research activities are also undertaken by the officers of this centre.
- Dan A et al. International Journal of community medicines and public health.2023Nov;10(11):4262-4266.Nutritional status and morbidity pattern among school children in an urban slum of Kolkata, India. Amitabha Dan¹,A.R.Pasi², Selvaganapathi S.²,Maitreyee G.P.¹,Prithu Purkait³
- Journal of Community Pharmacy Practice.ISSN:2799-1199 Vol 3,No.06,Oct-Nov 2023.Assessment of knowledge of people Regarding Antibiotic and its Usage. Goswami S¹, Bhattacharyya S^{2*}, Dan A³

Membership of Committees

- **Dr. Amitabha Dan, PHS(SAG) & A.D acted as**
 - Member of Faculty council of AIHH&PH.
 - Member of Swachh Bharat Supervision Committee of AIHH&PH.
 - Member of fact finding committee of AIHH&PH.
 - Member of project management of AIHH&PH.
 - Member of biomedical waste management committee of AIHH&PH.
- **Dr. Sanjib kumar Das, CMO (NMSG)**
 - Member of Medical Scrutinising Committee of AIHH&PH.
 - Member of condemnation committee of AIHH&PH.
- **Dr. Rajarshi Chakraborty, Medical officer, acted as**
 - Member of Preventive vigilance committee of AIHH&PH.

Conference/Seminars/Workshops Attended

- Dr. Rajarshi Chakraborty, SMO, attended training programs conducted by INGAF on procurement, ethics & governance, systems & procedures of organisation, cyber hygiene & security on 01/11/2023 & 02/11/2023 & Functions of HOO & DDO on 12/5/2023 & Income tax rules, GST & TDS on 01/05/2023 and PFMS module on 27/04/2023. He

have also attended online training on administrative vigilance role of IO/PO on 3rd July to 7th July 2023.

- Dr. Bokam Usharani, MO attended training on CCS conduct rules conducted by INGAF on 17/05/2023
- Dr. Bokam Usharani, MO and Dr. Shilpa Krishna k MO, attended 3 days orientation training program on routine immunization for MO, by govt. of West Bengal on 29 to 31st march,2023
- Dr. Bokam Usharani, MO and Dr. Shilpa Krishna k MO,attended training program on leave rules and CGEGIS by INGAF on 04/05/2023.
- Dr. Shilpa Krishna k MO and mrs.firoza khatun(PHNO) attended district level orientation training on new contraceptive implant for health care providers by govt. of west Bengal on 02/11/2023
- Mrs.Firoza khatun,PHNO attended district level review meeting on mission Indradhanush conducted by govt. of West Bengal on 04/09/2023.
- Mrs.kamala das Biswas,HA(F) attended Cold chain handler training on 06/11/2023 conducted by govt of west Bengal.



Plantation



World TB day 2023 was observed at TB unit, UHU&TC,chetla



Yoga instructor smt. Sanju kumari with staff members



IMPORTANT COMMITTEES/STATUTORY BODIES

Faculty Council

The Faculty Council is the executive body of the Institute, which deliberates and decides all academic issues, including the support services for the academic activities. Presently, Dr. R. R. Pati, Director of the Institute is the Chairman of the Council and Dr. Debashis Dutt, Director-Professor, Dean and HOD (PHA) is the Member Secretary. All Head of Departments/Training Centres and the Additional Director, in-charge of the Administration and the Additional Director, in-charge of the B. N. Campus are members of the Faculty Council.

Office Council

The scheme of Joint Consultative Machinery (JCM) is a platform for constructive dialogue between the representatives of the staff side and the official side for peaceful resolution of all disputes between the Government as an employer and the employees.

The JCM Scheme provides for setting up of Joint Councils under three tier system – i) National Council at the National level, ii) Departmental Council at each Department / Ministry level, and iii) Office Council at Regional / Office level.

