

SCHOOL OF TROPICAL MEDICINE AND CARMICHAEL HOSPITAL FOR TROPICAL DISEASES



Annual Report, 2023



Established in 1914

Overview

The School of Tropical Medicine (STM), Kolkata stands as one of the foremost institutions dedicated to the study, treatment, management, and eradication of tropical diseases. Established in 1914 by the esteemed Sir Leonard Rogers, STM has a storied history. Its inaugural ceremony saw the laying of the foundation stone by Governor Lord Carmichael on February 24, 1914.

Throughout its existence, the school has been associated with numerous distinguished researchers, including Leonard Rogers, Ronald Ross, R Knowles, UN Brahmachari, JB Chatterjea, and RN Chopra. These individuals have made significant strides in researching various tropical diseases, earning international acclaim for their discoveries. Presently, the institution's researchers and academic staff continue to lead in cutting-edge research in the field of tropical medicine.

STM commenced its independent operations in its dedicated building from 1921, under the directorship of Lt. Col. JWD Megaw, with its inaugural batch graduating with a Diploma in Tropical Medicine (DTM) in 1922. For over 100 years, STM has been the sole institution in India focusing extensively on research, education, healthcare, and training in tropical diseases. The institution's goals have consistently been to offer research opportunities, post-graduate education, training, diagnosis, and treatment for tropical diseases. Additionally, the institute has expanded to provide super-specialized services in infectious diseases and is affiliated with the West Bengal University of Health Sciences. Its hospital wing is named the Carmichael Hospital for Tropical Diseases and includes a Centre of Excellence for HIV care.

The School of Tropical Medicine houses various specialized departments, each targeting specific areas within tropical medicine. These departments play a crucial role in STM's comprehensive approach to the research, understanding, and treatment of tropical diseases.

Following is the list of different operational Departments & units in The School of Tropical Medicine, Kolkata:

1. Department of Tropical Medicine
2. Department of Microbiology (with different units - Bacteriology and Serology, Virology, Mycology, Helminthology, Protozoology, Medical Entomology)
3. Department of Dermatology, Venereology & Leprology

4. Department of Clinical and Experimental Pharmacology
5. Department of Endocrine, Nutrition & Metabolic Diseases
6. Department of Pathology
7. Department of Haematology
8. Department of Laboratory Medicine
9. Department of Biochemistry and Medical Biotechnology
10. Department of Radiology
11. Department of Regenerative Medicine and Translational Science
12. Centre of Excellence in HIV Care
13. Anti-Retroviral Therapy centre
14. Department of Infectious Diseases and Advanced Microbiology

Academic courses/ Programmes conducted at School of Tropical Medicine

Post-Doctoral (DM) Courses	DM (Infectious Diseases) DM (Clinical Pharmacology)
Post-Graduate Degree (MD) Courses	MD (Tropical Medicine) MD (Microbiology) MD (Dermatology, Venereology and Leprosy) MD (Pharmacology)
Post-Graduate Diploma Courses	Diploma in Clinical Pathology (DCP)
Non Medical Post-Graduate Course	M. Sc. in Medical Biotechnology
Graduate Course	B.Sc. in Medical Laboratory Technology (MLT)
PhD Programme	In different subjects

SCHOOL OF TROPICAL MEDICINE

ADMINISTRATION

Prof (Dr.) Subhasish Kamal Guha	:	Director
Prof (Dr.) Rupali Dey	:	Medical Superintendent cum Vice Principal
Sri Sumon Chandra Mitra, W.B.A & A.S.	:	Accounts Officer
Smt. Jainaseni Shome	:	Deputy Superintendent (NM)
Smt. Sangita Sil	:	Assistant Superintendent (NM)

ADMINISTRATIVE OFFICE SUPPORT STAFF

Kaushik Mukherjee	:	Housekeeping Services
Bapi Mondal	:	Housekeeping Services
Sri N. Kailash Rao	:	CT & SW
Sukla Das	:	Housekeeping Services

ACCOUNTS, SECRETARY, REFERENCE, ESTABLISHMENT, STUDENTS, DESPATCH, ENQUIRY

Sri Subal Chandra Tudu	:	Head Clerk
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ACCOUNTS OFFICE

Smt. Papiya Hazra	:	U.D.C
Smt. Suparna Dutta Das	:	U.D.C
Smt. Banasree Sarkar	:	L.D.C
Sri. Baban Sikdar	:	G.D.A
Md. Jiyauddin	:	CT & SW
Md. Tajullah	:	CT & SW
Jagadish Das	:	Housekeeping Services
Alok Bayen	:	Housekeeping Services

SECRETARY OFFICE& REFERENCE SECTION

Sri Bhaskar Das : U.D.C
Arun Sarkar : Housekeeping Services

ESTABLISHMENT SECTION

Sri Sankar Ganguly : U.D.C
Smt. Ratna Das : U.D.C
Sri Chanchal Hela : U.D.C
Sri Subhasish Dutta : U.D.C
Sri Sujit Das : U.D.C
Sri Samir Kumar Das : G.D.A

STUDENTS SECTION

Prof (Dr.) Bibhuti Saha : Dean of Students' Affair
Sri Anand Ram : L.D.C
Smt. Payel Halder : L.D.C

DESPATCH SECTION

Sri Ashirvad Kumar : L.D.C
Sri Rajkumar Prasad : G.D.A

ENQUIRY

Sri Bijay Ram : G.D.A

DEPUTY SUPERINTENDENT OFFICE (HOSPITAL BUILDING)

Smt. Jainaseni Shome : Deputy Superintendent (NM)
Amit Kumar Das : Housekeeping Services

NURSING SUPERINTENDENT OFFICE (HOSPITAL BUILDING)

Smt. Sulekha Bera : Nursing Superintendent

REGISTRAR OFFICE (HOSPITAL BUILDING)

Dr. Dipak Kumar Das Roy	:	Registrar
Jitendra Bahadur Singh	:	U.D.C.
Bilash Ghosh	:	Contractual
Priya Kundu	:	Contractual
Sayantan Saha	:	D.E.O

OPD

Prof. (Dr.) Mehebubar Rahman	:	In-Charge (OPD) & GRC
Md. Naim	:	G.D.A.
Md. Alam	:	G.D.A.
Dhiraj Balmiki	:	G.D.A.
Mukesh Prasad	:	G.D.A.
Binod Ram Balmiki	:	CT & SW
Sukdeo Mallick	:	CT & SW
Bimla Mallick	:	CT & SW
Jitendra Hela	:	CT & SW

This section continues to maintain its vital role towards the employees, students, patients, other beneficiaries and the community. With utmost care this section is discharging the various responsibilities as guided by State Government policies and norms.

GRIEVANCE READDRESSAL COMMITTEE

Prof. (Dr.) Rupali Dey	Medical Superintendent cum Vice Principal	Chairperson
Prof. (Dr.) Mehebubar Rahman,	HOD, Deptt. of Tropical Medicine	Nodal Officer
Dr Dipak Kumar Das Roy	Registrar, CHTD	Member
Dr. Nibir Biswas	Deptt. of Dermatology	Member
Ms. Atasi Rani Mandal	Dy. Nursing Superintendent	Member
Mrs. Jajnaseni Shome	Deputy Superintendent	Member
Mrs. Sangita Sil	Assistant superintendent	Member
Mr. Dhiraj Balmiki	Gr-D Staff	Member
Mr. R.N. Thakur	Security Supervisor	Member

ANTI RAGGING COMMITTEE

Prof. (Dr.) Munmun Das (Sarkar)	In-charge, Protozoology Unit, Deptt. of Microbiology	Chairperson
Prof. (Dr.) Banya Chakraborty	HOD, Deptt. of Microbiology	Member
Prof. (Dr.) Sumana Mukherjee	HOD, Deptt of Pathology	Member
Dr. Mandira Mukherjee	Associate Professor, Biochemistry and Medical Biotechnology Deptt.	Member
Dr. Chiranjib Bagchi	Associate Professor of Clinical and experimental Pharmacology Deptt.	Member
Dr. Jayanta Barua	Associate Prof. Deptt. of Dermatology	Member
Dr. Indranil Dhar	Assistant Prof. Deptt. of Lab Medicine	Member

MEDICAL EDUCATION UNIT

Prof. (Dr.) S. K. Guha	Director	Officer In-Charge
Prof. (Dr.) Munmun Das (Sarkar)	In-charge, Protozoology Unit, Deptt. of Microbiology	Co-ordinator
Prof. (Dr.) Rupali Dey	Medical Superintendent cum Vice Principal	Member
Prof. (Dr.) Bibhuti Saha	HOD, Deptt. of ID&AM	Member
Prof. (Dr.) Santanu Munshi	HOD, Deptt. of Clinical and Experimental Pharmacology	Member
Prof. (Dr.) Banya Chakraborty	HOD, Deptt. of Microbiology	Member
Prof. (Dr.) Saswati Halder	HOD, Deptt. of Dermatology	Member
Prof. (Dr.) Sumana Mukherjee	HOD, Deptt. of Pathology	Member
Prof. (Dr.) Mehebubar Rahman	HOD, Deptt. of Tropical Medicine	Member
Dr. Indranil Dhar	HOD, Deptt. of Laboratory Medicine	Member
Dr. Arindam Naskar	In-charge, Deptt. of Endocrine, Nutrition & Metabolic Diseases	Member

The **Institutional Biosafety Committee (IBSC)**

<i>Sl. No.</i>	<i>Name</i>	<i>Designation</i>
1.	Prof. (Dr.) Rupali Dey	Medical Superintendent cum Vice Principal & Chairperson and Microbiologist
2.	Dr. Anusri Tripathi	Member Secretary
3.	Dr. Mandira Mukherjee	Member
4.	Dr. Sumi Mukhopadhyay	Member
5.	Dr. Anindita Debnath	Member
6.	Dr. Chinmay Kumar Panda	Outside Experts in the relevant discipline
7.	Prof. (Dr.) Arunansu Talukdar	Outside Experts in the relevant discipline
8.	Dr. Abhishek Sengupta	Medical Officer/Biosafety Officer (copies of CV attached)

As per **PoSH** guideline the **Internal Complaints Committee**

<i>Sl No.</i>	<i>Name of the member</i>	<i>Designation</i>
1.	Prof. (Dr.) Rupali Dey	Chairperson
2.	Prof. (Dr.) Mehebubar Rahman	Member
3.	Dr. Mandira Mukherjee	Member
4.	Dr. Koushik Dewan	Member
5.	Smt. Sulekha Besra	Member
6.	Dr. Chandreyee Das	Member (NGO)
7.	Smt. Jajnaseni Shome	Member

Research Advisory Committee

<i>Sl. No.</i>	<i>Name</i>	<i>Designation</i>
1.	Dr. Samiran Panda	ICMR-Dr. A.S Paintal Distinguished Scientist Chair, Former Additional Director General, Indian Council of Medical Research (ICMR) & Ex-Head - Division of Epidemiology & Communicable Diseases ICMR, Ansari Nagar, New Delhi & Ex-Director, ICMR-National AIDS Research Institute(ICMR-NARI) - Chairperson

<i>Sl. No.</i>	<i>Name</i>	<i>Designation</i>
2.	Dr. Amit Chakrabarti	Scientist "G" (Director Grade-Medical) & Officer-In-Charge ICMR-Centre for Ageing and Mental Health (I-CAM), Indian Council of Medical Research, Kolkata - Member
3.	Dr. Debabrata Bandyopadhyay	Professor & Ex-Head, Department of Dermatology, Venereology & Leprology, Medical College, Kolkata and Chairperson, Clinical Research Ethics Committee, School of Tropical Medicine, Kolkata - Member
4.	Dr. Avijit Hazra	Professor, Department of Pharmacology and Dean, Students' Affairs, IPGMER & SSKM Hospital, Kolkata - Member
5.	Dr. Sagartirtha Sarkar	Professor, Department of Zoology, University of Calcutta, Kolkata - Member
6.	Dr. Chinmoy Kumar Panda	NASI Senior Scientist, Chittaranjan National Cancer Institute, Kolkata - Member
7.	Dr. Sulagna Basu	Scientist F, Department of Bacteriology, ICMR-National Institute of Cholera & Enteric Diseases (NICED), Kolkata - Member
8.	Dr. Shantasil	Professor, Department of General Pain Medicine, IPGMER & SSKM Hospital, Kolkata - Member

DEPARTMENTAL REPORTS

DEPARTMENT OF TROPICAL MEDICINE

Name of faculties and staff:

Prof. & Head	: Dr. M. Rahman
Associate Professor	: Dr. S. Mallik
Associate Professor	: Dr. Dolonchampa Modak
Associate Professor	: Dr. Debananda Gonjhu
Assistant Professor	: Dr. Manab Kumar Ghosh
Assistant Professor	: Dr. Madhuchhanda Mandal
Assistant Professor	: Dr. Arindam Naskar
Assistant Professor	: Dr. Shekhar Pal
Assistant Professor	: Dr. Kumkum Sarkar
Assistant Professor	: Dr. Amartaya kr Mishra
Assistant Professor	: Dr. Prantiki Halder
Assistant Professor	: Dr. Boudhayan Bhattacharjee
RMO cum Clinical Tutor	: Dr. Dipankar Pal
RMO cum Clinical Tutor	: Dr. Debojyoti Majumder
RMO cum Clinical Tutor	: Dr. Sourav Kundu
G D A	: Sri Subal Singh and Sahadad Hossain
C.T &S.W	: Smt Dulari Mallik

Name of Senior Resident :

1. Dr. Agnibho Mondal
2. Alex George
3. Khairul Bashar
4. Sambudhya Chakroborty
5. Sweety Barua
6. Safiqul Islam
7. Ushinor Das

Name of Junior Residents

1st year Junior Residents

1. Soumi Adak
2. Muskan
3. Supriyo Biswas
4. Rishav Gupta

5. FaruqHasan Khan
6. DebsankarHansda

2nd year Junior Residents

1. ArijitMahanti
2. Arijit Das
3. SudeshnaSarkar
4. RanjitChowdhury
5. ChandramouliChawdhuri
6. DipikaKoli
7. Sahil Manna

Final year Junior Residents

1. Himaghna Manna
2. SourovMisra
3. MotiurRahman
4. Ankita Mishra
5. Swarnadeep Mani
6. Pronit Roy
7. SkSamsulAlam
8. Mohammad Imam Gazzali

Annual Report 2023
(Department of Tropical Medicine)

<i>Patient care service</i>		<i>Name of staff</i>	<i>Academics</i>		
<i>OPD</i>	<i>Indoor</i>		<i>Teaching</i>	<i>Research</i>	<i>Publication</i>
<i>Attendance</i>	<i>Admission</i>				
64440	2970	Dr. M. Rahman Dr. S. Mallik Dr. Dolonchampa Modak Dr. Debananda Gonjhu Dr. Manab Kumar Ghosh Dr. Madhuchhanda Mandal Dr. Arindam Naskar Dr. Shekhar Pal Dr. Kumkum Sarkar Dr. Dipankar Pal Dr. Amartaya kr Mishra Dr. Prantiki Halder Dr. Debojyoti Majumder Dr. Boudhayn Bhattacharjee Dr. Sourav Kundu	*Details of all provided in a separate sheet		

I. Routine patient care service

Clinical

- 1) Tropical Medicine OPD & Viral Diseases OPD everyday, of Calcutta School of Tropical Medicine.
- 2) Admitting patients to Carmichael Hospital for Tropical Diseases.
Also attending patients referred from various Government health facilities/ private physicians to Calcutta School of Tropical Medicine.
- 3) Visiting referred cases at Calcutta Medical College Hospital.
- 4) Running ART Centre daily at Calcutta School of Tropical Medicine.
- 5) Providing second and third line and alternative first line anti-retro-viral drugs through COE. Holding weekly SACEP meeting.
- 6) Rotational training of DM Infectious Diseases post doctoral trainee from AIIMS, New Delhi.

II. Routine Indoor & OPD Cases

Indoor (Tropical Medicine + Viral Disease)	Death	OPD Old ticket	OPD New ticket	Total OPD ticket
2970	316	11133	53307	64440

III. Routine Diagnostic Services

Bone Marrow	102
ECG	6292
Lumbar Puncture	663
Liver Biopsy	9
Kidney biopsy	19
Other true cut biopsy	17
Liver and splenic abscess drainage	32
Malarial antigen test	146
Trop T	243

IV .Research Activities:

1. Dr. S. Mallik as investigator of the project- Characterising Natural killer cell effector functions in COVID-19 vaccinated subjects.
2. Dr. S. Mallik as investigator of the project- Cooperative proteomics approach to identify diagnostic biomarker of tuberculosis infection.
3. Dr. S. Mallik as investigator of the project- Development of simple scoring system based on clinical findings and simple laboratory test for patients presenting with acute febrile illness under NHM.

4. Dr. S. Mallik as investigator of the project- identification and characterization of novel Dengue severity bio-markers sponsored by WBDST.
5. Dr. S. Mallik as investigator of the project- Characterizing circulating immune complex, complement conjunction, chemokine and cytokineresponses for the early diagnosis and follow up of arthralgia severity in chikungunyaptientsunder NRHM.
6. Dr. Madhuchhanda Mandal and Dr. KumkumSarkar as investigator of the project- Study Project proposed for Usefulness of Detection of Intra familial Transmission of Hepatitis B Virus Infection Under NVHCP

V. Teaching Activities

- 1) Teaching of Post graduate students of M.D. (Tropical Medicine) of West Bengal University of Health Sciences.
37 seminar, journal club along with the Department of Infectious Diseases, 21 case presentation, 5 CPC and 22 bedside clinics.
- 2) Training of Community Medicine post graduate students from Medical College & All India Institute of Hygiene & Public Health
- 3) Conducting Post Graduate Diploma in HIV Medicine (PGDHIVM) course of Indira Gandhi National Open University (IGNOU).
- 4) NACO ART Training for Medical Officers and Specialists
- 5) Training of nurses & counselor.

