

Menu Title	Information
Department Group	Para clinical Department
Specialty	None
Department Name	Microbiology
Introduction	<p>The Department of Microbiology, Rajarshee Chhatrapati Shahu Maharaj Govt. Medical College, Kolhapur, was founded in 2000. The department, which is currently located in the Shenda park building, has over the years witnessed seminal progress.</p> <p>The department is actively involved in teaching, training and providing clinical diagnostic services to Chhatrapati Pramila Raje (CPR) General Hospital, Rural Hospitals and adjoining government health care facilities in the District.</p> <p>The courses offered by the department include U.G., and P.G. medical programs. Department faculty are also involved in teaching the Allied Health Science Courses like PG-DMLT and BPMT.</p> <p>DIAGNOSTIC FACILITY: We have a well-equipped Microbiology Laboratory having the different sections available for the investigations as per NMC Norms.</p> <p>Department caters to the diagnostic needs of CPR general Hospital, Kolhapur. The laboratory provides culture sensitivity for bacteria, culture for fungi, Mycobacteria. Serological tests including widal, RPR, ASO, RA, ELISA for Dengue and Chikungunya, parasitology investigations, CD4 cell count testing, molecular diagnostics. The laboratory is recognized as State Reference laboratory for HIV surveillance and diagnosis, and has HIV viral load estimation facility under MSACS and NACO. Our HIV, SRL and VLL are NABL accredited since 2021. We have BSL (Bio Safety Level) 2 Lab for COVID-19 testing since May 2020. Department is recognized as reference lab under IDSP and NVBDCP .</p> <p>Average per year investigations are more than 85000. So far 8,63,700 no of Covid-19 RTPCR tests have been performed by the molecular lab of this department which is the highest no amongst state govt medical college VRDL labs</p> <p>ADDITIONAL SERVICES PROVIDED:</p> <p>I) Hospital Infection Control program:</p> <p>Active contribution in Hospital Infection Control (HIC) program. Department undertakes Training of medical and paramedical staff of our college and hospital Supervision of biomedical waste disposal and Surveillance of Hospital acquired infections.</p> <p>II) We are actively participated in Antimicrobial Resistance Program as part of Government National Action Plan.</p> <p>III) Department of Microbiology plays vital role in investigation of infectious disease outbreaks under Integrated Disease Surveillance Program (IDSP):</p> <p>It is a State referral lab for confirmation of outbreaks of infectious diseases, catering to Kolhapur, Ratnagiri and Sindhudurg districts</p> <p>IV) HIV Diagnostic Laboratory (NABL accredited) :</p> <p>It is a State reference laboratory for 33 ICTC's centers of Kolhapur division. comprises of :</p>

- 1) Integrated Counseling & Testing Center I (ICTC) (general population)
- 2) Integrated Counseling & Testing Center II (patient attending ANC clinic)
- 3) HIV Viral load laboratory (VLL) (Molecular Testing).

CD4 laboratory. Estimation of CD4 counts for HIV positive persons.

IV) Sentinel surveillance for vector borne viral infections mainly Chikungunya & Dengue under NVBDCP

TRAINING OF FACULTY:

The faculty has been trained in various fields related to Microbiology and other fields. One of the faculty has done Diploma in Hospital Administration, Two faculties have been certified in Hospital Infection Control. One of the faculty has done Diploma in Human Resource (PGDHR) Also one of the faculty has done Diploma in Hospital & Healthcare Management. Two of the faculties are internal Auditor for NABL and one faculty work as assessor of NABH, NABL & ECHS. All our faculty has completed Bio-Medical Research Course conducted by NPTEL.

CME/ CONFERENCES/ WORKSHOPS:

Faculty members regularly attend the conferences/ CME and Workshops at State and National Level and also have contributed significantly as resource persons and PG quiz Master

The Department conducts refresher training to HCWs on BMW management

The Department conducts and co-ordinates the Training programs of MSACS on HIV EQAS regularly.

PUBLICATIONS:

Various national & international publications are in the account of all Microbiology faculties.

EXTRA CURRICULAR ACTIVITIES:

Departmental faculty members hold various administrative assignments in college and MUHS University and are involved in Inter departmental and inter-college activities at various capacities.

