

## Summary CV

**Dr. Kameshwar Prasad, MD, DM, MMSc, FAMS, FRCP (Edin)**

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### Academic Degrees

- MBBS (Hons) in 1979 from Rajendra Institute of Medical Sciences, Ranchi
- MD Medicine in 1983 from All India Institute of Medical Sciences, New Delhi
- DM in Neurology in 1985 from All India Institute of Medical Sciences, New Delhi
- MMSc in Clinical Epidemiology from McMaster University, Hamilton, Canada

### Present and previous designation & affiliation:

- Director, CEO and Prof of Neurology, Rajendra Institute of Medical Sciences, Ranchi (Nov 2020 to May 2023)
- Former Prof. & Head, Deptt of Neurology, Chief, Neurosciences Centre, AIIMS, ND
- **More than 40 years of Clinical, Teaching and Research experience at AIIMS, New Delhi**
- Former Chairman (2015-2020) and Convenor (2005-2015) Stroke Subsection, Indian Academy of Neurology, Convenor, IAN guidelines for stroke management (2010)
- Editor, Cochrane Stroke Review Group
- Former Chairperson, Research Area Panel for Stroke, NCDIR, Bangalore (2016-2018)
- Experience as Co-Director of WHO Collaborating Centre for **Medical Education (three years)** and Director, Clinical Epidemiology, AIIMS, New Delhi (**12 years**).
- National coordinator of several government funded National/ International clinical trials including the **first in mononuclear stem cells in Stroke (2004-2021)**.
- **Pioneering work** in the country: **Evidence-Based Healthcare** and Summarizing evidence (**meta-analysis**)- **1992 till date**.
- Working with MOHFW on **National strategy for stroke since 1997** and Convenor of the first **MOHFW National Guidelines** on Stroke Management (2019).

### Publications :

- >400 papers, 21 book chapters : h-index 55, i10 Index: 354 Citations: 19468 (as per Google Scholar accessed on 15<sup>th</sup> August, 2023)
- Editor-in-Chief, "*Bickerstaff's Neurological Examination in Clinical Practice*" (7<sup>th</sup> edn)
- Authored book "*Fundamentals of Evidence-Based Medicine*" (2<sup>nd</sup> edn. Springer)
- Contributions in the book "*Users' Guide to Medical Literature*", developed from the Users' Guide series in the Journal of American Medical Association that initiated and established the fundamental concepts of EBM

### National Awards & Recognitions:

- Member, Institute Body, and Chairman, Selection Committee, AIIMS, New Delhi
- Member, Institute Body, and Chairman, Selection Committee, AIIMS, Madurai
- National coordinator for several multi-centric international clinical trials i.e. IST / ENOS / STICH / FOOD and National DBT Stem Cell Study in Stroke
- Elected Fellow, National Academy of Medical Sciences
- Coordinator and First PI, DBT-funded **AIIMS-Cohort study (LoCARPoN)** (15000 subjects; initial sanction approx..32 crore for the project)
- Started AIIMS fellowship on Clinical research and Evidence-based Medicine and Stroke
- **Several funded research** projects as PI in AIIMS, New Delhi.

- First prize, AIIMS excellence in Research, AIIMS, New Delhi (2015)
- Awarded the civilian honour “**Padmashree**” by the Hon’ble President of India.

#### **International experience/recognition/awards**

- Member, **WHO Strategic and Technical Advisory Group (Mental, Neurological and Substance Abuse)** reporting to the **Director-General, WHO** (till date)
- Member of **WHO Neurology & Covid-19 Global forum** and pioneered the **WHO diagnostic criteria for TTS** following Covid-19 vaccination
- Worked with **WHO and World Bank (India, Washington)** consultant **1999, 2000, 2004.**
- Nominated Editorial Board Member of **British Medical Journal (2016 till date)** and earlier for Practical Neurology
- Co-chair, WHO co-ordinating centre for Health Professions Education (Bahrain 2008-09)
- Invited by **Oxford (UK), Canada, Singapore** and other universities abroad to teach year after year more than **35 times**
- **Invited as Visiting Professor to many International Universities**
- **Journal of American Medical Association** reviewed his book on Evidence-Based Medicine (Springer) indicating as **the best** recommended for practitioners in the world (2006).
- Chicago-based ‘Year Book’, American College of Physicians Journal, and Oxford-based journals have graded several of his papers as high-quality and relevant with five- and six-star impact ratings.
- **Editor for UK-based Cochrane Stroke Review Group (2000 till date); Also, Australia-based Cochrane ARI group(1998)**
- **Topped in McMaster University, Canada** Comprehensive Exam 1993.
- **Award from UK-based International Stroke Trial Steering Committee 1995.**
- **Citation from US-based International Clinical Epidemiology Network (1999).**
- Nominated member, **Global Quality & Guidelines Subcommittee of World Stroke Organization** (2013-2019).
- Conceived and Founded the **International Society for Evidence-Based Healthcare**, with people from Oxford, Canada, Australia and others (organized its inaugural conference in Delhi in 2012, 2<sup>nd</sup> held in Italy, 3<sup>rd</sup> in Taiwan, 4<sup>th</sup> in Sydney, 5<sup>th</sup> in Iran, 6<sup>th</sup> in Cape Town, 7<sup>th</sup> in UAE, 8<sup>th</sup> in Italy, and 9<sup>th</sup> in Saudi Arabia)
- **Educational Achievement Award 2019** for consistent highest rating by learners in the role of Workshop Faculty (2002-2018) from the McMaster University, **Canada.**
- **Years of Service Award (15 years)** for passion and dedication to Evidence-Based Medicine Education from the **National University Hospital, Singapore** (2018).

## BIO-DATA

1. **Name :** **DR. KAMESHWAR PRASAD**

2. **Date of Birth :** 22 January 1954

3. **Current position & Address:**

Current Position : Director, Department of Neurology,  
Fortis Flt. Lt. Rajan Dhall Hospital  
Sector B, Pocket 1, Vasant Kunj  
New Delhi-110070

Address : Room # 28, Basement floor  
Fortis Flt. Lt. Rajan Dhall Hospital  
Sector B, Pocket 1, Vasant Kunj  
New Delhi-110070

Mobile : 09868350484

Email: [drkameshwarprasad@gmail.com](mailto:drkameshwarprasad@gmail.com)

4. **Educational Qualification:**

S.No.	Degree/Certificate	Year of Passing	University/Institute	Subjects
1.	Bachelor of Medicine and Bachelor of Surgery (Honours)	1979	Rajendra Medical College, Ranchi University, Ranchi.	Medicine & Surgery
2.	Doctor of Medicine (Medicine)	1983	All India Institute of Medical Sciences, New Delhi.	Medicine
3.	Doctor of Medicine (Neurology)	1985	All India Institute of Medical Sciences, New Delhi.	Neurology
4.	Master of Science (Medical sciences) - Clinical Epidemiology under International Clinical Epidemiology Network programme	1993	McMaster University, Hamilton, Canada	Clinical Epidemiology

**Academic Employment: approx. 40 Years**

<b>S.No.</b>	<b>Period</b>		<b>Position held</b>	<b>Name of Organization</b>
	<i>From</i>	<i>To</i>		
1.	Nov. 2020	May2023	Director, CEO and Professor of Neurology	Rajendra Institute of Medical Sciences, Ranchi, Jharkhand
2.	Feb.2000	Nov. 15, 2020	Professor of Neurology	All India Institute of Medical Sciences (AIIMS), New Delhi.
3.	July 1994	Feb. 2000	Additional Professor of Neurology	All India Institute of Medical Sciences (AIIMS), New Delhi.
4.	July 1990	June 1994	Associate Professor of Neurology	All India Institute of Medical Sciences (AIIMS), New Delhi.
5.	June 1986	June 1990	Assistant Professor of Neurology	All India Institute of Medical Sciences (AIIMS), New Delhi.
6.	August 1983	June 1986	Senior Resident (Neurology)	All India Institute of Medical Sciences (AIIMS), New Delhi.
7.	July 1980	July 1983	Junior Resident (Medicine)	All India Institute of Medical Sciences (AIIMS), New Delhi.