VII. Publications

1. Dr. Sourav Kundu 1, Dr. Mehebar Rahman 2, Dr. Amartya Kumar Misra 3. Clinicoeological Study of Meningitis in Hiv Infected Patients Admitted At A Tertiary Care Hospital In Kolkata. European Journal of Cardiovascular Medicine. Volume 13 Issue: 1 – 2023.
2. Dr. Tanmoy Biswas (First author), Dr. Arindam Naskar (Second author), DrPrantikiHalder (Third author),Dr. SudeshnaMallik (Corresponding and Fourth author), Dr. Agnibho Mondal (Fifth author), Dr. Bibhuti Saha (Six author). Etiologies of space occupying lesions of liver among patients presenting in a tertiary care center in India. JIMA. Vol 122, No 01, January 2024.
3. Dolanchampa Modak, Silpak Biswas, Agnibho Mondal, Malabika Biswas, Maria Teresa Mascellino, Banya Chakraborty, Simmi Tiwari, Ajit Dadaji Shewale, Tushar Nale, Rupali Dey. Seroprevalence of brucellosis among animal handlers in West Bengal, India: an occupational health study[J]. AIMS Microbiology, 2024, 10(1): 1-11. doi: 10.3934/microbiol.2024001

4. Soumendranath Halda, Kokila Banerjee, Dolanchampa Modak et al. Case Report: A Series of Three Meningoencephalitis Cases Caused by *Acanthamoeba* spp. from Eastern India. DOI: <https://doi.org/10.4269/ajtmh.23-0396>. Volume/Issue: Volume 110: Issue 2
5. Dolanchampa Modak¹, Agnibho Mondal², Subhasish Kamal Guha³. Prevalence of Rheumatological Manifestations in HIV Infected Patients in a Tertiary Care Centre In Eastern India : A Prospective Observational Study. *Journal of the Indian Medical Association*. Vol 121, No 7, July 2023.
6. Mandal M, Basu S, Roy D, Debnath A, Guha S K. Changes in Serum Levels of IL-6, TNF-alpha and CRP in people living with HIV following initiation of Anti retroviral therapy- A longitudinal Cohort study from a Tertiary Hospital in Eastern India, *J Indian Med Assoc* 2023;121(9):20-4.
7. Kumkum Sarkar et al., Book chapter on "Deep Vein Thrombosis in a Patient of Extrapulmonary Tuberculosis" in International Book, *Advanced Concepts in Medicine and Medical Research* 2023; Vol-1
8. Chatterjee R, Ghosh P, Sarkar K, Samajdar SS, Mukherjee S, George A, Pramanik N. Prevalence of pulmonary arterial hypertension in post-tuberculosis lung fibrosis patients: A crosssectional observational study. *J Assoc Chest Physicians* 2023;11:198-201.
9. Chatterjee R, Chakraborty A, Sarkar K, Pramanik N, Mukherjee S. Tuberculosis with new onset of diabetes and hypertension following recovery from coronavirus disease 2019 infection: A case series. *J Pract Cardiovasc Sci* 2023;9:64-6.
10. Rupak Chatterjee, Prantiki Halder, Shambo Samrat Samajdar¹, Puranjit Ghosal², Shatavisa Mukherjee¹, Kingshuk Jana³, Bibhuti Saha. Correlation between hematocrit and inferior vena cava collapsibility in adult patients with dengue fever: A prospective, observational study at a tertiary care setup in Eastern India. *MRIMS Journal of Health Sciences* | Volume XX | Issue XX | Month 2023.

DEPARTMENT OF MICROBIOLOGY

Details of Teaching and Non-teaching staff

Teaching staff (Faculty):

<i>Sl. No.</i>	<i>Name</i>	<i>Designation</i>
1	Prof.(Dr.) Banya Chakraborty	Professor and Head
2	Prof. (Dr.) Munmun Das (Sarkar)	Professor & Unit - In-Charge, Protozoology Unit
3	Prof.(Dr.) Tapashi Ghosh	Professor & Unit - In-Charge, Helminthology Unit
4	Prof. (Dr.) Bhaswati Bandyopadhyay	Professor &Unit - In-Charge, Virology Unit (Up to July, 2023)
5	Dr. Ardhendu Kumar Maji	Reader, Protozoology Unit & Unit - In-Charge, Entomology Unit
6	Dr. Sampurna Biswas Pramanik	Associate Professor & Unit In-Charge, Mycology Unit
7	Dr. Manjula Dutta	Assistant Professor, Mycology Unit
8	Dr. Anindita Rakshit	Assistant Professor, Bacteriology Unit
9	Dr. Abhishek Sengupta	Assistant Professor, Helminthology Unit
10	Dr.Raja Mukherjee	Medical Officer, Helminthology Unit
11	Dr. Srima Adhikari	RMO cum Clinical Tutor, Virology Unit
12	Dr. Subhasri Halder	Demonstrator, Virology Unit
13	Dr. Soumya Biswas	Medical Officer, Helminthology Unit

Senior Resident (SR):

<i>Sl. No.</i>	<i>Name</i>	<i>Unit of Microbiology</i>
1	Dr. Bishal Gupta	Virology Unit
2	Dr. Sonia Deb	Virology Unit
3	Dr.Malabika Biswas	Bacteriology Unit (Up to August, 2023)
4	Dr. Alisha Acharya	Virology Unit
5	Dr. Sayani Bose	Virology Unit (Up to July, 2023)
6	Dr.Aitihya Chakraborty	Protozoology Unit (Up to July, 2023)
7	Dr. Swagata Banerjee	Bacteriology Unit (From August, 2023)

Junior Resident (JR):

<i>Sl. No.</i>	<i>Name</i>	<i>Year</i>
1	Dr. Madhumanti Mondal	3rd Year
2	Dr. Ankita Roy	3rd Year

<i>Sl. No.</i>	<i>Name</i>	<i>Year</i>
3	Dr. Malabika Debbarma	3rd Year
4	Dr. Kartick Patra	3rd Year
5	Dr. Asik Rahman	2nd Year
6	Dr. Ankita Sarkar	2nd Year
7	Dr. Sangita Biswas	2nd Year
8	Dr. Sudip Kumar Ghorui	2nd Year
9	Dr. Ashmita Das	2nd Year
10	Dr. Monalisa Mondal	1st Year
11	Dr. Sonal Verma	1st Year
12	Dr. Sumit Kumar	1st Year
13	Dr. Shaunli Konar	1st Year

Medical Technologist (Lab) / Group B, C, D and Programme/Project Staff:

<i>Sl. No.</i>	<i>Name</i>	<i>Designation</i>
Bacteriology Unit		
1	Amit Kumar Maji	Medical Technologist (Lab)
2	Trisha Mondal	Medical Technologist (Lab)
3	Golam Dostogir	Medical Technologist (Lab)
4	Manas Mallik	Medical Technologist (Lab)
5	SK Monirul Islam	Medical Technologist (Lab)
6	Sukdev Ganguly	Medical Technologist (Lab)
7	MD Ruhul Amin	Medical Technologist (Lab)
8	Sampa Sadhu	Medical Technologist (Lab)
9	Goutam Roy	Glass Blower
10	Trisha Sarkar	Pharmacist, National Amr Surveillance Programme
11	Sudipta Som	Laboratory Technician, National Amr Surveillance Programme
12	Avik Maity	Data Manager, National Amr Surveillance Programme
13	Pamela Bhattacharjee	Data Manager, National Amr Surveillance Programme
14	Narayan Nandi	G.D.A.
15	Miran Hazra	CT & SW
16	Ram Saran Mallick	CT & SW

<i>Sl. No.</i>	<i>Name</i>	<i>Designation</i>
Entomology Unit		
1	Dr. Sudip Ballav	Project Fellows
2	Ms. Risha Das	Project Insect Collector
3	Sanjay Hela	CT & SW
Helminthology Unit		
1	Subhas Chandra Mondal	Medical Technologist (Lab)
2	Bijay Nath	Medical Technologist (Lab)
3	Himadri Sekhar Mondal	Medical Technologist (Lab)
4	K.Narosing Rao	CT & SW
5	Bivas Sardar	House Keeping Staff
Mycology Unit		
1	S. J. Ansari	Medical Technologist (Lab)
2	Partho Sengupta	Medical Technologist (Lab)
3	Anita Kanungo	CT & SW
Protozoology Unit		
1	Samit Kumar Mondal	Medical Technologist (Lab)
2	Supriya Halder	Medical Technologist (Lab)
3	Shrabani Nath	Medical Technologist (Lab)
4	Paramita Das Adhikary	Medical Technologist (Lab)
5	Sujay Gupta	Executive Assistant (IDSP)
6	Dr. Anwesha Samanta	Project Fellows
7	Sunanda Ghosh	Project Fellows
8	Ritwick Dey	Research Assistant
9	Banamali Mandal	Project MT Lab
10	Tanmay Das	Project MTS
11	Hemajuddin Momin	Project MTS
12	Bhola Hela	CT & SW
13	Madhusudan Dey	House Keeping Staff
Virology Unit		
1	Santasree Chakraborty	Medical Technologist (Lab)
2	Sutapa Karmakar	Medical Technologist (Lab)
3	Kaushik Karan	Medical Technologist (Lab)
4	Bappaditya Pan	Medical Technologist (Lab)
5	Atanu Guchhait	Medical Technologist (Lab)
6	Rony Roy Chowdhury	Medical Technologist (Lab)

<i>Sl. No.</i>	<i>Name</i>	<i>Designation</i>
7	Joydeep Roy	Medical Technologist (Lab)
8	Ashis Kumar Paul	Laboratory Technologist, (ICTC)
9	Suman Mohan Chowdhury	Laboratory Technologist, (ICTC)
10	Anurita Mukherjee	Counselor, (ICTC)
11	Amrita Roy	Counselor, (ICTC)
12	Saiantani Mondal	Technical Officer, (NRL)
13	Surja Kumar Halder	Laboratory Technologist, (NRL)
14	Aparna Chowdhury	Molecular Biologist, COVID
15	Kanchan Biswas	Molecular Biologist, COVID
16	Subhankar Sikder	Medical Technologist (Lab), COVID
17	Pritam Kayal	Medical Technologist (Lab), COVID,
18	Shouvanik Dey	Data Entry Operator, COVID
19	Ramesh Paul	CT & SW
20	Jitendra Hela	CT & SW
21	Md. Saddam	House Keeping Staff

National One Health Program for Prevention and Control of Zoonoses (NOHPPCZ)

1	Dr. Silpak Biswas	Program Coordinator/Consultant
2	Subhoroop Ghosh	Assistant Research Officer
3	Debashis Koley	Laboratory Technician
4	Ankur Choudhury	Data Entry Operator

Departmental (Unit) Activities:

BACTERIOLOGY AND SEROLOGY UNIT

**ANNUAL INVESTIGATION REPORT FOR THE YEAR 2022 (1st Jan to 31st Dec)
BACTERIOLOGY AND SEROLOGY UNIT
DEPARTMENT OF MICROBIOLOGY**

	WET MOUNT FOR URINE	3423
	GRAM STAINING	5296
	ZN STAINING	2409
	ALBERT STAINING	200
CULTURE	URINE	3424
	SPUTUM	1117
	BLOOD	1245
	MISCELLANEOUS (All body fluids, Pus, Wound swab)	1212
	THROAT SWAB	50
	NP SWAB FOR PERTUSSIS	250

	THROAT SWAB FOR DIPHTHERIA	157
	ABST	1564
SEROLOGY	RPR/VDRL	1546
	WIDAL	127
	TYPHI DOT	253
	RA FACTOR	50
	ASO	50
	BRUCELLA IgM	308
	TOXOPLASMA IgG	886
DIPHTHERIA & PERTUSSIS	PERTUSSIS IgG	620
	DIPHTHERIA PCR	120
	PERTUSSIS PCR	200

TIER 1 & TIER 2 EQAS (IAMM & CMC VELLORE)

ENTOMOLOGY UNIT

Daily activities:

- Entomological survey of dengue vectors
- Maintenance of Aedes sp. colony
- Insecticide susceptibility bioassay of adult and larvae of mosquito vectors

HELMINTHOLOGY UNIT

DEPARTMENTAL ACTIVITY DETAILS

FILARIA OPD : 2023

OPD ATTENDANCE 1546

UNIT LABORATORY: 2023

<i>LABORATORY INVESTIGATION</i>	<i>NUMBER</i>
CIRCULATING FILARIA ANTIGEN TEST	290
SMEAR FOR MICROFILARIA	267
DIFFERENTIAL COUNT	267
FILARIA CONCENTRATION TECHNIQUE	267
STOOL SALINE/IODINE MOUNT	2087
STOOL CONCENTRATION TECHNIQUE	2087
STOOL MODIFIED ZN STAIN	175
CSF FOR PARASITOLOGICAL EXAMINATION	9
LIVER ABSCESS FOR PARASITOLOGICAL EXAMINATION	3
PLEURAL FLUID FOR PARASITOLOGICAL EXAMINATION	1
URINE FOR PARASITOLOGICAL EXAMINATION	2
WORM EXAMINATION	10

MYCOLOGY UNIT

Number of Investigation From 1st January 2023 to 31st December 2023 of Mycology Unit, Department of Microbiology

<i>MONTH</i>	<i>KOH Preparation</i>	<i>India Ink Preparation</i>	<i>Culture</i>	<i>Culture Positive (VITEK)</i>	<i>Total Sample</i>
January	59	14	65	6	76
February	63	8	56	11	72
March	48	20	55	15	71
April	55	16	54	4	74
May	67	24	75	5	93
June	72	22	83	5	98
July	72	14	54	6	90
August	70	11	46	3	87
September	70	14	52	4	136
October	70	22	68	5	160
November	76	17	62	5	160
December	72	17	70	5	164
Total	794	199	740	74	1281

PROTOZOLOGY UNIT

Patient Care Services:

Routine clinical & diagnostic service to the patient - the unit provides diagnostic & clinical service to the patient throughout the year on Malaria, Kala-azar and other protozoan infections. It also serves as a referral unit for protozoan infections.

a) Incidence of malaria detected and treated at Malaria Clinic, CSTM, 2023

<i>Month</i>	<i>Total No. patients Examined</i>	<i>P.vivax</i>	<i>P. falciparum</i>	<i>Mixed</i>	<i>Total Positive</i>	<i>SPR</i>
January	330	10	23	1	34	10.30
February	403	17	5	1	23	5.71
March	455	47	9	1	57	12.53
April	396	74	7	0	81	20.45
May	396	84	2	0	86	21.72
June	394	74	0	0	74	18.78
July	676	101	4	0	105	15.53
August	1943	306	81	15	402	20.69
September	2486	492	114	5	611	24.58
October	2124	392	179	5	576	27.12
November	933	129	85	2	216	23.15
December	421	42	61	1	104	24.70
Total	10957	1768	570	31	2369	21.62

b) Routine diagnostic service to the patients of Kala-azar / rk-39 test for the Year 2023:

<i>Month</i>	<i>Total Examined</i>	<i>Total Positive</i>	<i>% of Positive</i>
January	15	3	20.00
February	13	0	0.00
March	14	0	0.00
April	26	2	7.69
May	16	2	12.50
June	28	0	0.00
July	17	3	17.65
August	20	1	5.00
September	29	3	10.34
October	29	2	6.90
November	27	0	0.00
December	18	1	5.56
Total	252	17	6.75

VIROLOGY UNIT

Routine Activities of Virology Unit

A. Arbo viruses -

- i. Serological diagnosis of
 - a. Dengue NS1 detection by ELISA
 - b. Anti-Dengue IgM ELISA
 - c. Anti-Dengue IgG ELISA
 - d. Anti-Chikungunya IgM ELISA
 - e. Anti-Japanese encephalitis IgM ELISA
- ii. Molecular Diagnosis of
 - a. Chikungunya virus RNA detection
 - b. Dengue virus RNA detection
 - c. Dengue serotyping

B. Hepatitis viruses -

- i. Serological diagnosis of
 - a. Anti-HCV antibodies ELISA / RAPID
 - b. Hepatitis B s antigen ELISA/ RAPID
 - c. Anti-HAV IgM ELISA
 - d. Anti-HEV IgM ELISA
 - e. Hepatitis B e antigen ELISA
 - f. Anti HBs antibody titer ELISA
 - g. Anti HBc Antibody ELISA
- ii. Since January 2020, Virology unit is designated as one of the State Reference Laboratories of NVHCP programme for several Health districts of West Bengal.

C. Human Immune Deficiency Virus (HIV) -

- i. Serological diagnosis of
 - a. HIV 1 and 2 by RAPID, ELISA and Western blot test (as per NACO guideline)
- ii. ICTC - Routine testing of HIV among patients referred from STI clinic
- iii. NRL -
 - a. Conducts proficiency testing and panel sera distribution (HIV EQAS) to the HIV State Reference Laboratories (SRL) of West Bengal, Bihar, Sikkim and Chhattisgarh
 - b. Confirmation of Indeterminate and discordant samples by Western Blot test
 - c. Confirmation of HIV 2 by Western Blot test (NRL is also designated as Referral Lab for the states of West Bengal, Bihar, Sikkim and Jharkhand for HIV 2 diagnosis)

D. SARS CoV2 -

- i. Molecular diagnosis (RT-PCR) - Almost 12000 (Twelve Thousand) SARS CoV-2 RT-PCR test has been done.
- ii. Rapid Antigen Test (Lateral flow assay)
- iii. SARS CoV 2 IgG by ELISA testing
- iv. Regular QC test of different RAT kit, RNA Extraction kit and RT-PCR kit done.
- v. Acting as State nodal Center for Whole Genome Sequencing of SARS CoV-2 virus.

E. Acute Encephalitis Syndrome (AES) Panel (other than Arbo viral causes)

- Molecular testing of
 - i. Scrub typhus
 - ii. Herpes Simplex Virus 1 and 2
 - iii. Leptospira
 - iv. Streptococcus pneumoniae
 - v. Hemophilus influenzae
 - vi. Neisseria meningitidis
- Serological testing (IgM) of
- Molecular testing of
 - i. Scrub typhus
 - ii. Herpes Simplex Virus 1 and 2
 - iii. Leptospira

F. Acute Respiratory Infection (ARI) Panel

Molecular testing of

- I. Influenza A + B Flu typing
- ii. Sub typing of Influenza A H1N1, pdm009, H3N2
- iii. Para Influenza (1,2,3&4)

- iv. Respiratory syncytial virus (RSV)
- v. Adeno virus
- vi. Entero virus
- vii. Rhino virus
- viii. Human Metapneumo virus (HMPV)
- ix. Human Boca Virus

G. Others

- i. Epstein Barr virus (EBV)
- ii. Cytomegalo virus (CMV)

Yearly testing details are presented below: 2023

Sl No	NAME OF THE TEST	Total No. of Patient Tested
1.	Dengue NS1 detection by ELISA	2442
2.	Anti-Dengue IgM ELISA	2761
3.	Anti-Chikungunya IgM ELISA	1234
4.	Anti-Japanese encephalitis IgM ELISA	703
5.	Anti-Scrub typhus IgM ELISA	3822
6.	Anti-Leptospira IgM ELISA	3704
7.	Anti-Herpes Simplex IgM ELISA (HSV)	442
8.	Hepatitis B s antigen ELISA/ RAPID	6644
9.	Anti-HCV antibodies ELISA / RAPID	6524
10.	Anti-HAV IgM ELISA	901
11.	Anti-HEV IgM ELISA	901
12.	Hepatitis B e antigen ELISA	741
13.	HIV antibodies Rapid	3676
14.	Anti-HIV antibodies by Western blot tests	37
15.	Anti Hbs antibody titre	0
16.	Anti Hbc Antibody	471
17	HIV Sentinel Surveillance ANC and Prison	
	a) HIV Rapid	2800
	b) HBsAg Rapid	2800
	c) Anti - HCV Rapid	2800
	d) Syphilis - TPHA Method	2800
18	HIV Sentinel Surveillance - EQAS	
	a) HIV Rapid	2000
	b) HBsAg Rapid	2000
	c) Anti - HCV Rapid	2000
	d) Syphilis - TPHA Method	2000
18.	SARS CoV-2 RT-PCR	11734
19	ARI Panel (Influenza A , B , H1N1 pdm009, H3N2, RSV A/ B PCR , Parainfluenza 1-4, Rhinovirus, Enterovirus, Metapneumovirus, Adenovirus, BOCA virus, OTHER Non - SARS COV2, sub typing virus detection by Real-time RT PCR) etc.	1534

Sl No	NAME OF THE TEST	Total No. of Patient Tested
20.	Dengue Serotype RT-PCR	2041
21.	Other Molecular Tests	
	a) EBV	6
	b) CMV	40
	c) Scrub	6
	d) JE	20
	e) Leptospira	8
	f) Dengue	4
	g) Chikungunya	10
	h) HSV	43
	i) VZV	8
	j) JC & BK	2

National One Health Program for Prevention and Control of Zoonoses:

National One Health Program for Prevention and Control of Zoonoses (NOHPPCZ) is the new name of the already continuing ISCP (Inter-sectoral coordination for prevention and control of zoonotic diseases) implemented by NCDC (National Centre for Disease Control), Division of Zoonotic Diseases Program (DZDP). School of Tropical Medicine was identified as the ERC (Eastern Regional Coordinator) to coordinate the program activities in the assigned states of region in November 2020. The activities of ERC NOHPPCZ STM in the year 2023 are as follows:

Information Education and Communication (IEC) Activities:

On World Zoonosis Day Brucellosis and Rabies awareness posters printed from IEC template provided by NCDC website were put up for display in OPD and emergency areas of different medical colleges in Kolkata.

