

Curriculum Vitae- Dr Kuldeep Singh

Name	DR KULDEEP SINGH
Qualifications	MBBS, MD (Pediatrics) DM (SGPGI Lucknow) MCI registration- UP-32146, MP- 7580
PRESENT POSITION	Head, Medical Education Technology Professor and Head, Pediatrics Former and First Dean Academics, Academic Head, School of Public Health All India Institute of Medical Sciences, Jodhpur-342005 <u>INDIA</u>
EMAIL:	kulpra@hotmail.com ; singhk@aiimsjodhpur.edu.in
Website:	www.drkuldeep.org
Field of Interest:	Medical Education and Healthcare Innovations, Public Health, Adolescent & Child Health, Medical Genetics.



Brief Summary

Dr Kuldeep Singh completed his MBBS and MD Pediatrics from KGMU, Lucknow and DM in Medical Genetics from SGPGI Lucknow. Worked as Dean Academics, Academic Head, School of Public Health and Head Pediatrics at AIIMS Jodhpur, Dr Singh nurtured medical education as a co-convenor for MCI designated Regional Training Centre for Medical Education Technology. Awarded FAIMER fellowship for Educational Leadership (2011) and elected as a Fellow of National Academy of Medical Sciences (India) in 2014. He is an Editor of Annals of the National Academy of Medical Sciences (India) and reviewer for many journals. He is also a member of various national, regional and institutional committees including Research Advisory Committee, GOI, for Model Rural Health Research Unit at Jaipur, Rajasthan, and State Rare Disorder Committee. He is Principal Investigator for multiple projects including Department of Biotechnology (DBT) supported National Inherited Disorders Administration (NIDAN) Kendra and Health Technology Assessment (HTAIn) at AIIMS Jodhpur, India. Extensively studied needs of children and adolescent's school health education of our society as part of a project on Adolescent Sexual and Reproductive Health funded by Grand Challenges Canada. Appointed Council Member for India-Sweden Innovation hub in February 2020 and in-charge of Innovation Center at AIIMS Jodhpur. He has experience of working with people in Tribal area and desert region with thrust on enquiry for their indigenous practices for common prevalent conditions. Dr Singh has a huge interest in using technology for Education & healthcare improvement. He has worked in the area of Tele-health for remote areas. Dr Singh initiated DM in Medical Genetics at AIIMS Jodhpur and three batches have joined the course. He has more than 200 major publications in National and International journals. He has a special interest in Public Health and in developing and mentoring for innovative medical technologies.

Educational Qualifications

University attended	Subject	Degree earned	Year
Sanjay Gandhi Post graduate Institute of Medical Sciences, Lucknow, India	Medical Genetics	DM	1995
King George's Medical University	Pediatrics	MD	1991
King George's Medical University	Medicine & Surgery	MBBS	1988

Courses Taught: MBBS, MD, MPH, Basic Course in Medical Education technology for Faculty, Conducted workshops and compiled Learning Resource Materials

Services and Innovations:

1. Developed device for Sweat Chloride testing at SGPGIMS, Lucknow in 1994
2. Web based telemedicine introduced at Dharan, Nepal- presented a paper at MMVR, Los Angeles, California 2002
3. Introduced and validated **Flipped Classroom** teaching at AIIMS Jodhpur 2015.
4. Developing and validating **AIIMS Jodhpur Model of Medical Education** with Integrated teaching and Problem Based Learning in-built into the system of UG MBBS course.
5. Piloted Computer Based Objective assessment using multimedia for medical students
6. Introduced integrated multispecialty OSCE having 50 stations including telephonic station to improve quality of Clinical training
7. Piloted use of Flipped class in reducing duration of IMNCI training Module for UG
8. Digital Karyotyping- 2001; got ICHG fellowship for presenting paper at Vienna, Austria
9. Web based Learning using MOODLE as Learning Management System and multimedia presentations.
10. Introduced **Audience Response System** (Clickers) in the student learning methods to increase engagement of students.
11. Team member for Public Lecture for Health awareness at AIIMS Jodhpur
12. Initiated Online Teaching Learning during COVID-19 and involved faculty in Quality Improvement in Medical Education
13. Impact of teleconsultation and telemedicine

Professional Positions Held

Name of Institution	Designation	Type of Duties & Work/ Courses Taught	From	To
King George's Medical College, Lucknow, India	House-officer Pediatrics and Junior Resident	UG Teaching/Routine & on call Hospital, Taught MBBS students	1988	1991
-DO-	SR	Worked as a Chief Resident Pediatrics with administrative responsibilities and teaching UG Pediatrics	1991	1992
Sanjay Gandhi PGIMS, Lucknow, India	Senior Resident	Teaching, training and Research, Work-up of Genetic disorders, managed Thalassemia/Hemophilia/ Genetic conditions	1993	1996
B.P. Koirala Institute Of Health Sciences, Dharan, Nepal	Assistant Professor Pediatrics	UG Teaching/ Setting up of Genetic Clinic/ Tropical medicine. Started Cyto-genetic lab/ UG & PG Teaching. Initiated PICU/NICU	1996	2002
Himalyan Institute Of Medical Sciences, Dehradun, INDIA	Associate Professor Pediatric	UG/PG Teaching/ General Pediatrics/	2002	2003
Sri Aurobindo Institute Of Medical Sciences, Indore, India	Associate Professor Pediatrics	Clinical work, Teaching and training of UG and PG, administrative. Involved in Research in Pediatrics	2004	2007
-Do-	Professor & Head Pediatrics	Administrative, Member Ethics Committee, Medical Education Unit Co-ordinator, Co-convenor, MCI Regional Training Center for Medical Education Technology for faculty from Bihar & MP	2007 2011	2013 2013
All India Institute of Medical Sciences, Jodhpur	Additional Professor and Head, Pediatrics and Consultant Genetic Services	UG Teaching, Co-ordinator Clinical Postings and Medical Education	2013	2016

