

Special Interest Group

On Antimicrobial Resistance (AMR)



An Initiative
of
Research Division

JSS AHER, Mysuru-15



Dr Deepashree R
Assistant Professor,
Department of Microbiology,
JSS Medical College,
JSS AHER, Mysuru

Started on 2023-24

JSS AHER/REG/RES/SIG/AR/664/2023-24 / 14584

Date: 12.03.2024.

NOTIFICATION

Sub: Constitution of Special Interest Group in “Antimicrobial Resistance.”

In exercise of powers conferred under Section 50 (xxii) and 12 [xi (a)] of the MOA/Rules of JSS Academy of Higher Education & Research as per UGC Regulations 2016, the Special Interest Group (SIG) in the area of “Antimicrobial Resistance” has been constituted for focusing on basic and applied research in the mentioned area with the following members:

Sl. No.	Name of the proposed members	Remarks
01	Dr. Deepashree R Assistant Professor Dept of Microbiology JSS Medical College, Mysuru	Group Leader
02	Dr. Tejashree A Professor & Head Dept of Microbiology JSS Medical College, Mysuru	Member
03	Dr. M Raghavendra Rao Associate Professor Dept of Microbiology JSS Medical College, Mysuru	Member
04	Dr. Sri Harsha Chalasani Assistant Professor Dept of Pharmacy Practice JSS College of Pharmacy, Mysuru	Member
05	Dr. Venu D Senior Resident Dept of Pharmacology JSS Medical College, Mysuru	Member
06	Dr. Shwethashree M Assistant Professor Dept of Community Medicine JSS Medical College, Mysuru	Member
07	Dr. Shilpa Avarebeel Associate Professor Dept of Geriatric Medicine, JSS Medical College, Mysuru	Member
08	Dr. Deepti Thandaweshwara Assistant Professor Dept of Paediatrics JSS Medical College, Mysuru	Member

(P.T.O)

09	Dr. Archer Ann Catherine Assistant Professor Dept of Microbiology JSS AHER	Member
10	Dr. Ramith Ramu Assistant Professor Dept of Biotechnology & Bioinformatics JSS AHER	Member
11	Dr. Chandan S Dy, Dean (Research) & Associate Professor Dept of Biotechnology & Bioinformatics JSS AHER	Member
12	Dr. Shivasharanappa N Ph.D. Fullbright Scholar Senior Scientist (Veterinary Pathology) Agricultural Research Service (ARS) ICAR-National Institute of Veterinary Epidemiology and Disease informatics (NIVEDI) Ramagondanahalli, PBNo. 6450, Yelahanka Bengaluru	External Member
13	Dr. Apurba S Sastry Infection controller Officer Antimicrobial Stewardship Lead Additional Professor Microbiology JIPMER, Pondicherry (India)	External Member

The SIG "Antimicrobial Resistance" shall function for a period of three years from the date of Notification.

The SIG shall submit their report once in six months to the JSS AHER. The budget for the functioning shall be submitted by the Group leader of the SIG and approval shall be obtained from JSS AHER for carrying out their various activities.


REGISTRAR

To,

All the above members,

Copy to,

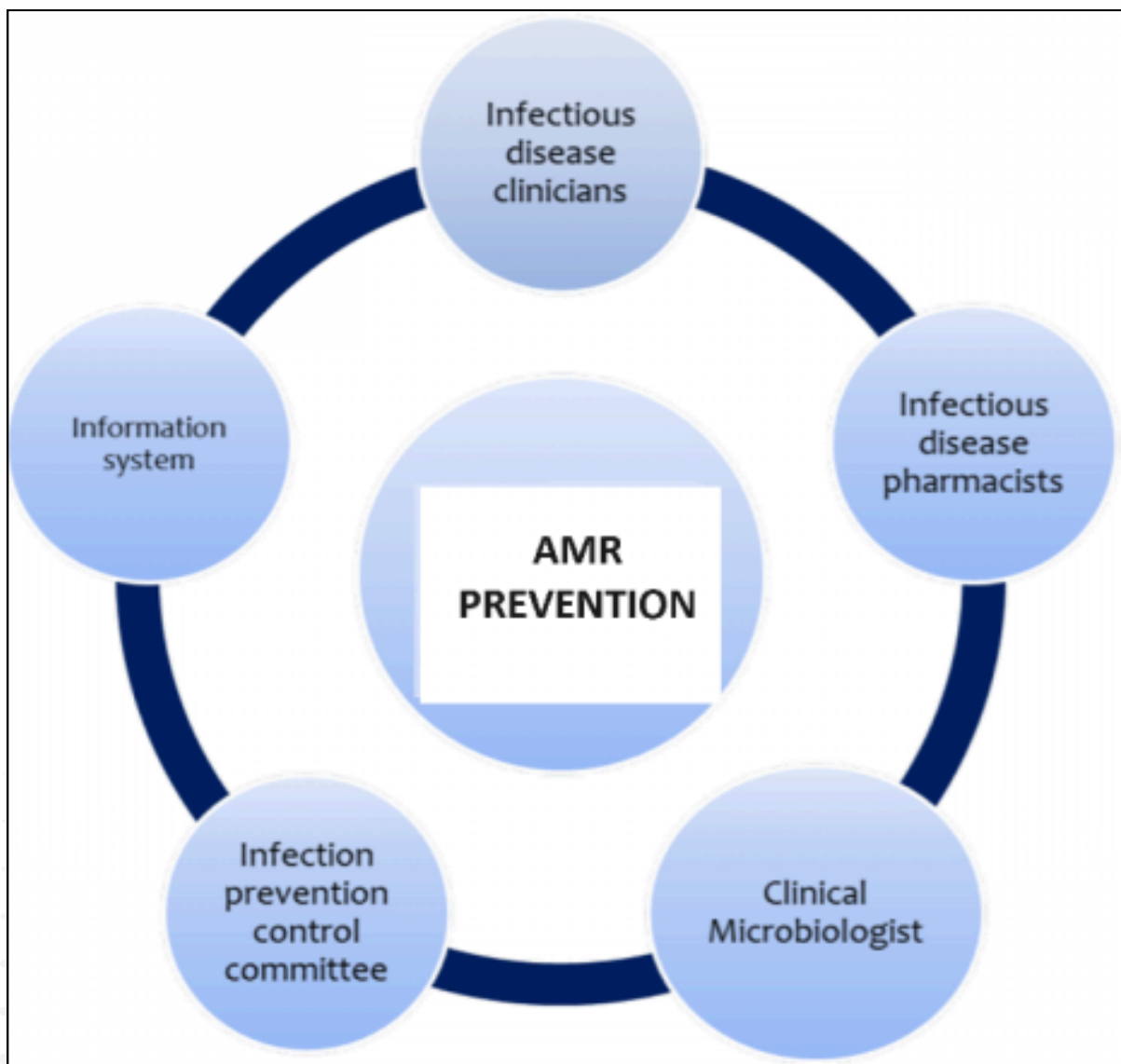
1. The Vice Chancellor, JSS AHER.
2. The Finance Officer, JSS AHER
3. The Dean (Research), JSS AHER.
4. The Dy. Deans (Research), JSS AHER.
5. The Principal, JSS Medical College, Mysuru
6. The Head, Dept of Microbiology, JSS Medical College, Mysuru
7. Dr. Deepashree R, Assistant Professor, Dept of Microbiology, JSS Medical College, Mysuru
8. Office Copy

Name of the SIG: Antimicrobial Resistance (AMR)

Approval Reference:JSS AHER/REG/RES/SIG/AR/664/2023-24/14584 DATED 12.03.2024

Team Lead: Dr. Deepashree R

ANTIMICROBIAL RESISTANCE (AMR)



Member

1.	Dr. Deepashree R, Assistant Professor, Dept. of Microbiology, JSS Medical College	Team Leader
2.	Dr. Tejashree A, Professor and Head, Dept. of Microbiology, JSS Medical College	Member
3.	Dr. Raghavendra Rao, Associate Professor Dept. of Microbiology, JSS Medical College	Member
4.	Dr. Sri Harsha Chalasani, Assistant Professor, Dept. of Pharmacy, JSS Pharmacy College, Mysuru	Member
5.	Dr. Venu D, Senior Resident, Dept. of Pharmacology, JSS Medical College, Mysuru	Member
6.	Dr. Shwethashree M, Assistant Professor, Dept. of Community Medicine, JSS Medical College	Member
7.	Dr. Shilpa Avarebeel, Associate Professor Dept. of Medicine, JSS Medical College	Member
8.	Dr. Deepthi Thandaweshwara, Assistant Professor, Dept. of Paediatrics, JSS Medical College	Member
9.	Dr. Archer Ann Catherine, Assistant Professor, Dept. of Microbiology JSS Life Sciences	Member
10.	Dr. Ramith Ramu, Assistant Professor, Dept. of Biotechnology & Bioinformatics, JSS Life Sciences	Member
11.	Dr Chandan S, Associate Professor, Dept. of Biotechnology & Bioinformatics, JSS Life Sciences	Member

12.	Dr. Annalisa Dr. Annalisa Tirella, Professor, Division of Pharmacy and Optometry, University of Manchester. UK.	External Member
13.	Assistant Professor, Department of Industrial Engineering University of Trento, Via Sommarive, 9 - 38123 PovoItaly	External Member
14.	Dr. MS Thakur, Former Scientist, CSIR- CFTRI	Special Invitee

Advisory Board Members

1.	Dr. Shivasharanappa N. Ph.D, Fulbright Scholar (USA) Senior Scientist (Veterinary Pathology), Agricultural Research Service (ARS)ICAR-National Institute of Veterinary Epidemiology and Disease Informatics (NIVEDI)Ramagondanahalli, PBNo-6450, Yelahanka, Bengaluru-560064, Karnataka, India	External Advisory Member
2.	DR APURBA S SASTRY, Infection Control Officer, Officer In-charge HICC, Antimicrobial Stewardship Lead, Additional Professor Microbiology, JIPMER, Pondicherry (India)	External Advisory Member

Background/ Context

Globally, antimicrobial resistance (AMR) claims 7 million lives yearly, and India, the 'AMR capital,' ranks first in human antibiotics consumption. Drug susceptibility data reveal AMR emergence in various pathogens, including MDR gram-negative strains resistant to last-resort antibiotics. Challenges include inadequate clinical usage data, antimicrobial pharmacovigilance gaps, lax infection control, and limited public awareness. The multi-faceted problem demands a One-Health approach, integrating human, animal, and environmental data to address infectious agents and drug-resistant organisms.

About SIG

Our SIG consists of faculty from the Department of Microbiology, Pharmacology, Pediatrics, Gediatics and Community Medicine, JSS Medical College; Department of Pharmacy, JSS Pharmacy College, Mysuru & Dept. of Microbiology and Bioinformatics, JSS Life Sciences.

AMR SIG emphasizes on

1. Augmenting antimicrobial stewardship activities to understand the structure of antibiotic usage and also plan prevention activities
2. To optimize clinical microbiology diagnostic stewardship
3. To augment AMR surveillance data collection with a deep understanding of antibiotic usage in JSS Hospital and also extend the same to the Mysore district (involving corporate hospital to submit AMR data)
4. To explore AMR data surveillance from the Veterinary sector in terms of understanding antibiotic usage and extending diagnostic services.
5. To explore AMR data surveillance from environmental sources by JSS life sciences faculty.
6. Integrate the data from human, veterinary, and environmental sectors – to achieve One Health.
7. To extend educational activities to the public on the importance of curbing AMR
8. To explore opportunities for education of dispensing pharmacies to prevent over-the-counter sale of antibiotics.

Mission

The mission of AMR Warriors Network is to unite stakeholders in a collective endeavor to combat antimicrobial resistance, embracing a One Health approach for a comprehensive and interconnected strategy.

Vision

To develop a model special interest group dedicated to collective efforts aimed at significantly reducing the burden of Antimicrobial Resistance

Goal

The goal of this SIG is to equip relevant professionals with a profound understanding and practical insights into the preventive and educational aspects of combating Antimicrobial Resistance (AMR).

Objectives

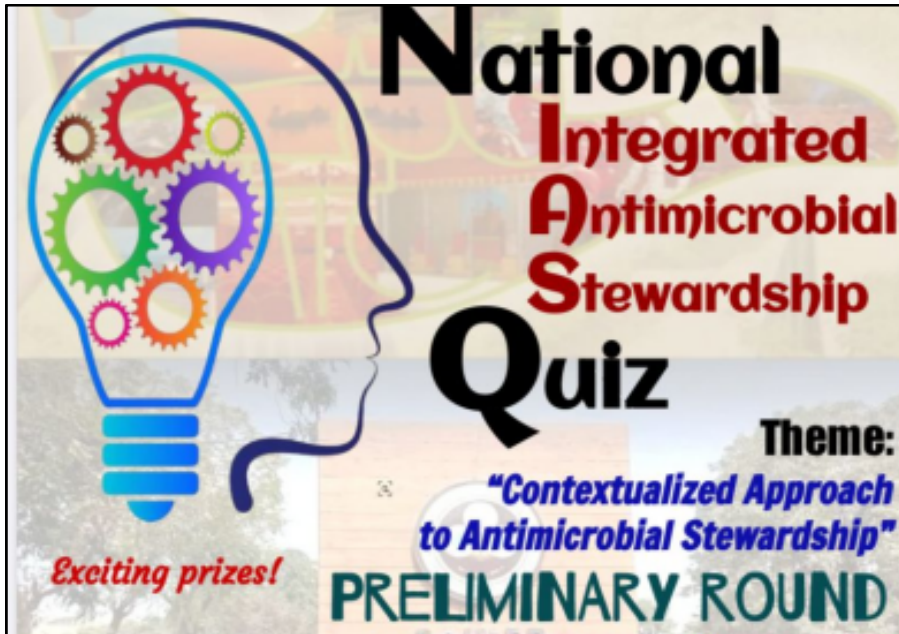
1. To assemble a multidisciplinary research team comprising clinicians, laboratory personnel, basic scientists, and prevention specialists with the collective objective of identifying effective strategies to prevent AMR.
2. To effectively understand prescription practices and antibiotic usage at JSS Hospital and to strengthen the AMSP network.
3. To collaborate with the veterinary sector and explore options for antibiotic usage and resistance.
4. To explore AMR data in the environmental sector by collaborating with JSS Life Sciences, Mysore University, Environmental Sciences Division.
5. To optimize diagnostic services to strengthen diagnostic stewardship.
6. To educate the public, including drug dispensers, on the importance of AMR and devise measures to curb over-the-counter sales of antibiotics.

7. To explore data management and data cleaning of presently available clinical material and develop AI models as a step to identify problems in the implementation of AMSP.

Activities Conducted

- On April 6th, SIG-AMR and Dept of Microbiology conducted a preliminary Round Quiz titled - “Contextualised Approach to Antimicrobial Stewardship” organized by PGIMER Chandigarh in collaboration with the Society for Antimicrobial Stewardship Practices in India (SASPI).
- This quiz program was Coordinated by Dr Deepashree R, Asst Prof, Dept of Microbiology and Foundation member of SASPI and SIG – Group leader AMR.
- 7 teams participated in the event and Team 3, Dr Bhargav, PG Dept of Pulmonology and Dr Deepa, PG, Dept of Pharmacology secured the highest marks in prelim rounds and they will be representing JSS Medical College in the Final Round conducted, in PGI Chandigarh during ASPICON 2024.





National Integrated Antimicrobial Stewardship Quiz
Theme: "Contextualized Approach to Antimicrobial Stewardship"
Exciting prizes!
PRELIMINARY ROUND

Contextualized Approach to Antimicrobial Stewardship – Society for Antimicrobial Stewardship


QUIZ TEAMS

Quiz Co-Ordinator – Dr Deepashree R (Asst Prof, Dept of Microbiology & Foundation member of Society for Antimicrobial Stewardship)

Team No.	Name	Designation	Department	Group Leaders	Results
1	Dr Meruthula G R	JR	Pediatrics	Dr Meruthula G R	
	Dr Ajay Dileep	JR	Pediatrics		
	Dr Rabbani	JR	Pediatrics		
2	Dr Shreya Nair	JR	Pediatrics	Dr Shreya Nair	
	Dr M Ayesha Ratna	JR	Pediatrics		
	Dr Shivani R Kundur	JR	Pediatrics		
3	Dr Deepa	JR	Pharmacology	Dr Deepa	FIRST PLACE
	Dr Bhargav	JR	Pulmonology		
4	Dr Preetika	SR	Microbiology	Dr Preetika	SECOND PLACE
	Dr Nikita	JR	Microbiology		
	Dr Rachitha	JR	Pharmacology		
5	Dr Venu D	SR	Pharmacology	Dr Venu D	
	Dr Sugandh	JR	Dermatology		
	Dr Harish	JR	Pharmacology		
6	Dr Mirza Asgar	JR	General Medicine	Dr Mirza Asgar	THIRD PLACE
	Dr Varun	JR	General Medicine		
	Dr Bharanitha	JR	Pharmacology		
7	Dr Tanmay	JR	General Medicine	Dr Tanmay	
	Dr Prudhveer	JR	General Medicine		
	Dr Akshaya	JR	Microbiology		

- Workshop Cum Symposium on AMR in One Health: Collaborative Strategies from Veterinary and Clinical Experts

Special Interest group AMR and Department of Microbiology had organized a symposium cum workshop on 22nd June, 2024 on topic AMR in One Health: Collaborative Strategies from Veterinary and Clinical Experts. The chief speaker of the session was Dr. Shivasharanappa N, Ph.D, Fulbright Scholar (USA), Senior Scientist ICAR-National Institute of Veterinary Epidemiology and Disease Informatics (NIVEDI), Bangalore. This first SIG-AMR event was inaugurated by the chief speaker Dr Shivasharanappa N; Dr. H Basavanagowdappa, Principal, JSS Medical College; Dr. Madhu C P, Medical Superintendent, JSS Hospital, Dr Prashanth Vishwanath, Dean (Research), JSS AHER and Dr Tejashree A, Prof and Head, dept of Microbiology. The sessions were attended by SIG members, faculty of various departments and students.



With The Divine Blessings of His Holiness
H.H. Jagadguru Sri Shivarathri Deshikendra Mahaswamiji
Jagadguru Sri Veerasimhasana Mahasamsthana Math, Sri Suttur Kshetra

JSS ACADEMY OF HIGHER EDUCATION & RESEARCH
(DEEMED TO BE UNIVERSITY) Accredited 'A+' Grade by NAAC

JSS MEDICAL COLLEGE

Special Interest Group – AMR
&
Dept of Microbiology
is organizing a Workshop Cum Symposium on

**AMR in One Health:
Collaborative Strategies from
Veterinary and Clinical Experts**

On 22nd June, Saturday (10.30 AM – 12.30 PM)
Telemedicine Room, 5th Floor, JSS Hospital

Guest Speaker
Dr. Shivasharanappa N. Ph.D, Fulbright Scholar (USA)
Senior Scientist
ICAR-National Institute of Veterinary Epidemiology and
Disease Informatics (NIVEDI), Bangalore

Chief Guests
Dr. H Basavanagowdappa
Principal, JSS Medical College


Dr. Madhu C P
Medical Superintendent, JSS Hospital

Dr Prashanth Vishwanath
Dean (Research), JSS AHER

Program Schedule

Proceedings	Speaker	Time
Brief Inauguration	By Guests	10.30 AM – 10.45 AM
Introductory Note	Dr Tejashree A	10.45 AM – 10.50 AM
AMR Dynamics in Veterinary Medicine: Current Challenges and Future Directions	Dr. Shivasharanappa N	10.50 AM- 11.30 AM
AMR data of JSS Hospital	Dr Deepashree R	11.30 AM – 11.45 AM
Changing trend of AMR – Lab physician perspective	Dr Raghavendra Rao	11.45 AM – 12.00 PM
Changing trend of AMR – Clinicians perspective	Dr Shilpa Avarebeel	12.00 PM – 12.15 PM
Open House discussion – Future directions for collaborations	Audience	12.15 PM – 12.30 PM

*Dept visit followed by Lunch @12.30 PM






Workshop Cum Symposium on AMR in One Health: Collaborative Strategies from Veterinary and Clinical Experts

- **MASTERING AMR DETECTION: CLSI 2024 UPDATES MADE SIMPLE - A Hands-on workshop for Clinical Microbiologists**

Department of Microbiology and Special Interest group AMR had organized a workshop on 19th and 20th July on topic Mastering AMR Detection: CLSI 2024 Updates Made Simple, for young clinical Microbiologists. We had enthusiastic participants all over India during this academic journey. We had inauguration for the workshop on July 19th Morning and the occasion was graced by the chief guest, Dr. H Basavanagowdappa, I/C Vice Chancellor, Principal, JSS Medical College; Dr Manjunatha B, Registrar, JSSAHER; Dr. Madhu C P, I/C, Director and Medical Superintendent, JSS Hospital; Dr Manthappa M, Vice Principal, Clinical, Dr Tejashree A, Prof and Head & Dr Sumana M N, Professor, Dept of Microbiology. We had interactive sessions on the first half of 19th morning conducted by resource persons, faculty Dept of Microbiology and afternoon we had Hands-on clinical AMR detection methods. On July 20th morning, Quiz was conducted for postgraduates participants and it was coordinated by Dr Vidyavathi BC and Dr Sujatha S R, Assistant Professors, Dept of Microbiology and Three cash prizes was given for the

winners. Dr Sujatha S R, Assistant Professors, Dept. of Microbiology and Three cash prizes was given for the winners. We had a guest talk from a Biomerieux resource faculty, Dr Huda Syed Ali and followed by which we had clinical case discussion conducted by Dr Sumana M N, Professor, Dept. of Microbiology. Workshop was concluded with a valedictory function and certificate distribution was done for the participants, resource persons and volunteers.



With The Divine Blessings of His Holiness
Jagadguru Sri Shivarathri Deshikendra Mahaswamiji
Jagadguru Sri Veerasimhasana Mahasamsthana Math, Sri Suttur Kshetra


JSS ACADEMY OF HIGHER EDUCATION & RESEARCH
(DEEMED TO BE UNIVERSITY) Accredited 'A+' Grade by NAAC

JSS MEDICAL COLLEGE
Department of Microbiology
&
Special Interest Group - AMR
is organizing

**MASTERING AMR DETECTION:
CLSI 2024 UPDATES MADE SIMPLE**
A Hands on workshop for Clinical Microbiologists
On 19th and 20th July, Telemedicine Room, 5th Floor, JSS Hospital, Mysuru

Inauguration at 10AM, 19th July

Chief Guest	Dr. H Basavana Gowdappa I/C Vice Chancellor and Principal JSS Medical College
Guest of Honour	Dr Manjunatha B Registrar, JSSAHER
Dignitaries	Dr C P Madhu In-charge Director & Medical Superintendent, JSS Hospital
	Dr Suma M N Vice Principal, Pre-clinical
	Dr Praveen Kulkarni Vice Principal, Para-clinical
	Dr Manthappa M Vice Principal, Clinical
	Registrar, JSSAHER
Dignitaries	Dr C P Madhu In-charge Director & Medical Superintendent, JSS Hospital
	Dr Suma M N Vice Principal, Pre-clinical
	Dr Praveen Kulkarni Vice Principal, Para-clinical
	Dr Manthappa M Vice Principal, Clinical



Organizing Chairman
Dr Tejashree A
Prof and Head, Dept of Microbiology, JSSMC

Scientific committee
Dr Sumana M N
Dr Rashmi P Mahale
Dr Sowmya G S
Dr Ranjitha Shankaregowda
Dr Vidyavathi B C
Dr Sujatha S R
Dr Neetha Murthy
Dr Preethika Ravi
Dr Sathya Badveti
Mr Vinay Vasimalli
Mr Yogeesh M

Special Interest Group Co-coordinators
Dr Raghavendra Rao
Associate Professor, Dept of Microbiology, JSSMC

Dr Deepashree R
Assistant Professor, Dept of Microbiology, JSSMC

Associate Professor, Dept of Microbiology, JSSMC

Dr Deepashree R
Assistant Professor, Dept of Microbiology, JSSMC



MASTERING AMR DETECTION: CLSI 2024 UPDATES MADE SIMPLE - A Hands-on workshop for Clinical Microbiologists