Awareness program was conducted for observance of 'World Rabies Week' to raise awareness for rabies prevention and elimination among security and scavenging staff (on 27th September 2023) and for nursing staff (on 28th September 2023) of the School of Tropical Medicine, Kolkata.

The above was followed by distribution of rabies booklet (In three languages: English, Hindi & Bengali) from IEC template provided by NCDC website.

Activity conducted for strengthening inter-sectoral Coordination:

Participation in the third meeting of State Level Zoonosis Committee was held at "Aranyak Hall", 5th floor, Swasthya Sathi Building, Swasthya Bhawan Campus under the chairmanship of Dr. Siddhartha Niyogi, Director of Health Services, Dept. of Health & Family Welfare, Govt. of West Bengal on 26.07.2023.

Reports of Laboratory Diagnosis:

Scrub Typhus, Leptospirosis, Japanese Encephalitis, Brucellosis & Toxoplasmosis testing was done for more than 8000 samples at Department of Microbiology, School of Tropical Medicine, Kolkata.

Teaching Activities:

- Regular teaching of DM Infectious Disease and Advanced Microbiology, MD Microbiology, DCP and BSc MLT Students.
- Group Discussions, Seminars, Lectures and Practical Classes

Research:

Research projects: Entomology Unit

Title of the project	Sponsoring Agency	Total period with dates	
		From	To
Studies on Population Dynamics and Insecticide Susceptibility Status of Dengue Vectors in Bidhan Nagar Municipal Corporation Areas, Kolkata, West Bengal	State Urban Development Agency, Govt. of West Bengal	2022	2023 (Completed)

Research projects: Protozoology Unit

Title of the project	Sponsoring Agency	Total period with dates	
		From	To
Prevention of Resurgence of Leishmaniasis during Post Elimination Period in Erstwhile Endemic Pockets of West Bengal	National Health Mission, Govt. of West Bengal	2021	2024
Development of AI - Enabled field portable Microscope for detection of Filariasis	Biotechnology Industry Research Assistance Council (Govt. of India Enterprise)	2023	2025

Research projects: Virology Unit

Title of the project	Sponsoring Agency	Total period with dates	
		From	To
Development of therapeutic broadly neutralizing monoclonal antibodies against circulating HIV-1 clade C in children and adults	Funded by Department of Biotechnology (DBT)	2021	2026
Developing broadly neutralizing monoclonal antibody mediated prevention and treatment strategy by assessing their effectiveness in neutralizing HIV-1 subtype C circulating in India across different regions and distinct risk groups	Funded by Department of Biotechnology (DBT)	2021	2025

Title of the project	Sponsoring Agency	Total period with dates	
		From	To
Development of a simple scoring system based on clinical findings and simple laboratory tests for patients presenting with acute febrile illness	National Health Mission, Department of Health and Family Welfare, Govt. of West Bengal (NHM)	2021	- 24

Ongoing Research Activities :

- i. A Study on Acute Respiratory Infections caused by Respiratory Syncytial Virus among Hospitalised Infants and Children (up to Five years of Age) at a Tertiary Care Hospital, Kolkata - Dr. Ankita Roy
- ii. Study And Detection Of Colistin Susceptibility In Carbapenem Resistant Gram Negative Bacteria In A Tertiary Care Hospital In Kolkata - Dr. Madhumanti Mandal
- iii. Determination Of Prevalence Of Giardia Spp, Along With Genotyping Of Morphologically Identical Assemblages And Their Association With Disease Outcome In A Tertiary Care Hospital, Kolkata. - Dr. Malabika Debbarma
- iv. A Study On Prevalence Of Intestinal Parasite Infection Among Primary School Going Children Of Birbhum District, West Bengal. - Dr. Kartick Kumar Patra
- v. Detection of Vancomycin Resistance in Clinical isolates of Enterococci species among adult patient by Vancomycin screen Agar and Broth dilution methods in a tertiary care Hospital , Kolkata - Dr. Ankita Sarkar
- vi. Role of AcrAB-TolC efflux pump in development of carbapenem resistance in Escherichia coli among clinical samples in a tertiary care hospital, Kolkata- Dr. Asik Rahaman
- vii. A comparative clinico mycological study of Dermatophytosis among untreated new cases and previously treated chronic patients in a tertiary care hospital in Kolkata.- Dr. Sangita Biswas
- viii. Seroprevalence of Toxoplasma gondii among patients attending Psychiatry Department of a Medical College Hospital - Dr. sudip Kumar ghorui
- ix. A Study on the Sero Diagnosis of Scrub Typhus and other Rickettsial Infection among Undiagnosed Acute Febrile Illness Patient. - Dr. Ashimita Das

NATIONAL PROGRAMS

- INTEGRATED DISEASE SURVEILLANCE PROGRAMME (IDSP)
- NATIONAL VECTOR BORNE DISEASE CONTROL PROGRAMME (NVBDCP)
- NATIONAL AMR SURVEILLANCE PROGRAMME (CONTAINMENT OF ANTIMICROBIAL RESISTANCE)

- WHO-VPD SURVEILLANCE FOR DIPHTEHERIA AND PERTUSSIS
- NATIONAL ONE HEALTH PROGRAMME FOR PREVENTION AND CONTROL OF ZOONOSES (NOHP-PCZ)
- NATIONAL VIRAL HEPATITIS CONTROL PROGRAMME

Awarded and Achievements:

Dr. Alisha Acharya awarded 1st Position in the Symposium held on the World Hepatitis Day, 28th July, 2023 at STM, Kolkata

CMEs:

1. CME on Parasitic Zoonoses for medical personnel was conducted on 23rd March 2023.
2. CME on Slide demonstration of helminths of zoonotic importance held at School of Tropical Medicine, on 4th November, 2023, in collaboration with IATP WB Chapter

Training Programme conducted / received by faculties of:

1. Review meeting and workshop on Quality System Essentials on HIV testing , at NRL, STM, Kolkata for Laboratory In-charges and Technical Officers of West Bengal , Bihar, Sikkim and Chhattisgarh on 6th July, 2023.
2. Hands on workshop on ELISA for diagnosis of Arbo Viruses for five days given to the Medical Officers and Laboratory Technicians of Chittaranjan Seva Sadan in the month of May, 2023
3. Hands on workshop on ICT for diagnosis of HBsAg and Anti HCV antibodies for two days under NVHCP given to the Medical Officers and Laboratory Technicians of Dum Dum and Presidency Correctional Homes in the month of August, 2023
4. Faculties of Virology unit are invited as a guest lecturer of several Webinar on SARS CoV 2 organized by different Government and Private organization.
5. Sensitization hands on Training and on Next Generation Genome Sequencing and at School of Tropical Medicine by USAID RISE in the month of February, 2023
6. Training Programme on Quality Management Systems and Internal Audit in Medical Laboratories as per ISO 15189 : 2022 in the month of November, 2023
7. National level Hands-on Training for Zoonotic Disease Diagnostics in association with Centre for Disease Control (CDC), India was conducted in four rounds (Round 1: 25th& 26th April and Round 2: 27th& 28th April 2023, Round 3: 20th& 21st June and Round 4: 22nd& 23rd June 2023) for medical, veterinary and laboratory

professionals from newly formed SSS (Sentinel Surveillance Sites) of all states of NCDC from all over of India as assigned by NCDC.

8. State level Hands-on training on 'Laboratory Diagnosis of Brucellosis and Overview on Diagnosis of Anthrax' was conducted on 21st& 22nd March 2023 for Nodal Officers, faculty members and laboratory technicians of SSS of West Bengal.

Publications in referred Journals:

- 1) Ballav S, BiswasAK, Saha P, Guha U, Pramanik T, Maji AKandGuha SK (2023) Japanese Encephalitis Virus Infection among Wild Caught Vectors Mosquitoes and Domestic Pigs in Northern West Bengal, India. Indian Journal of Public Health, 67:646-53.
- 2) Sardar AA, Guha U, Guha SK, Maji AK and Saha P (2023) Evidence of metabolic resistance to insecticides in sandfly population from Kala-azar endemic areas of Malda, West Bengal, India. Journal of Entomology Research, 46 (Suppl.): 1205-1213.
- 3) Acharya A, Chattopadhyay S, Bhattacharyya T, Sengupta A, Ghosh T. (2023) Strongyloidiasis: a dreaded yet a neglected helminthic infection. International Journal of Scientific Research (IJSR).
- 4) Chattopadhyay S, Acharya A, Bhattacharyya T, Sengupta A, Ghosh T. (2023) Soil-transmitted helminths- a glimpse into the eastern horizon of India. Al Ameen Journal of Medical Sciences (AJMS).
- 5) Ghosh S (2023).Parasitological research in the Calcutta School of Tropical Medicine, Indian Journal of Tropical Parasitology.
- 6) Chkaraborty A, Biswas Pramanik S and Sau B (2023) Retrospective Study on the Clinico-Epidemiological Profile of Covid -19 patients in a Tertiary Care Hospital in India. International Journal of Medical Science & Applied Research vol.6, Issue 4, Page No. 41-49.

DEPARTMENT OF DERMATOLOGY, VENEREOLOGY & LEPROSY

The Department of Dermatology, School of Tropical Medicine is committed to ensure best possible of patient care with distinction. Everybody in the department which include faculties, post graduate students and other staffs contributed in smooth functioning of day to day activities, maintaining covid protocol.

In our outpatient department in this year 2023 we served 2,41,613 patients in Dermatology O.P.D and 232 new cases in Leprosy O.P.D.

We have also arranged webinar , presentation, lecture, seminar, in regular interval to ensure uninterrupted teaching and learning and academic support to students.

Coming to daily activities we are giving services with PUVA Therapy, Cryotherapy, Electrocautery, Radiofrequency ablation, Vitiligo surgery, Chemical peeling , PRP etc. apart from daily consultation.

FACULTIES

Professor and Head	Prof(Dr.) Saswati Halder
Associate professor	Dr. Jayanta Kumar Barua
Assistant professor	Dr. Projna Biswas
Assistant professor	Dr. Gourav Roy
RMO cum Clinical Tutor	Dr. Nibir Biswas
RMO cum Clinical Tutor	Dr. Partha Pratim Sarkar
RMO cum Clinical Tutor	Dr. Avik Panigrahi
Senior Resident	Dr. Prabal Samanta
Senior Resident	Dr. Rik Goswami
Senior Resident	Dr. Ananya Chanda
Senior Resident	Dr. Pratik Dey

JUNIOR RESIDENTS

Dr. Asim Kumar Halder	Dr. Tamanna Dokania
Dr. Suman Sen	Dr. Titli Ghosh
Dr. Rupam Nath	Dr. Dipmalya Mondal

Dr. Ahana Sengupta
Dr. Shilpa Mondal
Dr. Rubina Sultana

PATIENT CARE SERVICES

OPD attendance	: Total 2,41,613 (New patients 2,04,680) (Old patients 36,933) Total leprosy case attended 1865 New Leprosy cases 232
Indoor Admission	: 108
Suraksha Clinic	: Total STI cases 2,923 Total Follow-up cases 346 Total number of RPR/VDRL found reactive 267 Total number of HIV found reactive 25 Total number of Serologically Positive for Syphilis 112

MINOR OPERATIVE PROCEDURES

Biopsy	: 244
Electro Cautery	: 137
Radio Frequency	: 213
Chemical Peeling	: 572
Intra Lesional Steroid Injecton	: 710
Iontophoresis	: 20
PRP	: 21
Vitiligo Surgery	: 3
Phototherapy	: 520
Ingrown Toe nail	: 25
Dermaroller	: 43

ONGOING RESEARCH PROJECT

1. A randomized open label, parallel group study to evaluate the safety to evaluate the safety and efficacy of Abrocitinib 100 mg and 200 mg tablets in participants aged 12 years and older with moderate to severe atopic dermatitis in India.
PI- Dr Saswati Halder
CO PI -Dr Prabal Samanta
2. A randomized, double blind, placebo controlled, multicenter dose ranging trial to evaluate the safety of ASLAN004 in adult patient with moderate to severe atopic dermatitis.
PI- Dr Saswati Halder
CO PI- Dr Prabal Samanta

3. A randomized phase3, three parallel arm, assessor blind, multicentre study to evaluate the efficacy, safety and tolerability of AKPO2 cutaneous spray (Calcipotriol +Betamethasone Dipropionate) in subjects with mild to moderate psoriasis.

PI - Dr Jayanta Kumar Barua

CO PI - Dr Projna Biswas

CO PI - Dr Prabal Samanta

THESIS

1. A comparative, prospective study on the effectiveness and safety profile of Cryotherapy versus intralesional steroids versus both in the treatment of keloids of the skin in a tertiary care hospital in eastern India

Dr. Tamanna Dokania

Guide : Dr. Jayanta Barua

2. A clino-epidemiological study on prevalence of Genital Dermatitis among different socioeconomic strata according to modified Kuppuswamy scale

Dr. Dipmalya Mondal

Guide : Dr. Saswati Halder

3. A clino-epidemiological study on bacterial primary pyoderma cases attending dermatology outdoor in a tertiary care hospital in eastern India

Dr. Titli Ghosh

Guide : Dr. Saswati Halder

Co-Guide : Dr. Anindita Rakshit

PUBLICATIONS

1. Barua J.K , Hajra K, Samanta P, Satsangi P, Saha T, Halder S Clinico epidemiological study of vitiligo in a tertiary care hospital of eastern India

2. CLINICO EPIDEMIOLOGICAL STUDY OF LEPROSY IN A TERTIARY CARE HOSPITAL OF EASTERN INDIA.

-Agarwal N, Saha T R, Barua J K, Banerjee G, Chatterjee K, Halder S, Samanta P

**DEPARTMENT OF CLINICAL AND EXPERIMENTAL
PHARMACOLOGY**

Professor and Head	:	Dr Santanu Munshi
Associate Professor	:	Dr Chiranjib Bagchi
Assistant Professor	:	Dr Priyotosh Saha
Senior Residents	:	Dr Shambo Samrat Samajdar (up to 21st October, 2023) Dr Sougata Sarkar Dr Kaustav Saha Dr Shreyashi Dasgupta Dr Satyabrata Sahoo
Medical Technologists	:	Sri Bishwajit Basu Sri Dipankar Naskar
G.D.A.	:	Sikandar Ram (upto December 2023)
C.T. & S.W.	:	Sri Ramprasad Mallick Md. Hussain Sri Dilip Hela

Departmental Routine Activities:

- i) **Laboratory Service-** a) Arsenic Estimation Centre-Chemical analysis of arsenic in drinking water and in clinical samples like nails, scales and hairs of chronic arsenic poisoning patients attending this hospital and other Government hospitals (SSKM, MCH, RGKMC&H, NRSMC&H etc) is routinely carried out in this department. No of samples tested in 2023 is depicted below:

Arsenic Analysis Results in 2023:

<i>Year</i>	<i>Water</i>	<i>Nail</i>	<i>Hair</i>	<i>Others</i>	<i>Total</i>
2023	48	51	51	Nil	150

** The nos. in the parentheses indicates the nos. of samples containing arsenic above the permissible limit.

- ii) **Teaching-** Regular sessions of lecture classes/ group discussions and/ practical classes are arranged by the departmental faculties for students of post graduate (MD) and postdoctoral courses (DM) conducted by this institute and post-doctorate PhD and short-term project students.

iii) **Patient Care-**

- a) Departmental medical faculties are involved in running the Clinical Pharmacology OPD service on every Tuesdays and Fridays at usual OPD hours
- b) Faculties are also engaged in clinical pharmacological consultation on referral for indoor admitted patients.
- c) Department is also running Cardiac Autonomic Neurofunction testing pharmacodynamic laboratory service for patient care

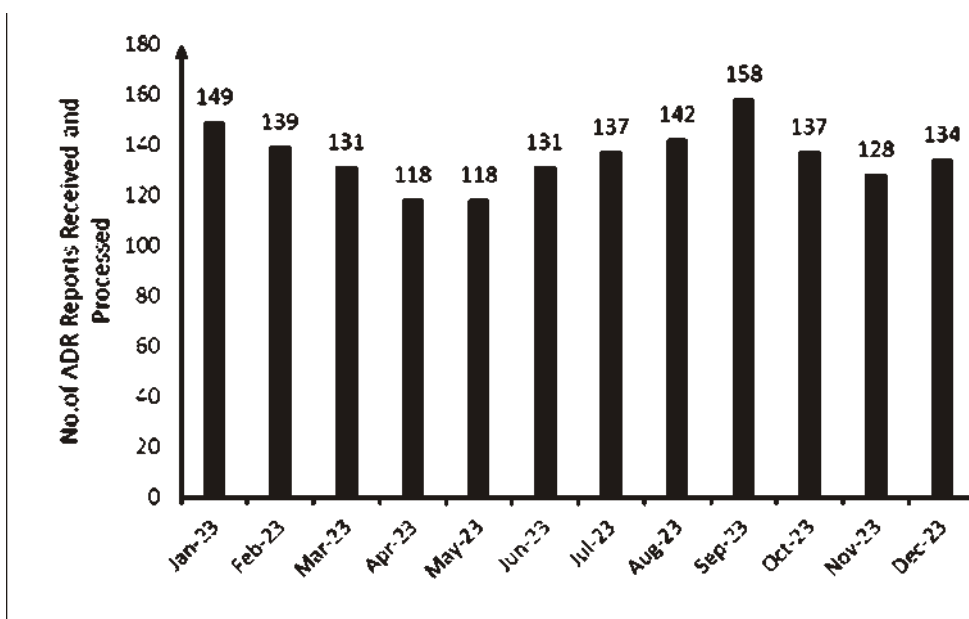
iv) **Research-** Guiding of post-graduate and post-doc students in clinical and experimental research in collaboration with other departments and institutes.

v) **Adverse Drug Reaction(ADR) Monitoring Centre:**

Under the Pharmacovigilance Programme, Ministry of Health and Family Welfare, Government of India-ADR reports are collected from different clinical departments of this institute and other different government and private hospitals as well as from private clinics. These ADR reports are analysed and processed to CDSCO in a scheduled format from time to time. This programme was launched on July 16th, 2010, and this Centre has been an active AMC since its inception.