Departmental faculty is actively involved in student non-academic activities like Ganpati Festival, Annual Gathering, Dahi Handi, Navratri Utsav, Sports Activities.

Courses Offered	Provide Names of Courses and Intake Capacity for each course.															
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; background-color: #cccccc;">Sr. No.</th> <th style="text-align: center; background-color: #cccccc;">Course</th> <th style="text-align: center; background-color: #cccccc;">Intake</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td><td>MBBS</td><td style="text-align: center;">150</td></tr> <tr> <td style="text-align: center;">2</td><td>M.D. Microbiology</td><td style="text-align: center;">8</td></tr> <tr> <td style="text-align: center;">3</td><td>PG DMLT</td><td style="text-align: center;">20</td></tr> <tr> <td style="text-align: center;">4</td><td>B.P.M.T.</td><td style="text-align: center;">25</td></tr> </tbody> </table>	Sr. No.	Course	Intake	1	MBBS	150	2	M.D. Microbiology	8	3	PG DMLT	20	4	B.P.M.T.	25
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1	MBBS	150														
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Facilities	<p>1) Bacteriology</p> <p>2) Virology</p> <p>3) Mycology</p> <p>4) Serology</p> <p>5) Parasitology</p> <p>6) Mycobacteriology</p> <p>7) Immunology</p> <p>8) Molecular Lab</p> <ul style="list-style-type: none"> • Besides routine instruments & equipments required for routine laboratory work dept. also has Bio-safety Cabinet, laminar air flow, ELISA System, Flowcytometer for CD4 count, PCR Machines, RNA Extraction Machines, Electronic Pipettes, PCR Plate Centrifuge. etc. • Services offered: Bacterial Culture & Sensitivity, routine Serology includes- RA, ASO, CRP, WIDAL, HbsAg, HAV, HEV, HCV, Leptospirosis, Dengue, Chikengunya,
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Fungal Microscopy & Culture

• Special Services –

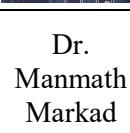
- ICTC
- CD4 Count facility
- HIV Viral Load
- Serology investigations for diseases of public health importance such as Dengue, Chikungunya & Leptospira
- O.T. Surveillance related investigations for three districts namely Kolhapur, Sindhudurg & Ratnagiri.

The Department conducts refresher training for HCWs on BMW management in coordination with all the clinical departments does the processing & testing of all the necessary & advanced tests..

Faculty

List of all the faculty members under this department

Name & Photo	Designation	Qualification	Experience		Aadhar No	State Council No.	Contact No.	Email
			UG	PG				
Dr. Vidya Arjunwadkar 	Professor & Head	MBBS M.D.,	32 Yrs	29 Yrs	5934 6933 6396	67038-7/5/2012	72649 85898	drvidya.arjunwadkar@gmail.com
Dr. Vishakha Shikhare 	Associate Professor	MBBS M.D.,	19 Yr	13 Yr	2372 0284 8938	0160/01/2000	98908 45923	vshikhar.e13@gmail.com
Dr. Shilpa Putta 	Assistant Professor	MBBS, M.D.	10 Yr	3 Yr	5533 6034 1634	2010/05/1718	98601 93300	shilpa.putta21@gmail.com
Dr. Hemangi Walke 	Assistant Professor	MBBS, M.D. PG DHR PG DHI	10 Yr	3 Yr	3701 6503 7359	2007/06/2561	91581 89401	drhemangiwalke05@gmail.com