**Research Experience : 38 Years**

Name of the Research Project	Funding Agency	Period	
		From	To
A Population Based Prospective Cohort Study to Unravel the Causes of Stroke and Cognitive Decline: A cross-cultural perspective	Department of Biotechnology, Govt. Of India	2014	2022
<i>Indian Stroke Research Network</i> multicentric project “Fever, hyperglycemia swallowing and hypertension management in acute stroke: A stepped wedge cluster randomized controlled trial”	Indian Council of Medical Research, Govt. Of India	2018	2023
Identification of brain imaging quantitative traits loci for cerebral small vessel disease among AIIMS cohort participants using genome wide association study	Department of Health Research, Govt. Of India	2018	2021
Deciphering the genetic aetiology of stroke in Indians using whole exome sequencing using an established and already externally fully funded multicentric Indian stroke biobank	Department of Biotechnology, Govt. of India	2014	2018
Identification of genetic risk factors of stroke in Indian population	Department of Biotechnology, Govt. of India	2013	2019
Biomarkers to enhance predictive power for short-term and long term outcome after spontaneous intracerebral haemorrhage	Department of Biotechnology, Govt. of India	2013	2019
Towards a sustainable resource in stroke genetics from the four corners of India: the 4i study	UK India Education Research Initiative (UKIERI)	2013	2016
Genetic basis of ischaemic stroke in an Indian population	UK India Education Research Initiative (UKIERI)	2009	2012
Autologous Bone marrow mononuclear cells in Middle Cerebral Artery occlusion Rodent model	Dept of Biotechnology, Govt. of India.	2009	2013
ENOS : Efficacy of Nitric Oxide in Stroke	Medical Research Council, UK	2007	2013
Capacity Building for Stroke Research	Dept of Biotechnology, Govt. of India.	2007	2013
Central Data Management Facility	Dept of Biotechnology, Govt. of India.	2007	2013

Beta adrenergic receptor and angiotensin converting enzyme in coding gene polymorphism as a risk factor for stroke: A case control study.	ICMR, Govt. of India	2010	2013
Mobilization of stem cells using G-CSF for acute ischemic stroke patients: A randomized clinical trial.	Dept of Biotechnology, Govt. of India.	2007	2011
Intravenous autologous bone marrow derived stem cell therapy for patients with acute ischemic stroke: A multi-institutional project.	Dept of Biotechnology, Govt. of India.	2007	2011
Thrombolysis with intravenous rt-PA for acute ischaemic stroke: the third International Stroke Trial. (IST-3)	Medical Research Council, UK	2006	2012
Intravenous autologous bone marrow derived stem cell therapy for patients with acute ischemic stroke.	Dept of Biotechnology, Govt. Of India.	2006	2007
APOE Genotypes in various types of acute stroke in Bahrain.	The Arabian Gulf University, Bahrain	2004	2004
Intravenous autologous bone marrow stromal cells (MSC) or mononuclear cells (MMC) for patients with acute ischaemic stroke.	Dept of Biotechnology, Govt. of India.	2006	2007
Clinical Standards for Quality Assurance.	The World Bank	2000	2001
A randomised controlled trial of surgical evacuation in patients with primary supratentorial intracerebral haemorrhage.	Medical Research Council, UK	1998	2004
A randomised controlled trial of endoscopic evacuation in patients with primary supratentorial intracerebral haemorrhage.	Indian Council of Medical Research, Govt. of India	1997	1998
International Stroke Trial	McMaster INCLEN Research Grant, UK	1995	1997
A study of effectiveness of dexamethasone as adjunctive treatment of tuberculous meningitis: a randomized controlled trial.	International Clinical Epidemiology Network Research Grant	1994	1998
A case control study of risk factors for ischaemic and haemorrhagic stroke.	Hamilton Civic Hospital Trust Research Grant, Canada	1995	1999

A randomized controlled trial of anti-thrombotic therapy of acute ischaemic stroke.	All India Institute of Medical Sciences, New Delhi.	1995	1996
A Study of adrenocortical reserve in patients with pyogenic meningitis with special reference to meningococcal meningitis.	Indian Council Medical Research, Govt. of India.	1991	1992
Tribal Health Research Project, Ranchi.	--	1989	1992

### **Editorial / Research Review Past and current Experience**

- **Editorial Board Member** : *British Medical Journal Practical Neurology* – a British Medical Journal publication (2005-15); *Cochrane ARI Review Group*, Australia; Several Indian journals
- **Reviewer for the Medical Journals** : *British Medical Journal* (UK), *Lancet Neurology* (UK), *Stroke* (USA), *Journal of Neurology*, *Neurosurgery*, *Psychiatry* (UK), *Canadian Medical Association Journal* (Canada), *Journal of Epidemiology and Community Health*, *Journal of Antimicrobials and Chemotherapy*, *CNS Drugs*, *Cochrane Stroke* (Oxford, UK), *Current Medical Research & Opinion*, *Clinical Infectious Diseases*, *Biomed Central*, *Critical Care*, *Journal of Case Reports*, *Journal of Epidemiology and Community Health*, *Journal of Antimicrobial Chemotherapy*, *Neurology India*, *Annals of Indian Academy of Neurology*, *Journal of Association of Physicians of India*, *National Medical Journal of India*, *Journal of Community Health & Epidemiology*.
- **Reviewer for the Medical Research Grant** : Indian Council of Medical Research, Department of Biotechnology, Department of Science and Technology, Medical Research Council, UK, Wellcome Trust, UK, National Medical Research Council, Singapore, Indo-Australian Research Group.

**Administrative Experience :**            **26 years +**

<b>Designation</b>	<b>Department / Institute</b>	<b>Period</b>	
		<b>From</b>	<b>To</b>
Director & CEO	Rajendra Institute of Medical Sciences, Ranchi	Nov 15, 2020	May 2023
Chief	Neurosciences Centre, AIIMS, New Delhi	January 2018	January 2019
Chief (officiating)	Neurosciences Centre, AIIMS, New Delhi	March 2016	Oct.2016
Head	Department of Neurology, AIIMS, New Delhi	2013	January 2019
Director	Clinical Epidemiology Unit, AIIMS, New Delhi	2006	Jan. 2019
Head, Neurology Unit-I/II	Department of Neurology, AIIMS, New Delhi	2001	Jan. 2019
Head (Chairman)	Department of Medicine, College of Medicine & Medical Sciences, The Arabian Gulf University, Bahrain.	Sept. 2003 & Sept 2007	Sept. 2004 & Dec. 2008
Founding Head (Chairman)	Department of Clinical Neurosciences, Salmaniya Medical Centre, Ministry of Health, Bahrain.	Feb. 2003	Dec. 2003
Co-Director	WHO Collaborating Centre for Educational Development, Arabian Gulf University, Bahrain	Sept 2007	Dec. 2008
Director	Program for Master of Health Professions Education, Arabian Gulf University, Bahrain.	2008	2008
Chairman	OPD Committee of the Neurosciences Centre, of the All India Institute of Medical Sciences, New Delhi	2004	2008
Faculty-Incharge, Store	Department of Neurology, AIIMS, New Delhi	1995	1998
Warden	PG Hostel, Masjid Moth, AIIMS, New Delhi	1994	1996