The ADR Monitoring Centre at the School of Tropical Medicine, Kolkata is the highest reporting centre in Eastern India and has been awarded the position of 8th highest ADR reporting centre in the country for the year 2023.

The AMC, STM Kolkata has reported a total of 1622 ADR reports in the Year 2023.



The centre also actively carries out surveillance of vaccines, blood products and medical devices regularly.

The AMC has conducted various sensitization programmes for various private hospitals and community pharmacies in Kolkata and nearby areas.

The centre has trained six project trainees on pharmacovigilance in the year 2023.

Co-ordinator - Prof (Dr) Santanu Munshi

Pharmacovigilance Associate - Ms Shatavisa Mukherjee

● **Medical Device Monitoring Centre (MDMC):**

Under Materiovigilance Programme of India, Ministry of Health and Family Welfare, Government of India, the only MDMC of West Bengal has been functioning in this department.

Co-ordinator - Prof (Dr) Santanu Munshi

Pharmacovigilance Associate - Ms Shatavisa Mukherjee

vi) **Materiovigilance centre:** Under Materiovigilance programme of India, Ministry of Health, Government of India, the only materiovigilance centre has been functioning in the department.

Co-ordinator - Prof (Dr) Santanu Munshi

Pharmacovigilance Associate - Ms Shatavisa Mukherjee

vii) **Antibiotic use surveillance and consumption project By NCDC-WHO(in collaboration with Department of Microbiology) :** Dr Chiranjib Bagchi – Nodal Officer (Pharmacology), Ms Trisha Sarkar- Pharmacist

viii) **Clinical trials conducted by the department**

<i>Sl. No.</i>	<i>Topic</i>	<i>Year</i>	<i>Principal Investigator</i>
1	Effect of Guduchyadi tablet (Tinospora based herbal formulation) in the management of newly diagnosed mild COVID-19 patients, to reduce the risk of hospitalization or death: A randomized double-blind placebo-controlled trial” (Sponsor - All India Institute of Ayurveda, New Delhi)	2022-23 Ongoing	Prof Santanu Munshi
2	“ACTIV-2d/A5407-A Phase 3, multicenter, randomized, double-blind, 24-week study of the clinical and antiviral effect of S-217622 compared with placebo in non-hospitalized participants with COVID19”	2023 completed	Prof Santanu Munshi

<i>Sl. No.</i>	<i>Topic</i>	<i>Year</i>	<i>Principal Investigator</i>
3	Phase II, Multicenter, Randomized, Assessor-blind, Parallel group, Active comparator Study to Determine the Efficacy, Safety, Tolerability and Pharmacokinetics of Different Orally Administered Regimens of ZY 19489 in Uncomplicated Plasmodium Falciparum Malaria Patients.	2022-2024 (February) (Ongoing)	Dr Chiranjib Bagchi

ix) **Seminars, Workshops and Conference:**

- **On 17th March – Workshop on Clinical Research** – Organised by our department as a part of academic activity following Foundation Day Celebration 2023
- **On 19th May – Workshop on Manuscript Writing and Publication Ethics Research** – Organised by our department in collaboration with IPSWB branch
- **On 13th September – On World Sepsis Day** – Dr Chiranjib Bagchi

Other research Projects

1. Point prevalence survey to quantify antimicrobial utilization and determine patterns of antibiotic use at selected health care facilities (STM site), by Dr Chiranjib Bagchi, under NCDC-WHO project (Report submitted)
2. Effect of SGLT2 inhibitors on cardiac autonomic function of type 2 diabetic adults having inadequate glycemic control by other oral anti-diabetic agents: a prospective observational study, DM Clinical Pharmacology thesis by Dr Dipan Saha, Guide Prof Santanu Munshi (Thesis submitted)
3. A study on the prevalence of recalcitrant Dermatophytosis and the factors associated with treatment failure along with non-adherence to drug therapy and medication, DM Clinical Pharmacology thesis, by Dr Arijit Kayal, Guide: Dr Chiranjib Bagchi (Thesis submitted)
4. A prospective observational study to evaluate the association of CYP2C9 polymorphism with the steady state plasma concentration of valproic acid in pediatric epilepsy patients in a tertiary care teaching hospital Eastern India, DM Clinical Pharmacology thesis by Dr Anindya Karmakar, Guide : Prof. Santanu Munshi
5. A prospective study to explore the benefit of medication reconciliation in elderly patients with polypharmacy attending the geriatric department of a tertiary care

teaching hospital in Eastern India, DM Clinical Pharmacology thesis by Dr Tanmoy Biswas, Guide: Dr Chiranjib Bagchi

6. Evaluation of antibiotic usage pattern in the adult critical care unit in a tertiary care hospital in West Bengal: a prospective observational study. MD Pharmacology thesis by Dr. Tanusree Mondal, Guide: Dr Chiranjib Bagchi
7. “Effectiveness and tolerability of thalidomide in hydroxyurea refractory or intolerant thalassemia patients – An observational study, MD Pharmacology thesis by Dr. Babhrabi Bhakta, Guide: Prof Santanu Munshi

A. Awards & Fellowship

B. Awards - Dr Shambo Samrat Samajdar

1. Gold Medal in Diploma in Allergy Asthma and Immunology, Bharathi Vidyapith University affiliated and The American Academy of Allergy, Asthma & Immunology (AAAAI) and International Asthma Services (IAS) accredited
2. WIDF Innovator Award

C. Fellowship

1. Fellow of Indian Pharmacological Society (FIPS)
2. Fellow of Diabetes India

Departmental Achievement

Department has achieved the permission for one more MD Pharmacology seat from year 2022(Total 2 seats per year) and successfully renewed two seats of DM Clinical Pharmacology per year.

Other activities

1. Prof. Santanu Munshi has been acting as
 - Member, Board of studies for UG & PG courses in Pharmacology and DM Clinical Pharmacology at WBUHS
 - Member Secretary, Clinical Research Ethics Committee of STM, Kolkata,
 - Member & Scientist In-Charge, Institutional Animal Ethics Committee of STM, Kolkata
 - Resource person for the MOU with ID&BG Hospital for ethics review of their academic research proposals for DNB courses
2. Drafting Hospital Antibiotic Policy(STM): Dr Chiranjib Bagchi acted as convenor of the committee for drafting the Hospital Antibiotic Policy(STM) in collaboration with

the department of Microbiology, Infectious disease, Tropical Medicine and Dermatology

3. All faculties and senior residents have acted as guest speakers, Chairpersons and resource persons in various national and international conferences and seminars
4. Departmental students(PGT, PDT, Research scholars), senior residents presented papers both in oral and poster sessions in different national and international conferences like ACPICon 2023, HOPECON 2023, GSICON2023, RSSDI 2023.
5. Dr Sambo S Samajdar has been acting as General Secretary Indian Pharmacological Society, West Bengal Chapter, 2021- 2023 and a member of Journal Committee – JIMA and Associate Editor – Bengal Physician Journal, Kolkata and has acted as Organizing Secretary – ALLERCON 2023, ACPICon 2023.

Publications

Bookchapters

1. Editorial Team of the South Asian Edition of McMaster Textbook of Internal Medicine South Asian Edition, Chapter written: Injections of Drugs and Other Substances: Intramuscular Injections, Intravenous Injections, Subcutaneous Injections; Lumbar Puncture.
2. E-book on Clinical Trial Management: Chapter 03 - Indian and International Regulations Governing Clinical Research
3. Progress in Medicine 2023 (1 Vol), Volume 33: Chapter 122 - Antibiotics: Mechanism of Action & Resistance
4. Chapter 1: Tropical Fever: A Global Challenge; Monograph on Tropical Fever
5. Chapter 238: Chronotherapeutics in Clinical Practice: Medicine Update 2023 (2 Vol), Volume 33 by Dr Girish Mathur

Book Written

Competency Based Practical Pharmacology for Undergraduate(Sarkar Sougata, Srivastava V, Pattanayak C, Samajdar SS. Practical Pharmacology. 1st ed. Hyderabad: Paras Medical Publisher; 2023.)

JournalArticles

1. Bagchi C*, Ghosh C, Pramanik N. A cross-sectional study on demography, clinical presentation, knowledge, attitude, practice, and treatment seeking behavior among uncomplicated Plasmodium falciparum malaria patients at a tertiary care hospital in Eastern India. Natl J Physiol Pharm Pharmacol. 2023; 13(2023, Vol: 13, Issue: 8): 1657-1662

2. Joshi SR, Das S, Xavier S, Samajdar SS (Corresponding author), Saha I, Sarkar S, Mukherjee S, Tripathi SK, Pal J, Chatterjee N. Efficacy and safety of lobeglitazone, a new Thiazolidinedione, as compared to the standard of care in type 2 diabetes mellitus: A systematic review and meta-analysis. *Diabetes Metab Syndr*. 2023 Jan;17(1):102703. doi: 10.1016/j.dsx.2022.102703. Epub 2023 Jan 2. PMID: 36634469.
3. Samajdar SS, Mukherjee S, Moitra S, Pal J, Joshi S, Tripathi SK. Effectiveness of budesonide formoterol fixed-dose combination MDI in reducing cough symptoms in COVID-19 patients: A real-world evidence study. *Lung India*. 2023 Mar-Apr;40(2):107-111. doi: 10.4103/lungindia.lungindia_268_22. PMID: 37006092; PMCID: PMC10174662.
4. Das S, Samajdar SS, Mukherjee S, Sarkar S, Sen S, Pathak A, Lundborg CS, Selvarajan S, Tripathi SK, Pal J, Chatterjee N, Joshi SR. Ten clinical pharmacological interventions in routine care to ensure better treatment outcomes. *Int J Pharm Pract*. 2023 Jun 30;31(4):444-446. doi: 10.1093/ijpp/riad032. PMID: 37105526.
5. Samajdar SS, Mukherjee S, Sarkar S, et al. Clinical Pharmacological Consultation in Optimizing Diabetic Patient Care: A Cross-sectional Observational Study. *Bengal Physician Journal* 2023;10(1):6–8.
6. Chatterjee R, Modak D, Sarkar K, Samajdar SS, Pramanik N, Mukherjee S, et al. Electrocardiographic changes in dengue fever. *Asian Pac J Trop Med* 2023; 16(5): 239-240.
7. Samajdar, S.S. and Tripathi, S.K. (2023), Clinical Pharmacological Reconciliation, Review, and Feedback in Ensuring Patient Safety: A Commentary. *J Clin Pharm*. <https://doi.org/10.1002/jcph.2285>
8. Bandyopadhyay S, Samajdar SS, Das S. Effects of saroglitazar in the treatment of non-alcoholic fatty liver disease or non-alcoholic steatohepatitis: A systematic review and meta-analysis. *Clin Res Hepatol Gastroenterol*. 2023 Jun 26;47(7):102174. doi: 10.1016/j.clinre.2023.102174. Epub ahead of print. PMID: 37380128.
9. Sahoo, Satyabrata and Pal, Asutosh and Naser, Syed Mohammad and Bagchi, Chiranjib and Munshi, Santanu and Tripathi, Santanu Kumar and Acharya, Mrinal and Samajdar, Shambo Samrat (2023) Treatment Reconciliation in Parkinson's Disease Patients with Particular Reference to Wearing-off and Motor fluctuations: A

Registry-based, Prospective, Observational Study. JOURNAL OF CLINICAL AND DIAGNOSTIC RESEARCH, 17 (6). FC0- FC13. ISSN 2249782X

10. Samajdar SS, Mukherjee S, Tripathi SK, Pal J, Joshi SR. Effectiveness and Safety of Fixed-dose Combination of Perindopril/Amlodipine/ Indapamide, and Telmisartan/Amlodipine/ Chlorthalidone in Grade 2 Hypertensive Patients at High Cardiovascular Risk: A Real-world Observational Study. Journal of Clinical and Diagnostic Research. 2023 Jan, Vol-17(1): OC22-OC25. DOI: 10.7860/JCDR/2023/58211.17345
11. Mukherjee S, Samajdar SS (Corresponding author), Mondal PK, Mondal T, Pal J, Joshi SR, Tripathi SK. Outcome of COVID-19 in Type 2 Diabetics : A Cross Sectional Study. J Indian Med Assoc 2023; 121(7): 61-4
12. Joshi SR, Samajdar SS (Corresponding author), Mukherjee S, Sarkar S, Chatterjee N, Pal J. Indian traditional diet may prevent COVID- 19-related mortality: A narrative review. Asian J Intern Med. 2023 July; 2(2). DOI: <https://doi.org/10.4038/ajim.v2i2.104>
13. Samajdar SS, Mukherjee S, Ghosh S, Munshi S, Tripathi SK, Moitra S, Vedanthan P. Component-resolved Diagnostics in Allergy Practice Focusing on Food Allergy: A Systematic Review. Bengal Physician Journal 2023; 10 (2):29-42. DOI: 10.5005/jp-journals-10070-8016
14. Samajdar, Shambo Samrat; Joshi, Shashank R. Sweeping toward a healthier India: A proposal to address both communicable and noncommunicable diseases through physical activity. Journal of Diabetology 14(3):p 180-181, July-September 2023. | DOI: 10.4103/jod.jod_36_23
15. Bandyopadhyay S, Das S, Samajdar SS, Joshi SR. Role of semaglutide in the treatment of nonalcoholic fatty liver disease or non-alcoholic steatohepatitis: A systematic review and meta-analysis. Diabetes Metab Syndr. 2023 Sep 13;17(10):102849. doi: 10.1016/j.dsx.2023.102849. Epub ahead of print. PMID: 37717295.
16. Samajdar, S.S., Joshi, S.R., Mukherjee, S. et al. Effectiveness and safety of Glargine U-100 and detemir insulin in hyperglycemic pregnancy: a record-based observational study. Int J Diabetes Dev Ctries (2023). <https://doi.org/10.1007/s13410-023-01269-2>
17. Samajdar, S.S.; Joshi, S.R. Suryanamaskar: Unlocking the Potential of Chrono-Physiology for a Elderly Healthy Heart. IJGC | May-Aug 2023 | Vol 12. No. 2. Pg 62-65.

18. Shah, Sanjay K, Bera, Mridul, Bhattacharya, Guru Prasad; Samajdar, Shambo Samrat; Mukherjee, Shatavisa. Real-world Clinical Effectiveness on Glycaemic Parameters, Safety and Additional Benefits of Glargine U300 (Toujeo®) Initiation after Oral Antidiabetic Drug Failure in Insulin-naïve Patients with type 2 Diabetes Mellitus. *Indian Journal of Endocrinology and Metabolism* 27(5):p 426-430, Sep–Oct 2023. | DOI: 10.4103/ijem.ijem_57_23
19. Samajdar SS, Munshi S. Fostering Competent Medical Graduates: The Imperative of Medically Trained Teachers in Medical Education, Inspired by Dr Frances Oldham Kelsey. *J Indian Med Assoc.* 2023 Nov;121(11):58.
20. Samajdar, Shambo S.; Moitra, Saibal. Present and Future of Allergy Practice in India. *Journal of Pediatric Pulmonology.* 2023 2(Supp1 2):p S87-S91, | DOI: 10.4103/jopp.jopp_40_23
21. Samajdar, Shambo S; Mukherjee, Shatavisa; Sarkar, Sougata; Sen, Sumalya; Tripathi, Santanu Kumar; Joshi, Shashank R. Availability of different branded generic vildagliptin after off-patenting: An observation from India. *Journal of Diabetology* 14(4):p 236-238, October-December 2023. | DOI: 10.4103/jod.jod_92_23
22. Chatterjee, Rupak; Modak, Dolonchampa; Sarkar, Kumkum; Samajdar, Shambo Samrat; Pramanik, Netai; Mukherjee, Shatavisa; Saha, Bibhuti. Electrocardiographic changes in dengue fever. *Asian Pacific Journal of Tropical Medicine* 16(5):p 239-240, May 2023. | DOI: 10.4103/1995-7645.377745
23. Samajdar, Shambo Samrat; Sharma, Jayanta; Mukherjee, Shatavisa; Sahoo, Satyabrata; Sarkar, Sougata; Pal, Jyotirmoy; Chatterjee, Nandini; Tripathi, Santanu Kumar; Joshi, Shashank R. Clinical Pharmacological Principles in Emergency Geriatric Care: Toxidrome Approach. *Journal of the Indian Academy of Geriatrics* 19(4):p 282-284, Oct–Dec 2023. | DOI: 10.4103/jiag.jiag_21_23.

DEPARTMENT OF ENDOCRINE, NUTRITION AND METABOLIC DISEASES

In-Charge Dr. Arindam Naskar

GDA Sri D.K. Das

Departmental Outlook:

- A) To take the community-based approaches with a view to creating awareness regarding uprising trend to non-communicable chronic complications (CVD, Diabetes, Metabolic abnormalities, Hormonal disorientation etc.), especially due to obesity and central tendency as well as to combat it by the advance knowledge, attitude and practice both curative and preventive application.
- B) Upgradation of detection, evaluation and treatment of Diabetes Mellitus and Metabolic syndrome as well as other metabolic disorders for which we are pioneered by the advanced knowledge in the field of Diabetes, Endocrine, Nutrition and Metabolic diseases.
- C) To conduct Community based survey/applied research with a view to assess the health and nutrition scenario and to find out the ways and means reducing such national health burden.
- D) To assess the nutritional status of children in the OPD/Community with special attention to subclinical state(hidden) under nutrition, protein-energy malnutrition (PEM) as well as childhood obesity with a view to creating awareness and to way out the pediatric good health and nutrition strategies.
- E) To enrich the Medical and Nutritional fraternity by sharing our views and experiences through a number of knowledge sharing seminars, workshops, case presentations etc.

Routine patient care service

OPD service:

- 1) Endocrine, Nutrition and Metabolic diseases OPD (every Tuesday & Friday) at Calcutta School of Tropical Medicine.
- 2) Nutritional counselling, Monitoring and Medical Nutritional Therapy provided all outdoor patients treated in this Department as well as referred from other departments of this institution and other medical institutions.

- 3) Education and awareness regarding diabetes prevention, malnutrition prevention, living healthy life with diabetes, self-blood glucose monitoring, self-insulin administration techniques etc.
- 4) Treatment of diabetic complications like neuropathy, CVD, nephropathy, diabetic foot ulcer etc. with special care.

In patient service:

- 1) Admitting patients to Carmichael Hospital for Tropical Diseases.
- 2) Visiting referred cases by other departments of Calcutta School of Tropical Medicine.
- 3) Nutritional counseling, monitoring and Medical Nutritional Therapy (MNT) provided to all indoor and outdoor patients treated in this department as well as referred from other departments of this institution.

Routine OPD and IPD Cases

OPD Old ticket	OPD New ticket	Indoor	Death	Total OPD ticket
Male-3062	Male-3716	(Diabetic patients)		
Female-2563	Female-3166			
5625	6882	38	1	12507

Academic activities of the Department:

Teaching:

Theoretical classes, bedside teaching for MD students.

