

PERSONAL DETAILS:-

NAME : Ranganathan N Iyer

DATE OF BIRTH : 2ND February 1966.

NATIONALITY : Indian

SEX : Male

MARITAL STATUS : Married

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ACADEMIC QUALIFICATIONS

| <u>Dates</u> | <u>Description of the Qualification</u> | <u>Place obtained</u> |
|----------------|---|---|
| 1984- 1990 | MBBS | Rural Medical College of the Pravara Medical Trust, Loni.(University of Poona) |
| 1991- 1993 | MD(Microbiology) | Armed Forces Medical College Pune University Of Poona |
| 2007(Spring) | FRCPath (Medical Microbiology) | Royal College of Pathologists UK |
| 1997 | DNB(Microbiology) | National Board of Examinations, Ministry of Health & Family Welfare, New Delhi |
| 1997(October) | Diploma in Pathology & Bacteriology | College of Physicians and Surgeons |
| 2009 | Membership | National Academy of Medical Sciences, New Delhi India. |

Honors and Prizes

Secured third position in the third and final MBBS examination in the Medical College held in March 1989.

APPOINTMENTS

Most Recent Appointment:

| <u>Date</u> | <u>No of Months or Years</u> | <u>Grade and Specialty</u> | <u>Place held</u> |
|-------------|------------------------------|--|---|
| 1.02.2002 | Till the present time | Senior Consultant Microbiology & ID | Global Hospitals Hyderabad. |
| 1.01.2007 | Till the present time | Consultant Clinical Microbiology | Rainbow Children's Hospital & Perinatal Care, Hyderabad |

Previous Appointments:

| <u>Date</u> | <u>No of Months or Years</u> | <u>Grade and Specialty</u> | <u>Place held</u> |
|--------------------------------|------------------------------|--------------------------------|--|
| 1.08.1995 to 20.01.2002 | 7 years | Consultant Micro- biologist | Breach Candy Hospital, Mumbai |
| 8.2.1994 to 31.07.95 | 1 year, 5 months | Lecturer Microbiology | Seth G.S. Medical KEM College & Hospital Mumbai |
| 01.01.1991 to 31.12.1993 | 3 years | Resident in Microbiology | Armed Forces Medical College College, Pune India |

Pathology experience:

The main experience in Pathology was in the field of Medical Microbiology. This was acquired during the three years of postgraduate training leading to the MD degree in Medical Microbiology followed by the years spent at the Seth G.S. Medical College and the KEM Hospital, Mumbai India, The Breach Candy Hospital as a Microbiologist and the Global Hospitals as a Consultant microbiologist.

Post of a Lecturer in the Department of Microbiology at the Seth G.S Medical College and the KEM Hospital, Bombay. Duration- 8.02.1994 to 31.07.1995.

Became competent in the following areas:

1. Reporting of special stains in the diagnosis of coccidian parasites in various clinical samples.
2. Laboratory diagnosis with preparation, standardization and use of various special stains for the detection of pneumocystis carinii pneumonia.
3. Counseling of seropositive patients and regular clinical follow up of patients for opportunistic infections.
4. **Emergency Laboratory duties for a period of one year which included hands on bench experience with all emergency clinical material for microbiological analysis and reporting of the same.**
5. Routine faeces examination and development of special stains for the diagnosis of common faecal parasites.

**Post of Microbiologist at the Breach Candy Hospital from
01.08.1995 to 20.01.2002**

Became competent in the following areas of clinical Microbiology:

1. Setting up of a Microbiology section with subsections like Bacteriology, Mycology, Parasitological and Immunoserology.
2. Secretary of Hospital Infection Control Committee with maintenance of Infection Control data and statistics, surveillance of infection control procedures and other facilities connected with the same.
3. Have acquired experience with automation in Microbiology such as the use of BACTEC 9050 for blood cultures as well as Mycobacterium blood cultures using the MycoF- Lytic medium, use of MGIT (Mycobacteria Growth Indicator tubes), the use of ATB expression for rapid diagnosis of anti microbial susceptibility test results along with identification of organisms. Also have knowledge in dealing with trouble shooting in these instruments.
4. Have acquired experience in Immunoserology like the use of Vitros ECI for enhanced Chemiluminescence's technology and the Abbotts' IMX technology for the detection of antibodies to HIV, HCV and the TORCH agents.
5. Setting up of MIC'S and MBC'S for antimicrobial susceptibility testing. Have experience with the E test methodology for antimicrobial susceptibility testing.
6. Established of quality control procedures in all sections of the Microbiology laboratory. The section has an external quality control assessment scheme with the CMC hospital Vellore. Documentation of various quality control procedures and maintenance of the same.
7. Have experience with Molecular biology techniques for the diagnosis of tuberculosis and HCV infection.
8. The section also had the facility for a number of special stains for the diagnosis of coccidian parasites in faeces, PCP in respiratory samples and the diagnosis of microsporidiosis. This facility is extended to all patients admitted in the neighboring government and general hospitals.
9. The Immunoserology section included the facility of ELISA tests for the diagnosis of infectious diseases.
10. Clinical correlation with the patient details that helped in the management of various infectious problems and the change of antibiotics in the ICU setting.
11. Documentation of all infection control and preventive measures in the form of a SOP manual as a policy decision of the hospital infection control committee.

Post of Consultant Clinical Microbiologist at the Global Hospitals, Hyderabad and Chairperson , Infection Control Committee from 1.02.2002 to the present time:-

Have attempted to become competent in the following areas:

1. Setting up the Department of Microbiology with subsections like Bacteriology, Mycology, Virology and Immunoserology.
2. Setting up of an Infection Control Committee in the hospital, which caters to all the facilities including Solid Organ Transplantation (Liver, Kidney and Heart) Nephrology and Dialysis and herpetology and Endoscopy.
3. Setting up of MIC & MBC facility for the accurate monitoring of antimicrobial therapy and advice on the same.
4. Setting up of Environmental Microbiology laboratory which is an essential pre- requisite for the screening of all foodstuffs in transplant recipients.
5. Daily rounds of the Intensive Care units with discussions on the interpretation of Microbiology and Serology laboratory results, correlation of the same in the clinical context and advice on antimicrobial therapy.
6. An attempt at setting up Anti- fungal susceptibility testing of yeasts with MIC'S for the same using the M27- A2 protocol form the CLSI. Have a regular workflow of specimens for fungal cultures from other units too.

RESEARCH EXPERIENCE

Research methodology was taught as part of the postgraduate training programme during the three years of MD. However, no courses have been specifically attended to gain a certificate in research methodology.

Breach Candy Hospital Bombay

Have participated as a principal or as an associate investigator in the following research projects, all of which have been funded by the Breach Candy Research Center.

1. Incidence of Methicillin Resistance in Staphylococcus aureus isolates in a tertiary care center. 1996-1999 (Rs 1,50,000)
2. Seroprevalence of HCV infection in a healthy blood donor population.(1999-2000 Rs 25,000)
3. Antibiotic drug resistance in Enterococcal isolates.(1998-2000- Rs 50,000)

Global Hospitals Hyderabad

Have been a part of the following projects or studies at approved by the Institutional ethics committee of the Global Hospitals