All India Institute of Medical Sciences, Jodhpur	Professor and Head, Pediatrics and faculty Genetic Services	UG Teaching, Co-ordinator Clinical Postings and Medical Education, Coordinator, National Academy of Medical Science Center for Research in Medical Education	April 2016	Till date
All India Institute of Medical Sciences, Jodhpur	Dean Academics	Responsible for curricular development, implementation, enhancing student's learning, faculty development and facilitation	Dec 2016	Dec 2023
All India Institute of Medical Sciences, Jodhpur	Member, Governing Council, India-Sweden Innovation Hub, AIIMS Jodhpur	Policy decisions, idea generation, monitoring of innovations	Feb 2020	Till date
All India Institute of Medical Sciences, Jodhpur	Head, Department of Medical Education Technology	Education workshops, faculty development, innovations in teaching and learning	Nov 2021	Till date
All India Institute of Medical Sciences, Jodhpur	Officiating Head, MD Family Medicine	Curriculum development, implementation, training of PG	January 2024	Till date

Administrative Expereince (in following categories)					
(i) Head of Institute	Given charge as officiating Director from 1 st September to 21 st September 2022.				
(ii) Head of Department	Pediatics, Sri Aurobindo Institute of Medical Sciences, Indore	01 October 2007	13 April 2013	5 years 6 months	
(iii) Medical Superintendent	Not Applicable				
(iv)Head of clinical Department	Pediatics, AIIMS, Jodhpur	22.04.2013	Till date	10 years 6 months	
(v)Head of Unit	Not Applicable				

vi)Dean Academics	AIIMS Jodhpur	14.12.2016	13.12.2023	7 years
(vii)Sub- Dean	Not applicable			
(viii)Experience similar to above	Faculty-in charge OPD, AIIMS Jodhpur	27.07.2013	13.12.2016	3 years 4 months
	Co-convenor, MCI Regional Center for Medical Education technology, SAIMS, Indore	May 2011	April 2013	3 years
Total Period of Standing in the Profession: About 42 Years				
Total Teaching Experience: About 38 Years				
Total Administrative Experience: 19 years				

Additional Information in leadership roles:

- Given charge as Officiating Director from 1st September to 21st September 2022
- As Dean Academics, supported and nurtured following academic activities at Institute:
 - a. Initiating new program jointly with IIT Jodhpur- Masters in MedTech. A unique program bridging doctors and engineers
 - b. Initiating and nurturing MD-PhD program
 - c. Curriculum planning, drafting, approvals, offering implementation support and continuous quality improvement in teaching.
 - d. Decision making for medical education during pandemic- preparing guidelines for offline and online teaching, triaging and customizing training program.
 - e. Preparing integrated teaching and Unconventional Learning experiences.
 - f. Special invitee for Academic Committee and Governing Body Meetings of Institute.
 - g. Overlooking teaching, training of residents and their research, career and working condition optimization as per institute policy
 - h. Supporting students welfare activities including “Student Innovations & Research Initiatives (SIRI), Institute Innovation Council, mentoring support groups.

- Instrumental in getting 13th rank in National Institutional Ranking Framework (NIRF 2023) by Ministry of Education, Government of India
- Instrumental in leading AIIMS Jodhpur stand 6th best institute in Medical Category in India Today ranking 2022 and 2023.
- Established “Satellite Tribal Health Research Center” at Abu Road, Sirohi with support of Ministry of Tribal Affairs
- Appointed as Head of Department of Medical Education Technology, AIIMS Jodhpur
- Appointed as a member in a Committee at National Medical Commission, New Delhi
- Associate Editor, Annals of the National Academy of Medical Sciences, an official publication of National Academy of Medical Sciences (India)
- Initiated DM in Medical Genetics and DM in Pediatric Pulmonology in Pediatrics Dept
- Convenor of the committee for initiating Telemedicine –forward triage and follow up of patients with COVID-19 under home isolation
- Faculty and Panelist for “Topic : Skill labs operationalization - Challenges & the way forward” organized by AIIMS Delhi on 28 August 2021
- In-charge for involving medical students in COVID-19 management through Telemedicine in May-July 2021
- Represented AIIMS Jodhpur in various meetings especially Chintan-Shivir by MoHFW 1-2 September 2022 at New Delhi.
- Convenor for developing “**Family Medicine**” program at new AIIMS and officiating head of the same at AIIMS Jodhpur.
- Member, Sub-committee, Biomedical Device and Technology, Development (BDTD), Technology Development & Transfer Division, Department of Science and Technology, Government of India 2022
- Nodal Officer, Center of Excellence for Rare Diseases, AIIMS Jodhpur since October 2022.
- Member of Scientific Advisory Committee of ICMR DHR supported “Model Rural Health Research Unit (MRHRU)”, Bhanpur Kalan, Jaipur under NIIRNCD,

Jodhpur since 2014

- Member, Expert Group, Standard Treatment Guidelines (STGs) for Pediatrics, ICMR 2018
- Council member of Indo-Sweden Innovation Advisory Committee 2020-23

MAJOR PUBLICATIONS:

1. Bhattacharyya C, Subramanian K, Uppili B, Biswas NK, Ramdas S, Tallapaka KB, Arvind P, Rupanagudi KV, Maitra A, Nagabandi T, De T, **Singh K**, Sharma P, Sharma N, Raghav SK, Prasad P, Soniya EV, Jaleel A, Nelson Sathi S, Joshi M, Joshi C, Lahiri M, Dixit S, Shashidhara LS, Senthil Kumar N, Lalhrualtuanga H, Nundanga L, Shivakumar V, Venkatasubramanian G, Rao NP, Ganie MA, Wani IA, Jha G, Dalal A, Bashyam MD, Varadwaj PK, Bs S, Simmhan Y, Jain C, Sundar D, Gupta I, Yadav P, Sinha H, Narayanan M, Raman K, Padinjat R, Sabarinathan R; GenomeIndia Consortium; Narahari Y, Ravindranath V, Kumarasamy T, Sowpati DT, Faruq M, Basu A, Kahali B. Mapping genetic diversity with the GenomeIndia project. *Nat Genet.* 2025 Apr;57(4):767-773. doi: 10.1038/s41588-025-02153-x. PMID: 40200122.
2. Patel M, Goel AD, Saini L, Kaushal R, Mathur D, Mittal AK, Rajial T, **Singh K**. Prevalence of pediatric and adolescent epilepsy in India: A systematic review and meta-analysis. *Seizure.* 2025 Apr;127:36-43. doi: 10.1016/j.seizure.2025.02.012. Epub 2025 Feb 21. PMID: 40049017.
3. Suman S, Tiwari AK, Sachan S, **Singh K**, Meena S, Kumar S. Severity grading of hypertensive retinopathy using hybrid deep learning architecture. *Comput Methods Programs Biomed.* 2025 Apr;261:108585. doi: 10.1016/j.cmpb.2025.108585. Epub 2025 Jan 15. PMID: 39862474.
4. Kumar D, Awasthi S, Mahdi AA, Singh S, Pandey AK, Agarwal GG, Anish TS, A R S, Kar S, Nair S, Mathew JL, Bhat MA, Mahanta BN, **Singh K**, Singh CM. Assessment of Blood Lead Level of School Children in 10 Cities of India: A Cross-Sectional Study. *Indian J Pediatr.* 2025 Feb;92(2):131-137. doi: 10.1007/s12098-023-04864-7. Epub 2023 Nov 3. PMID: 37919485.
5. Singh P, Trakroo A, Sharda S, Agrawal P, Kar SS, Joshi B, Bali S, Bhattacharya S, **Singh K**, Albert S, Goyal A, Sharma S, Aggarwal AK, Kotwal A, D'Aquino L, Prinja S; CPHC-CORE Study Team. Evaluating the costs, work patterns and efficiency (CORE) of comprehensive primary healthcare (CPHC) in India (The CPHC CORE study): a top-down micro-costing study protocol. *BMJ Open.* 2025 Mar 5;15(3):e093430. doi: 10.1136/bmjopen-2024-093430. PMID: 40044205; PMCID: PMC11883549.
6. **Singh, K.**, Shekhawat, D.S., Sharma, C. *et al.* Empowered Prenatal Choice-Making as a Simple Tool to Reduce Disease Burden in Severe Haemoglobinopathies by HBB Gene Variant Analysis, Prenatal Diagnosis and Genetic Counselling. *Indian J Hematol Blood Transfus* (2025). <https://doi.org/10.1007/s12288-025-01967-3>

7. Dolat Singh Shekhawat, Tanuja Rajial, Siyaram Didel, Abhishek Purohit, **Kuldeep Singh**. Thalassaemia major due to compound heterozygous Codon 8/9 (+G) mutation with Dutch beta° thalassaemia deletion. *Pediatric Hematology Oncology Journal* 2025; 10: 48-50,
8. Pradeep Babu UN, Toteja N, Choudhary B, **Singh K**, Didel S, Khera D. Sedative and Analgesic Drug Rotation Protocol Versus Non-Rotation Protocol in Mechanically Ventilated Children: A Randomised Controlled Trial. *Indian J Pediatr*. 2025 Mar 5. doi: 10.1007/s12098-025-05447-4. Epub ahead of print. PMID: 40042783.
9. Tiwari K, Mittal A, Sureka B, Narayanan D, Nalwa A, Vishwajeet V, Banerjee M, Goel AD, Varthya SB, Tiwari K, Sinha A, **Singh K**. Utility of shear wave elastography in evaluation of children with chronic kidney disease. *Pediatr Nephrol*. 2025 Jun;40(6):2021-2028. doi: 10.1007/s00467-024-06573-5. Epub 2024 Nov 18. PMID: 39556210.
10. Kumar M, Sharma S, Pandey S, Mammayil G, Pala Kuzhiyil A, Sreesh S, Arakkal R, Radhakrishnan DM, Rajan R, Amalnath D, Gulati R, Tayade N, Sadasivan S, Valsan A, Menon J, Kamate M, Mathur SK, Mahadevan R, Dhingra B, Rajan R, Singh K, Shalimar, Geevarghese SK, Kumar VS, Menachery J, Aliyar A, Bhoyar RC, Jolly B, Jain A, Vittal Rangan A, Moitra T, Mhaske A, Gupta V, Senthivel V, Mishra A, Saini A, Gaharwar U, Sivasubbu S, Scaria V, B K B. The Genomic Landscape of Wilson Disease in a Pan India Disease Cohort and Population-Scale Data. *Mov Disord Clin Pract*. 2025 Feb;12(2):185-195. doi: 10.1002/mdc3.14266. Epub 2024 Nov 13. PMID: 39535360; PMCID: PMC11802660.
11. Feigin, Valery L et al. Global, regional, and national burden of stroke and its risk factors, 1990–2021: a systematic analysis for the Global Burden of Disease Study 2021. *The Lancet Neurology*, 2024; Volume 23: Issue 10, 973 – 1003
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13. Kumar PK, Japa P, Tomo S, Sankanagoudar S, Purohit P, Charan J, Purohit A, Nag VL, Bhatia PK, **Singh K**, Dutt N, Garg MK, Misra S, Sharma P, Yadav D. Exploring Micronutrient Dynamics in COVID-19 Severity and Mortality: Unraveling the Roles of Vitamin D, Calcium, Phosphorus, Magnesium and ALP. *Indian J Clin Biochem*. 2024 Oct;39(4):548-556. doi: 10.1007/s12291-024-01225-9. Epub 2024 Apr 21. PMID: 39346709; PMCID: PMC11436677.
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18. Dwivedi R, Goel P, Jain R, Sharma A, Dwivedi P, Singh P, **Singh K**. Burden and pattern of diseases among tribes of South-West Rajasthan. *J Family Med Prim Care*. 2025 Jan;14(1):167-172. doi: 10.4103/jfmpc.jfmpc_868_24. Epub 2025 Jan 13. PMID: 39989544; PMCID: PMC11844946.
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21. Shekhawat DS, Didel S, Dixit SG, Singh P, **Singh K**. Carrier Screening and Diagnosis for Spinal Muscular Atrophy Using Droplet Digital PCR Versus MLPA: Analytical Validation and Early Test Outcome. *Genet Test Mol Biomarkers*. 2024 May;28(5):207-212. doi: 10.1089/gtmb.2023.0073. Epub 2024 Mar 27. PMID: 38533877.
22. Bhardwaj N, Ghatak S, Nayyar AK, Banerjee S, Gaur R, **Singh K**, Garg PK, Ramanathan HP, Prabhath S. Development of interprofessional educational module for understanding the musculoskeletal basis of sports injury. *J Family Med Prim Care*. 2024 Oct;13(10):4598-4604.

