Lady Hardinge Medical College Department of Microbiology

Annual Report (Jan –Dec 2021)

Faculty Members:

Director Professor & Head:

Dr Ravinder Kaur

Director Professors:

- 1. Dr V.S. Randhawa
- 2. Dr Manoj B. Jais

Professors

1. Dr Yogita Rai

Associate Professors:

- 1. Dr Deepti Rawat
- 2. Dr Manoj Kumar (on study leave with effect from 26.6.2020 to 25.6.22)
- 3. Dr Shweta Satija
- 4. Dr Sanjib Gogoi

Research Projects with funding:

Name of the Investigator	Project in Charge	Title of the Project	Name of the funding agency	Budget in Rs.
Dr Ravinder Kaur Director Professor & Head PI Dr Deepti Rawat Associate professor Co PI	Dr Ravinder Kaur	Establishment of Advanced mycology Diagnostic and Research Center	ICMR	Rs 1,96,67,92 0/-
Dr Ravinder Kaur Director Professor & Head Dr Shweta Satija, Assoc. Prof.	Dr Ravinder Kaur, Nodal Officer	National program for containment of antimicrobial resistance	NCDC, Delhi	Rs 8,40,000/-
Dr Ravinder Kaur Director Professor & Head(Co-PI)	Dr Sushma Nangia Director Professor & HOD Dept of Neonatology	NeoAMR Global Neonatal Sepsis Observational Study (NeoOBS): A prospective cohort study of sepsis in hospitalised neonates	St Georges' University London UK	Rs 61,39,971/-
Dr Ravinder Kaur Director Professor & Head	Dr Sushma Nangia Director Professor & HOD Dept of Neonatology	Indo-Norway project entitled "Born in the twilight of antibiotics.Implications of antibiotic use to the preterm infant respiratory microbiome and resistance development."	Indo- Norwegian cell for collaborative research ICMR	Rs 7863225/-
Dr Ravinder Kaur Director Professor	Dr. V.S. Randhawa	EQAS Programme	NACO/DSA CS	Rs 75,000/-

& Head	Director			
Dr. V.S. Randhawa	Professor			
Director Professor				
Dr. Manoj B. Jais,	Dr Manoj B	Establishment of Medical	DHR-ICMR	Rs
Director Professor,	Jais	College Viral Research		1,82,90,00
		and Diagnostic Laboratory		0/-
Dr Ravinder Kaur		(VRDL) DHR, Min of H		
Director Professor		& F W, Network of		
& Head		Laboratories for managing		
		Epidemics and Natural		
Dr. Sanjib Gogoi,		Calamities.		
Associate Professor				
Dr Manoj Jais,	Dr.Madhumath	Validation of a dry swab	ICMR, New	Rs
Director Professor,	i. J,	RNA-extraction-free	Delhi	100000/-
	Scientist C,	method based diagnostic		
Dr.Sanjib Gogoi,	ECD, ICMR,	test for SARS-CoV-2		
Assoc Professor	Ansari Nagar,	compared with the		
	New Delhi-29	standard VTM based swab		
		collection method: A		
		multicentric study		
Dr. V.S. Randhawa	Dr Sushma	Comparison of the	ICMR	Rs
Director Professor	Nangia	efficacy of a 7day versus		18,00,000/-
	Director	14day course of		
	Professor &	intravenous antibiotics in		
	HOD Dept of	the treatment of		
	Neonatology	uncomplicated bacterial		
		sepsis`:a randomized		
		controlled non-inferiority		
		trial.		

Non funded Research Projects:

Name of the	Project in	Title of the Project	Name of the funding
Investigator	Charge		agency
Dr Ravinder Kaur	Dr Ravinder	Capacity Building and	CDC& AIIMS
Director Professor	Kaur	Strengthening of HAI	
& Head	Co PI	Control to detect and	
Dr. Manoj B. Jais,		prevent AMR in India	
Director Professor			
Dr Ravinder Kaur	Dr Anil Gurtoo	Plasma trial	ICMR
Director Professor	Director	management in	
& Head	Professor, Dept of	COVID-19 patients	
	Medicine		
Dr Manoj Jais,	Dr Anupam		
Director	Prakash Director		
Professor,	Professor Dept of		
Medicine			
Dr Ravinder Kaur	Dr Manju Puri	National Registry of	ICMR
Director Professor	Dir. Professor	COVID-19 infection	
&Head	& Head	among pregnant women	
	Dept of Gynae	and their neonates	