1. SIHAM Candidaemia study - a national study to look at the prevalence of Candida species in the ICU setting. We were one of the participating centres in the study 2010- 2012, coordinated by the Department of Microbiology, PGIMER Chandigarh
2. INSAR study for the prevalence of important infections caused by MRSA & Salmonella typhi and paratyphi A isolates in various clinical infections . - 2009-2012. This was coordinated by SEARO WHO India
3. ASIP study approved by the ethics committee of hospital to look at the prevalence of invasive pneumococcal infections and the serotypes of the same as against those covered by the Prevanar vaccine- coordinated by Prof M.K.Lalitha from Chennai India . Serotyping was done at Seoul Korea and was part of the ISAAR SE Asia 2008-2009
4. ASIP study to look into the prevalence of invasive pneumococcal infections in India- 2011- 2013 coordinated by the Benjamin Pulimood Laboratory for Infection, Inflammation and Immunity , CMC Vellore
5. SMART study to look into the prevalence of MDR organisms emanating from Intra- abdominal infections in India. 2006-2008
6. Incidence of MDR pathogens that cause Hospital acquired pneumonia. We are one of the centres participating in this study that looks at the antimicrobial susceptibility pattern and the clinical aspects of Hospital pneumonia coordinated by Dr. Ramasubramnian V Apollo Hospitals Chennai. 2014- 2016
7. BASIS study: to look at the prevalence of invasive pneumococcal infections with the antimicrobial susceptibility pattern of these isolates. Serotyping for the same is done at the Department of Microbiology CMC Vellore 2014- 2017 . This study is coordinated by the Research and development branch of the Department of Microbiology, Pushpagiri Institute of Medical Sciences, and Thiruvilla Kerala.
8. Mucormycosis study: to look into the prevalence of mucormycosis / Zygomycosis infections in vulnerable patient populations. Coordinated by

the Mycology section of the Department of Microbiology, PGIMER Chandigarh 2016- 2017

9. Invasive Mould fungal infections in the ICU- A multicentric observational study in India to look into the prevalence of invasive filamentous fungal infections in the ICU setting at various centres in India. Coordinated by the Mycology section, Department of Microbiology PGIMER Chandigarh. (to be submitted to the ethics committee for clearance)

MANAGEMENT EXPERIENCE

The post of a Microbiologist at the Breach Candy Hospital involved administrative responsibilities of the section and they were as follows:-

1. Manpower management.
2. Maintenance of appropriate documents and records of all investigations carried out both in bacteriology and the Immunoserology sections.
3. Documentation of the procedures carried out in the laboratory in the form of a laboratory manual with Standard Operative procedures.
4. Supervision of technical skills and procedures followed by laboratory technologists at all levels.
5. Indent and stock position of all items purchased in Microbiology and Immunoserology sections of the department.
6. Close liaison with the Engineering and the Biomedical Engineering departments for proper maintenance of all equipment in the Microbiology department.
7. Management and administrative responsibility of the entire department of Pathology in the absence of the Head of Department of Pathology.

The post of a Consultant Microbiologist at the Global Hospital involves the following administrative responsibilities at the present time:-

1. Manpower management.
2. Maintenance of appropriate documents and records of all investigations carried out in the department of Microbiology and Immunoserology.
3. Developing Standard Operative procedure manual for the department for all investigations.
4. Supervision of technical skills of all technologists in the department.
5. Indent and stock position of all items in the department and close liaison with the purchase department for the same.
6. Close liaison with the finance department and the audit department for the documentation of income and expenses of the Microbiology

department with projection of the budget for the forthcoming financial year.

TEACHING EXPERIENCE & ACTIVITIES

AFMC Pune (1991- 1993)

During the three years of postgraduate training at the AFMC, Poona India, the following teaching activities were carried out:

1. Conducting practical demonstrations and training sessions in both bacteriology and parasitology for the undergraduate medical students
2. Lectures on topics, especially antibiotic susceptibility testing methodologies, isolation, identification procedures for laboratory technologists.

Seth G.S. Medical College and KEM Hospital Bombay - Lecturer (1994- 1995)

During the three years of Lecturer Post at the Seth G.S. Medical College and KEM Hospital Bombay, India, the following teaching activities were carried out::

One of the Teaching faculty for all MBBS students, MD students, MSC microbiology students admitted to the Seth G.S. Medical College and KEM Hospital Mumbai at the second professional year of MBBS. This involved, lectures, tutorial sessions, practical classes, training in serology exercises as well as conducting internal examinations, both theory as well as practical examinations for the students.

Breach Candy Hospital Bombay- Consultant Clinical Microbiologist (1995-2002)

During the seven years as a Consultant Clinical Microbiologist at the Breach Candy Hospital Bombay, India, the following teaching activities were carried out::

Organized a CME cum workshop for postgraduate students of Pathology and Microbiology at the Breach Candy Hospital on Opportunistic infections in HIV/ AIDS in a joint collaboration with the department of Microbiology at the Bombay Hospital Institute of Medical Sciences on the 14th and the 15th April 2000.