	Dr. Aparajeet Walawalkar 	Assistant Professor	MBBS, M.D.	10 Yr	--	6072 6416 3785	2000/07/2480	98812 92900	apu_ssw@yahoo.co.in
	Dr. Ipsita Haldar 	Senior Resident	MBBS, MD	--	--	7599 6417 8171	(OMC) 26406 /2021	93376 31456	ipsita10@gmail.com
	Dr. Manasi Rajmane 	Senior Resident	MBBS, MD	--	--	6190 4257 4537	2021/05/4461	90287 44475	manasiraj75@gmail.com
	Dr. Nilu Sahi 	Senior Resident	MBBS, MD	--	--	5945 5450 0322	2016/08/2325	98234 24856	nilusahi016@gmail.com
	Dr. Vani S. 	Senior Resident	MBBS, MD	--	--	6972 8438 5800	62775 (Kerala University Of Health Sciences)	8547926 889	vanisivaprasadnarayanan@gmail.com
	Dr. Sneha Hidole 	Junior Resident-3	MBBS	--	--	3006 1270 2122	2021/04/3087	9764371 754	snehahidole46@gmail.com
	Dr. Rahi Palwankar 	Junior Resident-3	MBBS	--	--	2670 4100 0852	2022/07/4810	82759 42283	rahipalwankar2017@gmail.com
	Dr. Manmath Markad 	Junior Resident-3	MBBS	--	--	4943 9971 3078	2023/08/5037	77209 50469	manmathmarkad586@gmail.com

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	Dr. Shalini 	Junior Resident-1	MBBS	--	--	9209 5674 9156	2022/07/4 383	87884 98403	shalini.1 21.ss@g mail.co m
	Dr. Anirban Chandra 	Junior Resident-1	MBBS	--	--	3217 3987 6302	2024/08/7 604	96238 70266	chandra anirban @rediff mail.co m
	Dr. Akash Gore 	Junior Resident-1	MBBS	--	--	7013 3856 5218	2020/10/5 849	70203 58842	akshgor e64@g mail.co m

Research	Detailed list of research work / research project conducted / ongoing in the following format [2018 onwards].				
Sr. No.	Research Title	Research By	Guide	Year	
1	Prevalence of HIV Trend in ANC Group of Last Decade	Dr. Hemangi Walke	Dr. Neeta Jangale	2021-22	
2	Efficacy of Waterless Alcohol base surgical scrub in preventing SSI	Dr. Hemangi Walke	Dr. Neeta Jangale	2020-21	
3	A Study to Correlate CRP marker with Blood culture positivity in Neonatal sepsis patients during post covid-19 era in tertiary care hospital	Dr. Supriya Gaikwad & Dr. Hemangi Walke	Dr. Neeta Jangale	2021-22	
4	Resistance pattern and phenotypic detection of ESBL, MBL and AmpC, B-Lactamase among gram negative bacteria isolate from blood cultures of neonates with neonatal sepsis admitted in tertiary care hospital	Dr. Ipsita Haldar	Dr. Vijay Kulkarni	2021-22	
5	Study of bacteriological profile of lower respiratory tract infection of intubated patients admitted in Intensive care unit of a tertiary care hospital	Dr. Tejal Jagtap	Dr. Neeta Jangale	2021-22	
6	Study of Candida Isolates in Clinical samples from Hospitalized patients with special reference to characterization and antifungal	Dr. Rahi Palwankar	Dr. Hemangi Walke	2023-24	

		susceptibility testing			
	7	Comparision of Colistin Broth Disc Elution Method & Colistin Agar Test with Colistin Broth Microdilution in Carbapenem Resistant Gram Negative Bacilli from Clinical Isolates at a Tertiary Care Hospital	Dr. Sneha Hidole	Dr. Shilpa Putta	2023-24
	8	Detection of Multidrug Resistance and extended spectrum Beta-Lactamase, Metallo-B-lactamase & Production among Uropathogenic Gram Negative Bacilli A Tertiary Care Teaching Hospital Based observational study.	Dr. Manmath Markad	Dr. Neeta Jangale	2023-24
	9	A Descriptive Study of Antimicrobial Resistance in Enterococci with Special Reference to Vancomycin Resistance in Tertiary Care Hospital.	Dr. Shalini	Dr. VishakhaShikhare	2025
	10	The Study of Antimicrobial Susceptibility Pattern of Methicillin Resistant Staphylococcus aureus isolated from pus samples of skin and soft tissue infections in Patients Attending at a Tertiary Care Centre	Dr. Anirban Chandra	Dr. VidyaArjunwadkar	2025
	11	Phenotypic Characterization of Carbapenemase-Producing Enterobacteriales Using the EUCAST [The European Committee On Antimicrobial Susceptibility Testing] Based Combined Disc Diffusion Method.	Dr. Akash Gore	Dr. Shilpa Putta	2025