Dr Manoj Jais,	Dr Sushma		
Director Professor,	Nangia Dir.		
	Professor & HOD		
	Dept of		
	Neonatology		
Dr Ravinder Kaur	Dr Manju Puri,	Surveillance of Covid	WHO,
Director Professor	Dir. Professor	in Pregnancy" (SCOPE)	LHMC& other centres
& Head	& Head	Standardizing data	
	Dept of Gynae	collection and protocol	
		for improving the	
Dr Manoj Jais,	Dr Sushma	Quality of evidence on	
Director Professor,	Nangia, Dir.	clinical characteristics	
	Professor & HOD	and outcomes of	
	Dept of	COVID-19 and	
	Neonatology	Pregnancy	
Dr Ravinder Kaur	Dr Sushma	PhaseIII, Multicentric	ICMR
Director Professor	Nangia Director	double blind	
& Head Co PI	Professor & HOD	randomized trial to	
	Dept of	3	
	Neonatology	Probiotics in the	
		treatment of Neonatal	
		sepsis in 0-2 months	
		low birth weight	
D D : 1 IV	D D : 1	neonates in India	ICI (D
Dr Ravinder Kaur	Dr Ravinder	Congenital Rubella	ICMR
Director Professor	Kaur, Co PI	syndrome surveillance	
& Head		in India- A multicentric	
		study	

Projects other than research projects:

- National AIDS Control programme
- National Tuberculosis Control Programme
- Vector Control Programme of India
- National AMR Containment programme

Teaching: Postgraduate thesis submitted and accepted by University of Delhi:

S.No	PG Student	Topic	Supervisor	Co-supervisor
1.	Dr. Sarita Yadav	Estimation of burden of	Dr. Manoj B.	Dr Shubha
		Clostridium difficile infection in	Jais	Laxmi Margekar
		patients with Antibiotic		Dr Praveen
		Associated Diarrhea		Kumar
2.	Dr. Grace	A comparative Evaluation of	Dr. Sonal	Dr. Ravinder
	Hundor Nylla	Different Methods to Detect	Saxena	Kaur
	Lapang	Colistin Resistance in Gram		
		Negative Bacteria		

Organizing training course Conference/ Symposia/ Seminar/ Workshops/ CME:

Sl. No	Faculty member	Organizer	Name, venue & date
1.	Dr Ravinder Kaur, Director	Dept. of Microbiology,	World Antibiotic
	Professor & Head	LHMC	Awareness week in the
	Dr VS Randhawa, Director		dept. Of Microbiology
	Professor		from18th-24th Nov. 2021
	Dr Manoj Jais, Director		-Lectures and Small group
	Professor		Discussion on AMR with
	Dr Yogita Rai, Assoc		MBBS 5TH Semester
	Professor		students, Faculty and
	Dr Shweta Satija, Assoc		Residents, 18th Nov 21
	Professor		Training & demonstration
	Dr Sanjib Gogoi, Assoc		of Infection control
	Professor		practices and AMR
			awareness for doctors,
			22nd Nov 2021
			-Poster competition on"
			Avoid misuse of
			antimicrobials and combat
			AMR" 23rd Nov 2021
			- Lectures on " Newer
			Antibiotics in horizon"
			"Diagnostic stewardship "
			23 rd November 2021
2.	Dr Ravinder Kaur,	Dept. of Microbiology,	Preconference satellite
	Director Professor & Head	LHMC & MICRO-D-	workshop on ' Diagnosis
	Dr VS Randhawa, Director	CON	of Invasive fungal
	Professor		infections by MICRO-D-
	Dr Manoj Jais, Director		CON on 25 th November
	Professor		2021 at LHMC
	Dr Deepti Rawat, Assoc		
	Professor		
	Dr Yogita Rai, Assoc		
	Professor		
	Dr Shweta Satija, Assoc		
	Professor		
	Dr Sanjib Gogoi, Assoc		
	Professor	CDL LIDAG	
3.	Dr Ravinder Kaur,	SRL LHMC	Online workshop on HIV
	Director Professor & Head		EQAS for ICTC/PPTCT
	D. VC D !!		LTs on 9/2/2021
	Dr VS Randhawa,		SRL, Dept. of
	Director Professor		Microbiology