## **Additional**

- Experience of working as a Member of the AIIMS Committee for Planning and Monitoring the Programme/ Activities of the KL Wig Centre for Medical Evaluation and Technology at the AIIMS, New Delhi.
- Acted on direction of Ministry of Health & Family Welfare, Govt. of India as focal point to work on WHO Neurology ATLAS questionnaire.
- Experience of Member of the Postgraduate Medical Education (Super-Speciality) Committee of the Medical Council of India.
- Experience of Governance system of the Executive Council of Assam Central University, Silchar (2010-13).
- Experience of developing and coordinating Research Area Panel on Stroke for the ICMR National Centre for Disease Informatics and Research, Bangalore (2012 onwards).
- Experience of Governance system of the “Executive Council” of Pandit Bhagwat Dayal Sharma University of Medical Sciences, Rohtak, Haryana (2008-2010).
- Experience of Governance system of the Maharishi Dayanand University, Rohtak, Haryana (2008-10).
- Member of the National Committee for Evidence-Based Medicine, Ministry of Health, Bahrain 2003-2004.
- Experience as member of the Research Committee, Drug Utilization Committee, Mortality Review Committee of the Ministry of Health, Bahrain 2003-04.
- Convenor of the National panel on Quality Assurance in Health Care constituted by the Ministry of Health, Government of India, 2000-2001.
- Co-Convenor of the subgroup on ‘Clinical Standards’ by the Ministry of Health, Government of India, 2000-2001.
- Experience of governance system of the several medical boards of the All India Institute of Medical Sciences, New Delhi.
- Member of the Academic Committee of the Institute of Human Behaviour and Allied Sciences (IHBAS), Delhi.
- Member of the Expert Committee constituted at AIIMS to assist Central Adoption Resource Authority, Ministry of Women & Child Development, Govt. of India.
- Member of the Expert Committee to formulate the future setup of the laboratory facilities at the Cardiothoracic & Neurosciences Centre, AIIMS, New Delhi.
- Member of the Academic Committee of the All India Institute of Medical Sciences, New Delhi (2000).
- Member of the Research Selection Committee (1999 - 2001).

- Member of the Indian Council of Medical Research (ICMR) Project Review Committee (several times).
- Member of the Academic Committee of the Institute of Human Behaviour and Allied Sciences (IHBAS), Delhi.
- Expert Committee for expansion of infrastructure at ICGEB for clinical development of malaria vaccines.
- Member of the Expert Committee constituted at AIIMS to assist Central Adoption Resource Authority, Ministry of Women & Child Development, Govt. of India.
- Expert Committee to formulate the future setup of the laboratory facilities at the Cardiothoracic & Neurosciences Centre, AIIMS, New Delhi.

**Research Administration : 23 years**

Name of the Research Project	Funding Agency	Period	
		From	To
<b>Principal Investigator/ Academic Coordinator</b> of A Population Based Prospective Cohort Study to Unravel the Causes of Stroke and Cognitive Decline: A cross-cultural perspective	Department of Biotechnology, Govt. Of India	2014	2022
<b>Principal Investigator-cum-coordinator</b> of <i>Programme support on Translational Research for Cerebral Stroke Biology</i>	Department of Biotechnology, Govt. Of India	2007	2019
<b>Principal Investigator-cum-coordinator</b> of Indian Stroke Research Network multicentric project “Fever, hyperglycemia swallowing and hypertension management in acute stroke: A cluster randomized controlled trial”	Indian Council of Medical Research, Govt. Of India	2018	2019
<b>National Coordinator</b> for India for the project entitled “ENOS : Efficacy of Nitric Oxide in Stroke - A prospective, international, multicentre, randomised, parallel-group, blinded, controlled, collaborative, factorial trial to investigate the safety and efficacy of treatment with transdermal glyceryl trinitrate, a nitric oxide donor, and of stopping or continuing prior antihypertensive therapy, in patients with acute stroke.”	Medical Research Council, UK	2007	2013
<b>National Coordinator</b> for India for the project entitled Thrombolysis with intravenous rt-PA for acute ischaemic stroke: the third International Stroke Trial. (IST-3)	Medical Research Council, UK	2006	2011
<b>Project Coordinator-cum-Principal Investigator</b> for the projected entitled “Intravenous autologous bone marrow stromal cells (MSC) or mononuclear cells (MMC) for patients with acute ischaemic stroke.”	Dept of Biotechnology, Govt. of India.	2006	2011
<b>National Coordinator</b> for India for the project entitled “International Stroke Trial.”	McMaster INCLIN Research Grant, UK	1995	1997

## 6. Areas of Specialization:

Neurology, Research Methodology & Clinical Epidemiology, Medical Education, Evidence-Based Healthcare

### 6.1 Neurology

#### 6.1.1 Clinical

Approx. 40 years of experience in clinical neurology with the following dominant activities:

- Patient care, including in-patient, out-patient, emergency calls, ICU and cross-discipline consultation.
- Publications more than 404, most of them relevant to clinical neurology.
- Areas of Research: Vascular dementia, Stroke, Meningitis, Epilepsy, Multiple sclerosis
- Former Member of World Stroke Organization Global Quality and Guidelines Committee
- First convenor and later chairman of stroke subsection of Indian Academy of Neurology (2005 to 2020)
- Established Stroke clinic, unit, registry and largest biorepository of DNA of Indian stroke patients at AIIMS, New Delhi.
- Started Neuroimmunology clinic at AIIMS, New Delhi. Pioneered haematopoietic stem cell transplantation in multiple sclerosis in India.

**Research in Neurosciences: 404 publications in the field.** Conducted 26 funded research projects. Has been pioneer in involving neurology department in international trials. Has been **National Coordinator** for International Stroke Trial-1, International Stroke Trial-3, and ENOS Trial in stroke. Has been the project coordinator and overall PI of the DBT-funded globally the first mononuclear stem cell randomized trial in acute ischaemic stroke. Has been the project coordinator of two multi-centric projects in stroke, one funded by DBT and one by ICMR. Has been PI of ICMR-funded Indian Stroke Research Network.

### 6.2 Medical Education

- 38 years of experience of teaching undergraduate and postgraduate (MD+DM).
- Director, Programme of Master of Health Professions Education (2007-2008).
- Co-Director, WHO Collaborating Centre for Educational Development (2003-2004 and 2007-2008).
- Use of 'generalizability theory' of reliability of assessments in the context of Direct Observation Clinical Encounter Examination. (*Medical Education* 2003;37:205-1).

- Model BEME (Best Evidence Medical Education) review on value of undergraduate assessments in predicting future performance published in 'Medical Teacher' (*Med Teach* 2006;28:103-16).
- Faculty at Annual "How to Teach Evidence-Based Clinical Practice" workshop held in McMaster University, **Canada (more than 15 times regularly since 2002)**, Bahrain, Qatar, **Singapore (>10 times)** and **Oxford (three times)**.
- Actively participated in developing the modules for teaching of the Master in Health Professions Education (particularly the research component).
- Taught research methodology and reliability and validity of assessment methods to the students of the Master in Health Professions Education (2001-2004).
- Supervision of thesis of four students in the Master of Health Professions Education programme (MHPE) and one Ph.D. in Medical Education
- Providing guidance to several students of the MHPE in planning their thesis and analysis of their data.
- Introduced several innovations in assessment of candidates entering or doing DM (Neurology).