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23. Patel M, Mantri N, Joshi N, Jain Y, Goel AD, Gupta M, Srinivasan S, Yadav V, Joshi V, **Singh K**, Bhardwaj P. Is anxiety a public health problem among older adults in India: Results from a systematic review and meta-analysis. *J Family Med Prim Care*. 2024 Jul;13(7):2545-2554. doi: 10.4103/jfmpc.jfmpc_1664_23. Epub 2024 Jun 28. PMID: 39071033; PMCID: PMC11272018.
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26. Shekhawat DS, Sharma C, Tada N, Singh P, **Singh K**. "Not all De novo Robertsonian translocations are truly De novo" - A thought-provoking perspective. *Taiwan J Obstet Gynecol*. 2024 May;63(3):439-440. doi: 10.1016/j.tjog.2024.03.017. PMID: 38802219.
27. Gunasekaran PK, Shanmugasundaram D, Santhanam S, Verma S, **Singh K**, Dwivedi B, Awasthi S, Singh H, Sangappa M, Mondal N, Sreenivasan P, Saradakutty G, Malik S, Jain M, Viswanathan R, Sapkal G, Tripathi S, Patel B, Jain MK, Naganur SH, Baranwal A, Rohit MK, Deora S, Sharma A, Anantharaj A, Pillai LS, Kumar A, Ramasamy S, Rajendran PP, Singh MP, Ratho RK, Nag V, Gadepalli R, Mishra B, Som TK, Jain A, Devara SM, Vannavada SR, Munivenkatappa A, Abraham AM, Dhodapkar R, Ali S, Biswas D, Pratkeye D, Bavdekar A, Prakash J, Ray J, Murhekar M; for CRS Surveillance Group. Profile of cardiac lesions among laboratory confirmed congenital rubella syndrome (CRS) infants: a nationwide sentinel surveillance, India, 2016-22. *Lancet Reg Health Southeast Asia*. 2023 Aug 24;16:100268. doi: 10.1016/j.lansea.2023.100268. PMID: 37662056; PMCID: PMC10474486.
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207. Agarwal S, Gulati R, **Singh K** : Hemoglobin E-Beta Thalassemia in Uttar Pradesh. Indian Pediatr 1997; 34 :287-292.(**PMID:9332092**)
208. G K Malik, **K Singh**, B Sharma, PK Misra, V Das, P Sitholey: Behavior development in normal neonates. Indian Pediatr 1993; 30:1003-1009. (**PMID:8125569**)

B. Chapters in Books

1. **Singh K**, Srivastava S, Dixit S et al. medical education during the COVID-19 pandemic. Chemistry World 2022
2. Gupta P, **Singh K**. Child Health Services, section 10.1 In Essential Preventive Medicine. Eds O P Ghai & Piyush Gupta. Vikas Publishing House, New Delhi, 1999
3. Singh K, Gupta P. Indicators of Child Health. Section 10.2. In Essential Preventive Medicine. Eds O P Ghai & Piyush Gupta. Vikas Publishing House, New Delhi, 1999
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5. **Singh K**. The Children's vaccine Initiative. Section 10.8. In Essential Preventive Medicine. Eds O P Ghai & Piyush Gupta. Vikas Publishing House, New Delhi, 1999.

6. **Singh K.** Advances in management of Ocular Genetic disorders. In Recent advances in Ophthalmology. 9th Edition 2009. Eds- H V Nema and N Nema. Jaypee Publisher, New Delhi
7. **Singh K.** Genetic Counseling. In IAP Pediatrics for Practitioners. Eds S Thora
8. **Singh K.**, Elhence A. Skeletal Dysplasia. In PG Textbook of Pediatrics, Editors Piyush Gupta , PSN Menon , Siddarth Ramji , Rakesh Lodha. 1st Edition , JayPee Publishers, New Delhi, 2015.
9. **Singh K.**, Elhence A. Skeletal Dysplasia. In PG Textbook of Pediatrics, Editors Piyush Gupta , PSN Menon , Siddarth Ramji , Rakesh Lodha. 2nd Edition , JayPee Publishers, New Delhi, 2015
10. Kumar R, Kosta S, Singh P, **Singh K.** DNA Fingerprinting: Principle and Methods. In The Wonderful World of Clinical Genetics, Editors Shubha Phadke, JP Soni, Ashwin Dalal, Kuldeep Singh, Raj Printing Press, Jodhpur. Released during IAMGCON 2015, 12th December 2015 at AIIMS Jodhpur
11. **Singh K.**, Singh P, Kumar R. Public Health Genetics. In Essential Preventive Medicine. Ed Piyush Gupta CBS publisher, New Delhi 2016

B. Scientific meetings presentations:

Presented scientific papers, posters, research work in various meetings in India and abroad.

1. Participated as a principal investigator and panelist for “Stimulating and Cross Learning” at 2nd NIHR Global Health Research center symposium 1-3 April 2025, Leicester, UK
2. Delivered a lecture “**India in Action for One-Health: Going beyond the boundaries of the profession**” at Sun Pharma Scientific symposium in collaboration with National Institute of Animal Biotechnology, Hyderabad on 3rd February 2025
3. Moderator for panel discussions on the “Theme: Genetics and Tribal Health- Reshaping Perspective” on 1st February 2025 at AIIMS Nagpur under aegis of MUHS as part of “First International Symposium on Tribals (FIST).
4. Participated in “Brainstorming Session for the Tribal Health Conclave (NTHC) on 3rd January 2025 at Board room, AIIMS New Delhi.
5. Visited Regional Institute of Medical Sciences, Imphal, Manipur as an expert to review feasibility as a “Center of Excellence for Rare Diseases on 27-28 December 2024.
6. Presented a paper at American Society of Medical Genetics conference at Denver, USA 4-9 November 2024
7. Participated as a investigator for review meeting of NIHR GHRC on Multiple Long Term Conditions at Leicester, UK September 2024.
8. Guidelines for Pediatric Hypertension. Presented at PEDICON 2018 at Nagpur

9. Non-invasive prenatal testing. Presented at MEDLAB Congress held from 5 - 8 February 2018 at the Dubai International Convention & Exhibition Centre, Dubai, UAE
10. **"Should we 'flip' the classroom for UG teaching?"** at 5th Annual National Conference on Pediatric Education, 23rd September 2017, Pune
11. "Challenges in Clinical Diagnosis and Management of Parasitic Infections" at 3rd RajTROPACON organized by Department of Microbiology, Dr S N Medical College, 14th October 2017, Jodhpur
12. Singh K, Singh P. Using Flipped Class to Enhance Medical Student's Active Learning. 22nd Medicine Meets Virtual Reality (MMVR) Conference, 7-9 April 2016, Los Angeles, USA
13. **Singh K**, Singh P, Gehlani P. Student's Perception toward Objective Structured Clinical Examination (OSCE) as a teaching learning tool. 22nd Medicine Meets Virtual Reality (MMVR) Conference, 7-9 April 2016, Los Angeles, USA
14. **Singh K**, Bajaj J S. Using Technology to deliver Cost-effective Continuing Professional Development (CPD). Presented as a Panel symposium at 8th Asian Sleep Research Society Congress (ASRS 2014), 22-24 September 2014. Kovalam, Kerala
15. **Singh K**, Gupta N, Misra S, Bajaj JS. Optimizing the effectiveness of CME Program: NAMS Experience. Presented as a Poster at 8th Asian Sleep Research Society Congress (ASRS 2014), 22-24 September 2014. Kovalam, Kerala
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19. Challenges in Childhood Tuberculosis. At Symposium on Tuberculosis "Unite to End TB", organized by the Department of Microbiology, AIIMS Jodhpur, 21st March 2016
20. Living with Thalassemia. Symposium on Thalassemia, 31st August 2014,

Sri Aurobindo Institute of Medical Sciences, Indore

21. Genetics in Pediatrics. CME Pediatrics, Dr S N Medical College, Jodhpur, 2nd May 2014, Department of Pediatrics, Jodhpur

22. Administrative aspects of Medical Education Units. MCI Orientation workshop for MEU Co-ordinators', 19th March 2015, MCI Regional Training Center for MET, SAIMS, Indore

C. Invited Lectures:

Delivered lectures on Medical Education Technology, Integrated teaching, innovations in teaching & Learning, Medical Genetics. Major talks

- a. National Education Policy & Healthcare Professionals. Shiksha Manthan 2023 at CSJMU, Kanpur
- b. Invited for a talk "Innovations in Healthcare" Gujarat Adani Institute of Medical Sciences, 24 June 2021
- c. Invited for a talk at Pediatrics, KGMU, Lucknow

D. Articles published in Newspapers like Dainik Bhaskar and Nai Dunia, Indore for public education and awareness related to Rheumatic fever, Bronchial Asthma, Genetic Counseling, Congenital Heart disease, Research for Public, newer innovations etc.

AWARDS AND HONOURS:

1. Standing 1st among all Professors in clinical subjects for paper with highest Impact Factor for 2024 at 2nd Research Day on 20th January 2025.
2. Best department among the clinical subjects for having highest extramural grants for year 2024 at 2nd Research Day on 20th January 2025.
3. Standing 1st among all faculty members to have highest extramural grants at 1st Research Day on 13th January 2024
4. Pediatrics Judged as the best department in the institute on 1st Research Day on 13th January 2024.
5. Member, India-Sweden Innovation Council, Feb 2020
6. Winner Poster at 22nd MMVR Meeting Los Angeles 7-9 April 2016. Paper titled "**Using Flip class to enhance medical students' active learning.**"
7. Appointed "**Editor**" Annals of the National Academy of Medical Sciences (India) July 2015 till date
8. Fellowship of National Academy of Medical Sciences (FAMS) in October 2014
9. Dr Shyam Lal Saxena Award for "Using technology to deliver cost-effective Continuing Professional Development" at NAMSCON 2014, AIIMS, Rishikesh 19th October 2014
10. NAMS 2007 Amritsar Award for best award paper at NAMSCON 2014, October 2014
11. Appointed Coordinator NAMS Center for Research in Medical Education, AIIMS

12. Foundation for Advancement in International Medical Education Research (**FAIMER**) Fellow 2011 at GSMC FAIMER Regional Institute. Fellowship awarded 9th May 2013 by Professor Arun Jamkar, Vice Chancellor, MUHS.
13. Best paper Award in Oral session at 4th Annual Scientific meeting at BPKIHS, 1997 on a paper on Kala-azar in children
14. Offered Commonwealth Scholarship in Cancer Genetics toward M Phil at Charing Cross Hospital, London in 1996.
15. Fellowship by European Society of Human Genetics to present paper titled “Digital photography in Cytogenetics: An innovative and inexpensive approach” at 10th International Congress of Human Genetics(ICHG) conference, May 15- 19, 2001 in Vienna, Austria
16. Certificate of Honors in Surgery in Final MBBS, 1987, KGMU

Reviewer:

1. BMC Genetics 2014
2. BMC Medical Education 2015
3. BMJ Case Reports
4. Indian Pediatrics
5. Indian Journal of Pediatrics
6. Journals from Dove publication

Major Research Projects:

8. ONGOING RESEARCH PROJECTS				
S. No.	Title of Project	Source of Funds	Amount	Duration (from – to -)
1	PI- National Inherited Disorder Administration (NIDAN) Kendra.	DBT	Rs 150 lakhs	Completed 2019-2024
2	Stimulating Medical Students interest in Medical Genetics: Randomized Controlled trial of an Innovative Educational Intervention.	ICMR	Rs.23 Lakhs	Ongoing
3	Collaborator and Project Lead for Canadian Project, titled “Flipping to empower Adolescents for Sexual and Reproductive Health” amounting to 1 Lac Canadian Dollars.	Stars in Global Health, Grand Challenges Canada.	I Lakh Canadian Dollar	Completed

4	Health Technology Assessment India Resource Hub at AIIMS Jodhpur 2019.	DHR	Rs.48 Lakhs	Ongoing
5	Congenital Rubella Syndrome Surveillance in India- Multicentric research.	ICMR	RS.79 Lakhs	Ongoing
6	GenomIndia; Cataloguing the Genetic Variation in India.	DBT	Rs 138 Lakhs	Ongoing
7	PI for Health Technology Assessment Hub	DHR	Rs 48 Lakhs/ year	Ongoing
8	PI- Global Health Research center- Multiple Long-Term Conditions	NIHR UK	10 Crore	Ongoing
9	PI- Screening Pregnant women and Newborn for hemoglobinopathies and IEM in District Sirohi	DBT	3.9 Crore	Ongoing (initiated in October 2024)
10.	One Health Consortium	DBT	48 lakhs	Ongoing
11	STHR	Ministry of Tribal Affairs	5 crores	Ongoing
12.	Biodesign Consortium with IIT Jodhpur	DBT	48 lakhs	Ongoing
13	Clinical Validation and Development of Surgical Instrument for Intra-Operative Detection of Nerves to Prevent Iatrogenic Injuries	ICMR	2.7 Crores	Ongoing
9.	RESEARCH PROJECTS COMPLETED DURING THE LAST THREE YEARS			
S. No.	Title of Project	Source of Funds	Amount	Duration

				(from – to --)
1	Hospital Based Surveillance for Streptococcus Pneumoniae and other Invasive bacterial Diseases (HBSSIBD).	Funded by ICMR, NIE Chennai.	Rs 22 Lakhs	Completed in June 2018.
2	“Using Flip class to Enhance Medical Students’ Active Learning”	Intramural funding, AIIMS Jodhpur.	Rs 2 Lakhs	2018.
3	“Using audio-visual “Nudges” to Optimize Healthcare Delivery and Utilization’	Intramural finding, AIIMS Jodhpur	Rs 4 lacs	2020

1. ICMR (funding Rs 58 Lacs, completed). “Effectiveness of diet and lifestyle intervention through Information Education Communication (IEC) tools with Angan Wadi Centres (AWCs) as the centre of knowledge dissemination for hypertension (including hypercholesterolemia and diabetes) risk reduction – a cluster randomized controlled trial”. Initiated as Principal Investigator for 1 year but handed over to Co- PI Dr Jyoti Sanghvi as I moved to AIIMS, Jodhpur
2. “Improving health and nutritional status of vulnerable segment of population by implementing multi-component health and nutrition education intervention as a sustainable model of intervention”. (As Collaborator from AIIMS Jodhpur)
3. “Using Flip class to Enhance Medical Students’ Active Learning”- Intramural fund AIIMS, Jodhpur
4. Hospital Based Surveillance for Streptococcus Pneumoniae and other Invasive bacterial Diseases (HBSSIBD). Funded by ICMR, NIE Chennai with fund value Rs 22 Lakhs Completed in June 2018.

Contribution in Medical Education

1. Administrative-

- a. Head, Department of Medical Education Technology, AIIMS Jodhpur
 - b. Co-convenor, MCI Regional Training Center, SAIMS, Indore 2011-2013
 - c. Coordinator National Academy of Medical Sciences (India) Center for Research in Medical Education at AIIMS, 2014 till date
 - d. Dean Academics, AIIMS Jodhpur December 2016-2023
 - e. Academic Head, School of Public Health since 2017-2022
 - f. Head Pediatrics, AIIMS, Jodhpur and SAIMS, Indore, India since 2013
 - g. Faculty In-charge OPD AIIMS, Jodhpur, 2013-2016
 - h. Member, Institute Human Ethics Committee
 - i. Coordinator Institutional Clinical Grand Rounds
2. Introduced **Public Awareness lectures** on common health issues in Western India.
 3. Participated in Community Health Program in Nepal, tribals of Madhya Pradesh, Rajasthan

Conferences Organized:

1. Organizing chairman for “64th Annual Conference of National Academy of Medical Sciences, NAMSCON 2024” 21-24 November 2024 at AIIMS Jodhpur
2. Convenor of National CME “One-Health: Let us Collaborate to Take Care of our Health” on 22nd November 2024
3. 7th National Conference on Pediatric Education (NCPE 2019) on 3-5 November 2019 with theme “**Competency Based Medical Education -From Learning to Doing**”
4. 2nd Annual Conference of Indian Academy of Medical Genetics, IAMGCON 2015 at AIIMS Jodhpur 11-13 December 2015
5. 7th SIMULUS at AIIMS Jodhpur 3-7 September 2022.
6. Pediatric Emergency Update and conference 18-20 October 2024.
7. Organizing Chairman 64th Annual Conference of the National Academy of Medical Sciences (India), NAMSCON 2024 at AIIMS Jodhpur from 21-24 November 2024.

Workshops Organized:

1. Harmful effects of Alcohol: Need for an evidenced based National policy. NAMS Center for Research in Medical Education, AIIMS Jodhpur, AIIMS Jodhpur and Dr S N Medical College using National Knowledge Network for Video conferencing, 30th January 2015
2. Emerging Epidemic of Obesity: Causes, concerns and consequences. NAMS Center for Research in Medical Education, AIIMS Jodhpur, AIIMS Jodhpur, 12th March 2015
3. A live telecast of the National CME organized by Department of Psychiatry & National Drug Dependence Treatment Centre, AIIMS Delhi on "Emerging issues in substance use disorders" by AIIMS Delhi & NAMS on 22nd July 2017
4. Interventional Radiology Workshop on Musculoskeletal Spinal Pain Management on Thursday the 24th Aug.2017 held at Kamla Raheja Auditorium and relayed through VC at AIIMS Jodhpur

5. A workshop on Nutrition Assessment organized by National Academy of Medical Science, Delhi on 06th Oct 2017.
6. A symposium on “Food Fortification for Improving Micronutrient Intakes” organized by National Academy of Medical Science, Delhi on 29th Nov 2017 and AIIMS Jodhpur participated.

Papers Presented/Lectures given:

1. Presented a paper titled “Phenotypic characterization of Global Developmental Delay and Intellectual Disability of genetic etiology” on 7th November at ASHG 2024 conference at Denver, Colorado, USA 5-9 November 2024.
2. Presented a talk on “Metabolic Disorders” at APAN56 meeting online on 21st August 2023
3. Guidelines for Pediatric Hypertension. Presented at PEDICON 2018 at Nagpur
4. Non-invasive prenatal testing. Presented at MEDLAB Congress held from 5 - 8 February 2018 at the Dubai International Convention & Exhibition Centre, Dubai, UAE
5. "Should we 'flip' the classroom for UG teaching?" at 5th Annual National Conference on Pediatric Education, 23rd September 2017, Pune
6. “Challenges in Clinical Diagnosis and Management of Parasitic Infections” at 3rd RajTROPACON organized by Department of Microbiology, Dr S N Medical College, 14th October 2017, Jodhpur
7. Singh K, Singh P. Using Flipped Class to Enhance Medical Student’s Active Learning. 22nd Medicine Meets Virtual Reality (MMVR) Conference, 7-9 April 2016, Los Angeles, USA
8. Singh K, Singh P, Gehlani P. Student’s Perception toward Objective Structured Clinical Examination (OSCE) as a teaching learning tool. 22nd Medicine Meets Virtual Reality (MMVR) Conference, 7-9 April 2016, Los Angeles, USA
9. **Singh K**, Bajaj J S. Using Technology to deliver Cost-effective Continuing Professional Development (CPD). Presented as a Panel symposium at 8th Asian Sleep Research Society Congress (ASRS 2014), 22-24 September 2014. Kovalam, Kerala
10. **Singh K**, Gupta N, Misra S, Bajaj JS. Optimizing the effectiveness of CME Program: NAMS Experience. Presented as a Poster at 8th Asian Sleep Research Society Congress (ASRS 2014), 22-24 September 2014. Kovalam, Kerala
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16. Genetics in Pediatrics. CME Pediatrics, Dr S N Medical College, Jodhpur, 2nd May 2014, Department of Pediatrics, Jodhpur
17. Administrative aspects of Medical Education Units. MCI Orientation workshop for MEU Co-ordinators’, 19th March 2015, MCI Regional Training Center for MET, SAIMS, Indore

Conferences/Workshops attended:

1. Capacity Building in Competency based Medical Education at AIIMS, New Delhi, 11-12 October 2015
2. 55th Annual National Academy of Medical Sciences Conference, 15-16 October 2015, AIIMS Patna.
3. 5th Annual conference of Indian Academy of Biomedical Sciences, 26-28 February 2016, New Delhi
4. PEDICON 2015, organized by Indian Academy of Pediatrics, at New Delhi, 22nd to 25th Jan 2015
5. 8th Asian Sleep Research Society Congress (ASRS-2014) Kovalam, Kerala, India, September 22–24, 2014
6. 54th Annual Conference of the National Academy of Medical Sciences (India) at AIIMS Rishikesh, 17-19 October 2014
7. 3rd Annual NKN Conference. National Knowledge network, IIT Guwahati, 15-16 December 2014
8. Public Health Ethics organized by AIIMS, Jodhpur from 1st-5th Dec, 2015
9. International Convention on Challenges in Medical Education 2015, Aurangabad INDIA, 9-11 January 2015
10. Basic Simulation Workshop 28-30 April 2017, AIIMS Bhubaneswar
11. WHO SEARO Birth Defect registry meeting 13-14 July 2017, New Delhi
12. Attended 47th IAP Rajasthan State Pediatric Conference organized by Department of Pediatrics, Dr SN Medical College at Hotel Indana Palace, Jodhpur from 6th-8th October 2017
13. 5th National Conference on Pediatric Education, 21-23 September 2017, Pune.
14. 57th annual conference of NAMS NAMSCON-2017 at Sri Guru Ram Das University of Health Sciences, Amritsar, Punjab, India from 27th – 29th October 2017.

15. 4th International Public Health Management Development Program, 15-18 December 2017, PGIMER Chandigarh
16. 55th Annual Conference of Indian Academy of Pediatrics 4-7 January 2018, Nagpur
17. MEDLAB Congress 5-8 February 2018, Dubai, UAE as a speaker
18. 3rd Pedistar Simulation Workshop 1-3 March 2018, Christian Medical College, Vellore.
19. 3rd HealthCare Sabha by Indian Express “The national thought Leadership Forum on Public Healthcare” 8-9 March 2017, Pune

Portfolio of Creative Projects

1. MD Thesis on Neonatal behavioral assessment scale- Introduced new tools for asphyxiated, preterm and small for gestation age babies in 1989-91
2. As part of DM in Medical Genetics, developed indigenous device for Pilocarpine iontophoresis for Sweat Chloride testing to diagnose Cystic fibrosis in respiratory disorders in 1994.
3. Digital photography in 1998- recording of rare cases.
4. Using Multimedia for teaching in Dharan, Nepal
5. Indigenous method to do Karyotyping with help of ordinary incubator, microscope and video camera to capture photographs of chromosomes. Awarded Fellowship by European Society of Human Genetics to present my work at 10th International Congress of Human Genetics at Vienna, Austria in May 2001.
6. Web-based online consultation for remote patient care in underserved area in Dharan, Nepal. Presented paper at 10th Medicine Meets Virtual Reality (MMVR) Conference, Newport Beach, California, January 2002.
7. Developed multimedia rich presentations for UG/PG teaching at Indore 2004- 2013
8. Designed MOODLE based module on Sleep Medicine with synchronized PPT and audio. **Awarded Shyam Lal Saksena Award** by National Academy of Medical Sciences (India) for Biomedical engineering in 2014.
9. Introduced FLIP Class (Inverted Classroom) for VI Semester MBBS Students. Validation of technique presented at 22nd MMVR Conference at Los Angeles in April 2016. **Declared winner for the scientific paper.**
10. Refined Flipped class to reduce duration of workshop for IMNCI program.
11. Flip2Empower: Teaching Adolescent about Sexual & Reproductive Health using Flipped Classroom.
12. Stimulating Medical Students interest in Medical Genetics using blended learning

Social & Community Group Involvement

1. Nodal Officer for Center of Excellence for rare diseases under MoHFW 2022
2. Principal Investigator and in-charge- Satellite Tribal Health Research Center at Abur Road since 2020
3. Handholding Multiple patient support groups
4. Working for promoting Indian culture in Medical Education

Extracurricular activities such as medico-social work, journalistic, literary activities etc.

Community based health education (Articles for the lay public in magazines/newspaper, talks, books, manuals etc)

- a. Speaker at Jodhpur Industry Association for Innovations in Healthcare on 6th January 2023.
- b. Speaker at DEETYA/TRIGYN symposium (Online) on “Medical & Law Education- Are we ready for the technology driven world?” on 21 January 2023
- c. Speaker at Doordarshan Jaipur on “**National Sciences Day 2023**” with theme “**Global Science for Global Wellbeing**” on 28th February 2023
- d. Speaker at Doordarshan Jaipur on “**National Education Policy 2020**” on 9th July 2022- recorded and telecasted in two parts.
- e. Speaker at DD India on multiple occasions on Poshan Abhiyan, COVID-19 in children, Obesity among children and adolescents.
- f. Speaker at Akashwani for different topics related to child health, genetics and COVID-19
- g. Contributed articles in local dailies- Dainik Bhaskar, Dainik Navjyoti, Rajasthan Patrika (Rajasthan), Dainik Bhaskar, Bal Bhaskar, Nai Duniya (Indore)
- h. Health education blogs on Quora (drkuldeep.quora.org) LinkedIn
- i. Developed health education material for school children on SRHR
- j. Informing public through official YouTube, Facebook, Instagram and

Twitter which are managed by me and my team.

- k. As coordinator of “National Academy of Medical Sciences Center for Research in Medical Education” at AIIMS Jodhpur, conducted educational programs directed to medical officers and students.

Delivery of health care to people living in underserved rural, tribal or urban slum population

- Initiated “Public Health Lecture” series – a monthly lecture cum panel discussion since August 2014
- School health education on Reproductive & Sexual Health conducted across 30 schools in Jodhpur
- Stayed with medical students and interns as faculty mentors at rural and hilly region of Nepal at BPKIHS, Dharan. Conducted multiple health camps and community work.
- Took part in Health Exhibitions, community & tribal services in Nepal, Indore and Jodhpur

Extraordinary Community based service

- a. Privileged to work as faculty on deputation from Government of India to HMG Nepal at B P Koirala Institute of Health Sciences, Dharan, Nepal from 1996 to 2002. This university was established by GoI to develop, implement and support a unique Community centered, need based, integrated and student-oriented curriculum. Students were exposed to community right from 1st year and internship included 6 months of community posting. As faculty, we stayed with them in rural posting, guided & mentored them and also supported all existing programs for tribal, rural and people in hilly regions.
- b. Lifestyle and Hypertension- education intervention: Was principal investigator for project on tribals of Sardarpur, Dhar district, Madhya Pradesh.
- c. Developed “**Satellite Tribal Health Research Center**” at Abu Road, Sirohi supported by Ministry of Tribal Affairs. Offers innovative ways of healthcare delivery using hybrid Telemedicine, health camps and awareness activities to native people.

Membership of the Technical Expert Groups and consultancy

- a. Member, Rajasthan Institute of Medical Sciences, Jaipur
- b. Member, Sub-committee, Biomedical Device and Technology, Development (BDTD), Technology Development & Transfer Division, Department of Science and Technology, Government of India
- c. Nodal Officer, Center of Excellence for Rare Diseases, AIIMS Jodhpur
- d. Member of Scientific Advisory Committee of ICMR Model Rural Health Research Unit (MRHRU), Bhanpur Kalan, Jaipur under NIIRNCD, Jodhpur since 2014
- e. Member, Expert Group, Standard Treatment Guidelines (STGs) for Pediatrics, ICMR 2018
- f. Coordinator of “NAMS Center for Research in Medical Education” created by National Academy of Medical Sciences, New Delhi from July 2014 to December 2021.
- g. Invited member, National Medical Commission for framing Guidelines for Continuing Professional Development (CPD) for Registered Medical Practitioners 2021

15. Fellowship/Membership of National and International Scientific Societies, Academies etc.

(a) Membership

- (i) Life Member of Indian Academy of Pediatrics (IAP)
- (ii) Life Member of Indian Medical Association (IMA)
- (iii) Life Member of National Neonatology Forum (NNF)
- (iv) Life Member Indian Society of Human Genetics (ISHG)
- (v) Life Member of Society of Indian Academy of Medical Genetics (SIAMG)
- (vi) Member, American Society of Human Genetics 2024
- (vii) Member, ISPOR 2024

(b) Fellowships

- (i) Fellow of National Academy of Medical Sciences (FAMS) – 2014
- (ii) Fellowship of Foundation for Advancement in International Medical Education & Research (FAIMER) 2011
- (iii) Travelling fellowship to attend ESHG conference, Vienna, 2001.