Organized a CME and workshop on Immunoserological techniques for the postgraduate students of pathology and Microbiology in joint collaboration with the department of Microbiology of the Bombay Hospital Institute of Medical Sciences on the 20th and the 21st January 2001. This Workshop was held again on the 12th and the 13th of January 2002 for postgraduates at a National level.

Was a regular faculty for the Fellowship in Critical Care programme at the Breach Candy Hospital Bombay

Was a regular teacher for the Diploma in Pathology and Bacteriology course (DPB) conducted by the CPS(College of Physicians and Surgeons) Mumbai during the years 1999- 2002.

Global Hospital Hyderabad - Sr. Consultant Clinical Microbiologist (2002- till the present time)

During this period as a Consultant Clinical Microbiologist at the Global Hospitals Hyderabad, India, the following teaching activities were carried out::

1. Faculty for DNB students in Surgical Gastroenterology, Medical Gastroenterology, Nephrology, Cardiology, Anesthesia and Fellowship in Critical Care Medicine(NBE)
2. Held a four day Mock examination course in theory and Practical examinations for the MD/ DNB Microbiology registered postgraduates in September 2010. Special Invitee, Dr. (Prof) Uma Sekar, Prof and Head Department of Microbiology SRMC Chennai
3. The department has been regular in holding training sessions and Mock examinations preparatory to the Part - I & II examinations conducted by the Royal College of Pathologists UK . These have been as follows :
 - A. Three day courses preparatory with a Mock examination for the Part- I FRCPATH examination
 - a. 4th -6th July 2011
 - b. 27th - 29th July 2012
 - c. 13th -15th July 2013
 - d. 22nd - 24th January 2014
 - e. 17th -19th July 2014
 - f. 16th -18th June 2015
 - g. 9th -11th February 2016
 - B. Four day preparatory courses and Mock examination for the Part- II FRCPATH examination
 - a. 11th -14th September 2012
 - b. 3rd and 6th April 2013
 - c. 23rd to 26th July 2014
 - d. 16th to the 19th February 2016

EXAMINER POSITION

Been an Examiner for the PDCC Infectious Diseases course twice at SGPGIMER LUCKNOW in 2014 & 2015 (Theory and Practical Examinations)

PRESENTATIONS

1. Presented a paper titled “ Incidence of MRSA infections at a tertiary care center “ at the Maharashtra State Chapter Conference of the Indian Association of Pathologists and Microbiologists at the Krishna Institute of Medical Sciences, Karad, September 1992.(Oral presentation).
2. Presented a paper titled “ Urinary tract infections in an Urosurgical unit” at the Maharashtra State Chapter Conference of the Indian Association of Medical Microbiologists held between the 28th and 29th September 1996 at the Mahatma Gandhi Institute of Medical Sciences, Sewagram Wardha(Oral Presentation)
3. **Presented a Guest Lecture** titled “ Rapid Diagnosis in Clinical Microbiology” at the National Conference of the Indian Association of Microbiologists held at the University Department of Chemical Technology, Bombay 1996.
4. Presented a paper titled “ Vancomycin Susceptibility in MRSA” at the 23rd National Conference of the Indian Association of Medical Microbiologists held between the 19th and the 21st of November 1999 at the PGI Chandigarh.(Poster presentation)
5. Presented a paper titled “ Seroprevalence of HCV infection in a healthy blood donor population” at the 24TH National Conference of the Indian Association of Medical Microbiologists held at the J.N. Medical College and Hospital, Belgaum between the 17th and the 19th of November 2000(Oral Presentation).
6. Presented a paper titled “ The Diagnosis of Pneumocystis carinii in Immunocompromised hosts” at the 25th National Conference of the Indian Association of Medical Microbiologists held at the All India Institute of Medical Sciences, New Delhi between the 21st and the 25th of November 2001(Oral Presentation).
7. **Participated as a guest faculty** at the CME & Workshop on Opportunistic Infections in HIV/ AIDS held as a part of the 6th State Chapter Conference of the Indian Association of Medical Microbiologists at the Government Medical College, Nagpur on the 28th of September 2000. The lecture delivered was titled “ Diarrhoeal pathogens and the Laboratory Diagnosis of Pneumocystis carinii pneumonia”.
8. **Participated the National Conference of Mycology and Fungal** Dted as a guest faculty diseases held at the LTM Medical College and the Sion Hospital, Bombay between 12th and the 16th October 2000. The lecture was titled “ Deep Mycoses”.
9. Participated as a **guest faculty** at the CME programme on Antimicrobial Drug Resistance as a part of the State Chapter Conference of the Indian Association of Medical Microbiologists, held at the Seth G.S, Medical College and KEM