### **6.3 Clinical and Health Research (Clinical Epidemiology) Methodology**

- 38 years of experience of teaching undergraduate and postgraduate (MD+DM).
- Director of Clinical Epidemiology unit AIIMS, New Delhi since 01<sup>st</sup> November 2006 to January 2019.
- Principal Investigator of first of its kind Cohort study in India entitled "A population-based cohort study to unravel the causes of stroke and cognitive decline" in collaboration with the Rotterdam Study Group. The study integrates medical history, dietary, psychosocial, physical activity, sleep, mental health assessment, cognitive assessment, ECG, Echo, carotid doppler, genomics and neuroimaging. Baseline results has been published in International journal of Epidemiology.
- Director, Programme of Master of Health Professions Education, Arabian Gulf University (2007-2008).
- Master degree in Health Research Methodology (Clinical epidemiology) from McMaster University, Canada, 1993 – during which topped in the comprehensive examination.
- Full Range of Clinical study designs used in investigator – initiated projects include systematic reviews, randomized controlled trials, cohort studies, case control studies, case series and case reports.
- Received grants for 28 research studies from publicly funded Organisations.

- Conducted/facilitated more than 40 clinical research methodology courses in India, Singapore, Bahrain, UAE, Qatar, Saudi Arabia.
- 314 publications to his credit include the results of full range of clinical research study designs, mentioned above including ones devoted exclusively to research methodology.
- Member, International Editorial Advisory Board, British Medical Journal (BMJ).

### **6.3.1 Clinical Trials**

- Completed courses in Basic and Advanced issues in Clinical trials as part of Master course in Health Research Methodology, McMaster University, Canada
- Completed certificate course in ICH-GCP from Institute of Clinical Research, UK
- Initiated and conducted single centre clinical trials at AIIMS, New Delhi
- National coordinator of International Stroke Trial-1, International Stroke Trial-3, and ENOS trial, all funded by Medical Research Council, UK.
- National Coordinator of a Stem Cell trial in acute ischaemic stroke.
- Conducted several courses on clinical trials for physicians
- Currently coordinator of Indian Stroke Research Network under which a multicentric trial is ongoing.

### **6.3.2 Meta-Analysis/Systematic Reviews/ Cochrane Collaboration**

- A member of the Cochrane Collaboration since 1994, with seven of his systematic reviews in the Cochrane Library. Is a member of four Cochrane Review Groups (Stroke, Epilepsy, Infectious Diseases, and Acute Respiratory Infections) and Editorial Group member of the Cochrane Stroke Review group and has been editor of the Cochrane ARI group (two terms). Has attended and made paper presentations in the Cochrane Colloquia in Hamilton (Canada), Oslo (Norway), Adelaide (Australia), and Amsterdam (The Netherlands). Was nominated for the Thomas C. Chalmers Award at the Joint Second International Conference on the Scientific Basis of Health Services and the Fifth International Cochrane Colloquium held in Amsterdam.
- Has had 10 publications in the Cochrane Library. This includes five full reviews in which he is the principal author.
- Has conducted more than 30 workshops on 'how to conduct systematic review or meta-analysis' in various countries (India, Saudi Arabia, Bahrain, Qatar), which included sensitization workshops, protocol development workshops, and review completion workshops. Several participants of the workshops have published their systematic reviews in the Cochrane Library.
- Has been a member of the Steering Committee of the South Asian Cochrane Network.

- Published a systematic review in the field of medical education with the BEME (Best Evidence Medical Education) Group in Medical Teacher with an international group.
- Conducted a review on ‘Poverty and Health’ as a background paper to the World Development Report (2000) for the World Bank, Washington (1999).

### 6.3.3 Stem Cell Therapeutics

- Principal investigator and project coordinator of the Intravenous autologous bone marrow-derived stem cell therapy for patients with acute ischemic stroke: A Multi-Institutional Project funded by the Department of Biotechnology (DBT), Ministry of Science and Technology, Govt. of India.
- Principal Investigator of the project entitled “Autologous haematopoietic stem cell therapy for multiple sclerosis”.
- Published two conference abstracts and six full papers on stem cell studies in stroke.
- Former member of DBT Human Studies Committee and Human Ethics Committee for Stem cell Research.
- Delivered talks on stem cell therapeutics in India, Bahrain.
- First report of a successful case of Autologous haematopoietic stem cell transplant in multiple sclerosis from India.

## 6.4 *Evidence-Based Healthcare*

- Associated with Evidence-based Medicine (EBM) since its inception 1992, when I was a Rockefeller fellow at the McMaster University, Canada where the term was coined. Received Master of Science degree in health research methodology and clinical epidemiology with emphasis on EBM from the University in 1993. Worked with and is part of the First (pioneer) International Working Group on EBM established at McMaster. A regular faculty at the world renowned Annual Workshop on ‘How to Teach Evidence-Based Clinical Practice’ held at McMaster University, Canada regularly since 2002.
- Scientific Director (2001-2004) of the Gulf Reference Centre for Evidence-Based Medicine at the College of Medicine & Medical Sciences, the Arabian Gulf University, Bahrain; designated as such by the Ministers of Health of Gulf countries (Bahrain, Kuwait, Oman, Qatar, Saudi Arabia, UAE, Yemen).
- Authored a book entitled “*Fundamentals of Evidence-Based Medicine*” in 2004, reviewed in the Journal of American Medical Association, where the reviewer said, “*Where does this book fit in the world of EBM textbooks? If a practitioner asked me to recommend one book to help in understanding EBM concepts, I would recommend this one.*”
- Invited Faculty in nearly 90 EBM workshops held in different parts of the world including McMaster (Canada), New Zealand, India, Bahrain, Oman, Qatar, Saudi Arabia, UAE, Kuwait, UK (Oxford), Singapore, Egypt etc. Conducted/taught in many ‘Training-the EBM Trainer’ workshops and ‘How to teach evidence-based

clinical practice' workshops in Oxford (UK), Canada, Singapore and several gulf countries.

- As member of the pioneer International EBM working group at McMaster University, Canada, Contributed to four chapters in the second edition of the book, "Users Guide to Medical Literature: A Manual for Evidence Based Clinical Practice" published in 2008 by the Journal of American Medical Association (JAMA), McGraw Hill.
- A member of the Teaching Tips Working group for EBM, and led writing of a paper on how to teach odds ratio.
- More than 120 of 314 published papers incorporate the principles of EBM including six published full Cochrane reviews, in one abstract in DARE and one in methodology database in Cochrane Library.
- Envisioned and established the International Society for Evidence-Based Healthcare as its Founding Secretary. Organized first International Conference of the Society in New Delhi in October, 2012.
- Envisioned and established the "**Society for Evidence-Based Healthcare**" as its Founding President (Registered under Societies Registration Act, 1860 bearing Registration number S/ND/684/2015).
- Established the first-ever in India, "**Fellowship in Clinical Research Methodology and Evidence-Based Medicine**" at AIIMS, New Delhi (2015).

## 7. Honors/Awards/Recognitions received:

### *(a) At Undergraduate Level*

- '**Best Medical Graduate**' of the year 1979 from Rajendra Medical College, Ranchi.
- Topper of his batch and passed all exams in first attempt throughout.
- **National Merit Scholar** and Ranchi University Rank holder.
- Honours in Anatomy and Pathology and First in Pharmacology and Forensic Medicine & Toxicology
- **First in University**, Final M.B.B.S Exam. Part-I, Ranchi University, Ranchi.
- Second in Medicine, Surgery, Eye & ENT in the final MBBS Part-II Exam.

### *(b) At Postgraduate Level*

- **Topped** in the comprehensive exam. of M.Sc., McMaster University, Canada. Received 3A+ in various courses.



*(c) Travel and Fellowship Awards*

- **UK-India Education and Research Initiative (UKIERI) Travel award** for interacting with the Neurosciences Trial Unit, Edinburgh on stroke research, 2007.
- **Travel awards** by International Organizers/Organizing Committees, **15 times** to attend International Conference held in USA, Canada, Australia, UK, Norway, Sweden etc.
- Awarded Research Travel Grant by the **Wellcome Trust, UK** for interacting with the Neurosciences Trial Unit, Edinburgh on stroke research, 1999.
- Awarded fellowship for Medical Education in 1994 by the **Centre for International Health, McMaster University, Canada.**
- Awarded fellowship in 1992 for training in research methods/Clinical Epidemiology/Meta-analysis/Quality Assurance by the **International Clinical Epidemiology Network (INCLen) Inc., USA** after interview by foreign experts (from USA and CANADA) at AIIMS.