Publications	Detailed list of all publications (As per NMC Criteria) in the following format [2018 onwards].					
	Sr. No.	Title	Authors from the institute	Departments of authors	Journal details	Journal indexed with which indexing agency
	1	Seroprevalence of HCV in HIV infected patients: A Study from Tertiary Care Hospital.	Dr. Vidya Arjunwadkar	Microbiology	International Journal of Current Research, ISSN No 0975-833X	Index Copernicus 2018
	2	Candidemia In APaediatric Intensive Care Unit of a Tertiary Care Centre. Mr Shaunak Lohite. (Second and corresponding Author)	Dr. Vidya Arjunwadkar	Microbiology	International Journal of Current Research2018	2018

	3	Prevalence of Hepatitis viruses in Chronic Hepatitis: Study at a Tertiary Care Centre.	Dr.Vidya Arjunwadkar	Microbiology	Indian Journal of Basic and Applied Medical Research;	2018
	4	HBV co-infection in HIV infected patients and its effect on progress of the disease. IP	Dr.Vidya Arjunwadkar	Microbiology	International Journal of Medical Microbiology and Tropical Diseases,	2018
	5	Clinico-mycological study of tinea infections in and around Pune	Dr.Vidya Arjunwadkar	Microbiology	<i>International Journal of Res. Dermatol.</i>	Index Copernicus 2019
	6	Cryptococcal Antigenemia in HIV-Infected Patients with CD4+ T-cell Count \leq 200 cells/ μ l: A study from a tertiary care hospital.	Dr.Vidya Arjunwadkar	Microbiology	International Journal of Contemporary Medical Research;	Index Copernicus & Index 2020
	7	Clinicomycological Study of Candidemia in Adult Patients.	Dr.Vidya Arjunwadkar	Microbiology	Indian Journal of applied Research	Index Medicus, Google Scholar, Pub Med 2021
	8	Prevalence of Vancomycin Resistant Enterococci (VRE) in catheter associated urinary tract infection with special reference to biofilm formation	Dr Shilpa Putta,	Microbiology	IP International Journal of Medical Microbiology and Tropical Diseases	2018
	9	Invasive candidiasis outbreak in a neonatal intensive care unit (NICU), a descriptive study from tertiary care teaching hospital of western part of Maharashtra.	Dr Shilpa Putta, Dr Neeta Jangale, Dr Vijay Kulkarni	Microbiology	MedPulse International Journal of Microbiology	2018
	10	Septicemia Due to Propionibacterium Propionicum In Three Month Old Femle Child- A Case Report	Dr Neeta Jangale, Dr Hemangi walke,	Microbiology	International Journal of Research and Analytical Reviews	2018
	11	Antibiogram of Uropathogens in and around Miraj	Dr. Vishakha Shikhare	Microbiology	European Journal of Biomedical	Index copernicus

				and Pharmaceut ical Science.	Scopus Index 2020
12	Trends in Dengue Virus Infection in and Around Miraj	Dr. Vishakha Shikhare	Microbiology	IOSR Journal of Dental and Medical Sciences (IOSR-JDMS)	Index copernicus 2021
13	A study of biofilm production and antimicrobial susceptibility pattern among urinary isolates	Dr. Vishakha Shikhare	Microbiology	Indian Journal of Microbiology Research	Index copernicus 2021
14	Regular Hospital Infection Control Team Rounds - A Prime Factor in Early Detection of NICU Outbreak	Walke H , Jangale N.	Microbiology	International Journal of Science and Research.20 21Oct ; 10 (10): 76-78	2021
15	Study of rise in cases of mucormycosis during covid-19 pandemic	Dr. Vishakha Shikhare	Microbiology	International Journal of Medical Microbiology and Tropical Diseases	Index copernicus 2022
16	Role Of RT-PCR In The Diagnosis of Dengue	Dr. Vidya Arjunwadkar	Microbiology	Indian Journal of Applied Research, 13 (6) : 2023. PRINT ISSN No 2249 - 555X (Second)	2023
17	A Descriptive Microbiological Study of Oral Candidiasis in a Tertiary Care Hospital	Dr. Vishakha Shikhare	Microbiology	International Journal of Pharmaceutical and Clinical Research	2023
18	Development of combination Antibiogram to start empirical therapy for	Dr. Tejal Jagtap, Dr. Neeta Jangale	Microbiology	International Journal of Scientific	2024