Dr. Arindam Naskar is the Regional facilitator for the certification course in evidence-based Diabetes Mellitus management (CCEBDM) organized by PHFI (Public Health Foundation of India).

Research Activities:

1. A study on Prevalence of Low Testosterone level in male Type 2 diabetic patients and associated risk factors responsible for it
2. A study on Echocardiography changes in patients of Type 2 Diabetes Mellitus attending a tertiary care hospital in Eastern India
3. A Clinico-Epidemiological Study on Peripheral Arterial Disease in Diabetes Mellitus.
4. A study on Lipid abnormalities and Carotid Intima-media thickness in patients with Thyroid dysfunction
5. A correlational study of glycemic control and duration of diabetes with Nephropathy in adult type 2 diabetic patients

6. Acted as supervisor for a student of MSc Food science and nutrition of Maulana Abul Kalam Azad University of Technology, West Bengal Nutrition Student for her project on “Endocrinology , Nutrition and Metabolic diseases”.

Departmental CME and Seminars:

Scientific sessions organised by Dr. Arindam Naskar for faculties and students to enrich knowledge.

1. PIONEERING the paradigm shift in management of T2 Diabetes Mellitus
2. Evolving diabetes management -Medical Nutrition Therapy
3. Hyperuricemia- Clinical perspectives
4. Azelnidipine-Antihypertensive therapy with additional benefits
5. IBS-Evaluating treatment options
6. Role of Magnesium and Vitamin D in Diabetes and Hypertension patients
7. Bempedoic Acid in managing dyslipidemia
8. Sulphonylureas in managing T2 DM in modern era
9. Diabetic Gastroparesis
10. Combination therapy of DPP4 with SGLT2 inhibitor in managing T2 DM patients
11. CVOT trials of different DPP4 Inhibitors
12. Role of ARNI in managing Heart Failure
13. Emerging diabetes management -Drug to diet
14. Approach to hyponatremia in clinical practice
15. Comprehensive Insulin therapy in managing Diabetic patients
16. Managing male sexual dysfunction in clinical practice
17. Sub Clinical Hypothyroid- Treat or not to treat
18. Approach to GERD in clinical practice
19. Nutrition Transition- From Diabetes to Diabetic Kidney Disease
20. Dapagliflozin: A single point Cardio-Renal solution for type 2 DM
21. Nutrition transition- From Diabetes to Diabetes Kidney Disease
22. Managing NASH in clinical practice
23. Redefining the beneficial role of Vitamin D in co morbidities
24. Interpretation of Thyroid function tests
25. Imeglimin- A novel drug in managing Type 2 Diabetic patients
26. Managing Pancreatic Exocrine insufficiency with PERT
27. Hypertension- recent guidelines and role of ARB's
28. FDC of Metformin+ DPP4+ SGLT2 i managing Type 2 DM
29. Cardio renal compendium –Focussed on Empagliflozin
30. Role of Saroglitazar in managing NAFLD

Symposium on World Diabetes day

Conducted at School of Tropical Medicine on (14/11/2023) occasion of 100 years of Insulin in India in collaboration with International Diabetes Federation (IDF)

Publication:

1. A Randomized, Double-Blind, Parallel-Group Phase III Trial Investigating the Glycemic Efficacy and Safety Profile of Fixed-Dose Combination Dapagliflozin and Linagliptin Over Linagliptin Monotherapy in Patients with Inadequately Controlled Type 2 Diabetes with Metformin-Diabetes Therapy (2023) 15:215–227, <https://doi.org/10.1007/s13300-023-01504-3>

Future Aspiration:

1. Upgrade infrastructure of the department with help from Director, STM and the Department of Health and Family Welfare.
2. Filling up the vacant posts to strengthen the department

DEPARTMENT OF PATHOLOGY

Staff

Name	Designation
Dr. Sumana Mukherjee	Professor and Head
Dr. Soma Das	Demonstrator
Ms Priyanka Mandal Dey	MT Lab
Ms Aditi Bhowmick	MT Lab
Ms Debarati Chatterjee	MT Lab
Ms Chaitali Samanta	MT Lab
Ms Puspita Singha	MT Lab
Ms Mistu Bose	MT Lab
Mr Ranjan Paul	GDA
Mr Monotosh Biswas	GDA
Mr Nirmal Roy	Artist
Mr Ramesh Dhanu	Sweeper
Mr Rajen Mashi	Sweeper

SR:

Dr Oishwarya Basu

DCP PGT

1. Dr Santanu Das
2. Dr Sanjay Lal Gorain
3. Dr Provakar Datta
4. Dr Atmaja Chakraborty
5. Dr Raju Thakur
6. Dr Farhat Ali

Investigations done

Central pathology

Urine routine examination	4436
Stool	2385
Histopathology	495
FNAC	236
Other Cytology	578
Special haematology (Bone marrow)	65

Academics

- 1 DCP student passed final examination
- 85 BMLT students gave final examination and 95% passed successfully
- DCP PGTs presented posters at Pathology conference held at AIIMS, Deogarh And Dr Provakar Datta won 1st position.

DEPARTMENT OF HAEMATOLOGY

Assistant Professor and In-Charge	:	Dr. Nidhi Dikshit
R.M.O. cum Clinical Tutor	:	Dr. Sandip Kumar Karmakar
Medical Officer	:	Dr. Arindam Chakraborty
	:	Dr. Dipak Kumar Das Roy
Medical Technologist (Lab)	:	Mr. Joygopal Dolui
GDA	:	Mr. Sikandar Ram
C.T. & S.W.	:	Mr. Prabir Kumar Hazra

I. DEPARTMENTAL ACTIVITIES :

Departmental activities through the following units :

- a) General Unit.
- b) Anaemia Unit.
- c) Coagulation Unit.
- d) Leukaemia Unit
- e) Lymphoma Unit

Facilities available in this department are :

1. DIAGNOSTIC
2. TREATMENT
3. TEACHING

II. DIAGNOSTIC FACILITIES :

Routine Blood Counts

Routine Morphological Evaluation of Blood Cells

Osmotic Fragility Test

Direct Haemagglutination Test

Indirect Haemagglutination Test

Coagulation Profile

L. E. Cell Preparation

Reticulocyte Count

Bone Marrow Aspiration Cytology

Blood Grouping

III. **TREATMENT FACILITIES :**

a) **Out Patient Services :-**

Haematology O.P.D. two days every week – Monday & Thursday
O.P.D. Timing – 9 a.m. to 2p.m.

<i>Sl No.</i>	<i>Particulars</i>	<i>Numbers</i>
1.	New Male Patient	685
2.	New Female Patient	600
3.	Old Male Patient	260
4.	New Male Patient	297
	Total	1792

b) **In Patient Services :-**

Patients are admitted in this Hospital in free beds. All routine therapeutic drugs and Anti-Cancer medicines are provided.

Total number of admission : 209

Total number of Death : 4

c) **Laboratory Facilities :-**

Year - 2023

<i>ITEM</i>	<i>Total No.</i>
Complete Haemogram	4120
P-Time	3420
APTT	576
L.E. CELL	6
HPLC	5256
Sickling Test	2
DCT	6
Only ESR	1510
Bone Marrow Aspiration	42

IV. **TEACHING FACILITIES :**

Department is involved in the following teaching programme.

- a) M.D. Tropical Medicine : Theory & Clinical Classes
- b) MD Pharmacology : Theory Classes
- c) DCP : Theory & Practical Classes
- d) BSc MLT : Theory and Practical Classes

V. **RESEARCH ACTIVITIES :**

- a) Effect of Hydroxyurea and Thalidomide in Haemoglobinopathy.

DEPARTMENT OF LABORATORY MEDICINE

Assistant professor& Head	:	Dr Indranil Dhar
Assistant professor	:	Dr Koushik Dewan
Demonstrator	:	Dr. Anindita Debnath
Research Associate	:	Dr. Sumi Mukhopadhyay
	:	Dr. Sonali Das
Medical Technologist	:	Sri Sk Shamimuddin Ahmed
	:	Sri Kartick Chakraborty
	:	Sri Subhra Kamal Das
	:	Sri Goutam Das
	:	Sri Dipankar Naskar
	:	Smt Rima Das
	:	Smt Ipsita Dutta
	:	Sri Kaushik Paul
	:	Sri Saikat Ghosh
	:	Sri Sandip Biswas
CT & SW	:	Mr Vinod Hela
Research Scholars	:	Ms. Moumita Paul (DRDO SRF)
	:	Ms. Susraba Chatterjee (UGC, JRF)
	:	Ms. Akrite Mishra (WBDST, JRF)
	:	Mr. Arpan Mitra (NHM, MT)
	:	Ms. Sumona Basu (WBDST, SRF)

Patient Care Services

Total number of different lab investigations in the year Jan –Dec 2023

- Total number of biochemical lab investigation : 738758
- Total number of CLIA lab investigation : 28330
- Total no of hematological lab investigation : 52975

Courses:

BMLT as well as summer internship programmes along with PhD programmes

Research Projects

List of research projects

S. No.	Funding Agency	Title of the project	Year	Investigator
1	WBHESTBT, Govt. of West Bengal	“Study of Prognostic Utility of Siglec-1 in Dengue severity Chikungunya induced and Polyarthralgia”	2018-2023	Dr.Sumi Mukhopadhyay Principal Investigator
2	UGC, Govt of India	Comparative Proteomics Approach To Identify Diagnostic Biomarkers For Tuberculosis Infection by Ms.Susraba Chatterjee	2021-2026	Dr.Sumi Mukhopadhyay Supervisor
3	NHM, Govt of India	Development of a simple scoring system based on clinical findings and simple laboratory tests for patients presenting with acute febrile illness	2021-2024	Dr. Indranil Dhar and Dr. Sumi Mukhopadhyay Co PI
4	WBDST, Govt of West Bengal	“Characterizing Natural Killer Cell effector functions in Covid-19 Vaccinated Subjects”	2022-2025	Dr. Sumi Mukhopadhyay Co PI
5	WBDBT, Govt of West Bengal	Changes in inflammatory biomarker levels in HIV-infected children and adolescents following anti retroviral therapy (ART)-A longitudinal observational study from West Bengal	2018-2024	Dr. Anindita Debnath CoPI

Publications

1. Paul M, Saha B, Mukhopadhyay Sumi. Development of a novel lectin-based gold nanoparticle point-of-care immunoassay for rapid diagnosis of patients with severe Dengue infection. J Immunoassay Immunochem. 2023 Oct 4:1-18. doi: 10.1080/15321819.2023.2260480. Epub ahead of print. PMID: 37789768.
2. Chatterjee S, Mukhopadhyay Sumi. Can Altered ratio of reactive Aldehyde and Antioxidant Barriers be markers of Oxidative stress induced damages in patients with Tuberculosis infection? Selected for flash talk at Symposium entitled “Human origin. Health and disease- newer dimension” at Sister Nivedita University 2023.
3. Akrite Mishra, Mukhopadhyay Sumi. Distinct Inflammatory and Acute Phase Proteins in Dengue and Scrub Typhus infection: Potent Immune Bio-markers, Poster presented at “Human origin. Health and disease- newer dimension” at Sister Nivedita University 2023.

- .4. Mandal, M., Basu, S., Roy, D., Debnath, Anindita, & Guha, S. K. (2023). Changes in serum levels of IL-6, TNF- α and CRP in people living with HIV following initiation of Antiretroviral Therapy - a longitudinal cohort study from a tertiary hospital in Eastern India. *Journal of Indian Medical Association*, 121(9), 20–24.
5. Sumona Basu, Suparna Raychaudhary, Sudeepa Ghosh, KalpanaDatta, Madhuchhanda Mandal, Anindita Debnath, Subhasish Kamal Guha* Alterations in serum cytokine levels in HIV-infected pediatric & adolescent patients- A cohort study from a tertiary care hospital 2023.

**DEPARTMENT OF BIOCHEMISTRY AND
MEDICAL BIOTECHNOLOGY**

Faculty and Staff

Name	Designation
Dr. Mandira Mukherjee	Associate Professor & Head
Dr. Anusri Tripathi	Assistant Professor (Molecular Biology)
Dr. Biswanath Chakraborty	Chemist
Dr. Anjan Kumar Basu	Demonstrator
Mrs. Shanta Paul	Medical Technologist
Mrs. Jayeeta Das	Medical Technologist
Ms. Ankana Bhattacharyya	Medical Technologist
Mr. Dhurpa Soren	Group D

Teaching

The department conducts a specialized course of teaching 'M.Sc. in Medical Biotechnology' affiliated under West Bengal University of Health Sciences [WBUHS] with a capacity of ten students per year. The duration of the course is two years. The syllabus for the 1st year includes Biochemistry, Cell biology, Molecular Biology and Microbial Genetics and for the 2nd year includes Immunology and Immunogenetics, Bioinformatics and Gene Based Diagnosis and Therapy. Five students have enrolled to the course in Session 2023-2024.

M.Sc. students enrolled in the Session 2023-2024

<i>Sl. No.</i>	<i>Name</i>
1.	Sarita Balmiki
2.	Isha Jash
3.	Sankhanil Dhara
4.	Rupam Dev
5.	Barnan Choudhury

Faculties and staffs of this department are also engaged in conducting theory and practical classes in Biochemistry of the B.Sc in Medical Laboratory Technology (BMLT) course affiliated under West Bengal University of Health Sciences [WBUHS]. The duration of the course is three years.

Training program

The department is involved in conducting short term research training programs of M.Sc./ B.Tech. Post M.Sc students from different universities all over India.

Research

Ongoing research projects

1. DBT Govt. of West Bengal: Antibiotic resistance in clinical isolates of uropathogenic *Escherichia coli* - Understanding the role of universal stress protein A (UspA) as a target for therapeutic intervention
PI: Dr. Mandira Mukherjee
2. DBT, Government of India: Screening of anti-cancer activity of a few traditional medicinal plants of north east India.
PI: Dr. Anusri Tripathi
3. ICMR, Government of India: Evaluation and characterization of crucial biomarker profiles for stratifying Dengue disease severity.
PI: Dr. Anusri Tripathi
4. ICMR, Government of India: Identification of prognostic markers for dengue disease severity and determination of antiviral effect of Quercetin against dengue virus.
Project supervisor: Dr. Anusri Tripathi

PhD scholars

<i>Name</i>	<i>Designation</i>	<i>PhD supervisor</i>
Arunita Ghosh	Research Fellow, PhD awarded by Jadavpur University	Dr. Mandira Mukherjee
Snehashis Koley	Senior research fellow	-do-
Ambar Bose	Research fellow	-do-
Siddhartha Sengupta	ICMR Fellow, Ph.D. awarded by Jadavpur University	Dr. Anusri Tripathi
Saikat Mukherjee	ICMR Fellow	-do-
Sumoyee Mukherjee	Project Fellow	-do-
Priyanka Ghosh	Project Fellow	-do-

Publications

1. Koley S, Ghosh A, Mukherjee M. (2023) Occurrence of Imipenem-Resistant Uropathogenic *Escherichia coli* in Pregnant Women: An Insight into Their Virulence Profile and Clonal Structure. *Curr Microbiol.* 81(2):56. doi: 10.1007/s00284-023-03576-7.
2. Koley S, Mukherjee M. (2023) Cytokine profile in HTB-4 cells with respect to fimH, papC and hlyA expression in uropathogenic *Escherichia coli* invasion. *Future Microbiol*, 18 (8), 489-503, doi.org/ 10.2217/fmb-2022-0240
3. Koley S, Bose A, Mukherjee M, (2023) Quorum Sensing in Gram-Negative Bacteria, Natural products, Alternative therapeutic as natural inhibitors, eBook published; 1st December 2023, eBook ISBN 9781003300557, Taylor and Francis, CRC press, doi.org/10.1201/9781003300557
4. Sengupta, S., & Tripathi, A. (2023). Evaluation of analgesic and prophylactic activity of curcumin against chikungunya-infected acute/chronic arthralgic mice. *Journal of Medical Virology*, 95(3), e28661. doi.org/10.1002/jmv.28661
5. Sengupta, S., Manna, S., Saha, B., & Tripathi, A. (2023). Impact of apoptotic biomarkers for prognosis of dengue disease severity among eastern Indian patients. *Journal of Medical Virology*, 95(10), e29180. doi.org/10.1002/jmv.29180
6. Sengupta, S., Bhattacharya, N., & Tripathi, A. (2023). Increased CRP, anti-CCP antibody, IL-2R, COMP levels in prognosis of post-chikungunya chronic arthritis and protective role of their specific genotypes against arthritic manifestation. *Virus Research*, 323, 198998. doi.org/10.1016/j.virusres.2022.198998

DEPARTMENT OF REGENERATIVE MEDICINE AND TRANSLATIONAL SCIENCE (RMTS) AND CORD BLOOD BANK

Faculty, Staff, Research Scholars and Students

Name	Designation
Prof. (Dr.) Tuphan Kanti Dolai	Head, Regenerative Medicine and Translational Science (Additional charge)
Dr. Subhasis Chakraborty	Medical Director, Cord Blood Bank
Chayanika Bhattacharya	Medical Technologist (Lab), Cord Blood Bank
Chandra Kanta Ray	Medical Technologist (Lab), Cord Blood Bank
Nilotpal Das	Medical Technologist (Lab), Cord Blood Bank
Ananda Mohan Ghosh	House Keeping Personnel
Jaya Nag	House Keeping Personnel
Sarathi Sadar Kotal	House Keeping Personnel
Tirtha Kar	House Keeping Personnel
Madhusudan Dey	House Keeping Personnel

There are **eight (08)** PhD research scholars, **six (06)** M.Phil students in this Department.

List of ongoing projects

1. Use of freshly collected and fully screened amniotic membrane and amniotic fluid in burn patients.
2. Freshly collected and screened amniotic membrane and fluid application in diabetic patients with non-healing ulcer.