*(d) Other*

- Awarded a prestigious civilian award '**PADMASHREE**' by the Honourable President, the Republic of India (1992).
- **Educational Achievement Award** 2019 for consistent highest rating by learners in the role of Workshop Faculty (2002-2018) from the McMaster University, **Canada.**
- **Years of Service Award (15 years)** for passion and dedication to Evidence-Based Medicine Education from the **National University Hospital, Singapore** (2018).
- Received **Citation** from the International Clinical Epidemiology Network **for being the lead author of the top rated abstract** for two consecutive years (1998 & 1999) amongst nearly 400 abstracts from around the world to the INCLen Global Meetings.
- Received the '**Best Newcomer Centre**' Award from the **UK-based International Stroke Trial Steering Committee, among 500 centers** in more than 30 countries.
- Nominated for the **Thomas C. Chalmers Award** at the Joint Second International Conference on the Scientific Basis of Health Services and the Fifth International Cochrane Colloquium held in Amsterdam.
- '**Best Paper**' on the basis of scoring by 3-4 reviewers among the 379 papers submitted from around the world for the INCLen XV held in Mexico, 17-21 January 1998.

- **‘Merit Award by the Alzheimer’s Disease International’** for the paper, ‘Chaudhary S.K., Seshadri S., Behari M., Prasad K. Hindi Version of the Folstein’s Mini-Mental State Examination’.
- **Best Paper Award** for the paper which he co-authored, ‘A study of factors delaying hospital arrival of patients with acute stroke’ in the Annual Conference of Neurological Society of India, 1998.

**(e) Orations**

- Dr. NN Gupta Oration and delivered a talk on “Stem Cell Therapy in Neurological Disorders: Hope or Hype” organized by CSM Medical University, UP, Lucknow on 14<sup>th</sup> April 2012.
- Prof. BC Bansal – Mrs. Uma Bansal Oration and delivered a talk on “Stem cell therapy for stroke: current status and future challenges” in the XXII Annual CME of Association of Physicians of India – Delhi State Chapter. India Habitat Centre, New Delhi. 19-20 November 2011.
- Delivered an Oration on “Young Stroke-Known & Unknown” in the Annual conference of Neurological Association of UP & Uttarakhand, NEUROCon-2011 held on 2nd & 3rd April, 2011 at HIHT University, Jolly grant, Dehradun.
- Prof. Dayanand Rao Oration and delivered a talk on “Tuberculous meningitis – Lessons learnt from evidence based approach” in the 23rd Annual Conference on Neurosciences organized by the Andhra Pradesh Neuroscientists’ Association from 24-25 July 2010 at Kakatiya Medical College, Warangal.
- Prof. G.K. Ahuja Oration during the Annual Conference of Indian Stroke Association at AIIMS, New Delhi, March 2010.
- Oration in the name of “Endowment lecture in Neurosciences” and a talk on “Stem Cell Therapy” at CME and Oration of Andhra Medical College, Vishakhapatnam, 29-30 August 2009.

**Recognitions through nomination for Govt. Panel/University/Institution Expert Groups**

1. President of India’s nominee to the Executive Council of Assam Central University, Silchar (2010-2013).
2. Nominated as a Chairperson of the Research Area Panel on Stroke for the ICMR National Centre for Disease Informatics and Research, Bangalore (2012 onwards).
3. Nominated as a Member of the AIIMS Committee for Planning and Monitoring the Programme/ Activities of the KL Wig Centre for Medical Evaluation and Technology at the AIIMS, Delhi.
4. Nominated as a member of the Postgraduate Medical Education (Super-Speciality) Committee of the Medical Council of India.

5. Nominated as a member of the Technical Resource Group for Development of National Policy for Prevention and Control of Diabetes, Cardiovascular Diseases (CVDs) and Stroke of the Ministry of Health and Family Welfare, Govt. of India (2010 onwards).
6. Nominated as a member of the Expert-cum-Monitoring Group on Immunomodulation by DBT, Govt. of India.
7. Nominated as a member of the Scientific Advisory Committee for National Centre for Disease Informatics and Research (2011 onwards)
8. Nominated as a member of the Expert Committee for Expert Committee for North Eastern Regional Twinning R&D projects – Biomedical technology, Health and Diagnostics, DBT, Govt. of India.
9. Nominated as a member of the Task Force on Chronic Disease Biology of the Department of Biotechnology, Govt. of India.
10. Nominated as a member of the Expert Group on Neurosciences of the Department of Biotechnology, Govt. of India.
11. Governor's nominee to the "Executive Council" of Pandit Bhagwat Dayal Sharma University of Medical Sciences, Rohtak, Haryana (2008-2010).
12. Governor's nominee to the Court, The Maharishi Dayanand University, Rohtak, Haryana (2008-10).
13. Nominated member of the Human Studies Committee, Department of Biotechnology, Ministry of Science & Technology, Govt. of India (2005 till date).
14. Nominated member of the Human Research Ethics Committee, Department of Biotechnology, Ministry of Science & Technology, Govt. of India (2005 till date).
15. Nominated member of the National Committee for Evidence-Based Medicine, Ministry of Health, Bahrain 2003-2004.
16. Nominated member of the Research Committee, Drug Utilization Committee, Mortality Review Committee of the Ministry of Health, Bahrain 2003-04.
17. Nominated convener of the National panel on Quality Assurance in Health Care constituted by the Ministry of Health, Government of India, 2000-2001.
18. Invited to be a Co-Convenor of the subgroup on 'Clinical Standards' by the Ministry of Health, Government of India, 2000-2001.
19. Nominated invitee of the Academic Committee of the All India Institute of Medical Sciences, New Delhi 2000.
20. Nominated member of the 'Core expert group' of the Ministry of Health on 'Control of Cardiovascular Diseases, Stroke and Diabetes, 1999-2000.
21. Nominated Chairman / member of the several medical boards of the All India Institute of Medical Sciences, New Delhi.

22. Nominated Member of the Academic Committee of the Institute of Human Behaviour and Allied Sciences (IHBAS), Delhi.
23. Member of the Indian Council of Medical Research (ICMR) Project Review Committee (several times).
24. Member of the Expert Committee for expansion of infrastructure at ICGEB for clinical development of malaria vaccines.
25. Nominated as a member of the Technical Advisory Group to IndiaCLEN Health Research Capacity Building Initiative.
26. Nominated as a member of the Expert Committee constituted at AIIMS to assist Central Adoption Resource Authority, Ministry of Women & Child Development, Govt. of India.
27. Nominated as a member of the Scientific Advisory Committee for National Centre for Disease Informatics and Research, National Cancer Registry Programme (ICMR), Bangalore.
28. Nominated as a member of the Expert Group to study the Health Effects of Mobile Technology constituted by Ministry of Health & Family Welfare, Govt. of India.
29. Invited to be a member of Medical Research Body of the Multiple Sclerosis Society of India Delhi Chapter.
30. Nominated as a member of the Expert Committee to formulate the future setup of the laboratory facilities at the Cardiothoracic & Neurosciences Centre, AIIMS, New Delhi.