This Institute also has an Office Council consisting of both Official Side and Staff Side. The Director of this Institute is the Chairman and the Administrative Officer is the Member-Secretary of the Office Council. The Additional Director of this Institute and the Officer-in-Charges of our three units are members of the Office Council from the Official Side.

There are three recognized Staff Associations in this Institute – i) Hygiene Institute Staff Association (HISA), ii) All India Institute of Hygiene & Public Health Employees Union (AIH&PHEU) and iii) A.I.I.H&P.H Permanent Karmachary Sangha (AIHHPKPS). The Presidents and the General Secretaries of these recognized associations are the Staff Side leaders of the Office Council and the other eight staff members (six from each association) nominated by the respective staff associations are the Staff Side members of the Office Council.

Important Committees/Statutory Bodies

- Anti-Ragging Committee
- Central Public Information Officer
- Condemnation Committee
- Curriculum Committee
- Departmental Canteen Committee
- Drone Technology in Healthcare Project
- Faculty Council
- First Appellate Authority under RTI
- Grievance Officer
- Hostel Committee
- Institutional Animal Ethics Committee (IAEC)
- Institutional Ethics Committee (IEC)
- Internal Complaints Committee
- Joint Consultative Machinery
- Library Committee
- Medical Education Unit
- Minority Cell
- Office Council
- Preventive Vigilance Committee
- SC/ST/OBC Grievance Cell
- Scientific Advisory Committee
- Side members of the Office Council.
- Swachh Bharat Mission Committee
- Training Cell
- Vigilance Officer
- Welfare Officer
- Women's Grievance Cell/ Sexual Harassment Committee

Human Resource Movement - 2023
Our New Friends

Sl. No.	Name	Designation	Date of Joining	Applicable Level in Pay Matrix
1.	Dr. Rivu Basu	Asst. Prof.	14-03-2023	11
2.	Dr. Kiran Swapnil Akhade	Asst. Prof.	14-09-2023	11
3.	Dr. Shubhra Chattopadhyay	Asst. Prof. (contractual)	14-03-2023	Consolidated
4.	Dr. Sumanto Pal	PHS Grade-I	01-12-2023	11
5.	Dr. Swetha Rajeshwari	PHS Grade-III	04-12-2023	11
6.	Harikrishna B N	PHS Grade-III	14-12-2023	11
7.	Dr. Sankar Sikdar	MO	02-03-2023	10
8.	Dr. Shilpa Krishna K	MO	07-03-2023	10
9.	Dr. Anas Faiz K C	MO	09-03-2023	10
10.	Dr. Anunkumar L	MO	16-03-2023	10
11.	Dr. Mahipa Gangopadhyay	MO	09-05-2023	10
12.	Dr. Sayantani Nandi	MO	29-09-2023	10
13.	Dr. Bismita Nath	MO	04-10-2023	10
14.	Sri. R. K. Tiwari	Director Professor (ISS)	30-05-2023	14
15.	Subrata Majumder	SSO	14.03.2023	7
16.	Mona Das	MTS (Trainee)	15.05.2023	1
17.	Md Asif Raza	MTS	29.05.2023	1
18.	Sayan Banerjee	MTS	19.05.2023	1
19.	Nishu Kumar	MTS	24.05.2023	1
20.	Shravan Kumar Singh	MTS	05.06.2023	1
21.	Anamya Ghosh	MTS	19.05.2023	1
22.	Md. Amil	MTS	11.09.2023	1
23.	Ritam Hazra	MTS	24.05.2023	1
24.	Suparna Ghosh	MTS	19.05.2023	1
25.	Subrata Nandy	MTS	08.06.2023	1
26.	Debjit Sarkar	MTS	18.05.2023	1
27.	Soumya Goswami	MTS	30.05.2023	1
28.	Rishikesh Kumar	MTS	12.06.2023	1
29.	Pawan Kumar	MTS	22.05.2023	1
30.	Punal Hanra	MTS	19.05.2023	1
31.	Arijita Sukul	MTS	25.05.2023	1
32.	Monisha Das	MTS	23.05.2023	1
33.	Harsh Singh	MTS	29.05.2023	1
34.	Saikat Mondal	MTS	26.05.2023	1
35.	Indranil Majee	MTS	24.05.2023	1
36.	Avjit Das	MTS	22.05.2023	1
37.	Md. Irfan Ansari	MTS	26.05.2023	1
38.	Srestha Chakraborty	MTS	22.05.2023	1
39.	Souvik Das	MTS	07.06.2023	1
40.	Nisad Raj Das	MTS	26.05.2023	1
41.	Biplab Kr. Tikadar	MTS	18.05.2023	1
42.	Shayan Das	MTS	19.05.2023	1
43.	Radhe Shyam Kumar	MTS	26.07.2023	1

