

Curriculum Vitae

Name: Dr Raj Kamal	
Present affiliation: Scientist-F (Medical) , Head Clinical Division, ICMR- NJIL&OMD, AGRA Date of Birth- 27/09/1070      Date of Joining- 01/01/2001	
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Qualifications:

Sl No	Degree	Institute (University)	Year of passing	Subjects/ Specialization
1.	MD	S. N . Medical College (Dr B.R.Ambedkar University,Agra)	2000	Pediatrics
2.	MBBS	S. N . Medical College (Dr B.R.Ambedkar University,Agra)	1994	Anatomy, Physiology, Biochemistry, Pathology, Pharmacology, Microbiology, Social& Preventive Medicine, Forensic Medicine, Medicine, Surgery, Gynae &Obs, ENT, Ophthalmology, Orthopedics, Pediatrics, Radiology, Psychiatrics
3.	B.Sc	Agra College, Agra (Dr B.R.Ambedkar University,Agra )	1989	Botany, Zoology, Chemistry

Employment :

Sl No	Designation/Position	Institute/organization	From	To	Nature of work (Research/teaching/others)
1	Scientist-F (Medical)	National JALMA Institute for Leprosy & Other Mycobacterial Diseases, Agra	1/09/2021	Till Date	Clinical Management of leprosy patients and Research work in leprosy& Tuberculosis
2	Scientist-E (Medical)	National JALMA Institute for Leprosy & Other Mycobacterial Diseases, Agra	1/09/2016	31/08/2021	Clinical Management of leprosy patients and Research work in leprosy , Tuberculosis & HIV
3	Scientist-D (Medical)	National JALMA Institute for Leprosy & Other Mycobacterial Diseases, Agra	1/09/2012	31/08/2016	Clinical Management of leprosy patients and Research work in leprosy, Tuberculosis & HIV
4	Scientist-C (Medical)	National JALMA Institute for Leprosy & Other Mycobacterial Diseases, Agra	1/01/2006	31/08/2012	Clinical Management of leprosy patients and Research work in leprosy & Tuberculosis
5	Scientist-B (Medical)	Central JALMA Institute for Leprosy	1/01/2001	31/12/2005	Clinical Management of leprosy patients and Research work in leprosy
6	MD( Resident)	SN Medical College Agra	1/06/1997	31/08/2000	Clinical Management of various diseases of pediatric and in Neonetology and research in Leprosy in collaboration with JALMA.
7	Junior Resident in Pediatrics	Kalawati Saran Children Hospital, Lady Harding Medical College New Delhi	1/01/1997	31/03/1997	Clinical Management of various diseases of pediatric and in Neonetology Departments of the hospital

8.	Junior Resident in Radiology	G.B PANT Hospital, N.Delhi	1/04/1996	30/10/1996	Providing assistance in reporting of x rays ,ultrasonography and in ERCP
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- Research interests: Clinical trials in Leprosy & Tuberculosis (Expertise in Paediatric age)
- Clinical Experience:>24 Years

Leprosy More then 24 year experience of providing specialized clinical and medical care services to the patients of leprosy and other medical diseases particularly in pediatric age. Involved in studying the different techniques therapeutic and immunotherapeutic approaches and molecular tools for monitoring and improvement of treatment in leprosy and other mycobacterial diseases .

T.B More then 24 year experience of providing specialized clinical and medical care services to the patients of TB. Diagnosing the TB cases from the TB suspects attending the DOT Center and from leprosy and other cases at our institute according to RNTCP protocol. Providing treatments to all the TB cases .Sensitivity testing of Inj Streptomycin in CAT-II cases before Initiation of therapy. Follow up of all the cases on treatment. Referring for AFB & DST. Identification of MDR-TB Suspects and Cases & providing treatment according to RNTCP. Monthly Reporting of Medication records of cases , supervisory activities ,IEC activities ,Referral activities, MDR-Case finding activities to the programme authorities.

HIV - Many of HIV +VE patients and with other co infections like HIV+TB, MDR TB, HIV +Leprosy, were thoroughly clinically examined & Screening of HIV suspects among all the TB, LEPROSY, and Other cases attending the institute were done during last 24 years.