## **8. Professional Affiliations**

### **A. Fellowship**

1. Fellow, **Royal College of Physicians (Edinburgh)**
2. Fellow, **National Academy of Medical Sciences, New Delhi**

### **B. Membership of National & International Scientific Societies, Academics etc.**

#### **(A) International**

- i) Member, American Academy of Neurology, USA (2017-2020)
- ii) Member of the WSO (World Stroke Organization) Global Quality and Guidelines Working Group, 2013.
- iii) Member of the British Medical Journal's International Editorial Advisory Board (2012 till date)
- iv) Editor and Reviewer of the International Cochrane Collaborative Stroke Review Group based in Edinburgh, UK. (2000 to date)
- v) Former Member, International Advisory Committee, Asia Pacific Forum for quality improvement in Health Care (1996-1997)

- vi) Former Member, Editorial Group, 'Practical Neurology' – a British Medical Journal publication
- vii) Former Member of the Editorial Group, Cochrane ARI Review Group, Australia.
- viii) Former Member of the Infectious Diseases and ARI Review Group of the International Cochrane Collaboration.
- ix) Member of the International Clinical Epidemiology Network.
- x) Member of the New York Academy of Sciences (2002-2003; 2003-2004)
- xi) Member, World Federation of Neurology Research Group on Medical Education (1995-1998)
- xii) Member of the World Federation of Neurology
- xiii) Member of the World Stroke Organization
- xiv) Member of the International Society for Technology Assessment in Health Care (1996-1998)
- xv) Member, Cochrane Epilepsy Review Group
- xvi) Former Member, Cochrane Neurological Network
- xvii) Member, International Advisory Group, World Stroke Congress, 2012, Brazil.

**(B) National**

- i) Life member of Neurological Society of India
- ii) Life member of Indian Academy of Neurology
- iii) Life member of the Indian Society of Medical Statistics
- iv) Life member of Indian Immunological Society
- v) Life member of Indian Epilepsy Association
- vi) Life member of the Indian Stroke Association
- vii) Member, Indian Epilepsy Society

**9. Contribution to Affordable Neurology practice**

Has always tried to champion the cause of affordable treatment for neurology patients. For example, evidence for the role of intravenous methylprednisolone in GBS in situations where neither IVIG nor plasmapheresis are affordable/available; role of azathioprine in multiple sclerosis when other disease-modifying treatments are not affordable and tenecteplase as a thrombolytic agent for acute ischaemic stroke has been highlighted for the benefit of poor patients and practice in resource-limited settings.

**10. Number of books Authored/Edited.**

- Bickerstaff's Neurological Examination in Clinical Practice. **Prasad K (editor-in-chief)**, Yadav R. 7<sup>th</sup> edition (2013). Publisher - Wiley India Pvt. Ltd., New Delhi.

- **Kameshwar Prasad.** Fundamentals of Evidence Based Medicine: Basic Concepts in Easy Language. Springer; 2nd ed. 2013 edition (August 30, 2013). ISBN-13: 978-8132208303.
- **Kameshwar Prasad.** Fundamentals of Evidence Based Medicine: Basic Concepts in Easy Language. Meeta Publishers; 1<sup>st</sup> ed. 2004. ISBN-10: 8132208307. This has received enthusiastic comments / review which include as follows:

*“Where does this book fit in the world of EBM textbooks? If a practitioner asked me to recommend one book to help in understanding EBM concepts, I would recommend this one. ... clarity epitomizes this book. ... it makes difficult concepts understandable through clear language and well-chosen examples. The author has addressed the “fundamentals” of the book’s title very well.” –Journal of American Medical Association(JAMA), December 20, 2006 – Vol 296, No.23.*

*‘Review of books are not always just or insightful, and this is as true of medical texts as any other genre. In this case, however, justice has been done: the JAMA review of the first edition noted that students, residents as well as master students of research methodology will find the book easy reading and very useful. While fitting, the JAMA comments represent an understatement: I don’t think it is possible to have a clearer or more engaging presentation of the key concepts of EBM than the one Dr. Prasad offers. Readers of the book are in for a treat – and a learning experience that will leave them far better equipped to use the medical literature to improve their patient care’. – Prof. Gordon Guyatt, McMaster University, Canada.*

**11.(a) Number of patents/copyrights/Trade mark/IPR granted/applied for and highlights of translational research contributions:**

Copyright co-holder of cohort study questionnaire

**(b) Technologies developed, licensed and/or commercialized with details.**

Nil

**12. Dissertations supervised:**

- |     |                             |   |                        |
|-----|-----------------------------|---|------------------------|
| (a) | Ph.D. [as Chief Supervisor] | : | 8                      |
| (b) | Post-graduation             | : | D.M. (Neurology) - >50 |

## PUBLICATIONS

**H-index : 55, i10 index -354 More than 19468 citations (as per Google scholar accessed on 15 August, 2023)**

### **SYSTEMATIC REVIEWS, META-ANALYSES AND GUIDELINES**

#### **COVID-19 Related systematic review and meta-analyses**

1. Misra S, Kolappa K, Prasad M, Radhakrishnan D, Thakur KT, Solomon T, Michael BD, Winkler AS, Beghi E, Guekht A, Pardo CA, Wood GK, Hsiang-Yi Chou S, Fink EL, Schmutzhard E, Kheradmand A, Hoo FK, Kumar A, Das A, Srivastava AK, Agarwal A, Dua T, **Prasad K**. Frequency of Neurologic Manifestations in COVID-19: A Systematic Review and Meta-analysis. *Neurology*. 2021 Oct 11;10.1212/WNL.0000000000012930. doi: 10.1212/WNL.0000000000012930.
2. Kumar A, Karn E, Trivedi K, Kumar P, Chauhan G, Kumari A, Pant P, Munisamy M, Prakash J, Sarkar PG, **Prasad K**, Prasad A. Procalcitonin as a predictive marker in COVID-19: A systematic review and meta-analysis. *PLoS One*. 2022 Sep 9;17(9):e0272840. doi: 10.1371/journal.pone.0272840. PMID: 36084093; PMCID: PMC9462680.
3. Prakash J, Bhattacharya PK, Yadav AK, Kumar A, Tudu LC, **Prasad K**. ROX index as a good predictor of high flow nasal cannula failure in COVID-19 patients with acute hypoxemic respiratory failure: A systematic review and meta-analysis. *J Crit Care*. 2021 Dec;66:102-108. doi: 10.1016/j.jcrc.2021.08.012.
4. Elavarasi A, Sahoo RK, Seth T, Shalimar, Madan K, Nischal N, Soneja M, Sharma A, Garg P, **Prasad K**. Anti-interleukin-6 therapies for Covid-19: A systematic review, critical appraisal and meta-analysis. *Natl Med J India*. 2020 May-Jun;33(3):152-157.
5. Seth T, Elavarasi A, Sahoo RK, Shalimar, Madan K, Nischal N, Soneja M, Garg P, **Prasad K**, Sharma A. Convalescent plasma therapy for Covid-19: A systematic review. *Natl Med J India*. 2020 Jul-Aug;33(4):213-221

#### **COCHRANE REVIEWS AND THEIR OVERVIEWS**

6. **Prasad K**, Singh MB, Ryan H. Corticosteroids for managing tuberculous meningitis. *Cochrane Database Syst Rev*. 2016 Apr 28;4(4):CD002244. (**Update -2**)
7. **Prasad K**, Singh M. Corticosteroids for managing tuberculous meningitis. *Cochrane Database Syst Rev*. 2008 23;(1):CD002244.PMID: 18254003 (**Update -1**)
8. **Prasad K**, Volmink J, Menon GR. Steroids in tuberculous meningitis (Cochrane Review). In: *The Cochrane Library*, Issue 3, 1998. Oxford: Update Software  
**Prasad K**. Steroids in cerebral malaria (Cochrane Review). In: *The Cochrane Library*, Issue 3, 1998. Oxford: Update Software.
9. **Prasad K**, Mendelow AD, Gregson B. Surgery for primary supratentorial intracerebral haemorrhage. *Cochrane Database Syst Rev*. 2008 Oct 8;(4):CD000200. Review (**Update -1**)
10. Prasad K, Shrivastava A. Surgery for primary supratentorial intracerebral haemorrhage. *Cochrane Database Syst Rev*. 2000;(2):CD000200