4.	Dr Ravinder Kaur, Director Professor & Head	SRL, LHMC	Online workshop on HIV EQAS for ICTC/PPTCT LTs on 26/3/2021
	Dr VS Randhawa, Director Professor		SRL, Dept. of Microbiology
5.	Dr Ravinder Kaur, Director Professor & Head Dr Manoj Jais Director Professor Dr Sanjib Gogoi Assoc .Professor	Dept. of Microbiology, LHMC	Training programme on "Hand hygiene, Biomedical waste management and Personal Protection" of Group C & D workers, 06-04-2022
6.	Dr Ravinder Kaur, Director Professor & Head Dr Manoj Jais Director Professor Dr Sanjib Gogoi Assoc. Professor	Dept. of Microbiology, LHMC	Training programme on "Health infection control (HIC) practices, Biomedical waste management (BWM) & Post Exposure Prophylaxis (PEP) of Human Immunodeficiency Virus (HIV) and Hepatitis B Virus (HBV)" of Medical Doctors, 07-04-2022
7.	Lab personnel in Dept. of Microbiology	Dept. of Microbiology, LHMC	- Programmes held on SWACHHTA Abhiyan programme in the deptt Play on "SWACHHTA KA MHATAV" by Lab persons, 08-04-2022 Poster competition by UG students on "Importance of swachhta in human health", 11-04-2022
8.	Dr Ravinder Kaur, Director Professor & Head Dr Deepti Rawat Associate Professor	Dept. of Microbiology, LHMC	Programme on 'Fungal Infections: A Diagnostic Dilemma" by department of Microbiology, LHMC on 3rd July 21

Publications

- 1. Shivani Tyagi, Ravinder Kaur and Deepti Rawat. Mycological Profile and Prevalence of Superficial Mycoses Agents: A Study from North India. International Journal of Medical and Dental Sciences: Vol 10(1).
- 2. Shivani Tyagi, Neha, Ravinder Kaur, Deepti Rawat. A study of etiology and epidemiology of onychomycosis from a tertiary care hospital in North India .Int J Res Med Sci. 2021;9(2):559-64

- 3. Sonal Saxena, Ravinder Kaur, Validerjeet Singh Randhawa. Changing Pattern of Resistance in Typhoid Fever in An Era of Antimicrobial Resistance: Is It Time to Revisit Treatment Strategies? JMID 2021; 11(1):1-7.
- 4. Garima Gautam, Manoj B. Jais, Ravinder Kaur, Megh Singh Dhakkad. Human leptospirosis in patients with undifferentiated acute febrile illness in a tertiary care hospital in New Delhi. Int J Res Med Sci. 2021;9(2):485-488
- 5. Garima Gautam, Sanjib Gogoi, Sonal Saxena, Ravinder Kaur, Megh Singh Dhakad. Nitrofurantoin Susceptibility Pattern in Gram-Negative Urinary Isolates: In Need of Increased Vigilance. J Lab Physicians. 2021 6;(01): 1-96.
- 6. Ashish William, Yogita Rai, Ravinder Kaur Evaluation of Rifampicin-resistant Tuberculosis in Pediatric Patients by GeneXpert MTB/RIF. Journal of Microbiology and Infectious Diseases2021; 11 (2):81-87
- 7. Singh GB, Nair M, Kaur R. Is there fungal infestation in paediatric chronic otitis media Mucosal disease? Am J Otolaryngol. 2022 May-Jun;43(3):103435.
- 8. Sanjib Gogoi, Manoj Jais, R Kaur. Comparative evaluation of cost effective extraction free molecular technique for detection of SARS-CoV-2 with reference to standard VTM based RT-qPCR method. Iran J Microbiol. 2021;13(6):748-756.
- 9. Sahoo JK, Tiwari S, Chhapola V, Jais M. Seroprotection against measles in previously vaccinated children with difficult-to-treat nephrotic syndrome. Pediatr Nephrol. 2022;37(4):843-48.
- 10. Rathi A, Randhawa VS, Kumar P, Kaur R. Antigenic profile of infective diarrhoea in immunocompromised children in a paediatric tertiary hospital. IJMM. 2021; 39 Supplement S86-S87
- 11. Verma IK, Randhawa VS, Andley M. Susceptibility profile of bacteria isolated from cases having health care acquired catheter associated urinary tract infection. IJMM. 2021; 39 (Supplement): S78-S79