Sl. No.	Name	Designation	Date of Joining	Applicable Level in Pay Matrix
44.	Subham Hore	MTS	24.05.2023	1
45.	Souvik Karmakar	MTS	31.05.2023	1
46.	Rukmini Debnath	MTS	18.05.2023	1
47.	Debasish Golder	MTS	16.05.2023	1
48.	Vikash Kumar Tiwari	MTS	08.06.2023	1
49.	Sanat Biswas	MTS	26.06.2023	1
50.	Sanjeev Kumar	MTS	29.05.2023	1
51.	Vinayak Kumar	MTS	03.07.2023	1
52.	Sumanta Das (1)	MTS	02.06.2023	1
53.	Bikash Kr. Das	MTS	25.05.2023	1
54.	Surajit Kundu	MTS	30.05.2023	1
55.	Madan Lal	MTS	13.06.2023	1
56.	Lakshman Das	MTS	24.05.2023	1
57.	Purru Nihar Kumar	MTS	22.05.2023	1
58.	Deep Mondal	MTS	30.05.2023	1
59.	Indal Kumar Mandal	MTS	16.06.2023	1
60.	Vikash Kumar	MTS	07.06.2023	1
61.	Dharam Dev Kumar	MTS	22.05.2023	1
62.	Rambabu Sah	MTS	13.07.2023	1
63.	Rishika Kumari	MTS	09.06.2023	1
64.	Samesh Das	MTS	22.05.2023	1
65.	Sumanta Das (2)	MTS	17.07.2023	1
66.	Neelam Kumari	MTS	01.06.2023	1
67.	Ajay Kumar Shaw	MTS	12.06.2023	1
68.	Nikhil Parcha	LDC	08-02-2023	2
69.	Md Sabir Ali	LDC	13-01-2023	2
70.	Darvesh	LDC	16-05-2023	2
71.	Rajesh Kumar	LDC	13-06-2023	2
72.	Manish Kumar Rank	LDC	16-05-2023	2
73.	Jitendra Kumar	UDC	25-09-2023	4
74.	Aman Sen	Caretaker	30-10-2023	2
75.	Raushan Verma	Caretaker	21-08-2023	2

Friends Who Moved UP

Sl. No.	Name	Promoted As	Effect date of Promotion	Applicable Level in Pay Matrix
1	Dr. Amitava Addy	CMO	18/01/2020	12
2	Dr. Sangeeta Kaka	SAG	23/11/2021	14
3	Dr. Shibani Datta (Labiri),	SAG	05/05/2021	14
4	Dr. Monalisha Sahu	Associate Professor	01.02.2021	12
5	Dr. Madhumita Bhattacharyya	SAG	29/10/2015	14
6	Dr. Soumya Patra	SMO	22/10/2021	11
7	Dr. Sourav Sinha	SMO	20/09/2021	11
8	Shri Indranil Bhadra	UDC	10/05/2023	4
9	Sri Haridas Halder	Head Clerk	10.05.2023	6