11. **Prasad K**, Kumar A, Gupta PK, Singhal T. Third generation cephalosporins versus conventional antibiotics for treating acute bacterial meningitis. *Cochrane Database Syst Rev.* 2007;( 4):CD001832. (**Update -1**)
12. **Prasad K**, Singhal T, Jain N, Gupta PK. Third generation cephalosporins versus conventional antibiotics for treating acute bacterial meningitis (Cochrane Review). In: *The Cochrane Library, Issue 2, 2004.* Chichester, UK: John Wiley & Sons, Ltd.
13. **Prasad K**, Al-Roomi K, Krishnan PR, Sequeira R. Anticonvulsant therapy for status epilepticus. *Cochrane Database Syst Rev* 2005;CD003723 (**Update-1**)
14. **Prasad K**, Al-Roomi K., Sequeira R. Anticonvulsant therapy for status epilepticus (Protocol for a Cochrane Review). In: *The Cochrane Library, Issue 3, 2002.* Oxford: Update Software
15. van de Beek D, de Gans J, McIntyre P, **Prasad K**. Corticosteroids for acute bacterial meningitis. *Cochrane Database Syst Rev* 2007;24:CD004405 (**Update -1**)
16. van de Beek D, de Gans J, McIntyre P, **Prasad K**. Corticosteroids in acute bacterial meningitis (Cochrane Review). In: *The Cochrane Library, Issue 2, 2004.* Chichester, UK: John Wiley & Sons, Ltd.
17. Brouwer MC, McIntyre P, **Prasad K**, van de Beek D. Corticosteroids for acute bacterial meningitis. *Cochrane Database Syst Rev.* 2015 Sep 12;2015(9):CD004405. (**Update -2**)
18. Brouwer MC, McIntyre P, **Prasad K**, van de Beek D. Corticosteroids for acute bacterial meningitis. *Cochrane Database Syst Rev.* 2013 Jun 4;6:CD004405 (**Update -1**)
19. Brouwer MC, McIntyre P, de Gans J, **Prasad K**, van de Beek D. Corticosteroids for acute bacterial meningitis. *Cochrane Database Syst Rev.* 2010 Sep 8;(9):CD004405. doi: 10.1002/14651858.CD004405.pub3.
20. **Prasad K**, Karlupia N, Kumar A. Treatment of bacterial meningitis: An overview of Cochrane systematic reviews. *Respiratory Medicine* 2009;103:945-50.
21. **Prasad K**, Karlupia N. Prevention of bacterial meningitis: an overview of Cochrane systematic reviews. *Respir Med.* 2007;101(10):2037-43.

## **OTHER SYSTEMATIC REVIEWS, META-ANALYSES AND CLINICAL GUIDELINES**

22. **Prasad K**, Siemieniuk R, Hao Q, Guyatt G, O'Donnell M, Lytvyn L, Heen AF, Agoritsas T, Vandvik PO, Gorthi SP, Fisch L, Jusufovic M, Muller J, Booth B, Horton E, Fraiz A, Siemieniuk J, Fobuzi AC, Katragunta N, Rochweg B. Dual antiplatelet therapy with aspirin and clopidogrel for acute high risk transient ischaemic attack and minor ischaemic stroke: a clinical practice guideline. *BMJ.* 2018;363:k5130.
23. **Prasad K**, Kaul S, Padma MV, Gorthi SP, Khurana D, Bakshi A. Stroke Management. *Annals of Indian Academy of Neurology* 2011;14:82-96. (**Guideline**)
24. Rai A, Shrivastava PK, Kumar A, **Kumar A**, Prasad K, Shakeel S, Ul Haque Z. Comparative Effectiveness of Medicinal Interventions for Oral Submucous Fibrosis: A Network Meta-Analysis. *J Stomatol Oral Maxillofac Surg.* 2023 Feb 11:101423. doi: 10.1016/j.jormas.2023.101423
25. van de Beek D, de Gans J, McIntyre P, **Prasad K** Steroids in adults with acute bacterial meningitis: a systematic review. *Lancet Infect Dis.* 2004 Mar;4(3):139-43.
26. Wang X, Ye Z, Busse JW, Hill MD, Smith EE, Guyatt GH, **Prasad K**, Lindsay MP, Yang H, Zhang Y, Liu Y, Tang B, Wang X, Wang Y, Couban RJ, An Z. Endovascular thrombectomy with or without intravenous alteplase for acute ischemic stroke due to large vessel occlusion: a systematic review and meta-analysis of randomized trials.



- Stroke Vasc Neurol. 2022 Dec;7(6):510-517. doi: 10.1136/svn-2022-001547. Epub 2022 Jun 20. PMID: 35725244; PMCID: PMC9811536.
27. Pant P, Sarkar P, Kumar A, **Prasad K**. Arteriovenous fistula in predialysis chronic kidney disease patients and rate of decline of glomerular filtration rate. *J Vasc Access*. 2022 Apr 7:11297298221086840. doi: 10.1177/11297298221086840. Epub ahead of print. PMID: 35389283.
  28. Nath M, Misra S, Talwar P, Vibha D, Srivastava AK, **Prasad K**, Kumar P. Association between Angiotensin Converting Enzyme Insertion/Deletion gene polymorphism with the risk of Hemorrhagic Stroke: A systematic review and Meta-Analysis of 53 studies. *Gene*. 2021 Jul 20;790:145696
  29. Kumar A, Rawat D, **Prasad K**. Stem Cell Therapy in Ischemic Stroke: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. *Ann Indian Acad Neurol*. 2021 Mar-Apr;24(2):164-172
  30. Misra S, Montaner J, Ramiro L, Arora R, Talwar P, Nath M, Kumar A, Kumar P, Pandit AK, Mohania D, **Prasad K**, Vibha D. Blood biomarkers for the diagnosis and differentiation of stroke: A systematic review and meta-analysis. *Int J Stroke*. 2020 Oct;15(7):704-721.
  31. Nair P, Misra S, Nath M, Vibha D, Srivastava A, **Prasad K**, Kumar P Cystatin C and Risk of Mild Cognitive Impairment: A Systematic Review and Meta-Analysis *Dement Geriatr Cogn Disord* . 2020;49(5):471-482
  32. Kumar P, Sharma R, Misra S, Kumar S, Nath M, Nair P, Vibha D, Srivastava AK, **Prasad K** Carotid Intima-Media Thickness (CIMT) as a risk factor for Stroke Subtype: A Systematic Review *EUROPEAN JOURNAL OF CLINICAL INVESTIGATION* 2020 Jul 16;e13348.
  33. Kumar A, Misra S, Yadav AK, Sagar R, Verma B, Grover A, **Prasad K**. Role of glial fibrillary acidic protein as a biomarker in differentiating intracerebral haemorrhage from ischaemic stroke and stroke mimics: a meta-analysis. *Biomarkers*. 2020 Feb;25(1):1-8. doi: 10.1080/1354750X.2019.1691657.
  34. Misra S, Talwar P, Kumar A, Kumar P, Sagar R, Vibha D, Pandit AK, Gulati A, Kushwaha S, **Prasad K**. Association between matrix metalloproteinase family gene polymorphisms and risk of ischemic stroke: A systematic review and meta-analysis of 29 studies. *Gene*. 2018 Sep 25;672:180-194.
  35. Thelengana A, Radhakrishnan DM, Prasad M, Kumar A, **Prasad K**. Tenecteplase versus alteplase in acute ischemic stroke: systematic review and meta-analysis. *Acta Neurol Belg*. 2018 May 4. doi: 10.1007/s13760-018-0933-9.
  36. Misra S, Kumar A, Kumar P, Yadav AK, Mohania D, Pandit AK, **Prasad K**, Vibha D. Blood-based protein biomarkers for stroke differentiation: A systematic review. *Proteomics Clin Appl*. 2017 Sep;11(9-10).
  37. Prasad M, Kathuria P, Nair P, Kumar A, **Prasad K**. Mobile phone use and risk of brain tumours: a systematic review of association between study quality, source of funding, and research outcomes. *Neurol Sci*. 2017;38(5):797-810
  38. Kumar A, Misra S, Kumar P, **Prasad K**, Pandit AK, Chakravarty K, Kathuria P, Gulati A. Association between endothelial nitric oxide synthase gene polymorphisms and risk of ischemic stroke: A meta-analysis. *Neurol India*. 2017 Jan-Feb;65(1):22-34.
  39. Alexander P, Heels-Ansdell D, Siemieniuk R, Bhatnagar N, Chang Y, Fei Y, Zhang Y, McLeod S, **Prasad K**, Guyatt G. Hemicraniectomy versus medical treatment with large MCA infarct: a review and meta-analysis. *BMJ Open*. 2016 Nov 24;6(11):e014390.
  40. England TJ, Sprigg N, Alashev AM, Belkin AA, Kumar A, **Prasad K**, Bath PM.