Books/ Chapters Contributed:

1. Dr Randhawa. Essentials of Microbiology-an integrated approach Research and Publishing house, New Delhi 2021 ISBN no. 9789354377549

<u>National & International Conferences / Symposia/ Workshops/ CMEs</u> attended by faculty members:

S.	Name & Designation	Role/	Organizer	Name of conference, venue & date
no.	of participant	Topic		
1.	Dr Ravinder Kaur	Participant		"National AMR Laboratory Capacity
	Director Professor			Building ECHO" session a digital
	and Head			laboratory capacity building initiative
				under the National Programme on
				AMR Containment on January 19th
				2021
2.	Dr Ravinder Kaur	Participant	Dept of	Guest Lecture on" Non Chlamydial
	Director Professor		Dermatology	infections: Diagnostic Advances" at a
	and Head			webinar organized by Dept of
				Dermatology, LHMC on 14th Feb
				2022 as a part of STI awareness week.
3.	Dr Ravinder Kaur	Participant	RNTCP	RNTCP STF VIRTUAL meeting cum

	Director Professor and Head			Workshop 30.03.21
4.	Dr Ravinder Kaur Director Professor and Head	Expert	Min H&FW	Expert meeting of the Sub-committee for drafting of Minimum Standards of Collection Centre, point of care testing etc on 15.04.2021
5.	Dr Ravinder Kaur Director Professor and Head	Participant	ELBS, Delhi	Webinar on Self Embrace Your Ambiguity: Laboratory Screening and Diagnosis of Blood Borne Viruses on 30 July,2021
6.	Dr Ravinder Kaur Director Professor and Head	Invited Delegate & Expert	WHO & Min of H &FW	"National Consultation to operationalise Action Plan for AMR Containment" on 24-25th August 2021 at New Delhi.
7.	Dr Ravinder Kaur Director Professor and Head		ASCLS P.A.C.E.® Program.	Webinar: Demystifying HbA1c testing at the point of care and the impacts of COVID-19 on patients with diabetes as continuing education programs in the clinical laboratory sciences by the ASCLS P.A.C.E.® Program. 23 RD September 21
8.	Dr Ravinder Kaur Director Professor and Head	Expert	IAMM-DC	2nd Chapter Virtual Meet of Indian Association of Medical Microbiologists, Delhi Chapter on 11- 12 September 2021dedicated to World Sepsis Day
9.	Dr Ravinder Kaur Director Professor and Head	Participant	Bhai Vir Sadan Academy	Guest lecture on " Antibiotic pollution in environment" 4th oct 21
10.	Dr Ravinder Kaur Director Professor and Head	Participant	IAMM- DC	"Immunology & Autoimmune Disorder: An Update. Virtual Chapter meeting of IAMM, Delhi Chapter on 9th October, 2021 by ABVIMS.
11.	Dr Ravinder Kaur Director Professor and Head	Member	ICMR	UKRI Phase III MRC meeting on 19th Nov 2021 as part of ICMR initiative
12.	Dr Ravinder Kaur Director Professor and Head	Participant	AMU Aligarh	Webinar on World Antibiotic Awareness Week 23 Nov, 2021 by AMU Aligarh
13.	Dr Ravinder Kaur Director Professor and Head	Participant	Department of Microbiology , UCMS & GTBH Hospital	CME On "AMSP: The solution for AMP MENANCE Organized By department of Microbiology, UCMS & GTBH Hospital on 18th November 2021.
15.	Dr Ravinder Kaur Director Professor and Head	Participant	SAPS Delhi	Virtual AMR Review Meeting and Training workshop for development of Antibiograms, 3rd - 4th December 2021
16.	Dr Ravinder Kaur Director Professor	Organizer	Dept. of Microbiology,	Programme on "Fungal infections: A Diagnostic Dilemma" on 3rd July 21 at

