






DEPARTMENT OF MICROBIOLOGY
GOVERNMENT MEDICAL COLLEGE KOTTAYAM

ACHIEVEMENTS REPORT - 2022		
Sl. NO	Title	Description of the project/activity/achievements/programs
1.	Achievements & Best Practices	<ul style="list-style-type: none"> • Installation of TRUENAT machine at PCR Lab for detection of Mycobacterium tuberculosis 6th June 2022. • World antimicrobial resistance awareness week 2022 was observed from Nov.18 to 24th,2022. 
2	Information, Education & Communication activities (Public health awareness programs	1.Quiz competititon on Antimicrobial stewardship for interns and residents on 29 th Nov 2022 2. Dr Sreekumary P K- Professor and head , Dept. of Microbiology Resource personality in Kottayam Infectious Diseases updates 2022 – Topic Newer diagnostic methods in Microbiology
3	Research activities (ongoing & completed projects)	1. Bacteriological profile and anti biogram of isolates causing blood stream infection in children –Dr.Linu Rajeev [ongoing] 2. Bacteriological profile and anti biogram of surgical site infection in tertiary care centre-Dr.Aleena Cyriac. 3. Charecterisation of enterococci and its antibiogram including vancomycin resistant enterococi- Dr.Geetanjali Mohandas [ongoing] 4. Bacteriological profile and anti biogram of blood culture isolates in a critical care unit in a tertiary care centre-Dr.Chithra C Nath 5. Mycological Profile Of Clinically Suspected Chromoblastomycosis. Dr.Jyothi. K Nair. (ongoing) 6. Comparison Of Truenat Mtb With Afb Culture For Detection Of Mycobacterium Tuberculosis- Dr Sana Rose Sunny(ongoing)


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4	Innovations in health (new technologies, methods, approaches)	<p>1.Installation of TRUENAT machine at PCR Lab for detection of Mycobacterium tuberculosis 6TH June 2022</p>  
5	Recognition & Awards (National & International)	Nil
6	Workshops, Conferences, CMEs	<p>1.Molecular advances in Medical research 2022 in association with Business innovations and incubation centre MG University April 6th & 7th</p> <p>2. Workshop in Real time PCR - July 14th 2022</p> <p>3. Update on Viral Hepatitis- Aug 2nd 2022</p>

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ACHIEVEMENTS REPORT - 2023		
Sl.	Title	Description of the project/activity/achievements/programs
1.	Achievements & Best Practices	<p>1. World antimicrobial resistance awareness week program at MEDEX 2023</p>  
2	Information, Education & Communication activities (Public health awareness programs)	<p>1. Distribution of pamphlets -A pamphlets describing the mechanisms of developing antimicrobial resistance and methods to prevent it was distributed among the attendees of MEDEX 2023</p> <p>2. Talk on Antimicrobial resistance prevention by Dr Sreekumary PK Professor and head, Department of Microbiology</p>

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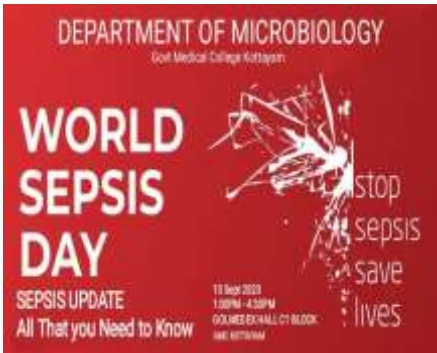
			3. International infection Prevention week Celebration from 15.10.2023, 21.10.2023
3	Research activities (ongoing & completed projects)		
		Name Of Faculty	Research Work
		Dr. Sreekumary P.K	Mupirocin resistance in Staphylococcus aureus isolates among patients admitted to a tertiary care hospital [ongoing]
		Dr. Shanimole P.E	1) Clinical and bacteriological profile of primary pyoderma : a cross sectional study[completed] 2) Clinicoepidemiological profile and outcome of melioidosis among patients attending a tertiary care hospital in South India [ongoing]
		Dr. Sreelatha S	1) Mycobacterial diagnosis comparison of an automated culture system with the conventional method [published] 2) Rapid detection of drug resistant pulmonary tuberculosis by line probe assay at a tertiary care centre in North Kerala. International journal of toxicological and pharmacological research [published]

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			3) Sero prevalence of Human Papilloma Virus (HPV)-16 among women with symptoms of reproductive tract infection [published]
		Dr. Nimmy Paul	Predicting human risk with multi drug resistant Enterobacter hormaechei ² having mcr 9 gene isolated from the faeces of healthy broiler through whole genome sequence – based analysis [published] Retrospective study on Mucormycosis and other fungal infections associated with covid - 19[published]
		Dr.Vipin Sam Alexander	Mupirocin resistance in Staphylococcus aureus isolates among patients admitted to a tertiary care hospital [ongoing]
		Dr. Harsha S Pillai	Microbiological profile of chronic rhinosinusitis in a tertiary care centre in Kerala [ongoing]
		Dr. Linu Rajeev (JR)	Bacteriological profile and anti biogram of isolates causing blood stream infection in children [Published]
		Dr. Geethanjali Mohandas	Characterisation of Enterococci and its antibiogram including vancomycin resistant Enterococci[ongoing]
		Dr.Jyothi. K Nair	Mycological profile of clinically suspected Chromoblastomycosis.[ongoing]
		Dr Sana Rose Sunny	Comparison of TRUENAT MTB with AFB culture for detection of Mycobacterium tuberculosis[ongoing]
		Dr.Unnikrishnan K	Characterization and antifungal susceptibility pattern of non albicans Candida species isolated from clinical samples[ongoing]
		Dr. Niny Mathew	Microbiological profile and antibiotic susceptibility pattern of bacterial isolates from catheter related blood stream infection in haemo dialysis patients[ongoing]

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4	Innovations in health (new technologies, methods, approaches)	Nil
5	Recognition & Awards (National & International)	1.Participation certificate - External quality assessment scheme 2023
6	Workshops, Conferences, CMEs	<p>1.Sepsis updates on world sepsis day 13th sep 2023</p> 

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ACHIEVEMENTS REPORT- 2024

Sl. NO	Title	Description of the project/activity/achievements/programs
1.	Achievements & Best Practices	<p>1. Occupational Safety Programme- Staff Vaccination The HIC team coordinated and provided free HBV vaccines to all supporting staff</p> <p>2. AWaRe based prescriptions guiding antimicrobial stewardship in Pediatric department held on 17.01.2024.</p> <p>2. Implementation of AWaRe based reporting as a part of World Antimicrobial resistance Awareness week 2024</p> <div style="text-align: center;">  <p>AWaRe based reporting : Session taken by Dr Harsha S Pillai at HICC meeting</p> </div>

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2	Information, Education & Communication activities (Public health awareness programs)	<p>World Antimicrobial resistance Awareness Week Programs (18th to 24th November, 2024)</p> <p>1. Flash mob and skit highlighting the “Dos & Don’ts” in Antimicrobial usage is presented by students of DMLT,2023 batch and Junior residents, Department of Microbiology.</p>  <p>2.Public awareness talk- Talk on antimicrobial resistance, its causes and implications was delivered by Dr. Sreekumary P.K., Professor and head, Department of Microbiology, Dr.Nisha Majeed, Assistant Professor, Department of Microbiology and Chief nursing officer.</p>   <p>3.Distribution of pamphlets -A pamphlets describing the mechanisms of developing antimicrobial resistance and methods to prevent it was distributed among patients and bystanders who attended the awareness program</p>
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4. Poster competition for MBBS students.

An e-poster competition was organised among students of Phase II MBBS,2023 Batch.



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3	Research activities (ongoing & completed projects)	<ol style="list-style-type: none"> 1. Mupirocin Resistance In Staphylococcus aureus Isolates Among Patients Admitted To A Tertiary Care Hospital- Dr Vipin Sam, Dr Sreekumary P K- (Completed ,submitted for publication.) 2. A case series of Melioidosis: underdiagnosed entity in Kerala. Dr. Shanimole P.E (Published) 3. Next generation sequencing based comparative analysis of clinical and livestock multidrug resistant pathogens for identification of antimicrobial resistance gene flux in Kerala - Dr Nimmy Paul (Published) 4. Molecular characterization and antimicrobial susceptibility profile of H.pylori isolated in gastroduodenal disease in Kerala - Dr Nimmy Paul (ongoing) 5. Bacteremia among chronic kidney disease patients on hemodialysis from a tertiary care centre in Kerala- Dr Nisha Majeed (Ongoing) 6. Bacteremia among chronic kidney disease patients on hemodialysis from a tertiary care centre in Kerala- Dr.Soumya Rani R (Ongoing) 7. In Vitro Activity Of Ceftazidime–Avibactam Against Clinical Isolates Of Carbapenem Resistant Enterobacterales[CRE] And Pseudomonas aeruginosa.- Dr.Jithu K Mathew (ongoing) 8. Charecterisation Of Enterococci And Its Antibigram Including Vancomycin Resistant Enterococi- Dr Geethanjali (Completed) 9. Mycological Profile Of Clinically Suspected Chromoblastomycosis. Dr.Jyothi. K Nair. (Completed) 10. Comparison Of Truenat Mtb With Afb Culture For Detection Of Mycobacterium Tuberculosis- Dr Sana Rose Sunny(Completed) 11. Characterization And Antifungal Susceptibility Pattern Of Non Albicans Candida Species Isolated From Clinical
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		<p>Samples Dr.Unnikrishnan K (Ongoing)</p> <p>12. Prevalence of ESBL producing Enterobacteriaceae from urinary isolates in a tertiary care centre- Dr Abhishek S (Ongoing)</p> <p>13. Antimicrobial susceptibility of aerobic bacterial isolates causing middle ear infection in a tertiary care centre- Dr Jithin Sajeew (Ongoing)</p>
4	Innovations in health (new technologies, methods, approaches)	Nil
5	Recognition & Awards (National & International)	Nil
6	Workshops, Conferences, CMEs	Nil

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ACHIEVEMENTS REPORT- 2025

Sl. No	Title	Description of the project/activity/achievements/programs
1	Achievements & Best Practices	<p>❖ Internal Audit and Quality management system training – Jan 28-31- Attended by 51 delegates</p>   <p>❖ Lab Manual submission- 2nd April</p> 

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❖ KUHS inspection- 2nd April 2025



2 Information, Education & Communication activities (Public health awareness programs)

- Internal Audit and Quality management system training – Jan 28-31
: Attended by 51 delegates



- Hand hygiene day observation: May 5th
Poster competition

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- Awareness on antimicrobial policy at Department of General Surgery



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3	Research activities (ongoing & completed projects)	<ol style="list-style-type: none"> 1. Mupirocin Resistance In Staphylococcus aureus Isolates Among Patients Admitted To A Tertiary Care Hospital- Dr Vipin Sam, Dr Sreekumary P K- (Completed ,submitted for publication.) 2. Bacteremia among chronic kidney disease patients on hemodialysis from a tertiary care centre in Kerala- Dr Nisha Majeed (Ongoing) 3. Bacteremia among chronic kidney disease patients on hemodialysis from a tertiary care centre in Kerala- Dr.Soumya Rani R (Ongoing) 4. In Vitro Activity Of Ceftazidime–Avibactam Against Clinical Isolates Of Carbapenem Resistant Enterobacterales[CRE] And Pseudomonas aeruginosa.- Dr.Jithu K Mathew (ongoing) 5. Mycological Profile Of Clinically Suspected Chromoblastomycosis. Dr.Jyothi. K Nair. (Completed) 6. Comparison Of Truenat Mtb With Afb Culture For Detection Of Mycobacterium Tuberculosis- Dr Sana Rose Sunny(Completed)

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		<p>7. Characterization And Antifungal Susceptibility Pattern Of Non Albicans Candida Species Isolated From Clinical Samples Dr.Unnikrishnan K (Completed)</p> <p>8. Microbiological profile and antibiotic susceptibility pattern of bacterial isolates from Catheter Related Bloodstream infections in hemodialysis patients- Dr Niny (completed)</p> <p>9. Prevalence of ESBL producing Enterobacteriaceae from urinary isolates in a tertiary care centre- Dr Abhishek S (Ongoing)</p> <p>10. Antimicrobial susceptibility of aerobic bacterial isolates causing middle ear infection in a tertiary care centre- Dr Jithin Sajeev (Ongoing)</p>
4	Innovations in health (new technologies, methods, approaches)	

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5	Recognition & Awards (National & International)	<p>❖ Research day presentation Thesis presentation – First runner up Dr Sana Rose Sunny (Senior resident, Microbiology)- ‘Comparison of Truenat MTB and AFB culture for detection of Mycobacterium tuberculosis’.</p> 
6	Workshops, Conferences, CMEs	<p>Hands onworkshop Malaria- Diagnosis by smear microscopy held on April 28, 2025</p> 

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