- Research experience (in Years): >24 Years
- List of Research Project handled & Grants received :

S. No	Type of Project	Title of project	Duration (Yrs.)	Funding agency	Funded amount	Level of Participation	Status
1.	R&D (Govt. Agencies)	Validation protocol for comparison of chest X-ray image between Prognosys-PRO RAD-Atlas (Ultra portable X-ray system) and Standard Digital X-ray machine.( ICMR-Contact research Intramural project)	5 months (Feb-June 2024)	(ICMR-Contact research Intramural project)	Intra-mural	PI	Completed
2.	R&D (Govt. Agencies)	Validation protocol for comparison of chest X-ray image between Mine 2 (Medical handheld X-ray machine and Standard Digital X-ray machine.(ICMR-Contact research Intramural project)	4months (Dec 2021-March 2022)	.(ICMR-Contact research Intramural project)	Intra-mural	PI	Completed
3.	R&D (Govt. Agencies)	Under Central Sector Scheme for Establishment of Model Rural Health Research Units - Proposals for setting up MRHRUs in Uttar Pradesh.	Initiated in FY2021-22	DHR	1.50 Cror	PI	On-going
4.	R&D (Govt. Agencies)	A multi-centric study on TB Elimination entitled "A demonstration project for reduction of tuberculosis in India", at Mathura .UP (On going)	3 Years (2023-2025)	CTD-ICMR	1.31 Cror	PI	On-going
5.	R&D (Govt. Agencies)	Clinical Trial on Prevention of Disability in Persons Affected with Leprosy through Homeopathy CCRH-ICMR Multi-centric project	4 years (2024-2028)	CCRH-ICMR	Rs 3.94 Cror	PI	Grant released (To be initiated)
6.	R&D (Govt. Agencies)	MAY MEASUREMENT MONTH (MMM Project)	1 Month (1 <sup>st</sup> May-31 <sup>st</sup> May 2017)	PHFI,ICMR, WHL	Intra-mural	PI	Completed
7.	R&D (Govt. Agencies)	Study of the predictors of therapeutic responses governing the regression and clearance of granulomas in response to chemotherapy with immunotherapy in borderline leprosy.	4 years (2010-2014)	ICMR-TASK FORCE	Rs 31,77,552	PI	Completed
8.	R&D (Govt. Agencies)	Study Of Serum and Dermal Proteome Of Borderline Leprosy (BT,BL) In Relation To Therapeutic Changes Induced by chemotherapy and chemotherapy with immunotherapy ,	4 Years (2019-2023)	ICMR(Adhoc )	Rs 46,63,460	PI	Completed

9.	R&D (Govt. Agencies)	Evaluation of the effect of addition of immunotherapy with Mw vaccine to standard chemotherapy in borderline leprosy.	5 years (2002-2006)	ICMR-Intramural	Rs. 2,00,000	PI	Completed
10.	R&D (Govt. Agencies)	Prevalence and risk factor of Silico-tuberculosis and MDR-tuberculosis among the silica exposure workers in glass industry in Firozabad district (a multi-centric study).	3 years	ITRC-ICMR	Rs.2.56 Crore	CO-PI	Ongoing
11.	R&D (Govt. Agencies)	Survey to estimate new cases of leprosy and prevalence of leprosy-related disabilities in 10 high-priority states/Union territories in India. (A-LEP Project) Duration 3-0 Budget -10 caror (on-going)	3 Years	CLD-ICMR	Rs. 10 Crore	Co-PI	Ongoing
12.	R&D (Govt. Agencies)	Noval static progressive splint design for pre operative domiciliary mobilization of ulnar claw hand- A pilot study. Duration 3 Years, Medical Innovation Fund-ICMR, Total Budget Rs 600000 (on-going)	3 years	Medical Innovation Fund-ICMR	Rs.6,00,000	Co-PI	Ongoing
13.	R&D (Govt. Agencies)	Programmatic implementation and comparison of MIP Vaccine immunoprophylaxis and rifampicin chemoprophylaxis for contacts of leprosy patients under NLEP in high endemic settings	3 Years	CLD-ICMR	Rs.2.08 crore	Co-PI	Completed
14.	R&D (Govt. Agencies)	Multi-centric trial to study the effect of early active mobilization as compare to 3 weeks immobilization following tendon transfer procedures for claw hand.	5 years	ICMR-TASK FORCE	Rs. 17,33,400	Co-PI	Completed
15.	R&D (Govt. Agencies)	Investigations of cellular markers and their implications in detecting treatment efficacy of tuberculosis.	3 YEARS	DRDO	Rs 15,00,000	Co-PI	Completed
16.	R&D (Govt. Agencies)	Study of profile of deformity in new leprosy cases and to analyze predictive risk factors in the development and progression of the disability.	5 years	ICMR	Intramural	Co-PI	Ongoing
17.	R&D (Govt. Agencies)	Assessing the adherence of MDT in leprosy cases in recent five years.	3 years	ICMR	Intramural	Co-PI	Completed