- Hospital, Bombay India between the 27th to the 29th of September 2002. The lecture was titled “Recent Advances in Antimicrobial Susceptibility testing”
- 10.** Participated as a **guest faculty** at the Andhra Pradesh State Chapter Conference of the Indian Association of Pathologists and Microbiologists Held at the Guntur Medical College and Hospital between the 14th and the 16th September 2002. The lecture was titled “Infections in Transplant recipients”.
 - 11.** Participated as a **guest faculty** at the CME & Workshop programme as part of the 50th National Conference of the Indian Association of Pathologists and Microbiologists held at the T.N. Medical College and the BYL Nair Charitable Hospital, Bombay India between the 12th and the 16th of December 2001. The lecture was titled “Diarrhoeal pathogens and their diagnosis in HIV/ AIDS”
 - 12.** Participated as a **faculty** at the State Chapter Conference of the Indian Association of Medical Microbiologists held at the Rangaraya Medical College and Hospital
 - 13.** Kakinada, Andhra Pradesh. Organised a Symposium on “Nosocomial infections in a critical care unit” between the 5 and the 7th of February 2003.
 - 14.** Presented a paper titled “Neonatal Blood Stream Candidiasis- An analysis of 1046 cases” at the 5th National Conference of SIHAM (Society for Human and Animal Mycology) held between the 11th and the 14th of March 2004 at the PGIMER Chandigarh.(Oral Presentation)
 - 15.** Presented a paper (Poster session) titled “Neonatal Blood stream infections and the antimicrobial susceptibility pattern” at the National Neonatology Forum meeting held at the Gandhi Medical College and Hospital auditorium Hyderabad between the 19th and the 20th of December 2003.
 - 16.** Participated in a symposium titled “ Ventilator Associated Pneumonias” as part of the INFICON (Hospital Infection Conference National held at Hyderabad between 28th and the 30th of January 2005. Delivered a talk on “ Diagnostic dilemmas of ventilator associated pneumonias”
 - 17.** **Guest lecture** titled “ Infections in Solid Organ Transplant recipients” at the IAMM- AP State Chapter conference held at the ASRAM Medical College Eluru, Andhra Pradesh, between the 11th and the 13th of February 2005
 - 18.** Participated in a “ **Meet The Expert Session**” titled “ Intra- abdominal Infections- Diagnostic and Therapeutic Challenges” as part of the 29th National Conference of the IAMM Chennai 2006.