Academic courses in Regenerative Medicine and Translational Science

1. PhD
2. MPhil
3. Fellowship

THE ART CENTRE

ART Centre takes care of people living with HIV infection. In the year 2023, 9949 patients (Male - 6683, Female - 3065, TG/TS- 27, Boy - 102, Girl - 72) have been registered for pre antiretroviral therapy care. 2708 patients are alive on ART (Male - 1864, Female - 795, TG/TS - 12, Boy - 21, Girl - 16) – Out of them 154 are 2nd line and 71 are 3rd line. We performed 7741-CD4 and 2631- PVL test. Presently, CD4 testing of the following ART Centre are also done here:

- Regional Pediatric Centre, MCH
- M.R. Bangur Hospital
- SSKM Hospital
- Howrah Hospital

Following are the Link ART Centres with respective number of patients-

Domjur Rural Hospital (Alive PLHIV) : 126
BSF Composite Hospital (Alive PLHIV) : 06

Following are the staffs of the ART Centre–

SMO	Dr Sumana Datta
M.O	Dr. Rajasri Sen
Staff Nurse 1	Sanchayita Roy
Counsellor 1	Sandhya Banerjee
Counsellor 2	Jayanti Ghosh Sarkar
Counsellor 3	Antara Sanpui
Counsellor 4	Suvajit Dana
Data Manager 1	Soma Majumder
Data Manager 2	Sandipan Dutta
Lab Technician 1	Avik Sakar
Lab Technician 2	Samir Roy
Pharmacist	Dwijadas Maity
Care Coordinator	Abhijit Sarkar

Participation in research works:

1. “A mixed methodology study to compile factors contributing towards poor uptake of ART among HRG: FSW and IDU attending OST” The research team led by Dr. Debjani Sengupta (Principal Investigator) to collect data by face to face interview of PLHIVs attending the ART Centre, STM, Kolkata from February 2023

2. Pediatric patients of ART Centre were included in a study conducted by pCOE, MCH, Kolkata titled A comparative study on Measles seroconversion rate among HIV exposed and HIV infected Indian children following dual dose of Measles containing Vaccine at ART Centre, STM, Kolkata from September 2022
3. National AIDS Control and STD control programme (NACP) of Govt of India is committed to achieve ending of AIDS as a public health threat by 2030. The progress on 'end of AIDS' is monitored in terms of reductions in prevention of new HIV infections and AIDS-related mortality. Phase-V of the National AIDS and STD Control Programme (NACP) of Govt. of India aims to attain 80% reductions in new HIV infections and AIDS-related death by 2025-26 against the baseline value of 2010. In this context mortality surveillance has been included of the integrated and enhanced surveillance and epidemiology (IESE) of HIV, STIs, and related co-morbidity under NACP launch from January 2023 onwards at ART Centre, STM from May 2023

Training activities & Educational visits at ART Centre:

1. M.Sc. Nursing Part-II students of Govt. College of Nursing, ID & BG Hospital Campus, Kolkata, visited ART Centre, STM, Kolkata for clinical experience from 03.07.2023 to 08.07.2023
2. Junior Resident (Post Graduate Trainee) from Dept. of Preventive & Social Medicine, All India Institute of Hygiene & Public Health, Kolkata conducting a research study on PLHIV visited at ART Centre, STM, Kolkata for research study titled as: A Mix-Method Study on Sense of Grip on Disease (SoGoD) and its Associates among PLHIV Visiting an ART Centre of a Tertiary Care Hospital on 29/09/2023
3. Educational Visit and training of 1st Year M.SC. (8) & IVth Year B.SC. Nursing (30) students conducted by ART Centre, STM, Kolkata on 30/10/202
4. Residents of (Post Graduate Trainees) PGTs of Dermatology at JIMS&H, Budge Budge has been deputed for 12 weeks every Monday 2nd half for education and training purpose at ART Centre, STM, Kolkata for 3 months from 22/12/2023.
5. Sysmax organized Cyflow counter refresher training on December 2023 12th and 13th at ARTC STM Kolkata where Lab technicians from RGKar, STM, Siliguri, Midnapur, Patna, Burdwan, Mujaffarpur (Bihar), Howrah participated.
6. SMO (Dr. Sumana Datta) & Staff Nurse (Mrs. Sanchayita Roy) participated as resource person in Training and sensitization of Nursing Staffs of STM, Kolkata in the Programme "Workshop on AIDs role", dated: 30.11.2023 & 02.12.2023

7. SMO (Dr. Sumana Datta) & Mrs. Jayanti Ghosh Sarkar (Counsellor) participated as resource person (Senior Master Trainers) in titled of the Programme” **Regional level TOT for Master trainers**”, **NACP& SATHII, dated: 05/10/2023 & 06/10/2023** and Down Training of Community Care Co-coordinator on dated: 30.11.2023& 02.12.2023
8. SMO (Dr. Sumana Datta) participated as resource person (Senior Master Trainers) in titled of the Programme **Classroom Training of ART CCC (resource person), NACP& SATHII**, on 12/12/2023c
9. **On 1st December 2023** we celebrated **World AIDS day and Sensitization Programme** on HIV/AIDS and HIV Act’17 Among Health Care providers of School of Tropical Medicine Kolkata. A road side drama was organized by the nursing staff of the hospital to spread awareness about HIV among people.

CENTRE OF EXCELLENCE IN HIV CARE STM KOLKATA

Centres of Excellence (CoE) in HIV care, was established in 2008, to serve as model tertiary care in HIV/AIDS care to provide high quality comprehensive care for persons affected by HIV, impart high quality training and undertake operational and clinical research. They have been developed as repository of information for National AIDS Control Organization (NACO) as well as service delivery sites.

The Centre of Excellence in HIV Care, School of Tropical Medicine (STM), Kolkata has been entrusted with the responsibility of mentoring all the Antiretroviral treatment Centres of West Bengal, Orissa, Jharkhand, Chhattisgarh, Bihar, Assam and Sikkim. CoE STM, Kolkata was functioning from 11st August, 2008.

Programme Director	: Prof (Dr.) Subhasish Kamal Guha
Deputy Programme Director	: Dr. Dolonchampa Modak
Senior Medical Officer	: Dr. Nivedita Dutta
Data Analyst	: Mr. Biswajit Roy
SACEP Co-ordinator	: Ms. Rinita Ghosh
Training & Mentoring Co-ordinator	: Mr. Ismail Hussain
Laboratory Technician	: Mr. Sanjay Bhandari

Activity:

1. Clinical Expert Panel : State AIDS Clinical Expert Panel (SACEP) meeting on every Monday :
 - Patients experiencing treatment failure with first line HIV antiretroviral treatment (ART), second line ART, Thirdline ART and HIV associated illness, ART related side effects/complications from different ART and ART Plus centres from West Bengal, Orissa, Jharkhand, Chhattisgarh, Assam and Sikkim are referred to SACEP.
 - Referrals are discussed and decisions regarding eligibility of antiretrovirals for treatment failures, complicated new initiations, complex opportunistic infections, drug intolerance and systematic illness are taken in presence of HIV/AIDS experts.

SACEP	Year- 2023
Total No of SACEP Meeting	50
Total Referrals for SACEP	481
Total reviewed patients	475
Total PVL (Including RPVL)	319

2. Routine Activity

- Third line and CoE stock patients are followed up through
 - Adherence monitoring
 - Counselling
 - Recommendations of Routine blood mandatory tests
 - Plasma viral load and CD4 testing
 - MIS patients tracking – by telephone calls and home visits
 - Adherence counselling done for all SACEP attending patients
- Cryptococcal antigen screening by using semi-quantitative kits of indoor and STM ART registered PLHIV
- In-depth analysis of reports sent from all ART centres in West Bengal under Centre of Excellence in HIV Care (CoE), STM Kolkata
- Research –both clinical and operational
- Mentoring and monitoring visitto other ART centres: Regular visits by CoE has led to improvement in quality of Care at attached ART Centres

3. Research

On-going Research

- Study of the DTG induced DILI
- Study of DTG tolerance in Hepatitis B & C co-infected patients
- Histoplasma detection by urinary LFA kits

4. PG Diploma in HIV Medicine (PGDHIVM)

One year 'Post Graduate Diploma in HIV Medicine' (PGDHIVM) runs in collaboration with Indira Gandhi National Open University (IGNOU).

- To bridge the gap in trained manpower for ART centre.
- To imbibe comprehensive knowledge on basics of HIV as related to details of management of HIV/AIDS in tertiary care set up
- To manage all complications as well as opportunistic infections due to HIV/AIDS at the time of need.

5. Mentoring & Monitoring (EPAN, e-approvals, Emails)

- Mentoring is done for ART Plus centres, ART centres, LAC, LAC plus, CCC linked to the CoE
- Providing direct one-on-one mentoring of health care workers during patient consultations
- Conducting short training sessions for staff on various HIV topics by RDLS (Regional Distance Learning Seminar, every month)in collaboration with I-TECH India

- Leading case discussion training sessions highlighting management of complex cases
- Identifying and addressing system challenges that affect the provision of quality care
- **EPAN (Expert Physician Access Number) for all ART Centres**
- **Distance Learning Seminar (DLS)**
- **Regional Distance Learning Seminar (RDLS)**
- **All NDLS and RDLS sessions are available on YouTube**

NDLS Details

<i>Session Date</i>	<i>Session Name</i>
11th January 2023	Case Based Approach to HIV-TB (Adults and Adolescents)
27th January 2023	Index Testing at ART Centres
15th February 2023	Case Based Discussion - Rapid ART Initiation in PLHIV (including OI management)
15th March 2023	Transition from ATV/r-based regimen to DTG based ARV regimens & Regular monitoring of PLHIV on ART through VL testing & ensuring timely SACEP Referral
29th March 2023	Clinical Case Presentation (Adults & Adolescents) from SACEP
19th April 2023	Determinants of First Line ART Regimen in Children Living with HIV
26th April 2023	Aging with HIV'
23rd May 2023	Clinical Case Presentations (Children) from SACEP
14th June 2023	Learnings from Differentiated Service Delivery Models
28th June 2023	Counselling Serodiscordant Couples
12th July 2023	HIV TB Co-infection in children: case scenarios
09th August 2023	TB Preventive Treatment
18th August 2023	Introduction of DTG 10 mg (scored & dispersible) for CLHIV weighing less than 20 kg
11th October 2023	Elimination of Vertical Transmission of HIV and Syphilis (EVTHS)
25th October 2023	Mental Health issues among PLHIV
29th November 2023	Step-up Adherence Counselling
12th December 2023	DTG 10 mg: Overview and Case-Based Learning
27th December 2023	Integration of NCD Screening and Management among PLHIV at ART Centres
11th January 2023	Case Based Approach to HIV-TB (Adults and Adolescents)
27th January 2023	Index Testing at ART Centres

Session Date	Session Name
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Details of RDLS Session conducted from Centre of Excellence in HIV Care, Calcutta School of Tropical Medicine, Kolkata

Session Date	Session Name	Presenter Name
6th January, 2023	National Guidelines for HIV Care and Treatment 2021	Dr. Dolanchampa Modak
24th January, 2023	2.7 Treatment Failure in Adults and Adolescents: When and What to Switch	Dr. Nivedita Dutta
24th March, 2023	Introduction to Opportunistic Infections (OI) & HIV & OI (CNS)	Dr. Dolanchampa Modak
19th May, 2023	5.1 Non-Communicable Diseases and Mental Health: Prevention, Screening and Management among PLHIV	Dr. Nivedita Dutta
07th June, 2023	5.2 HIV and Hepatitis Co-infection 5.3 HIV and Leishmaniasis Co-infection	Dr. Madhuchhanda Mandal (Kayal)
27th September, 2023	Differentiated Service Delivery Models (DSDM)	Dr. Nivedita Dutta
19th December, 2023	Step-up Adherence Counseling	Dr. Nivedita Dutta

6. Other activity

Procurement of Single Drugs for PLHA with systemic illness and who are unable to tolerate the fixed drug combinations provided by NACO. (single formulations) (ABC, 3TC, AZT or TDF) (CoE Stock) and Drug transferring to other ART and Other States (RIMS, Ranchi, Jharkhand and Cuttack, Odisha)

**DEPARTMENT OF INFECTIOUS DISEASES AND
ADVANCED MICROBIOLOGY**

Faculties

Professor and Head	Prof. (Dr.) Bibhuti Saha
Assistant Professor	Dr. Soumendra Nath Haldar
Senior Resident	Dr. Agnibho Mondal

Staff

Contractual Staff	Surajit Das Chhaya Mallik
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Post-Doctoral Trainees

PDT Year 2	Dr. Vasireddy Teja Dr. Rucha Karad Dr. Hardik Patel Bharatbhai
PDT Year 1	Dr. Boudhayan Bhattacharjee

Patient Care Services

<i>Service</i>	<i>Schedule</i>	<i>Total Patients Served</i>	
Infectious Diseases and Advanced Microbiology OPD	Every Monday and Friday	New Patients	1716
		Follow-up visits	1402
Adult Immunization and Travel Medicine Clinic	Every Friday	New Patients	871
		Follow-up visits	263
Indoor Patient Care and Critical Care Support		Admission	225
		Discharge	198
		Death	8

Adult Vaccination

Total number of persons vaccinated	849
<i>Vaccine</i>	<i>Number of persons vaccinated</i>
Influenza	287
Pneumococcal (Conjugate)	92
Pneumococcal (Polysaccharide)	223
Hepatitis B	234
Meningococcal Vaccine	13

Diagnostic Procedures

<i>Diagnostic Procedures</i>	<i>Number</i>
ECG	213
Xray	209
CT Scan	152
MRI Scan	63
Blood sampling including hemogram and biochemical tests	263
Lymph node FNAC	34
Lumbar puncture	32
Pleural fluid aspiration	33
Ascitic fluid aspiration	21
Lymph node biopsy	12
Adrenal gland biopsy	2

Academic Activities

<i>Activity</i>	<i>Total number</i>
Infectious Diseases Clinical Meet	43
Faculty Seminar	11
PDT Seminar	33
Journal Club	23
Departmental CME	2

Research Activities

<i>Sl. No.</i>	<i>Title</i>	<i>Principal Investigator</i>	<i>Name of Funding Organization</i>	<i>Duration</i>	<i>Number of Contractual Staff</i>
1	Development of a simple scoring system based on clinical findings and simple laboratory tests for patients presenting with acute febrile illness	Prof Bibhuti Saha	NHM, Govt of India	3 years (2021-2024)	2 (JRF - 1 left in September, MT - 1)

Ongoing Dissertations

<i>Sl. No.</i>	<i>Dissertation</i>	<i>Investigator</i>	<i>Guide</i>	<i>Coguide</i>
1	A Study on Clinical, Laboratory Parameters and Outcome Among Patients Infected with Different Dengue Serotypes in A Tertiary Care Hospital	Dr. Vasireddy Teja	Prof. Bibhuti Saha	Dr. Soumendra Nath Haldar Prof. Bhaswati Bandyopadhyay

2	Comparative Study of Immunogenicity Developed Following Standard and Accelerated Hepatitis B Virus Vaccination Schedules	Dr. Rucha Karad	Prof. Bibhuti Saha	Dr. Soumendra Nath Haldar Prof. Bhashwati Bandopadhyay
3	A study on Clinical, Laboratory Parameters and Outcome among Patients infected with Different Dengue Serotypes in a Tertiary Care Hospital	Dr. Hardik Patel	Prof. Bibhuti Saha	Dr. Soumendra Nath Haldar Prof. Bhashwati Bandopadhyay
4	An Observational Study on Epidemiology, Clinical and Laboratory Profile of Infections Among Geriatric Patients Admitted in Two Tertiary Level Hospitals in Eastern India	Dr. Boudhayan Bhattacharjee	Prof. Bibhuti Saha	Prof. Arunansu Talukdar Prof. Mehebar Rahman Dr. Soumendra Nath Haldar

Publications

1. Soumendra Nath Haldar, Kokila Banerjee, Dolanchampa Modak, Agnibho Mondal [corresponding author], Chayan Sharma, Teja Vasireddy, Rucha Kalyan Karad, Hardik Bharatbhai Patel, Debajyoti Majumdar, Boudhayan Bhattacharjee, Sumeeta Khurana, Tapashi Ghosh, Subhasish Kamal Guha and Bibhuti Saha. Case Report: A Series of Three Meningoencephalitis Cases Caused by Acanthamoeba spp. from Eastern India. American Journal of Tropical Medicine and Hygiene. Ahead of Print. Accepted on: 27 Oct 2023. Published: 9 Jan 2024. DOI: <https://doi.org/10.4269/ajtmh.23-0396>
2. Moumita Paul, Bibhuti Saha, Sumi Mukhopadhyay. Development of a novel lectin-based gold nanoparticle point-of-care immunoassay for rapid diagnosis of patients with severe Dengue infection. J Immunoassay Immunochem. 2023 Nov 2;44(5-6):418-435. DOI: <https://doi.org/10.1080/15321819.2023.2260480>
3. Siddhartha Sengupta, Srijan Manna, Bibhuti Saha, Anusri Tripathi. Impact of apoptotic biomarkers for prognosis of dengue disease severity among eastern Indian patients. J Med Virol. 2023 Oct;95(10): e29180. DOI: <https://doi.org/10.1002/jmv.29180>
4. Sutopa Roy, Srija Moulik, Surya Jyati Chaudhuri, Manab K Ghosh, R P Goswami, Bibhuti Saha, Mitali Chatterjee. Molecular monitoring of treatment efficacy in human visceral leishmaniasis. Trans R Soc Trop Med Hyg. 2024 Jan 15: trad103. DOI: <https://doi.org/10.1093/trstmh/trad103>
5. Agnibho Mondal, Dolanchampa Modak, Subhasish Kamal Guha. Prevalence of Rheumatological Manifestations in HIV Infected Patients in a Tertiary Care Centre in

Eastern India: A Prospective Observational Study. Journal of the Indian Medical Association. Vol 121, No 7, July 2023. https://onlinejima.com/read_journals.php?article=1194 (Accessed 13/01/2024)

6. Dolanchampa Modak, Silpak Biswas, Agnibho Mondal, Malabika Biswas, Maria Teresa Mascellino, Banya Chakraborty, Simmi Tiwari, Ajit Dadaji Shewale, Tushar Nale, Rupali Dey. Seroprevalence of brucellosis among animal handlers in West Bengal, India: an occupational health study. AIMS Microbiology. 2024, Volume 10, Issue 1: 1-11. Accepted: 20 Dec 2023. Published: 02 Jan 2024. DOI: <https://doi.org/10.3934/microbiol.2024001>
7. A Shobhana, Bibhuti Saha, Ashis Datta, Santosh Trivedi, Shreyashi Jha, Soumya Bhowmik, Kokila Banerjee. Something Amiss: Acanthamoeba Meningoencephalitis: Report of Two Cases from Kolkata, India. Ann Indian Acad Neurol. 2023 Sep-Oct;26(5):789-792. DOI: https://doi.org/10.4103/aian.aian_621_23
8. Tanmay Biswas, Arindam Naskar, Prantiki Halder, Sudeshna Mallik, Agnibho Mondal, Bibhuti Saha. Etiologies of Space Occupying Lesions of Liver among Patients Presenting in a Tertiary Care Center in India. Journal of the Indian Medical Association. Vol 122, No 1, January 2024. Accepted on: 21 Jan 2023

Presentations

- | | | |
|---------------------------|--------------------|--|
| Prof. Bibhuti Saha | Professor and Head | <ol style="list-style-type: none">1. APICON 2023 - Faculty Lecture - Approach to patient with multiple abscesses in liver and spleen2. The Second CME on Tropical Paediatrics - 'Emerging and Reemerging Tropical Infections'3. TROPACON 2023 - 'Free Living Amoeba: Clinical and Laboratory Overview'4. ASTICON 2023 - 'Recent Quandaries in the Clinical Presentation of Syphilis'5. Tata Memorial Cancer Hospital - 'Setting up an Adult Immunization Clinic'6. HOPECON 2023 - 'Recent Advancements in Management of Tropical Diseases and Overview'7. Resource Person for session "Clinical Features Prevention and Treatment of Leptospirosis" for National Hands-on Training for Zoonotic Diseases Diagnostics for Sentinel Surveillance Sites at School of Tropical Medicine, Kolkata |
|---------------------------|--------------------|--|

**Dr. Soumendra
Nath Haldar**

Assistant Professor

8. Training on Kala azar and PKDL at Swasthya Bhawan, Kolkata
9. Panelist- Consultation cum Colloquium on 3 EMTCT in Kolkata
10. ISOT 2023 -Paradigm shift in cryptococcal disease management: impact on SOT.