- H-index: 8
- Total number of Publications: 26
- <https://scholar.google.com/citations?user=qxNvZK8AAAAJ&hl=en&oi=sra>
- Patents (Filed/ Awarded): Nil
- Awards/ Fellowships/ Recognitions/Honors:

S. No	Award Details	Awarded by	Year
1.	Best poster award entitled "Evaluation of the effect of addition of immunotherapy with Mw vaccine to standard chemotherapy in borderline leprosy" 24th biennial conference of the Indian Association of Leprologists, Agra from 12th- 14th Nov 2005.	Indian Association of Leprologist	2005
2.	Young Scientist award for best paper presentation at '25th Biennial Conference of I.A.L', Kanpur, 19-21st NOV, 2007	Immunology foundation	2007
3.	Best poster award entitled as 'A follow up study of clinical and histopathological evaluation of the immunotherapeutic effect of Mycobacterium w ( Mw) vaccine in borderline leprosy. IADVL ( Dermacon 2009) 6-10 th Jan 2009	Indian Association of Dermatologist Venerologist & Leprologist	2009
4.	Dr Manu patel memorial prize by IADVL for best presentation among all sections at "Dermacon 2009, 6-10th Jan 2009, Bangalore	Indian Association of Dermatologist Venerologist & Leprologist	2009
5.	Winner of "Glaxo smith Quiz on topical steroids" by IADVL at Dermacon 2009, 6-10th Jan 2009, Bangalore	Indian Association of Dermatologist Venerologist & Leprologist	2009
6.	Fellowship "FICMCH" ( Fellow of Indian College of Maternal and Child Health) by Indian college of maternal and child health, Kolkata, India in Feb 2015	Indian College of Maternal & Child health, Kolkata, India	2015
7.	Best Researcher Award in 12th International Scientist Awards on Engineering, Science, and Medicine at 20-21 NOV 2020 Visakhapatnam, India	VDGOOD Professional Association India	2020

- Member of scientific societies/ bodies / committees with *Registration number & Name of body.*
  1. Life member of Indian Association of Leprologist, India, (R/664/UP/11(LM))
  2. Life member of National Association for Reproductive and Child Health of India , (7/322/NARCHI/2015)
  3. Life member of Indian Medical Association of India, (UP/14287/3/969/234742/2017-18/CL )
  4. Life member of Indian Association of Pediatrics of India, (L/2021/K/3105)
  5. Member of Ethical committee of Institute of Mental Health and Hospital, Agra (ECR/1034/Inst/UP/2018)
  6. Member of Ethical committee of S N Medical College , Agra ,(ECR/1409/Inst/UP/2020)
  7. Member of UP Medical Council. (REG. No. 40045/29/12/95)
  8. Member of VDGGOOD Professional Association, Visakhapatnam, India,(VDSA2754)
  9. Member of Indian Association of Leprologist Academy (IAL Academy) as a coordinator of Leprosy focus group.
  