- 19. Participated as a faculty** for Clinical Cases in Medical Microbiology as part of the 29th National Conference of the IAMM Chennai, India, 2006.
- 20.** Presented a paper titled “ Modified PAP analysis profile for the detection of h VISA in clinical relevant isolates of MRSA” at the 29th National Conference of the IAMM Chennai, India 2006
- 21. Presented a paper and was awarded the Best paper word in Mycology titled “ Neonatal Blood stream Candidiasis” at the 29th National Conference of the IAMM, Chennai, India 2006**
- 22.** Presented a paper titled " Incidence and clinical features of Blood stream candidiasis" at the SIHAM Conference PGIMER Chandigarh 2004
- 23. Participated in the IAMM Symposium** titled " Endemic Mycoses" on Blastomycoses , and " Clinical Cases " session at the IAMM National Conference held between 14th and 18th November 2007 at KMC Mangalore
- 24. Participated as a faculty** for " Clinical cases- Infections of the Pancreas- Good, Bad and the Ugly' at the IAMM National Conference held between 25th and 29th October 2008 at the AFMC Pune
- 25. Participated as a faculty** and also hosted the Pre- Conference CME programme titled " Health Care Infections and Prevention" as part of the IAMM National Conference 2009 held between 16th and 19th November 2009 held at J.S.S Medical College Mysore
- 26. Participated as a faculty** and also Co hosted the Pre- Conference workshop titled " Antimicrobial Chemotherapy - from the bench to the bedside" as part of the IAMM National Conference 2010 between 19th and 24th November 2010 at Kolkata
- 27. Participated as a faculty** and Hosted the Pre- conference CME programme on Health Care infections at the IAMM National Conference held between 24th and 29th November 2011 at BHU Varanasi
- 28. Participated as an invited speaker** at the IAMM Symposium on " Quality assurance in Clinical Microbiology" with " Quality Assurance in Bacteriology" held at the IAMM National Conference 2011 at BHU Varanasi

- 29. Participated as an Invited faculty** to conduct the Mycology Quiz at the SIHAM National Conference held at Siliguri West Bengal between 12th and 16th February 2012
- 30. Invited guest speaker** titled " MDR Infections- diagnosis and management" at the annual conference and the Prof Ramakrishnan Memorial oration of the Kanchi Kamakothi Childs Trust Hospital Chennai on 5th May 2013
- 31. Poster presentation** titled " Clinical Microbiology of Appendicectomy- diagnosis and outcomes" at the 29th conference of the Surgical Infection Society of Europe held between 9th and 10th May 2013 at Prague The Czech Republic
- 32. Participated as faculty** with a lecture titled " Newer azoles in the treatment of Fungal Infections" as part of the SIHAM National Conference held at Coimbatore between 9th and 12th January 2014
- 33. Invited guest faculty** for two lectures at the Infection Prevention certificate course held at Sankara Netralaya and Vision Research Foundation Chennai between 26th and 28th September 2014
- 34. Invited Guest Faculty** for the " Clinical Cases Session" at the IAMM National Conference held at Jaipur between 15th and 19th October 2014
- 35. Invited Guest Faculty** for the Infection Prevention CME programme held at the Kokilaben Dhirubai Ambani Hospital Mumbai between 23rd and 24th November 2014
- 36. Invited Guest Faculty** to conduct a Four hour session on " Hospital Infection control surveillance and prevention" as part of the APPI (Association of Practising Pathologists of India" conference held between 13th and 14th June 2015
- 37. Invited Guest Faculty** with a lecture on " Clinical Relevance of Microbiology Reports to the clinician" as part of the RESCON (Research Conference) of the Bharati Vidyapeeth University Pune on 3rd March 2015
- 38. Invited Guest faculty** at the Mamata Medical College and Hospital Khamam Telangana for the Plenary session on " MDRorganisms - Management and Infection control" and Participation in the Pre- conference CME programme titled " Accreditation processes in Clinical Microbiology and serology" with a lecture titled " Quality assurance and document control" between 6th and 8th February 2015