			LIMO	David of Ministration of LUMC
	and Head		LHMC	Dept. of Microbiology, LHMC
	Dr Deepti Rawat	Organizer		
	Associate Professor			
17,	Dr Ravinder Kaur	Organizer	Dept. of	Preconference Satellite Workshop on
	Director Professor		Microbiology,	"Diagnosis of Invasive Fungal
	and Head		LHMC	Infections" on 25th November 2021 as
	Dr Deepti Rawat	Organizer		part of MICRO-D-CON 2022 at Dept.
	Associate Professor			of Microbiology, LHMC
18.	Dr Ravinder Kaur		Dept. of	Programme on "Rational use of
	Director Professor	Organizer	Microbiology,	Antimicrobials" during World
	and Head	U	LHMC	antimicrobial awareness week from
	Dr Manoj Jais	Participant		18th to 24 th November 2021 at
	Director Professor	T air the ip airt		department of Microbiology, LHMC
	Director Froiessor			department of wherobiology, Errivic
	Dr Yogita Rai	Participant		
	Professor	1 articipant		
	1 10162201			
	Dr. Doorti Borret	Dontining		
	Dr Deepti Rawat	Participant		
	Associate Professor			
	D 01 + 0 +	Organizer		
	Dr Shweta Satija			
	Associate Professor			
		Participant		
	Dr Sanjib Gogoi			
	Associate Professor			
19.	Dr Ravinder Kaur	Speaker	IAMM- Delhi	MICRO-D-CON 2021
	Director Professor		Chapter	
	and Head			
	Dr Deepti Rawat	Participant		
	Associate Professor			
	Dr Shweta Satija			
	Associate Professor	Participant		
20.	Dr Ravinder Kaur	Participant	RNTCP	Delhi State Virtual Task Force Meeting
	Director Professor	_		on 30 th March 2021
	and Head			
	Dr Yogita Rai	Participant		
	Professor	1		
21.	Dr Ravinder Kaur	Participant	Hospital	webinar on" Do we understand the
	Director Professor	I.	Infection	Proteus and how far are us from
	and Head		Society of India	Aristaeus-Changing trends in virology,
			on 19 th June	including variants, Epidemiology,
	Dr Shweta Satija	Participant	2021	Clinical & Emerging therapeutics of a
	Associate Professor	1 articipant	2021	shape shifter SARCOV2 & Covid 19
	Associate Flotessol			
				organized by Hospital Infection
22	Da Darria da IZ	Dout	TAMMA D 11.	Society of India on 19 th June 2021
22.	Dr Ravinder Kaur	Participant	IAMM- Delhi Chapter	Online webinar on the 'Rise of titans after Covid: opportunistic infections"
1	Director Professor			

	and Head Dr Shweta Satija Associate Professor	Participant		on 22 nd May 2021 by IAMM- Delhi Chapter.
23.	Dr Shweta Satija Associate Professor	Participant	WINSAR -D	WINSAR –D Review meeting held on 16-17 th Nov 2021 and presented the Antimicrobial surveillance data, held at The Hotel Heritage, Manesar, Haryana.
24.	Dr Shweta Satija Associate Professor	Participant	WINSAR-D	WHONET Training Workshop on WINSAR-D on 29 th – 30 th November 2021 at Hotel Crowne Plaza, Greater Noida
25.	Dr Shweta Satija Associate Professor	Participant	Department of Microbiology, UCMS & GTBH Hospital	CME On "AMSP: The solution for AMP MENANCE Organized By department of Microbiology, UCMS & GTBH Hospital on 18 th November 2021.
26.	Dr Sanjib Gogoi Associate Professor	Participant	IAP at Indraprastha Apollo Hospitals	Research Methodology " organized by IAP at Indraprastha Apollo Hospitals, New Delhi from 8th to 10th November 2021
27.	Dr Sanjib Gogoi Associate Professor	Participant	CDC	Hands on Workshop on "Shipping Infectious substances & biological Specimens" organized by CDC India in collaboration with Sandia Laboratories, USA held in Pune from 18th to 19th November 2021.
28.	Dr Sanjib Gogoi Associate Professor	Organizer	IAMM	Pre- conference Workshop on "Diagnostic Stewardship in Clinical Microbiology" in 44th Annual National Conference of IAMM held at Guwahati on 21st December 2021.
29.	Dr Sanjib Gogoi Associate Professor	Participant	AIIMS, Hyderabad	VIROCON2022 (National Conference on Virology, Virtual mode) organized by AIIMS, Hyderabad from 26th to 28th March 2022