- Training courses attended-
  1. Indo-US Workshop on HIV/STD Behavioral Prevention Research at CJIL,Agra,22nd -24th Jan,2003
  2. ICMR-WHO Workshop on IPR& WTO issues at CJIL, Agra ,22nd -23rd Oct,2003
  3. Indo-French (ICMR-INSERM) workshop on Tuberculosis , Agra,12-14 Dec 2003
  4. 3rd Convention of Society for Immunology & Immunopathology (SIIP) and National symposium on cytokines &signal transduction at CJIL,Agra,13th -15th Feb,2004.
  5. IAL National CME and Workshop on “ Newer technologies for patients care and epidemiology of leprosy and other mycobacterial disease “ Agra ,12th Nov 2005
  6. RNTCP training workshop of Medical Doctors on Orientation of DOTS. at Agra
  7. ICMR-WHO Symposium on “ Informal consultation on Rifampicin Resistance in Leprosy , Agra, 30th and-1st Dec,2006.
  8. IAL National Workshop on Diagnosis & Management of leprosy in the context of integration of leprosy programme with general health services at CJIL, Agra,18th-19th Oct,2003
  9. Dots plus stat level training of RNTCP, 28th to 30th Dec 2010 at Agra
  10. National Academy of Medical Science CME Program on Tuberculosis in Children 28th Nov 2013, at SNMC, Agra
  11. CDSA (India)- NIH (U.S.A) joint course on "Principles and Practice of Clinical Research 29 October 2012 to 3 November 2012,New Delhi
  12. NIRT (India)- WHO & Sentinel project on pediatric drug resistant TB jointly organized training work shop on "Improving the quality of care for children with TB & Drug resistant TB ,17 June June 2013 to19 June 2013.NIRT, Chennai
  13. NIH CoE, Bangalore (India)- PHRI, Mc Master University(Canada) jointly organized one week training course on "Health Research Methods & Evidence Based Medicine (HRM&EVM),18 Nov 2013.to 23 Nov 2013.St. John,s Medical College and Research Institute, Bangalore
  14. National Academy of Medical Science (India)- organized CME PROGRAM on "Tuberculosis in Children 28 Nov 2013,S.N.Medical College , Agra
  15. Training course on HIV TB collaborative project on OD vs INT anti TB treatment on HIV TB patients. 23 May 2014 24 May 2014 NIRT, Chennai
  16. 8th National CME cum Orientation of IAL session 2015, SNMC, Agra , 9/10/2015
  17. 33rd Round Table conference on “Strategies for Elimination/Eradiation of Leprosy “ organized by Ranbaxy Science Foundation at Delhi on 4th Feb 2015.
  18. OSP on training of liaison officers for ICMR at ISTM New Delhi from 18th Nov to 23th Nov 2014.
  19. 1 Day seminar to frame/revise standard case definitions of various Terms being used under the National Leprosy Eradication Programme, held on 25th May 2016.
  20. Work shop for making of Manuals for Medical officers and health workers for MIP vaccine and Rifampicin prophylaxis for implementation at endemic district organized by ICMR & CLD at Delhi from 8th Aug to 10th Aug 2016.
  21. Symposium on " Relapse and Drug resistance: Present Scenario and Critical Issues" organized by TLM , Delhi on 29th November 2017
  22. CME organized by Indian journal of pediatrics and S N Medical College, AGRA On "Recent advances in pediatrics 17 Feb 2019 at Agra.
  23. CME organized by core committee RNTCP- SNMC, AGRA On "Newer Modalities in diagnosis &treatment of tuberculosis held on 18 Feb 2019 at S N Medical college , Agra.
  24. Attended 2 day training course entitled" Research Ethics &Good Practice –Current Scenario held on 15-16 Jan 2018 at NJIL&OMD ,Agra
  25. Experts group meeting to finalize the protocol of Multi-centric clinical trial “Clinical Trial on Prevention of Disability in Persons Affected with Leprosy through Homeopathy”ev on 5th March 2019 at ICMR –HQ, New DELHI.
  26. e –training course on “ Introduction to good clinical laboratory practice” with a 90% provided by Global Health Training Centre on 4th April 2019 Global Health Training Centre .WHO
  27. e –training course on “ ICH GOOD CLINICAL PRACTICE E6 (R2) ” with a 94% score, 3 June2020, Global Health Training Centre .WHO

- National Conferences/Seminars/Meetings attended: 75
- International Conferences/Seminars attended: 5

1. 17th International Leprosy Congress at Hyderabad during 30<sup>th</sup> JAN-4<sup>th</sup> FEB,2008 and presented a paper entitled “ Evaluation of the effect of addition of immunotherapy with Mw vaccine to standard chemotherapy in borderline leprosy”.

2. 3<sup>rd</sup> International Conference on TB Vaccine for the world at CDC, Atlanta Georgia , USA , 9<sup>th</sup>-11<sup>th</sup> April 2008. and presented a poster entitled “ A follow up study of clinical and histopathological evaluation of the immunotherapeutic effect of Mycobacterium W (Mw) vaccine in borderline leprosy”.

3. 11<sup>th</sup> World Congress of Pediatric Dermatology (WCPD-2009),Bangkok,Thailand,17-20 NOV 2009, and presented a poster entitled “ A follow up study of clinical and histopathological evaluation of the immunotherapeutic effect of Mycobacterium W (Mw) vaccine in borderline paediatric leprosy.

4. 20<sup>th</sup> International Leprosy Congress (Lepcon-20), Manila, Philippines 10<sup>th</sup> -13<sup>th</sup> September 2019 and presented a paper “Dermal Proteomic analysis of borderline leprosy to identify the changes in expression of proteins in response to chemotherapy and chemotherapy with immunotherapy( A double blind randomized placebo controlled study.) Session chaired by Dr. Steven Reed, President-CEO & Founder, Infectious Disease Research Institute, USA. This was the first dermal proteomic report presented in the congress in borderline leprosy patient using chemotherapy and chemotherapy plus immunotherapy.

5. 21<sup>st</sup> International Leprosy Congress (Lepcon-21), Hyderabad , India 8<sup>th</sup> -11 November 2022 and presented a paper “Evaluation of diagnostic efficacy of R-Lep- PCR , Multiplex-PCR & Loop-mediated isothermal amplification (LAMP) methods in paediatric leprosy.

Chaired the session and lectures delivered in many National conferences and in CME etc.

More the 50 Awareness Workshop / Reconstructive camps /rehabilitation camps and webinar were organized for the leprosy patients till date as a part of IEC activities of NELP.

Imparting training, teaching, and research guidance as a faculty for annual human resource development programme of the institute

- Imparting training, teaching, and research guidance to various under graduate and post graduate student of biotechnology, Biochemistry, Microbiology, Immunology attending the summer training as annual programme of institute . training imparted in various aspect of clinical medicine including tools and techniques and also to project trainees, Research scholars, Ph.D Students .
- Conducting Tour classes for MBBS Students of S.N. Medical College, Agra and Nursing students of other colleges and schools visiting our institution annually .
- Imparting training to Medical officers /Post graduates MD Students in various disciplines of clinical leprosy by organising 1-2 weeks training workshops/webinars visiting our institution annually as covered under the National Leprosy Eradication Programme.
- Imparting training to Health workers/ ASHAs/ Nursing attendants in care / managements/rehabilitation of leprosy patients by organising 1-2 weeks training workshops/webinars visiting our institution annually as covered under the National Leprosy Eradication Programme.
- Supervising the MD Thesis work of the post graduate MD students in pediatrics , Medicine and other disciplines of S.N.Medical college. Agra as a collaborative association with Medical colleges. 29 MD Students of pediatrics and other subjects of S.N.Medical college. Agra have completed their thesis work under supervision . 5 MD Students of pediatrics & other subjects are under supervision for their assigned thesis work.
- 14 MSc Student have completed their Dissertation work and 2 are assigned currently
- Reviewing applications for Short Term Studentship (STS) in annual program of ICMR for MBBS Students and also reviewing on line Extra Mural Research Projects from ICMR for eligibility of funding as assigned annually . Reviewing publications of International/National Journals as assigned.

Administrative work - contributing significant time of my duties for promotion and development of facilities and activities as a Chairperson, Nodal officers & as a member of various committees of the institute.