10	Sri Hemanta Kr. Ghosh	Driver Special Grade	14-12-2022	6
11	Smt Jaya Das (Naskar	Health Assistant (Female)	14-12-2022	4
12	Smt Bharati Malick	Health Assistant (Female)	14-12-2022	4
13	Smt. Sudipta Das	Health Assistant (Female)	14-12-2022	4
14	Sri Rajani Kanta Soren	Driver Special Grade	14-12-2022	6

Departure On Transfer

Sl. No.	Name	Designation	Date of Departure	Applicable Level in Pay Matrix
1.	Dr. Raghavendra Appasaheb Honnakamble	Assistant Professor	19/10/2023	11
2.	Shayan Das	MTS	03.10.2023	1
3.	Sayan Banerjee	MTS	12/09/2023	1
4.	Pawan Kumar	MTS	18/08/2023	1
5.	Samesh Das	MTS	12.06.2023	1
6.	Avijit Das	MTS	15.12.2023	1
7.	Monisha Das	MTS	03.10.2023	1
8.	Nisad Raj Das	MTS	21.08.202	1
9.	Saikat Mondal	MTS	13.09.2023	1
10.	Deep Mondal	MTS	11.10.2023	1
11.	Sumanta Das (1)	MTS	03.11.2023	1
12.	Rishikesh Kumar	MTS	05.10.2023	1
13.	Sumanta Das (2)	MTS	13.12.2023	1
14.	Souvik Das	MTS	22/12/2023	1

Departure On Superannuation

Sl. No.	Name	Designation	Date of Superannuation	Applicable Level in Pay Matrix
1.	Dr. Amalendu Roy	SAG	31/01/2023	14
2.	Dr. S. C. Mandal	SAG	31/01/2023	14
3.	Sci Swapan Kumar.Das	UDC	31-01-2023	4
4.	Sri Mohit Das	DEO	31-01-2023	6
5.	Sri N. Bandopadhyay	Assistant	28-02-2023	6
6.	Sri Prabir Bhattacharya	LDC	28-02-2023	2
7.	Sri Biswajit Manna	Field(Worker)	31-03-2023	2
8.	Sri Kamalesh Pandit	MLT	31-05-2023	6
9.	Sri Niloy Majumdar	MLT	30-06-2023	6
10.	Sri Atin Kumar Chattopadhyay	MLT	31-07-2023	6
11.	Sri Satyajit Gupta	UDC	30-09-2023	4
12.	Smt Lila Hela	MTS	31-12-2022	1
13.	Shri Jiten Hembram	Attendant	31-01-2023	1
14.	Sri Gandhi Hembram	MTS	31-01-2023	1
15.	Sri Swapan Das	Lab. Attendant	30-06-2023	1
16.	Smt. Lipi Das	MTS	31-10-2023	1

Notes: We have covered above only the cases of Designation. MACP cases have not been covered above

OUR STUDENTS

Name of the Course (Session)	No. of Students
MD (Community Medicine), Session 2020 - 2023	18
MD (Community Medicine), Session 2021-2024	20
MD (Community Medicine), Session 2022-2025	19
MD (Community Medicine), Session 2023-2026	20
M.P.H. (Epidemiology) – 2020 - 2023	5
M.P.H. (Epidemiology) – 2021-2024	3
M.P.H. (Epidemiology) – 2022-2025	4
M.P.H. (Epidemiology) – 2022-2025	7
Post Graduate Dip. in Public Health Management – 2022-2023	2
Post Graduate Dip. in Public Health Management – 202-2024	2
Master in Veterinary Public Health, Session 2021-2023	12
Master in Veterinary Public Health, Session 2023-2025	6
M. Sc. in Public Health (MCH) – 2022-2024	3
M. Sc. in Public Health (Health Promotion) – 2022-2024	2
M.Sc. in Applied Nutrition, Session 2021 - 2023	13
M.Sc. in Applied Nutrition, Session 2022 - 2024	18
Diploma in Dietetics, Session 2022 - 2023	14
Diploma in Health Promotion and Education, Session 2022 - 2023	16
Total	184