- 39. Invited** Guest Faculty for two lectures at the Infection Prevention certificate course held at Sankara Netralaya and Vision Research Foundation Chennai between 24th and 26th September 2015
- 40. Invited** Guest Faculty at the YRG Care Symposium on International Standards with a lecture titled " Quality Indicators and Continuous Quality Improvement" held on 12th March 2015 at YRG Care Foundation Chennai
- 41. Invited** Guest Faculty at the symposium on " Antimicrobial Resistance - Laboratory and Clinical Update" with a lecture titled " Emerging Antimicrobial Resistance and Interpreting Reports" held at KMC Manipal Karnataka on 22nd August 2015
- 42. Invited** to be a Guest Faculty and Co- Host the CME & workshop " Antimicrobial Susceptibility testing" with a special session focussed on " MIC testing - its clinical relevance to management of patients". This was the pre-conference workshop of the IAMM National Conference at Pondicherry held between 26th and 29th November 2015
- 43. Invited** Guest Faculty at the 2nd Transplant Infectious Diseases and ISOT held at Chennai between 1st and 3rd October 2015 with a lecture titled" Microbiology aid to the clinician in Solid Organ Transplantation"
- 44. Invited** Guest faculty at the INFICON Vidharbha Chapter with plenary lecture titled " Infection Prevention in the 21st Century" and a lecture titled "Linen and Laundry in infection control" held at Nagpur on 4th December 2015
- 45. Invited** Guest Faculty at the ISOPARB meeting of Obstetrics and Gynaecology with a lecture titled " Antimicrobial Prophylaxis in LSCS surgical procedure" held at Hyderabad on 5th December 2015
- 46. Invited** Guest Faculty at the Pre- Conference CME & Workshop on Mycology with a lecture titled " Fungal Infections in SOT recipients" and a plenary lecture at the State Chapter IAMM Conference held between 29th and 31st January 2016 at SVS Medical College Mahboobnagar Telangana
- 47. Invited** Guest Faculty at the Pre- conference workshop at the National IAMM Conference held between the 14th and 18th of November 2018 at Bangalore India titled ' Quality Control and Assurance in Microbiology and Serology "
- 48. Have been an invited Guest faculty from 2013 till the present time twice a year for a programme and course on Infection control conducted by the Department of Microbiology at the Sankara Netralaya Hospital Chennai and have spoken on the following topics**
- **Infection control in the Intensive control setting**

- **Operation Theatre protocols and Infection control**
- **Surveillance in Infection control and prevention**
- **Control and Prevention of MDRO organisms in Health care setting**

49. Have been an invited Guest faculty at the International Conference on Antimicrobial Chemotherapy and Infectious Diseases hosted by the Sri Lanka College of Microbiologists at Colombo Sri Lanka from the 5th to the 8th August 2017 and had three guest faculty presentations on

- **Rapid Diagnosis of MDRO Organisms and its impact on Infection control**
- **Issues and infection control protocols in Operation Theatres**
- **AMR and the community**

CME, WORKSHOPS AND CONFERENCES ORGANISED

1. Organised two interactive FOUR DAYS CME programme on Clinical Microbiology and Infectious Diseases, in 2002 December and Jan 2004, for postgraduates in Microbiology and Medicine and Pediatrics.
2. Organised the 6th National Conference of the SIHAM (Society for Indian Human and Animal Mycology) at Hyderabad between the 17th and the 22nd of January 2006.
3. Organised the 2nd National Conference of the IDSI (Infectious Disease Society of India) at Hyderabad between the 24th to the 27th of January 2008.\
4. Conducted the Pre conference workshop of the IAMM National Conference at Hyderabad between 20th and 24th November 2013 titled " The Making of a Clinical Microbiologist- The MD/ DNB Examinations and beyond" held at the Global Hospitals Hyderabad
5. CME titled " Antimicrobial Susceptibility Testing- from the Laboratory bench to the bedside" on 31st July and 1st August 2013
6. CME & Workshop for technologists " Techniques in Microbiology for laboratory technologists as part of the Annual ILQA Bangalore programme on 28th January 2014
7. CME titled " Infection Prevention in Health Care - An Update" held at Global Hospitals Hyderabad on 2nd and 3rd August 2014
8. CME titled " Diagnostic Clinical Microbiology- An Update" at Global Hospitals Hyderabad on 1st and 2nd August 2015
9. Workshop titled " Handling Clinical Specimens in the Microbiology Laboratory at the Global Hospitals Hyderabad India on the 1st and 2nd April 2017

10. Hosted the National conference of the HISI (Hospital Infection Society of India) at Hyderabad India from the 3rd to the 6th October 2018 along with Pre conference workshops on the 2nd October 2018
11. Workshop and Education programme titled “ Infection prevention and control in Health care- Recent Advances “ on the 20th and 21st July 2019 at Hyderabad India.