Special Achievement of the Staff:

New Initiatives in Microbiology Dept

(I)Setting up of Virology diagnostic and research facility (VRDL) in Department of Microbiology in LHMC in collaboration with DHR/ICMR

- Expand the identification and diagnosis of different viral diseases at serological and molecular level
- Diagnose suspected outbreaks of viral diseases like H1N1 etc

• 47727 samples tested for COVID in 2021

(II) Setting up of advanced mycology diagnostic and research facility (MRDL) in Department of Microbiology in LHMC to

(III)MIGIT & Gene-Expert for rapid culture and Susceptibility testing of Mycobacterium tuberculosis and Detection of Rifampicin Resistance.

(IV)Molecular lab services started for rapid identification of pathogens which are difficult to grow/unable to grow at an early stage.

(V) Microbiological Culture Bank of Breast milk samples from Indo Norweign Milk bank in Neonatalogy

Strengthening Of Patient Care Services in the Dept. of Microbiology

- 1. **Infection control and BMW trainings** strengthened and made available to all sections of healthcare workers at regular intervals
- 2. Centre for HIV testing (CHT), department of Microbiology, LHMC accredited by NABL for diagnosis of HIV

Strengthening Of Patient Care Services in LHMC

Incorporation of Laboratory Information Management System has started to ensure smoother and faster workflow and laboratory information exchange interface with clinicians.

Representation on Expert Bodies/ Committees

1. Dr Ravinder Kaur

- Focal person for AMR programme of NCDC & Min of H&FW
- *Member Technical group* for formulation of State Action Plan for Control of Antimicrobial Resistance Delhi (SAPCARD).
- Member of expert group constituted by DGHS under chairmanship of Director NCDC to frame "National treatment guidelines" under "National Programme on containment of Antimicrobial Resistance".
- Member Expert in Infection control & AMR Control Programme by CDC & Min of H&FW
- Nominated member in expert group on developing patient safety implementation for India.
- Expert at CSIR Board Committee
- Invited Expert member in DGHS Committee on Diagnostic labs standardization
- Invited Expert at Union Public Service Commission
- *Coordinator*, WHO IAMM Network for Surveillance of Antimicrobial Resistance-Delhi (WINSAR-D)
- Member Subcommittee on Minimum standards of Medical Diagnostic laboratory in Min of H&FW
- Technical expert to NBE, AIIMS New Delhi, AIIMS Rishikesh, AIIMS Jodhpur, Punjab university, I.P University, NMC New Delhi, ILBS New Delhi, MCD.
- Invited Faculty in NPTEL Medical education programme under HRD ministry

- Subject expert for the faculty interview of Professor and Assistant Professor, Microbiology at ESIC Medical College & Hospital, NH-3, NIT Faridabad
- Expert reviewer in J of Chemotherapy, IJMR
- Expert in National Board Examinations
- Examiner for DNB.
- Revision of Curriculum guidelines for DNB Microbiology

2. Dr V S Randhawa:

- Approved Assessor for NABL, New Delhi, NAAC, Bangalore and NMC, New Delhi
- Contributed ;as subject expert to various organizations as ICMR New Delhi, Punjab university, AIIMS New Delhi, NACO, AIIMS Patna, AIIMS Jodhpur, AIIMS Kalyani, Pt B.D. Sharma University of Health Sciences, RUHS Jaipur, HIMR New Delhi, RMLH New Delhi, G.G.S. I.P University, NMC New Delhi, KGMU, Srimanta sankaradeva University of Health Sciences, Punjab University, M.S. University of Baroda, IAE, Bharath Institute of Higher education and Research
- NABL renewal of CHT, HIV(for two years)

3. Dr Manoj B Jais:

- Member Secretary of infection prevention committee
- Member Secretary of patient safety committee
- Nodal officer and member secretary of BMWM Committee

4. Dr Deepti Rawat

- Member of the undergraduate election committee, LHMC
- Member of library tender committee

5. Dr Yogita Rai:

• Nodal Officer, CBNAAT/TRUENAT COVID 19 Testing, LHMC

6. Dr Shweta Satija

• Focal person for AMR programme of NCDC & Min of H&FW

7. Dr Sanjib Gogoi

• Member of Kaya Kalp committee, LHMC