1. Representative in Governing Bodies on 3 EMTCT workshop
2. Panelist in 3rd Tata Onco Intense ID 2023. TMC.Newer BI-BLI vs Polymyxin B based therapy in critically ill patients with sepsis.
3. Contributed in MD Medicine e-Learning course as faculty on Malaria.
4. Faculty in National Conference on National Transplant Infectious Disease at STM. Skin lesions in HSCT recipients.
5. Panelist in AMRICON Medicine Update 2023. Newer antibiotics for GNB Infections
6. Faculty in API Midterm Conference. Mysterious lung lesions in immunocompromised: case-based approach.
7. Training on Kala azar and PKDL at Swasthya Bhawan, Kolkata

Dr. Vasireddy Teja

Post-Doctoral Trainee

1. STMIDI CME - Neglected age-old disease in modern era [Poster]
2. CIDSCON 2023 - Time to move fast beyond acid fastness:Reconsider my presence [Poster]
3. HOPECON 2023 - Beware before you jump in [Poster]
4. PEDIATRICS INFECTION DISEASE 2023 - time to bring brightness into torch [Poster]
5. HOPECON 2023 - Framing to focus lens on iris [Oral Presentation]
6. API WB 2023 - Case series NTM[Oral Presentation]
7. STM Hepatitis Day 2023 - Symposium
8. CIDS WB - TB or not TB [Webinar]
9. CIDS WB - Driving over bumpy roads
10. STM ID CME - The man behind the curtain
11. Fungal Week Webinar - A case of non-resolving pneumonia

Dr. Rucha Karad	Post-Doctoral Trainee	<ol style="list-style-type: none"> 1. CIDSCON 2023 - A Trojan Horse: Case of Coinfection of TB and Acanthamoeba [Case Presentation] 2. CIDSCON 2023 - Deadly Attachments to Heart Valves: Case of Infective Endocarditis [Case Presentation] 3. STMIDI CME 2023: Adult Onset Still's Disease: An Infection Mimicker [case Presentation] 4. HOPECON 2023 -A Case Series of Fungal Infective Endocarditis [Poster Presentation] 5. HOPECON 2023 - Case Series of Occurrence of Tubercular and Acanthamoeba Coinfection in A Tertiary Care Centre [Oral Presentation] 6. National Paediatric Infectious Disease Conference - Eye Lid Tuberculosis Uncommon Presentation of a Common Disease [Case Presentation]
Dr. Hardik Patel Bharatbhai	Post-Doctoral Trainee	<ol style="list-style-type: none"> 1. HOPECON 2023 - Case with Persistent Cough and Fever in A Young Male Common Presentation of Uncommon Disease [Poster Presentation] 2. CIDSCON 2023 -A case of chronic diarrhea in PLHIV with uninvited guest [Poster Presentation] 3. CIDSCON 2023 -: A case of Chronic Hepatitis in a Immunocompromised person [Oral Presentation]

Other Activities

Prof. Bibhuti Saha	Professor and Head	<ol style="list-style-type: none"> 1. Guest Lecture on Clinical Diagnosis of Scrub typhus, West Nile virus and Hanta Virus for National Workshop for Sentinel Surveillance Sites for Zoonosis at New Delhi 2. CIDSCON 2023, Chennai - 'How to Set Up an ID Practice' 3. Inspection for Initiation of DrNB (infectious Disease) Course at PD Hinduja Hospital Mumbai 4. Resource Person - State Dengue Guideline
Dr. Soumendra Nath Halder	Assistant Professor	<ol style="list-style-type: none"> 1. Organizing secretary for STMIDI Annual CME 2023 2. Organizing secretary for SOT component of 7th TID Conference at Kolkata

3. Faculty in Infection prevention and control workshop at Swasthya Bhawan
4. Resource Person - State Dengue Guideline
5. Member of Dengue Monitoring Team of Government of West Bengal

Awards and Honors

Dr. Vasireddy Teja	Post-Doctoral Trainee	<ol style="list-style-type: none"> 1. HOPECON 2023 - 1st prize in oral presentation 2. Hepatitis symposium STM - 2nd prize 3. CIDSCON quiz - 3rd prize 4. Poster presentation in STMIDICME 3rd prize 5. Paediatric conference-3rd prize in poster presentation
Dr. Rucha Karad	Post-Doctoral Trainee	<ol style="list-style-type: none"> 1. National Paediatric Infectious Disease Conference - 2nd prize in case presentation 2. CIDSCON 2023 Quiz - 3rd prize in Quiz

Academic Courses and Training

<i>Course</i> DM (Infectious Diseases)	<i>Number of Trainees</i> 3 seats in each batch At present 4 PDT in 2 batches
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Report

- The department of Infectious Diseases and Advanced Microbiology (IDAM) is located at the fourth floor of the New Academic Building which also includes a seminar hall and a vaccination centre.
- The primary source of the patients in the outpatient and inpatient department of the department were referrals from other departments/institutes.
- The faculties and residents of the Department of Infectious Diseases and Advanced Microbiology also attended indoor patient referrals from other departments such as Tropical Medicine and Dermatology as well as from other institutes including Medical College, Kolkata.
- The Infectious Diseases Outpatient Department functioned every Monday and Friday.
- The Adult Immunization and Travel Medicine Clinic continued to function every Friday.

- ❑ Patients who needed adult immunization were vaccinated in the department.
 - ❑ Following vaccines were given to the patients: hepatitis B vaccine, pneumococcal conjugate vaccine (PCV-13), pneumococcal polysaccharide vaccine (PPSV-23), tetravalent influenza vaccine and meningococcal vaccine.
 - ❑ A vaccination outreach program was organized in coordination with the National Viral Hepatitis Control Program and Durbar Mahila Samanwaya Committee on 30/04/2023 to provide hepatitis B vaccination to female sex workers.
- ID Clinical Meet is organised every Wednesday in which complicated infectious disease cases are presented by the residents of Infectious Diseases, Tropical Medicine, Microbiology, Clinical Pharmacology and other departments. Faculties and residents from all the departments of the institute attend the ID Clinical Meet regularly. Often faculties and residents from other institutes attend the sessions. The cases are discussed in detail and the decisions taken in the meeting are implemented in patient care.
 - Classes by the faculties of other departments are also organized which is attended by the residents of other departments in addition to the DM (ID) residents.
 - The DM (ID) residents are sent to other departments for their rotational posting. In 2023. They were sent in rotation to the following departments:
 - ❑ Tata Medical Center, Kolkata, for bone marrow transplant
 - ❑ Transplant Infectious Diseases, Global Hospital, Chennai
 - ❑ Department of Paediatrics including Paediatric Intensive Care Unit, Medical College, Kolkata
 - ❑ Infectious Diseases and Beliaghata General Hospital

**Research Projects under Prof. (Dr.) S K Guha, Director,
School of Tropical Medicine, Kolkata**

Sl No.	Title of the project	Principal Investigator & Co-PI/Co-Investigator
1.	Prevention of Resurgence of Leishmaniasis during Post Elimination Period in Erstwhile Endemic Pockets of West Bengal	Prof. (Dr.) S K Guha (PI) Dr. Ardhendu Kumar Maji (Co-PI)
2.	Changes in inflammatory biomarker levels in HIV-infected children and adolescents following anti-retroviral therapy (ART)- A longitudinal observational study from West Bengal	Prof. (Dr.) S K Guha (PI) Dr. Anindita Debnath (Co-PI) Dr. Madhuchhanda Mondal (Co-PI)

LIBRARY

Calcutta School of Tropical Medicine is a pioneer institute in the field of post graduate research as well as studies on Tropical Diseases. The library was founded in the year 1921 with the collection bought from Asiatic Society.

Staff pattern of library

Librarian	:	Smt Anasua Sen
C.T &S.W	:	Sri Bijoy Hela
Scavenger	:	Smt Sraboni Hajra
	:	Sri Kamalesh Mistry

At present total collection is over 65,500 including books journals, gazetteers, reports etc.

Purchase of Books 2022-2023

Sl. No.	Name of books	Author	Publisher
1	Harrison's Internal Medicine International Edition. 21 st ed, 2 vol set. (Two sets). 2022	J Loscalzo, [ed]... [et al]	Mc Graw Hill
2	Bailey & Scott's Diagnostic Microbiology. 15 th ed. 2022 (two copies)+ (one copy)	Patricia Tille	Elsevier
3	Koneman's Color Atlas and Textbook of Diagnostic Microbiology, 7 th ed. 2017.	Garry W Procop.... [et al]	Jones & Bart lett
4	Handbook Of Experimental Pharmacology. 4 th ed. 9 th reprint 2023	Kulkarni S. K.	Vallabh Prakashan
5	Adams and Victor's Principles of Neurology. 12 th ed. 2023 (two Copies).	Alan H Ropper..... [et al]	McGraw Hill
6	Bedside Clinics In Medicine – Part I. 8 th ed. 2022 (Reprint). (Two copies).	Arup Kumar Kundu	KSP Udyog
7	Manual of Practical Medicine. 7 th ed. 2023 (Two copies).	R Alagappan	Jaypee Brothers

Sl. No.	Name of books	Author	Publisher
8	Practical Guidelines on Fluid Therapy. 2 nd ed. 2023 (Reprint). (Two copies)	S.N.Pandya	Dr. Sanjay Pandya
9	Sexually transmitted diseases and HIV/AIDS 2 nd ed. 2023 (reprint)	Vk sharma	Viva books
10	Mackie & McCartney Practical Medical Microbiology. 14 th ed. 2023 (reprint) (Two copies)	J Gerald Collec, [ed]	Elsevier
11	Essentials of Hospital Infection Control. 1 st ed. 2023 (reprint)	Apurba S. Sastry.	Jaypee Brothers
12	Cellular and Molecular Immunology. 10 th ed. 2022.(two copies)	Abul K. Abbas, Andrew H. Lichtman, Shiv Pillai.	Elsevier
13	Medical Parasitology. 5 th ed.2020 (reprint)	D. R. Arora/ Brij Bala Arora.	CBS
14	Textbook of Parasitic Zoonoses. 2022 (two copies)	Subbash Chandra Parija and Abhijit Chaudhury	Springer
15	Antifungal Therapy. 2 nd ed. 2020 (two copies)	Ghannoum, Perfect	CRC Press
16	Immunology & Serology in Laboratory Medicine. 7 th ed. 2022 (two copies)	Mary Louise Turgeon	Elsevier
17	Infections in Hematology. 2015. (two copies)	Georg Maschmeyer [ed]	Springer
18	Infectious Diseases in Critical Care: case based approach, 2022 (two copies)	Subal Dixit, Kapil Zirpe, Atul P. Kulkarni	CBS Publisher

Sl. No.	Name of books	Author	Publisher
19	Remington and Klein Infectious Diseases of the Fetus and Newborn infant. 8 th ed. 2016 (two copies)	Jack S. Remington, Jerome O. Klein, Christopher B. Wilson, Victor Nizet, Yvonne Maldonado	Elsevier
20	Netter's Infectious Diseases. 2 nd ed. 2022 (two copies)	Elaine C. John, Dennis L. Stevens	Elsevier
21	Review of Microbiology & Immunology. 9 th ed. 2023. (reprint) (two copies)	Apurba Sankar Sastry	Jaypee Brothers
22	Textbook of Microbiology. 6 th ed. 2020. (two copies)	Arora, Arora	CBS Publishers
23	Textbook of Respiratory and Critical Care Infections. 2015. (two copies)	Blasi, Dimopoulos	Jaypee Brothers Medical
24	South Asdian Edition of Washington Manual: Infectious Disease Subspecialty Consult. 3 rd ed. 2020. (two copies)	Kirmani	Wolters Kluwer
25	Pharmacotherapy Handbook. 11 th ed. 2021	Terry L. Schwinghamme	McGraw Hill
26	The Top 100 Drugs: Clinical Pharmacology And Practical Prescribing. 3rd ed. 2023	Andrew Hitchings	Elsevier
27	Stahl's Essential Psychopharmacology: Neuroscientific Basis and Practical Applications. 5th ed. 2022.	Stephen M. Stahl	Cambridge University Press
28	Remington: The Science and Practice of Pharmacy.	ADEJARE A.	Elsevier

Sl. No.	Name of books	Author	Publisher
29	Statistics at Square Two: Understanding Modern Statistical Applications in Medicine.3rd ed. 2023	Michael J. Campbel	Wiley Blackwell
30	An Insider's Guide to Clinical Medicine : as per the competency based medical educational curriculum(NMC). 2nd ed. 2023 (reprint) (two copies)	Anudeep Padakanti, Archith Bolor	Jaypee Brothers
31	Antibiotic Basics for Clinicians: the ABCs of Choosing the Right Antibacterial Agent. SAE. 2020 (two copies).	Hauser A.R.	LWW Exclusive NP
32	API Textbook of Medicine. 12th ed.2022.2v set. (two sets)	Sandhya A Kamath, Late Siddharth N Shah, Yash Pal Munjal, Milind Y Nadkar	Jaypee Brothers
33	Clinical Cases in Tropical Medicine. 2nd ed. 2022 (two copies).	Camilla Rothe	Elsevier
34	Clinical Methods in Medicine : Clinical Skills and Practices. 2nd ed.2023 (reprint) (two copies)	SN Chugh	Jaypee Brothers
35	Differential Diagnosis and Medical Therapeutics: a treatise on clinical Medicine, 4th ed. 2020. (two copies)	P Siva Rama Krishna Rao	Jaypee Brothers
36	Handbook of Liver Disease. 4th ed. 2018(two copies)	Lawrence S. Friedman, Paul Martin	Elsevier
37	IAP Textbook of Pediatrics. 7th ed. 2019(two copies).	Parthasarathy. A, PSN Menon, MKC Nair	Jaypee Brothers
38	Infectious Diseases in Critical Care: case based approach, 2022 (two copies)	Dixit S	CBS Publisher

Sl. No.	Name of books	Author	Publisher
39	Lippincotts Illustrated Reviews: Pharmacology. 2nd SAE. 2023 (two copies)	Sangeeta Sharma, Dinesh K Badyal [ed]	Wolters Kluwer
40	Manual of Rheumatology. 5th ed.2022 (reprint) (two copies)	Chaturvedi V.[ed]	CBS Publishers
41	Marriott's Practical Electro-cardiography.SAE.2022. (two copies).	Strauss Raja Selvaraj	Wolters Kluwer
42	Opie's Cardiovascular Drugs: a companion to Braunwald's heart disase.9trh ed. 2021. (two copies)	Deepak L. Bhatt	Elsevier
43	Physical Signs, Symptoms, Diagnosis and Differential Diagnosis in Clinical Medicine. 2017 (two copies).	S. N. Chugh	CBS Publishers
44	Sherlock's Diseases of the Liver and Biliary System. 13th ed. (two copies).	James S. Dooley, Anna S. Lok, Guadalupe Garcia-Tsao, Massimo Pinzani	Wiley-Blackwell
45	Clinical Examination: a systematic guide to physical diagnosis. 8th ed (SAE). vol- I. 2018. (two copies).	Nicholas J. Talley, Simon O'Connor	Elsevier
46	South Asia Edition of the Washington Manual Endocrinology. 4th ed(SAE) 2020 (two copies).	McGill	Wolters Kluwer
47	The Washington Manual of Critical Care. SAE. 2022 (two copies).	Dalim Kumar Baidya, Marin H Kollef [ed]	Wolters Kluwer
48	South Asia Edition of the Washington Manual: General Internal Medicine Consult. 03rd ed. 2017. (two copies).	Ciesielski	Wolters Kluwer

Sl. No.	Name of books	Author	Publisher
49	Yamada's Handbook of Gastroenterology.4th ed. 2020. (two copies).	John M. Inadomi, Renuka Bhattacharya, Joo Ha Hwang, Cynthia Ko	Wiley-Blackwell
50	258 Clinical Cases In Medicine: for MD, DNB,and MRCP Examinations.2018. (reprint) (two copies)	SN CHUGH	CBS Publishers
51	Bone marrow pathology. 5TH ED. 2019.	Barbara J Bain, David M Clark	Wiley-Blackwell
52	The practice of surgical pathology: a beginner's guide to the diagnostic process. 2nd ed. 2018	Diana Weedman Molavi	Springer
53	Jopling's handbook of leprosy. 7th ed. 2023	Kabir Sardana, Ananta Khurana	CBS Publishers
54	Lever's dermatology: histopathology of skin .12th	David E Elder MB ChB FRCPA	Wolters Kluwer
55	Acs(i) texbook of cutaneous & aesthetic surgery. 2nd ed.2 vol. set.2017	Mysore Venkataram	Jaypee brothers

Besides current textbooks and journals the library has a treasure of collection of books written by stalwarts like Sir Leonard Rogers, Ronald Ross, Dr L E Napier, Lt-Col H W Acton, Dr E Muir, Dr U N Brahmachari, Dr S N Dey, Dr J B Chatterjea and others. Faculties, students and visitors can go through these for gathering pertinent information.

ADMINISTRATIVE REPORTS

Statement regarding patients admitted to Carmichael Hospital for Tropical Diseases, School of Tropical Medicine (disease wise during the year 2023)

Total No of cases admitted - 3554 Total no. of Death - 346

Daycare Service for blood Transfusion under Hematology Department —

Total No of admission - 432 (Up to June 27/06/2023)

Critical Care Unit (C.C.U.)

Total No. of Admission - 598 Direct - 129
Transfer from ward - 469 Death - 253

Tropical Medicine

Total No of admission - 2970 Total No of Death - 316
(Immunocompromised Death - 107)

SwasthyaSathi (2023)

Admission - 221 Discharge - 199

(Infectious Disease & Advance Microbiology) :

Total No. of Admission - 225
Total No. of Discharge - 198, Death - 08 (Male - 07, Female - 01)

Dermatology

Total No of admission - 108 (Male - 43, Female - 64 & Child - 01)
Total No of Death - 07 (Male - 04, Female - 03)

Endocrine Nutrition & Metabolic Diseases

Total No of admission - 38 (Male - 15, Female - 23)
Total No of Death - 01 (Male - 1, Female - 0)

Hematology:

Total No of admission - 209
Total No of Death - 4 (Male - 4, F - 0)

● Cirrhosis of liver	90
● COPD	142
● Dengue	163
● Immunocompromised	513
● Kala-azar	00

80

● PKDL	05
● Malaria	94 (P.vivax. - 51 & P. falci.- 43)
● LRTI	100
● Chikungunya	01
● Viral Hepatitis	67
● HTN	269
● SLE	25
● Tuberculosis	260
● Covid	04
● Hodgkin's lymphoma	03
● C.M.L	05
● N.H.L	07
● C.L.L	05
● A.L.L	00
● A.M.L	00
● A.L	01
● Multiple Myeloma	07
● Other Carcinoma	09
● Others	1382

Statement regarding patient admission to C.H.T.D. (STM) year wise breakup

<i>SL No.</i>	<i>Year</i>	<i>No of Patients</i>
1	2001	1236
2	2002	1208
3	2003	1276
4	2004	1466
5	2005	1568
6	2006	1748
7	2007	1719
8	2008	2098
9	2009	2164
10	2010	2165
11	2011	2360
12	2012	2552
13	2013	2546
14	2014	2558
15	2015	2613
16	2016	3529
17	2017	2890
18	2018	3082
19	2019	2985
20	2020	1351
21	2021	2245
22	2022	2633
23	2023	3554

No. of sanctioned Bed : 162

Though hospital has 162 sanctioned beds, different wards were closed for renovation work at different times leading to reduction in number of available beds.

The month-wise occupancy of the afore-mentioned Hospital as per official record is as follows:

<i>Sl.No</i>	<i>Month (2023)</i>	<i>No of beds available</i>	<i>Patients Day for the month (Bed occupancy)</i>
1.	January	162	51% (2516)
2.	February	162	49% (2203)
3.	March	162	60% (2971)
4.	April	162	51% (2435)
5.	May	162	59% (2954)
6.	June	162	68% (3276)
7.	July	162	57% (2837)
8.	August	162	58% (2906)
9.	September	162	71% (3424)
10.	October	162	56% (2775)
11.	November	162	59% (2862)
12.	December	162	52% (2609)

**Information Regarding Performance of
School of Tropical Medicine**

For the period of 2023 (January to December)

<i>Total No of Bed (Sanctioned)</i>	<i>Total number of Admission</i>	<i>Total number of discharge</i>	<i>Total number of Death</i>
162	3554	3172	346

Total Patient days – 33,794

NAME OF NURSING PERSONNEL

Sl No	Name of the staff	Designation
1.	Sulekha Besra	Nursing Superintendent
2.	Atasi Barman	Dy. Nursing Superintendent
3.	Kaberi Khanra	Sister In charge
4.	Papri Brahma	Sister In charge
5.	Sujata Mondal	Sister In charge
6.	Samita Murmu	Sister In charge
7.	Krishna Majumder	Sister In charge
8.	Sikha Guha	Sister In charge
9.	Srabanti Halder	Sister In charge

Staff Nurse

Sl No	Name of the Staf	Sl No	Name of the Staf
1.	Banhisikha Das	2.	Monami Sarkar
3.	Sharmistha Samanta	4.	Munmun Biswas
5.	Lalita Basak	6.	Rupama Dutta Banik
7.	Madhumita Munshi	8.	Jaya Maitra
9.	Nabanita Goswami Chakraborty	10.	Chang Kai Hei Alias Erika
11.	Nandita Jodder	12.	Shilpa Mondal
13.	Soumi Gayen	14.	Madhurima Mukherjee
15.	Pallabi Ghosh	16.	Punam Adhikary
17.	Deepa Bishy	18.	Suparna Maity
19.	Debika Das	20.	Sayani Sahu
21.	Puja Ghosh	22.	Rinki Mukherjee
23.	Reshma Parveen	24.	Anima Jana
25.	Saheli Halder	26.	Kasturi Guha
27.	Sayari Paine	28.	Shreya Pradhan
29.	Reshmi Mondal	30.	Jayeeta Mondal
31.	Jhuma Sarkar	32.	Mumpa Bisai
33.	Poulami Das	34.	Paromita Pal
35.	Ranjita	36.	Riya Banerjee
37.	Subhosree Paul	38.	Dipanwita Dholey
39.	Sangita Bhattacharya	40.	Monika Mondal
41.	Mousumi Samanta	42.	Tanwi Das Malakar

Sl No	Name of the Staf	Sl No	Name of the Staf
43.	Ratnabali Talukdar	44.	Suparna Roy
45.	Chayanika Soumi	46.	Reshmi Ganguli
47.	Bristi Dhara	48.	Rama Mondal
49.	Sunita De	50.	SK. Melody
51.	Anjali Chakraborty	52.	Debarati Sahu
53.	Rimi Ghosh		

STUDY LEAVE

Sl No	Name of the Staff	Course
1.	Sister Joyshree Goswami	MSc. Nursing
2.	Puja Pramanik	MSc. Nursing
3.	Anindita Pal	MSc. Nursing
4.	Lizia Tasrin	MSc. Nursing
5.	Poulami Dhar	Post. Basic. BSc. Nursing
6.	Sushmita Brahma	Post. Basic. BSc. Nursing
7.	Aleya Khatun	Post. Basic. BSc. Nursing
8.	Rekha Debnath	Post. Basic. BSc. Nursing
9.	Rajasree Nayak	Post. Basic. BSc. Nursing
10.	Mahuya Dandapat	Detailed as C.H.O

OTHER HUMAN RESOURCE

MEDICAL TECHNOLOGISTS OF CHTD

Sl. No	Name	Discipline	Department
1	Prathana Mukherjee	MT(Physio)	Physiotherapy
2	Pritimay Acharya	MT(ECG)	Echochardiography
3	Pralay Pal	MT(Radio)	Radiology
4	Abdul Sabbir Layek	MT(Radio)	Radiology
5	Nilanjan Chatterjee	MT(Radio)	Radiology
6	Pratick Das	MT(CCU)	CCU
7	Pritam Das	MT(CCU)	CCU
8	Sayan Singha Roy	MT(CCU)	CCU
9	Gargee Paul	MT(CCU)	CCU
10	Bappa Halder	MT(LAB)	CCU

Sl. No	Name	Designation
1	Bela Rani Das	Linen Keeper

Sl. No	Name	Designation
1	Prasanta Kundu	Facility Manager

Sl. No	Name	Designation	Department
1	Rekha Modak	GDA	ECG
2	Madhuri Ganguly	GDA	Radiology

List of Group D employees of CHTD Building

1.	Lalchand Hela	Sweeper
2.	Ramlal Ram	GDA
3.	Lal Bahadur Das	GDA
4.	Gita Hela	Sweeper
5.	Paro Mallick	Sweeper
6.	Rajani Hazra	Sweeper
7.	Rina Dhar	GDA
8.	Parboti Hela	Sweeper

Other Human Resources under Deputy Superintendent (NM)

(House Keeping Staff)

Sl. No	Name	Sl. No	Name
1.	Dipak Mallick	2.	Rathin Hazra
3.	Sandip Thakur	4.	Md. Kamrujama
5.	Nirmal Das	6.	Faizullah
7.	Santosh Ch.dey	8.	Awadh Kr. Ram
9.	Amit Kr. Lal	10.	Binod Mullick
11.	Anil Mallick	12.	Surajit Sharma
13.	Md.wasim Ahmed	14.	Rabi Dhusia
15.	Abhishek Mallick	16.	Sanjay Mallick.1
17.	Sona Ch. Dey	18.	Roma Hela
19.	Lakhi Devi Sonkar	20.	Dipali Dey
21.	Joya Dey	22.	Suman Routh
23.	Rina Balmiki	24.	Tanu Hela
25.	Ajay Das	26.	Kanan Das
27.	Sarada Chakraborty	28.	Chhaya Mallick
29.	Sabitry Mallick	30.	Purnima Mallick
31.	Fulmoni Mallick	32.	Sila Devi
33.	Arati Mallick	34.	Gita Mallick
35.	Ruksana	36.	Baby Halder
37.	Rekha Mallick	38.	Lacchumina Devi
39.	Namita Talukder	40.	Sanjay Mallick (ccu)
41.	Sanjay Balmiki	42.	Anil Kr.mallick
43.	Amit Kr. Das	44.	Amar Kr. Das
45.	Sanjay Majumder	46.	T. Rabi Rao
47.	Santosh Kr.hela	48.	Kousik Maity
49.	Md. Sahab	50.	Asha Mallick
51.	Biki Sarwan Balmiki	52.	Sangita Balmiki
53.	Sankari Das	54.	Sanjana Turi
55.	Swapn Kr. Hela		

Registrar Room

1. Bilas Ghosh
2. Priya Kundu

X-ray Department

1. Sandip Mukherjee

CBB Unit

1. Madhusudan Dey
2. Ananda Mohan Ghosh
3. Titha Kar
4. Sarathi Sardar
5. Jaya Nag

Lab Medicine

1. Sunil Kumar Ram
2. Dipa Hatua
3. Sk. Rajib

Store

1. Sudip Chakraborty

Pharmacy

1. Pankaj Kumar Ram

Outdoor

1. Santosh Balmiki
2. Gulam Mujtaba

Virology

1. Md. Saddam

Director Room

1. Kaushik Mukherjee
2. Bapi Mondal

MSVP Room

1. Sukla Das

Microbiology

1. Bibhas Sardar

Faculty

1. Arun Sarkar

Account Section

1. Alope Bayen
2. Jagadish Das

Liabery

1. Kamalesh Mistry
2. Sraboni Hajra

Supervisor

1. Sagar Das
2. Avijit Das

TOTAL STUDENT LIST

PG STUDENT LIST 2023-2026

MD (Tropical Medicine)

- | | |
|---------------------|---------------------|
| 1. FARUQ HASAN KHAN | 2. SOUMI ADAK |
| 3. SUPRIYO BISWAS | 4. RISHAV GUPTA |
| 5. MUSKAN | 6. DEBSANKAR HANSDA |
| 7. MD HIRU SEIKH | |

MD (Tropical Medicine)

2022-2025

- | | |
|-----------------------|---------------------------|
| 1. SUDESHNA SARKAR | 2. DIPIKA KOLI |
| 3. ARIJIT DAS | 4. SADDAM HUSSAIN |
| 5. MD. SAFIUR RAHAMAN | 6. RANIT CHOWDHURY |
| 7. ARIJIT MAHANTI | 8. CHANDRAMOULI CHAUDHURI |

MD (Tropical Medicine)

2021-2024

- | | |
|--------------------|--------------------------|
| 1. HIMAGHNA MANNA | 2. SOURAV MISRA |
| 3. MOTIUR RAHAMAN | 4. ANKITA MISRA |
| 5. SWARNADEEP MANI | 6. MOHAMMAD IMAM GAZZALI |
| 7. PRONIT ROY | 8. SK SAMSUL ALAM |

MD (Microbiology)

2023-2026

- | | |
|--------------------|------------------|
| 1. MONALISA MONDAL | 2. SONAL VERMA |
| 3. SUMIT KUMAR | 4. SHAUNLI KONAR |

2022-2025

- | | |
|-------------------|-----------------------|
| 1. ASMITA DAS | 2. ANKITA SARKAR |
| 3. SANGITA BISWAS | 4. SUDIP KUMAR GHOURI |
| 5. ASIK RAHAMAN | |

MD (Microbiology)

2021-2024

- | | |
|----------------------|------------------------|
| 1. MADHUMANTI MANDAL | 2. KARTICK KUMAR PATRA |
| 3. ANKITA ROY | 4. MALABIKA DEBBARMA |

MD (Dermatology)

2023-2026

- | | |
|-------------------|-------------------|
| 1. SHILPA MONDAL | 2. AHANA SENGUPTA |
| 3. RUBINA SULTANA | |

2022-2025

- | | |
|--------------------|----------------|
| 1. TAMANNA DOKANIA | 2. TITLI GHOSH |
| 3. DIPMALYA MONDAL | |

2021-2024

- | | |
|----------------------|--------------|
| 1. RUPAM NATH | 2. SUMAN SEN |
| 3. ASIM KUMAR HALDER | |

MD (Pharmacology)

2023-2026

- | | |
|---------------|----------------------|
| 1. SOUVIK ROY | 2. ARCHANA CHOWDHURY |
|---------------|----------------------|

2022-2025

- | | |
|----------------|--|
| 1. AFRIN JAHAN | |
|----------------|--|

2021-2024

- | | |
|---------------------|--------------------|
| 1. TANUSHREE MONDAL | 2. BABHRABI BHAKTA |
|---------------------|--------------------|

DM INFECTIOUSE DISEASE

2023-2026

- | | |
|----------------------|------------------------|
| 1. NAVIN KUMAR YADAV | 2. HIMADRI SEKHAR BERA |
| 3. SAGNIK SUR | |

2022-2025

- | | |
|---------------------------|--|
| 1. BOUDHYAN BHATTACHARJEE | |
|---------------------------|--|

2021-2024

- | | |
|-------------------|----------------------------|
| 1. VASIREDDY TEJA | 2. PATEL HARDIK BHARATBHAI |
| 3. RUCHA KARAD | |

DM - CLINICAL PHARMACOLOGY

2023-2026

- | | |
|---------------|--------------------|
| 1. ARIJIT DAS | 2. RANJIT DEBBARMA |
|---------------|--------------------|

2021-2024

- | | |
|------------------|---------------------|
| 1. TANMOY BISWAS | 2. ANINDYA KARMAKAR |
|------------------|---------------------|

2020-2023

- | | |
|---------------|-----------------|
| 1. DIPAN SAHA | 2. ARIJIT KAYAL |
|---------------|-----------------|

Medical Biotechnology**M.Sc 1ST YEAR 2023-2025**

- | | |
|---------------------|--------------------|
| 1. RUPAM DEV | 2. SANKHANIL DHARA |
| 3. BARNAN CHOUDHURY | 4. ISHA JASH |
| 5. SARITA BALMIKI | |

M.Sc 2ND YEAR 2022-2024

- | | |
|-------------------------|-----------------|
| 1. ADITYA CHATTERJEE | 2. PRITAM SAHA |
| 3. ALISHA KHAN | 4. ARYA BAIDYA |
| 5. ANOUSHKA CHAKARBORTY | 6. ANJALI SINGH |

M.Phil part-2

- | | |
|------------------------|----------------------|
| 1. ANWESH GHOSH | 2. JAYA DAS SAMANTA |
| 3. AROOP CHAUDHURI | 4. RUPAM SARKAR |
| 5. SANDEEPAN MUKHERJEE | 6. PARTHA PRATIM DAS |

BMLT STUDENT LIST**1ST YEAR SESSION 2023-2026 BMLT**

- | | |
|-----------------------------|-------------------------|
| 1 PRITAM PATRA | 2 DEEBENDU CHAKRABORTY |
| 3 MD SAHIL SK | 4 RAJIB BISWAS |
| 5 ABU SHATIUL BASAR | 6 SANDIPAN BAR |
| 7 DIPENDRANATH BHATTACHARYA | 8 NILAY KUMAR PAL |
| 9 DIYA CHAKRABORTY | 10 PRATHAM LOHAR |
| 11 ANTARIP ADHIKARY | 12 SHUBHADIP SATPATHY |
| 13 MIRAJ HOSSAIN MOLLA | 14 JEET MAJI |
| 15 NASIRUDDIN SK | 16 SHUBHAM HAZRA |
| 17 DEVDUTTA BANERJEE | 18 PRADIPTA PRAMANIK |
| 19 ANUBHAB KUNDU | 20 AKSHYAY KUMAR BHAKTA |
| 21 ARGHYA MONDAL | 22 AROTI HEMBROM |
| 23 MD AMIR HAMJA | 24 KRITIDEV SARKAR |
| 25 ARNAB PATRA | 26 SOUMYANIL MULLICK |
| 27 SAMIM SK | 28 SOUMYADEEP SARKAR |
| 29 ARNAB NAYAK | 30 SATYAKI CHHATUI |
| 31 RAYHAN HASSAN | 32 MOULI BOSE |

- 33 PIJUS KANTI GHOSH
35 MD. MAHTANUR MIDDYA
37 SHANKHADEEP GAYEN

- 34 SUBHRANIL SAHA
36 PRIYA BISWAKARMAKAR

2ND YEAR BMLT

- | | |
|-------------------------|----------------------------|
| 1. DEBARYA GHOSH | 2. DEBABRATA DAS |
| 3. SHESHADRI SHEKAR DAS | 4. SUJOY HALDER |
| 5. RITH MONDAL | 6. SUBHAJYOTI KUMAR |
| 7. ARCHITA PAL | 8. ABHISHEK BISWAS |
| 9. KRISHNU DUTTA | 10. RAJOSHREE DUTTA |
| 11. ANIRBAN PATRA | 12. ANKAN KRMAKAR |
| 13. SARAYON PURKAYSTHA | 14. BISHNUDEV DEY |
| 15. PATHA AKHULI | 16. ARGHYA AKHULI |
| 17. SAYAK SAHA | 18. SAIKAT SETH |
| 19. SUNIT SAMANTA | 20. SK IRFAN |
| 21. NAYAN MONDAL | 22. AVEN SAREN |
| 23. SOUVIK NASKAR | 24. SHILPA MONDAL |
| 25. ARNAB HALDER | 26. RAJIBUL ISLAM |
| 27. APURBA KUMAR MAJHI | 28. MOHAMMAD AKTARUJ JAMAN |
| 29. ANUP KUMAR SAHA | 30. SUPRIYA HALDER |
| 31. PRITAM DOLUI | |

3RD YEAR BMLT

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|-------------------------|--------------------------|
| 1. PAULAMI JANA | 2. ARNAB GHOSH |
| 3. SOMANATH GHOSH | 4. SWAPAN SINGHA |
| 5. SK MOHAMMAD UNUS | 6. BIKASH MIKAP |
| 7. ARPAN JANA | 8. SOURAV SARKAR |
| 9. RUHUL AMIN | 10. SOUVIK MONDAL |
| 11. NAIMUDDIN ALI | 12. SAMRAT PAL |
| 13. MANORANJAN KARMAKAR | 14. CHOTTON MONDAL |
| 15. ANIMUL ISLAM | 16. MD SAKIL ALAM |
| 17. BAISAKHI MISRA | 18. PIYA MONDAL |
| 19. SHAMIM REJA | 20. ABU RAIHAN |
| 21. SOUMOJIT DUTTA | 22. SOURAV KUMAR ROUT |
| 23. SUMAN DEY | 24. SREYASEE JANA |
| 25. SOURAV SAHOO | 26. PRAKASH KUMAR MONDAL |
| 27. SOURISH GHOSH | 28. MD MASIUR RAHAMAN |

INTERN STUDENT LIST (BMLT)

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|--------------------------|----------------------|
| 1. SANJIT SARKR | 2. SUBHAJIT KARMAKAR |
| 3. SREETAMA DAS | 4. SOURAV MISTRY |
| 5. SUBHADIP DOLAI | 6. SACHIN PATRA |
| 7. SUBHASHIS BARUA | 8. SUBHAM SHIL |
| 9. MD. ASLAM | 10. RAHUL MAUR |
| 11. SAKIL AHMED | 12. SHO VAN KONAR |
| 13. CHINMOY KUMAR BARMAN | 14. SAHADAT GHARAMI |
| 15. PREMANANDA DAS | 16. BIJOY DAS |
| 17. TANUSHREE CHATERJEE | 18. SUMAN KISKU |
| 19. ARINDAM SAHA | 20. RANAJIT SARKAR |
| 21. SUVOMOY DAS | 22. SAMIM AKTAR |
| 23. SAHELI HAZRA | 24. ARNAB MONDAL |
| 25. PINTU SK | 26. HASANUL BANNA |
| 27. MD. SAKIB | 28. MD SAHIDUL HAQUE |

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**School of Tropical Medicine
Kolkata**