ACCREDITATION PROGRAMMES

Works in a NABL accredited laboratory, (ISO 15189 2012 International standard for medical laboratories) accredited since 2009

1. Empanelled as a trained Technical Assessor/ Lead Assessor in the field of Medical Microbiology for the NABL according to ISO 15189 NABL 112 . Have completed 225 NABL assessments till date in the capacity of a technical assessor for Medical Microbiology and serology and as a Lead assessor.
2. Empanelled as a trained Assessor for the NABH (National Accreditation Board for Hospitals and Health Care Institutions, Govt. of India), both of the aforementioned conducted by the Quality Council of India. Have been a part of the team for 13 Hospital accreditations till date.
3. Passed the certification course for External technical assessors for the College of American Pathologists in the field of Medical Microbiology and Virology.
4. **Been on the CPD (Continuing Professional Development) Scheme with the Royal College of Pathologists UK since 2008 with the five year cycle starting April 2008. This scheme ensures participation in clinical work, academic and teaching activities as well as professional reviewer work for national journals.**
5. **Have been the Coordinator and Country Leader (India) for the International Department, the Royal College of Pathologists UK from 2015 till date.**

ORIGINAL ARTICLES, CASE REPORTS AND RESEARCH PAPERS

1. Iyer R, Menon M. Evaluation of various modalities for the diagnosis of tuberculosis in body fluids. *Indian J Pathol Microbiol* 1999;42(4): 433-439.

2. Menon M Iyer R. Evaluation of various modalities for the diagnosis of HCV infection in a healthy blood donor population. *Indian J Pathol Microbiol* 2002;45(4): 421-424
3. Ranganathan S, Iyer R. How close are we to safe blood transfusion- an insight into HBV infection. *In J Haematol Blood Transfus* 2007;33: 29-31.
4. Screening practices for HBV & HCV infections in blood donors. *J Gen Med* 2008; 20(2): 13-16
5. Iyer R.N. Cyclosporiasis in an infant. *Ind J Med Microbiol* 2006;24(2): 144-145
6. Iyer R.N Hittinahalli V. Modified PAP method to detect heteroresistance to vancomycin among Methicillin resistant Staphylococcus aureus isolates at a tertiary care hospital. *Ind J Med Microbiol* 2008; 26(2): 176-9
7. Iyer R.N. D Kapoor. Diagnosis of Spontaneous Bacterial Peritonitis: Role of Tween 80 and Triton X in ascitic fluid cultures/ *Ind J Med Microbiol* 2009;27(2): 159-161.
8. B.N. Chaudhuri, C. Rodrigues, V. Balaji, R. Iyer, U. Sekar, Chand Wattal, DS Chitnis, TN Dhole, Sangeeta Joshi. Incidence of ESBL producers amongst Gram Negative Bacilli isolated from intra- abdominal infections across India (Based on SMART Study 2007 data). *J Assoc Phys India* 2011;59: 1-6.
9. Antibiogram of S. enterica serovar Typhi and S. enterica serovar Paratyphi A: a multi-centre study from India WHO *South-East Asia Journal of Public Health* 2012;1(2):182-188 *Indian Network for Surveillance of Antimicrobial Resistance Group(INSAR)*
10. C. Rosy, Nikhil Oomen George, Kamaraju S. Ratnakar, Ranganathan N Iyer, Venkataraman Sritharan. Heterogeneity in Fem A in the Indian isolates of Staphylococcus aureus limits its usefulness as a species specific marker *Advances in Infectious Diseases* 2012;2: 82-88
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Contribution to Books:

1. Chapter on “ Antimicrobial Therapy of GI Infections” in “Infections of the Gastrointestinal System” by C. Vaishnavi, Jaypee Brothers 2012
2. Contributed to a Monogram on “ Antibiotic resistance – reasons and possible solutions” a WHO publication 2011.

Book author

1. **Sample collection in Clinical Microbiology Jaypee Brothers 2001.**