		Pseudomonas aeruginosa in a tertiary care hospital			Research	
	19	Increased Chikungunya Seropositivity with Dengue Co-infection - Trend in recent years	Dr. Ipsita Haldar Dr. Vijay Kulkarni	Microbiology	Journal of Cardiovascular disease Research	2023
	20	Antibiotic resistance pattern of biofilm forming uropathogens isolated from catheterized patients in tertiary care teaching hospital from Maharashtra - A pilot study	Dr. Ipsita Haldar, Dr. Neeta Jangale	Microbiology	International Journal of Scientific Research	2024

Conferences & Other Academic Activities	Detailed list of all the conferences / CME / workshops conducted in the following format [2018 onwards].		
	Sr. No.	CME / Workshop / Conference Title	Year
	1	Workshop on Biomedical Waste Management for HCWs	Dec-2018
	2	Workshop on Infection Control Training for Nursing Staff	Mar-2019
	3	Covid 19 Workshop Under Instruction from DMER & DHS	2020-21
	4	Workshop on Biomedical Waste Management for HCWs	2023
	5	Workshop on Molecular OT operating technique	2023
	6	Workshop on Standard Precaution UG Students	2023
	7	WHONET Training for Technical Staffs	2023
	8	World Anti-Microbial Resistance Awareness Week <ul style="list-style-type: none"> • Rangoli Competition for UG and Paramedical Students • Poster Competition for UG and Paramedical Students • Sensitization programme on AMR Awareness 	2024
	9	Good Laboratory Practice (GLP) Workshop by Microbiology Department	2024
	10	Workshop on EQAS for Linked ICTC Technicals	2025
	11	Airborne infection training by Dr. Hemangi for Healthcare Workers	2025

Awards & Achievements	List of Awards and Achievements made by Staff or Students for [2018 onwards].			
	Sr. No.	Achievement / Award	Achiever	Year
	1	Undergraduate Microbiology IAMM Regional Quiz	II nd MBBS students (Kaushal Chand, Dwarkesh Vastani)	2018
	2	2 nd in Oral Presentation at National Conference On Recent updates on Nipah and Arboviruses(NCRUNA-2018)	Dr Hemangi Walke (Asst. Prof.)	2018
	3	1 st in Poster Presentation at National Conference On Recent updates on Nipah and Arboviruses (NCRUNA-2018)	Dr Rajani Chavan(Senior Resident)	2018
	4	2 nd in Poster Presentation at National Conference On Recent updates on Nipah and Arboviruses (NCRUNA-	Dr Smita Pokharnikar	2018

	2018)		
5	Winner of Grand Quiz at 3 RD National Workshop on Hospital Infection Control	Dr Shilpa Putta	2019
6	Won the I st Runner-up Title in Smart Scrub Doctors Beauty Contest	Dr. Hemangi Walke	2023
7	3rd Prize in Paper Presentation in COGNITIA -2023	Dr. Ipsita Haldar	2023
8	Best Paper in Mycology 1st Prize in MAHAMICROCON -2024	Dr. Rahi Palwankar	2024
9	Best Paper in COGNITIA-2024	Dr. Rahi Palwankar	2024
10	Best Paper in COGNITIA-2024	Dr. Sneha Hidole	2024
11	3rd prize in Paper Presentation in COGNITIA-2024	Dr. Manmath Markad	2024
12	Best Poster in Mycobacteriology in MAHAMICROCON-2025	Dr. Shalini	2025
13	1st Runner-up in State Quiz of MAHAMICROCON-2025	Dr. Shalini	2025

Contact Details	Address: Department of Microbiology, R.C.S.M. Govt. Medical College, R.K. Nagar, Shenda Park Road, Kolhapur Email: rcsmmicrobiology@gmail.com Contact Numbers: 0231-2641583
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