- Granulocyte-Colony Stimulating Factor (G-CSF) for stroke: an individual patient data meta-analysis. *Sci Rep.* 2016 Nov 15;6:36567.
41. Kumar P, Yadav AK, Misra S, Kumar A, Chakravarty K, **Prasad K**. Prediction of upper extremity motor recovery after subacute intracerebral hemorrhage through diffusion tensor imaging: a systematic review and meta-analysis. *Neuroradiology* 2016 Oct;58(10):1043-1050.
  42. Kumar P, Misra S, Kumar Yadav A, Kumar A, Sriwastva M, **Prasad K**. Relationship between Interleukin-6 (-174G/C and -572C/G) Promoter Gene Polymorphisms and Risk of Intracerebral Hemorrhage: A Meta-Analysis. *Pulse (Basel)*. 2016 Sep;4(2-3):61-68. Epub 2016 Jul 14.
  43. Kumar P, Misra S, Kumar A, Kishor Pandit A, Chakravarty K, **Prasad K**. Association between Lymphotoxin Alpha (-252G/A and -804C/A) Gene Polymorphisms and Risk of Ischemic Stroke: A Meta-Analysis. *Acta Neurol Taiwan*. 2016 Acta Neurol Taiwan. 2016 Mar;25(1):10-7.
  44. Kumar P, Kumar A, Srivastava MK, Misra S, Pandit AK, **Prasad K**. Association of Transforming Growth Factor Beta-1-509C/T Gene Polymorphism with Ischemic Stroke: A Meta Analysis. *Basic Clin Neurosci*. 2016 Apr;7(2):91-6.
  45. Kumar P, Yadav AK, Misra S, Kumar A, Chakravarty K, **Prasad K**. Role of Interleukin-10 (-1082A/G) gene polymorphism with the risk of ischemic stroke: a meta-analysis. *Neurol Res*. 2016 Sep;38(9):823-30
  46. Kumar P, Kathuria P, Nair P, **Prasad K**. Prediction of Upper Limb Motor Recovery after Subacute Ischemic Stroke Using Diffusion Tensor Imaging: A Systematic Review and Meta-Analysis. *J Stroke*. 2016 Jan;18(1):50-9
  47. Pandit AK, Kumar P, Kumar A, Chakravarty K, Misra S, **Prasad K**. High-dose statin therapy and risk of intracerebral hemorrhage: a meta-analysis. *Acta Neurol Scand*. 2015 Dec 9. doi: 10.1111/ane.12540. [Epub ahead of print] Review. PubMed PMID: 26647879.
  48. Kumar P, Yadav AK, Kumar A, Sagar R, Pandit AK, **Prasad K**. Association between interleukin-6 (G174C and G572C) promoter gene polymorphism and risk of ischemic stroke : A meta-analysis. *Annals of Neurosc* 2015;22:2.
  49. Kumar A, Vivekanandhan S, Srivastava A, Tripathi M, Padma Srivastava MV, Saini N, Kumar P, **Prasad K**. Association between angiotensin converting enzyme gene insertion/deletion polymorphism and ischemic stroke in north Indian population: a case-control study and meta-analysis. *Neurol Res*. 2014;36(9):786-94.
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  51. **Prasad K**, Krishnan PR. Fever is associated with doubling of odds of short-term mortality in ischemic stroke: an updated meta-analysis. *ActaNeurol Scand*. 2010;122:404-8.
  52. Srivastava A, Mansel RE, Arvind N, **Prasad K**, Dhar A, Chabra A. Evidence-based management of Mastalgia: A meta-analysis of randomised trials. *Breast*. 2007 Oct;16(5):503-12.
  53. **Prasad K**, Krishnan PR, Al-Roomi K, Sequeira R. Anticonvulsant Therapy for Status Epilepticus. *Br J ClinPharmacol*. 2007;63(6):640-7.
  54. Hamdy H, **Prasad K**, Anderson MB, Scherpbier A, Williams R, Zwierstra R, Cuddihy H. BEME systematic review: predictive values of measurements obtained in medical schools and future performance in medical practice. *Med Teach* 2006;28:103-16.

55. **Prasad K**, Browman G, Shrivastava A, Menon Geetha. Surgery in primary supratentorial intracerebral hematoma: a meta-analysis of randomised trials. *Acta Neurologica Scandinavica* 1997;95:103-110.
56. Salinas R, Counsell C, **Prasad K**, Gelband H, Garner P. Treating neurocysticercosis: a systematic review of randomized controlled trials. *Tropical Medicine and International Health* 1999;4:713-718

### COVID-19 RELATED ARTICLES

57. Michael BD, Walton D, Westenberg E, García-Azorín D, Singh B, Tamborska AA, Netravathi M, Chomba M, Wood GK, Easton A, Siddiqi OK, Jackson TA, Pollak TA, Nicholson TR, Nair S, Breen G, **Prasad K**, Thakur KT, Chou SH, Schmutzhard E, Frontera JA, Helbok R, Padovani A, Menon DK, Solomon T, Winkler AS; Global COVID-19 Neuro Research Coalition. Consensus Clinical Guidance for Diagnosis and Management of Adult COVID-19 Encephalopathy Patients. *J Neuropsychiatry Clin Neurosci.* 2023 Winter;35(1):12-27. doi: 10.1176/appi.neuropsych.22010002. Epub 2022 Jul 25. PMID: 35872617.
58. Beghi E, Giussani G, Westenberg E, Allegri R, Garcia-Azorin D, Guekht A, Frontera J, Kivipelto M, Mangialasche F, Mukaetova-Ladinska EB, **Prasad K**, Chowdhary N, Winkler AS. Acute and post-acute neurological manifestations of COVID-19: present findings, critical appraisal, and future directions. *J Neurol.* 2022 May;269(5):2265-2274. doi: 10.1007/s00415-021-10848-4. Epub 2021 Oct 21. PMID: 34674005; PMCID: PMC8528941.
59. Beghi E, Michael BD, Solomon T, Westenberg E, Winkler AS; **Prasad K** COVID-19 Neuro Research Coalition. Approaches to understanding COVID-19 and its neurological associations. *Ann Neurol.* 2021 Apr 9
60. Thakur KT, Tamborska A, Wood GK, McNeill E, Roh D, Akpan Imo J, Miller EC, Bautista A, Claassen J, Kim CY, