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JOURNAL OF INDIAN ACADEMY OF FORENSIC MEDICINE

EDITORIAL OFFICE Governing Council (2022- 2025) Reg. No. 349

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Professor & Head, BKL Walwalkar Rural Medical College Chiplun Ratnagiri

We value your inputs, as our esteemed **Reviewer** for taking out time to critically appraise and help us bring the best in time. We really appreciate the contribution you made in carrying the journal forward and uplifting the standards.

Thanks for your kind support

RES

Huyaw Prof. Dr. Manish Nigam

Editor JIAFM







2024

5th Annual Conference of Vidarbha Association of Medical Microbiologists "One Health: Time to Collaborate, Communicate, and Coordinate" Datta Meghe Medical College Nagpur

DR. YOGENDRA SHELKE SPEAKER

Dr. Ujwal Gajbe Organieng Chaleperson Dr. Brij Raj Singh Ce Organising Chairperson Dr. Gargi Mudey Organising Secretary

Dr. Rajendra Surpam President, VAMM Dr. Nandkishor Bankar Becretary, VAMM







2024

5th Annual Conference of Vidarbha Association of Medical Microbiologists "One Health: Time to Collaborate, Communicate, and Coordinate" Datta Meghe Medical College Nagpur

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is an **E-Associate Member** of Global Academy of Forensic and Investigative Medicine and Sciences (GLAFIMS) with effect from January 1, 2024 to December 31, 2024. His/her correspondence email is avinashw4@gmail.com . GLAFIMS is an INGOs registered with Union des Associations Internationales, Brussels, Belgium [Registration No-RA3108]

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Claiter

Dr Chaitanya Mittal General Secretary, GLAFIMS INDIA

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Dr. Ashok Kumar Bhardwaj Chairperson National Task Force



Dr. Rajendra P Joshi Deputy Director General - TB Central TB Division (CTD), MoH&FW, Govt. of India

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	Sree Gokulam Medical College & Research Foundation Venjaramoodu, Thiruvananthapuram Department of Anatomy SPES NOVA – 2024 (Tertificate
This is to a SPES NO held on 24 He / She h He / She is	ertify that Dr/Mr/Ms/Mrs. PUSHPA BURUTE has attended OX - 2024, NATIONAL LEVEL CME on Recent Advances in Technologies Teaching Anatomy th February 2024. ias also Delivered a guest lecture Chaired a scientific session Presented a scientific session Presented a scientific atticle as a poster redgible for 2.5 CME Credit hours granted by Kerafa State Medical Connect of Modern Medicine (No.CG/003237/2024/MC/CME dated 09.02.2024) Tr.Mamata Chimmaigi Organizing Internation











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in grateful acknowledgement of his distinguished and invaluable service rendered as SPEAKER IN GUEST LECTURE HELD ON DATE-15th February 2024

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Dr. Gargi Mudey Professor & Head Department of Microbiology JNMC, Sawangi (Meghe)

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महाराष्ट्र राज्य एड्स नियंत्रण संस्था, मुंबई

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75th Annual National Conference of Indian Psychiatric Society 2024

ANCIPS 2024



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2024) held at Kochi, Kerala from 18th - 21st January, 2024.

Dr. Vinay Kumar President IPS

Harry Direl

Dr. Arabinda Brahma Secretary IPS

ampartic participation

Dr. P Joseph Varghese Organizing Chairman

Awar Vinut

Organizing Secretary **Dr. Anoop Vincent**





ANCIPS 2024

Theme: Psychiatric Care: Problems, Progress & Prospects Organized by Indian Psychiatric Society Cochin Local Branch

Certificate of Participation

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has participated as a DELEGATE in the75th Annual National Conference of Indian Psychiatric Society 2024 (ANCIPS 2024) held at Kochi, Kerala from 18th - 21# January, 2024. ..Dr. Kumari Padma.... **********************

for this CME vide its Order No: C 6-00073/2024/MC/CME dated 10-01-2024 The Kerala State Medical Council has granted 6 CME credit hours

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> Dr. P Joseph Varghese Phyle baylong

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Dr. Vinay Kumar President IPS F





CERTIFICATE

Of Achievement This certificate is proudly presented to



Dr. Prashant Moolya

for participating as Faculty in MISSION SPINE MENTORING Workshop at DERVAN between 11 to 21 January 2024. This included didactic talks, cadaver dissection and surgery, and live surgery demonstrations of transforaminal Endoscopy for lumbar spine.











Dr. Satishchandra Gore

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Dr. Sunil Nadkarni

Dr. Prashant Moolya

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Date 4/01/2024

Certificate of Attendance To whomsoever it may concern

This is to certify that **Dr. Avinash Harishchandra Waghmode**, Professor & Head, Department of Forensic Medicine from BKL Walawalkar Rural Medical College, Chiplun, Ratnagiri has completed the one year 11th NMC Advance Course in Medical Education (ACME_2021A) from August 2021 – August 2022 and presented an e-poster Educational Research Project titled **"Knowledge, Attitude and Perception of Medical Ethics among Medical Practitioners: A cross sectional study"**, under NMC Nodal Centre for National Faculty Development, Jawaharlal Nehru Medical College, Sawangi (Meghe), Wardha.

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Emergence of Antimicrobial resistance among ESKAPE pathogens: A concern for rural & remote coastline of Maharashtra



Presenting Author: Dr Yogendra Shelke¹, Co-Author Dr Prasanna Nakate¹, Dr S.N Patil², Miss. Siddhi Jogale³ Dr. Rohit Sapare⁴

Presenting author 1 & co-authors1,2,3 : B.K.L WALAWALKAR RUARL MEDICAL COLLEGE DERVAN TAL CHIPLUN DIST RATNAGIRI

4: Department of Microbiology ,SMBT IMS & RC, Dhamangaon, Nashik

Abstract

Background:

AMR is a problem worldwide, but is particularly worrying in India, where hospital standards are inconsistent and antibiotics are readily available over the counter at pharmacies. To tackle AMR most of activities related surveillance, diagnosis, awareness & containment are predominantly focused in urban area. Still rural area remains overlooked. ESKAPE Pathogens are the group of priority microorganism having inherent tendency to develop drug resistance & difficult to treat infections due to them become current eras major concern in rural as well as urban health care setups.

Objective:

To estimate burden of ESKAPE Pathogens among culture isolates and study Antimicrobial resistance pattern in them.

Methods:

TOTAL ISOLATES IN	CLUDED IN STUDY	565 out of 1369 samples received	Different clinical s cultu 900 800
ESKAPE PATHOGEN	IS	194 (33.33%)	a b b c c c c c c c c c c
"NON ESKAPE "PAT	THOGENS	371 (66.66%)	400 300 200
Gram negative ESK	APE pathogens	112(57.73%)	
Gram positive ESK	APE pathogens	82(43.26%)	n=210)
DRUG	RESISTANCE AMONG ESKAPE PATHO	GENS	
Enterococcus species	Vancomycin Resistant Enterococci (VRE n=2/24)	2(8.33%)	TOTAL NUMBER RECEIVED 210
Staphylococcus aureus	Methicillin resistant Staphylococcus auerus MRSA (n=36/88)	36(36.66%)	CULTURE POSTIVE 47
Klebsiella pneumoniae	CARBAPENEMASE producing strains (n= 14/20)	14(70%)	Resistance trends aga ₈₀ Ģram Posi
Acinetobacter baumannii	CARBAPENEMASE producing strains (n= 11/11)	11(100%)	70% 60% 50%
Pseudomonas aeruginosa	CARBAPENEMASE & ESBL producing strains (n=14/36)	14(38.88%)	40% 30% 20%
Enterobacter species	CARBAPENEMASE,ESBL producing strains(n=7/14)	7(50%)	10% 0% 0% CX Staphylococcus aureus(n=88) 36% Enterococcus species(n=24) 42%

Results





A retrospective observational study carried out in tertiary care centre located in rural area. Required data for study is collected from records available at microbiology department & analyse with help of Microsoft Excel spread sheet.

Results:

During one year of study period records of 1369 various clinical samples were examined, 41% (565/1369) were found culture positive. Among overall 565 isolates 194 (33.33%) isolates belong to ESKAPE group. In this study among ESKAPE pathogens in Staphylococcus aureus prevalence of Methicillin resistant Staphylococcus auerus (MRSA) was 36.66% & Prevalence of VRE was 8.33%. Among gram negative ESKAPE pathogens, Acinetobactor baumanni found as most resistant pathogen all isolates produces carbapenemase enzyme & shows resistance towards most of the commonly used antibiotics. Other isolates like Pseudomonas aeruginosa, Klebsiella Pneumoniae, Acinetobacter baumannii & Enterobacter species were having strains which capable to produce enzymes like carbapenmase,ESBL.

Conclusion

In our study considerable burden of ESKAPE pathogen was reported amongst culture isolates with slight gram negative ESKAPE pathogen predominance. Surprisingly near about all Acinetobacter baumannii strains showed highest degree of drug resistance against most of the antimicrobial agents. Among Gram positive ESKAPE pathogen significant number of MRSA & VRE strains isolated. These finding help us to update and strengthen our AMR policy and focus on Hospital infection control measures to prevent probable outbreaks. Also implicate need of multicentre study and awareness drive in various lower strata of health care systems in rural area about AMR containment strategies, appropriate use of antimicrobial agents & concept of antimicrobial stewardship

Objectives

 To estimate burden of ESKAPE pathogens among culture isolates obtained from





TABLE 1: SUMMARY OF STUDY





Chart no 3 : *Resistogram* of Gram Positive ESKAPE pathogens





 To develop & analyse antimicrobial resistogram of ESKAPE Pathogens

 Enterococcus species Staphylococcus aureus 	ATIVE ESKAPE OGENS	 Acinetobacter sepcies Pseudomonas aerugin Enterobacter species
	GRAM NEG	

Background

Antimicrobial Resistance (AMR) is become global phenomenon. New resistance mechanisms are emerging amongst microorganisms, spreading worldwide. Yearly more than 700,000 deaths are associated with AMR. It is estimated that in the European Union (EU), in the year 2050, over 33,000 deaths will be caused by an antibiotic-resistant bacteria. ^{1,2}

It is a serious threat to global public health. The AMR is reaching at critical levels in countries like India also.^{3,4}

The impact of AMR is likely to be higher in the Indian setting. AMR is a major public health concern in India, its burden is observed equivalent both rural and urban settings.⁵

The WHO published a list of 12 families of bacteria as priority pathogens in 2017. The National Programme on "Containment of Antimicrobial Resistance" also focus on these priority pathogens incorporated them in surveillance under national AMR network in India also.^{6,7,8} Among these priority pathogens Enterococcus faecium, Staphylococcus aureus, Klebsiella pneumoniae, Acinetobacter baumannii,Pseudomonas aeruginosa, & Enterobacter species have been identified as especially dangerous due their virulence & inherent tendency to acquired drug resistance. These Six microbial species were known as ESKAPE pathogens.

Rice introduced the ESKAPE acronym in 2008 for the group of pathogens capable of escaping the bio-cidal action of antibiotics.⁹ The most serious, life-threatening infections caused by a group of drug-resistant bacteria are named as "ESKAPE" pathogens by the Infectious Diseases Society of America (IDSA).¹⁰

The emergence of AMR is not limited to the older and more frequently used classes of drugs. There has also been a rapid increase in resistance to the newer and more expensive drugs like carbapenems.¹¹

Chart no 1:% culture positivity

Chart no 4 : *Resistogram* of Gram Negative ESKAPE pathogens

Conclusion

There is not much published literature on AMR in ESKAPE pathogen available for the Konkan region of Maharashtra, western coastline of India. In this study, 33.33% ESKAPE pathogens estimated among culture positive cases with slight predominance of gram negative ESKAPE pathogens. Our study noted presence of significant antimicrobial resistance among ESKAPE group of organisms. It is observed that among Gramnegative ESKAPE Pathogens increase resistance and decrease susceptibility against recommended group antimicrobial agents; for instance in Acinetobacter baumanni isolates all of them emerged as "multidrug resistant strains".

Carbapenemase & ESBL producing strains in significant numbers are encountered among gram negative ESKAPE Pathogens, Emergence of VRE & MRSA isolates among gram positive ESKAPE Pathogens leads to worrisome situation. Appearance Multidrug resistant ESKAPE pathogens major concern in front of any health care set up as these pathogens when they were drug resistant limits treatment options & economically hampers infected individuals. Therefore this study is suggesting continuous monitoring & surveillance of such emerging "superbugs" in remote & rural belt of konkan region.

This study implicate that all required caution should be exercised through hospital infection control policy to halt this emergence and wide spread use of antibiotics should be avoided to minimize the potential development of multidrug and sometimes pan drug resistant pathogens. Antimicrobial use policy & infection control policy should be updated based on AMR report.

As this study is carried out in single tertiary care centre located in rural area which mainly received patients referred from lower healthcare setups and private health facilities. To generalised findings of this study, large scale multicentre study will be fruitful.

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Methods

This is a retrospective observational study required Data collected from Medical records & reports were obtained from records sections of Microbiology and hospital.

The bacterial isolates were identified by using classical bacteriology methods for microbial culture, on solid media agar-based, followed by identification and Antimicrobial Susceptibility Testing using Vitek 2 Compact. Data collection pertaining to isolates and records of ESKAPE bacteria were performed electronically as well as manually, in the records of laboratory information system (LIS).

Inclusion criteria: All different clinical samples received from various outpatient & inpatient departments were included in study and analysed.

Exclusion criteria: The Records of clinical samples with incomplete history and reports showing growth of probable contaminants were excluded.

All the reports fulfilling the above eligibility criteria were studied for achieving above aims and objective of this study.

Study Duration : 1 year (January 2019 to December 2019)

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Certificate No	Name of participant	Registration Number/Name of Medical Council where registered	Designation & Department including status as Dean/ Principal / MEU coordinator / CC Member	Name & address of college
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Certificate No	Name of participant	Registration Number/Name of Medical Council where registered	Designation & Dept.	Name & address of college
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005/BCME-2023/031	Dr. Mansingrao Naikrao Ghatage	MMC -53090	Dean & Professor, Department of General Surgery	B. K. L. Walawalkar Rural Medical College, Kasarwadi, Sawarde
005/BCME-2023/032	Dr. Arvind Shankarrao Yadav	NA	Professor, Department of Biochemistry	B. K. L. Walawalkar Rural Medical College, Kasarwadi, Sawarde
005/BCME-2023/033	Dr. Avinash Harishchandra Waghmode	MMC- 09/34758	Professor & HOD, Department of Forensic Medicine & Toxicology	B. K. L. Walawalkar Rural Medical College, Kasarwadi, Sawarde
005/BCME-2023/034	Dr. Sagar Subhash Nanaware	MMC- 2009/12/3841	Associate Professor, Department of General Medicine	B. K. L. Walawalkar Rural Medical College, Kasarwadi, Sawarde
005/BCME-2023/035	Dr. Jatin Vasudeo Badgujar	MMC- 2012/06/1743	Assistant Professor, Department of Orthopaedics	B. K. L. Walawalkar Rural Medical College, Kasarwadi, Sawarde
005/BCME-2023/048	Dr. Adwait Madhav Godse	MMC- 2005/10/3820	Assistant Professor, Department of Physiology	B. K. L. Walawalkar Rural Medical College, Kasarwadi, Sawarde





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Dr. Manoj V Murhekar Director and Scientist G ICMR - National Institute of Epidemiology Chennai, Tamilnadu, India







Online Certification Thís certífícate ís awarded to

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for successfully completing

Basic Course in Biomedical Research

As mandated by the National Medical Commission (NMC)

With a score of 66 % in Proctored Examination

December 24, 2023



Roll no: DEC24BCBRS2052311496



Raji Ball.



Secretary to Government of India, Department of Health Research and Director General, Indian Council of Medical Research, New Delhi, India

Pass criteria: \geq 50% in Proctored Examination





Dr. Rajiv Bahl





Dr. Manoj V Murhekar Director and Scientist G ICMR - National Institute of Epidemiology Chennai, Tamilnadu, India









AMITKUMAR VISHWASRAO BHALERAO

for successfully completing

Basic Course in Biomedical Research

As mandated by the National Medical Commission (NMC)

With a score of 75 % in Proctored Examination

December 03, 2023



Roll no: DEC03BCBRS2005862287



Raji Ball



Secretary to Government of India, Department of Health Research and Director General, Indian Council of Medical Research, New Delhi, India

Pass criteria: \geq 50% in Proctored Examination





Dr. Rajiv Bahl

Webinar Code - MMC/WEB/2022/F-016342



MMC/Accreditation/MED-0462/2021



Department of ENT In association with Department of Anatomy & Radiology THYROID BLIZZARD

CERTIFICATE

This is to certify that Dr.

Pushpa Burute

has participated in the CME conducted on

"THYROID BLIZZARD" on Dated 29/12/2022 at DMMC & SMHRC Wanadongri, Nagpur as Delegate. The CME has applied for 1 MMC Credit Point.

le ..

Cheif Guest Dr. Ujwal Gajbe Dean, DMMC, Nagpur

Organizing Chairman Dr Anand Hatgaonkar Professor & Head Radiology, DBASI, SMHRC, Nagpur



Organizing Secretary Dr. Sanika Kalambe Ghate Assistant Professor & HOD ENT Dept., DMMC, SMHRC, Nagpar



Organizing Co-Secretary Dr. Trupti Balwir Professor, Dept. of Anatomy DMMC, SMHRC, Nagpur

MMC Observer Dr. Anil C Laddhad Observer Code MMC/MA0-00113/2013



Date: 08,11,2023

ATTENDANCE CERTIFICATE

This is certify that Dr. Yogendra Pandurang Shelke, Associate Professor, Department of Microbiology, BKL Walawalkar Rural Medical College, Sawarde has attended as Centre Observer to conduct MUHS I MBBS Theory Winter examinations from 27-10-2023 to 08-11-2023 at SSPM Medical College and Lifetime Hospital Padve, Sindhudurg, Maharashtra.



DEAN SSPM Medical College & Lifetime Hospital, Padve Tal-Kudal, Dist-Sindhudurg









Maharashtra University of Health Sciences, Nashik Institute of Medical Education Technology & Teachers' Training CERTIFICATE This is to certify that Dr. Mansingbrao Naikrao Ghatage From BKL Walawalkar Rural Medical dasa Delegate in the College, Sawarda Dean has participated as a Delegate in the MedEduIndia@2047 'ONE NATION, ONE CURRICULUM, ONE OUTCOME' Organised by Maharashtra University of Health Sciences, Nashik On 22nd October 2023 antheir S.S. Dhabur Dr. Supriya Dhakne - Palwe Dr. Mrunal Patil Lt Gen Madhuri Kanitkar (Retd) Prof. & HOD Dean, Academic Vice-Chancellor IMETTT, MUHS, Nashik MUHS, Nashik MUHS, Nashik **Organizing Secretory** Organizing Chairperson



Consortium of Accredited Healthcare Organizations



This is to certify that

Dr Yogendra Shelke

participated in the

"Crash Course For Infection Control Professionals"

14 Hours Session from July - September 2023 Course(s)

Introduction, Hand Hygiene, VAE, CLABSI, CAUTI, HAI Surveillance, BMW, Housekeeping, Outbreak, Infection Control, Environmental, Needle Stick, Disinfection, Setting up, NABH Standards



Dr. Vijay Agarwal President, CAHO

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Dr. Lallu Joseph Secretary General, CAHO

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CERTIFICATE OF PARTICIPATION

This Certificate Is Awarded To 🔹

Dr. Ravikiran Kamate

had participated in the National Webinar on the Dengue Fever: Newer Insights, held on 15th

Sept, 2022.

The webinar was chaired by Dr. Prof. Bharat J. Parmar, and organized by CLIRNET.

Scores

Dr. Prof. Bharat J. Parmar



CERTIFICATE OF PARTICIPATION

This Certificate Is Awarded To 🔹

Dr. Rahul Rajaram

had participated in the National Webinar on the Dengue Fever: Newer Insights, held on 15th

Sept, 2022.

The webinar was chaired by Dr. Prof. Bharat J. Parmar, and organized by CLIRNET.

Scores

Dr. Prof. Bharat J. Parmar





This certificate is awarded to

Dr. Prashant Mohan Moolya

for attending the CME on Variations in Upper Limb "ANAPHYSIS 2023-DIVERGENCE" held on 15/09/2023 organised by the Department of Anatomy, Govt. Thoothukudi Medical College and accredited by the Tamil Nadu Dr, M.G.R. Medical University, under category III, with 10 credit points.

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DR. V. DHANALAKSHMI. M.D., PROFESSOR AND HOD

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DR. V. KALAIVANI . M.D., VICE PRINCIPAL

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DR. G.SIVAKUMAR. M.D, D.A., DEAN



BHARATI VIDYAPEETH (DTU) MEDICAL COLLEGE, PUNE



Department of Pharmacology

CERTIFICATE

This is to certify thatAvinash Suresh Sarakhas participated as a**Delegate** in the CME on "Advances in Drug Discovery and Development"organized by the Department of Pharmacology in association with Poona College ofPharmacy on 13th September 2023 via online mode.



Dr. Samiksha Shelar Organizing Secretary Assistant Prof. in Pharmacology BV(DTU) Medical College, Pune



Dr. Bhagyashri Rajopadhye Organizing Secretary

Associate Prof. in Pharmacology BV(DTU) Medical College, Pune



Dr. Priti Dhande Organizing Chairman

Prof. & Head of Pharmacology BV(DTU) Medical College, Pune



BHARATI VIDYAPEETH (DTU) MEDICAL COLLEGE, PUNE



Department of Pharmacology

CERTIFICATE

This is to certify thatDr. Shivaleelahas participated as aDelegate in the CME on "Advances in Drug Discovery and Development"organized by the Department of Pharmacology in association with Poona College ofPharmacy on 13th September 2023 via online mode.



Dr. Samiksha Shelar Organizing Secretary Assistant Prof. in Pharmacology BV(DTU) Medical College, Pune



Dr. Bhagyashri Rajopadhye Organizing Secretary

Associate Prof. in Pharmacology BV(DTU) Medical College, Pune



Dr. Priti Dhande Organizing Chairman

Prof. & Head of Pharmacology BV(DTU) Medical College, Pune



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Dr. Shubhra Sengupta Organising Secretary SMBT IMS & RC, Dhamangaon, Nashik S	has participated as a Delegate in the 27 th Confer Indian Association of Medical Microbiologist	This is to certify	MMC credit Point - Two	8 th , 9 th and 10 th Septe Theme : Tackling AMR : Right Detection Right Prescrip	27 th Conference of Maharas Indian Association of Mec	Atoms PC Qui, Cuent Nation MAHAMICROC 2023	
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CERTIFICATE OF EXCELLENCE

THIS CERTIFICATE IS AWARDED TO PROF/DR/MR./MISS/MRS

Asmita Karnalkar

Professor, BKLW Rural Medical College, India

for taking a phenomenal & worthy session on

" Patient Safety and Anesthesiologists

at the 2023 World Critical Care & Anesthesiology Conference (2023WCAC) held during September 08-09, 2023 in Secapore.

Dr. Balasaheb Bande Senior Consultant, Critical Care, Anaesthesiology, & Medicine, Noble Hospital, Pune, India

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Dr. Yoon Ji Choi Department of Anesthesiology and Pain Medicine, Korea University Ansan Hospital, South Korea

2023WCAC Organising Committee Members

Dr. Lewis J Kaplan Professor, Peretman School of Medicine, University of Pennsylvania, Division of Trauma, Surgical Critical Care and Emergency Surgery, USA Dr. Heatherlee Bailey Emergency Medicine Intensivist, Durham VA Medical Center, USA Dr. Kosciuczuk Urszula Department of Anaesthesiology and Intensive Therapy Medical University of Białystok, Poland

Dr. Xiaopeng Zhang MD, Second Military Medical University, China



CERTIFICATE

OF ATTENDANCE AT:

2023 World Critical Care Conference (2023WCAC) - (9 CPD

Credits) This certificate is presented to:

Asmita Karnalkar

Apriliana 8 September, 2023

Jerusu Khestyn

Dr. Terrance Khastgir Cor ftant Electro Integris Baptist Medical Centre, USA.

Date

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Dr. Ahmed Fouad **Cardiothoracic Surgeon** Ain Shams University, Cair, Egypt




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Emergence of Antimicrobial resistance among ESKAPE pathogens: A concern for rural & remote coastline of Maharashtra

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Abstract

Results

Background:

AMR is a problem worldwide, but is particularly worrying in India, where hospital standards are inconsistent and antibiotics are readily available over the counter at pharmacies. To tackle AMR most of activities related surveillance, diagnosis, awareness & containment are predominantly focused in urban area. Still rural area remains overlooked. ESKAPE Pathogens are the group of priority microorganism having inherent tendency to develop drug resistance & difficult to treat infections due to them become current eras major concern in rural as well as urban health care setups.

Objective:

To estimate burden of ESKAPE Pathogens among culture isolates and study Antimicrobial resistance pattern in them.

Methods:

A retrospective observational study carried out in tertiary care centre located in rural area. Required data for study is collected from records available at microbiology department & analyse with help of Microsoft Excel spread sheet.

Results:

During one year of study period records of 1369 various clinical samples were examined, 41% (565/1369) were found culture positive. Among overall 565 isolates 194 (33.33%) isolates belong to ESKAPE group. In this study among ESKAPE pathogens in Staphylococcus aureus prevalence of Methicillin resistant Staphylococcus auerus (MRSA) was 36.66% & Prevalence of VRE was 8.33%. Among gram negative ESKAPE pathogens, Acinetobactor baumanni found as most resistant pathogen all isolates produces carbapenemase enzyme & shows resistance towards most of the commonly used antibiotics. Other isolates like Pseudomonas aeruginosa, Klebsiella Pneumoniae, Acinetobacter baumannii & Enterobacter species were having strains which capable to produce enzymes like carbapenmase, ESBL.

Conclusion

In our study considerable burden of ESKAPE pathogen was reported amongst culture isolates with slight gram negative ESKAPE pathogen predominance. Surprisingly near about all Acinetobacter baumannii strains showed highest degree of drug resistance against most of the antimicrobial agents. Among Gram positive ESKAPE pathogen significant number of MRSA & VRE strains isolated. These finding help us to update and strengthen our AMR policy and focus on Hospital infection control measures to prevent probable outbreaks. Also implicate need of multicentre study and awareness drive in various lower strata of health care systems in rural area about AMR containment strategies, appropriate use of antimicrobial agents & concept of antimicrobial stewardship



TOTAL ISOLATES IN	565 out of 1369 samples received							
ESKAPE PATHOGEN	194 (33.33%)							
"NON ESKAPE "PAT	371 (66.66%)							
Gram negative ESK	112(57.73%)							
Gram positive ESK/	82(43.26%)							
DRUG RESISTANCE AMONG ESKAPE PATHOGENS								
Enterococcus species	Vancomycin Resistant Enterococci (VRE n=2/24)	2(8.33%)						
Staphylococcus aureus	Methicillin resistant Staphylococcus auerus MRSA (n=36/88)	36(36.66%)						
Klebsiella pneumoniae	CARBAPENEMASE producing strains (n= 14/20)	14(70%)						
Acinetobacter baumannii	CARBAPENEMASE producing strains (n= 11/11)	11(100%)						
Pseudomonas aeruginosa	CARBAPENEMASE & ESBL producing strains (n=14/36)	14(38.88%)						
Enterobacter species	CARBAPENEMASE,ESBL producing strains(n=7/14)	7(50%)						

TABLE 1: SUMMARY OF STUDY



Chart no 1 : % culture positivity





Chart no 3 : Resistogram of Gram Positive ESKAPE pathogens



Chart no 4 : Resistogram of Gram Negative ESKAPE pathogens

Conclusion



Background

Antimicrobial Resistance (AMR) is become global phenomenon. New resistance mechanisms are emerging amongst microorganisms, spreading worldwide. Yearly more than 700,000 deaths are associated with AMR. It is estimated that in the European Union (EU), in the year 2050, over 33,000 deaths will be caused by an antibioticresistant bacteria. 1,2

It is a serious threat to global public health. The AMR is reaching at critical levels in countries like India also.^{3,4}

The impact of AMR is likely to be higher in the Indian setting. AMR is a major public health concern in India, its burden is observed equivalent both rural and urban settings.⁵

The WHO published a list of 12 families of bacteria as priority pathogens in 2017. The National Programme on "Containment of Antimicrobial Resistance" also focus on these priority pathogens incorporated them in surveillance under national AMR network in India also.^{6,7,8} Among these priority pathogens Enterococcus faecium, Staphylococcus aureus, Klebsiella pneumoniae, Acinetobacter baumannii, Pseudomonas aeruginosa, & Enterobacter species have been identified as especially dangerous due their virulence & inherent tendency to acquired drug resistance. These Six microbial species were known as ESKAPE pathogens.

Rice introduced the ESKAPE acronym in 2008 for the group of pathogens capable of escaping the bio-cidal action of antibiotics. The most serious, life-threatening infections caused by a group of drug-resistant bacteria are named as "ESKAPE" pathogens by the Infectious Diseases Society of America (IDSA).¹⁰

The emergence of AMR is not limited to the older and more frequently used classes of drugs. There has also been a rapid increase in resistance to the newer and more expensive drugs like carbapenems.¹¹

Methods

This is a retrospective observational study required Data collected from Medical records & reports were obtained from records sections of Microbiology and hospital.

The bacterial isolates were identified by using classical bacteriology methods for microbial culture, on solid media agar-based, followed by identification and Antimicrobial Susceptibility Testing using Vitek 2 Compact. Data collection pertaining to isolates and records of ESKAPE bacteria were performed electronically as well as manually, in the records of laboratory information system (LIS).

Inclusion criteria: All different clinical samples received from various outpatient & inpatient departments were included in study and analysed.

Exclusion criteria: The Records of clinical samples with incomplete history and reports showing growth of probable contaminants were excluded.

All the reports fulfilling the above eligibility criteria were studied for achieving above aims and objective of this study.

Study Duration : 1 year (January 2019 to December 2019)

There is not much published literature on AMR in ESKAPE pathogen available for the Konkan region of Maharashtra, western coastline of India. In this study, 33.33% ESKAPE pathogens estimated among culture positive cases with slight predominance of gram negative ESKAPE pathogens. Our study noted presence of significant antimicrobial resistance among ESKAPE group of organisms. It is observed that among Gramnegative ESKAPE Pathogens increase resistance and decrease susceptibility against recommended group antimicrobial agents; for instance in Acinetobacter baumanni isolates all of them emerged as "multidrug resistant strains".

Carbapenemase & ESBL producing strains in significant numbers are encountered among gram negative ESKAPE Pathogens, Emergence of VRE & MRSA isolates among gram positive ESKAPE Pathogens leads to worrisome situation. Appearance Multidrug resistant ESKAPE pathogens major concern in front of any health care set up as these pathogens when they were drug resistant limits treatment options & economically hampers infected individuals. Therefore this study is suggesting continuous monitoring & surveillance of such emerging "superbugs" in remote & rural belt of konkan region.

This study implicate that all required caution should be exercised through hospital infection control policy to halt this emergence and wide spread use of antibiotics should be avoided to minimize the potential development of multidrug and sometimes pan drug resistant pathogens. Antimicrobial use policy & infection control policy should be updated based on AMR report.

As this study is carried out in single tertiary care centre located in rural area which mainly received patients referred from lower healthcare setups and private health facilities. To generalised findings of this study, large scale multicentre study will be fruitful.

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ATTENDANCE CERTIFICATE

This is certify that Dr. Yogendra Pandurang Shelke, Associate Professor, Department of Microbiology, BKL Walawalkar Rural Medical College, Sawarde has attended as Centre Observer to conduct MUHS I MBBS Theory Winter examinations from 27-10-2023 to 08-11-2023 at SSPM Medical College and Lifetime Hospital Padve, Sindhudurg, Maharashtra.



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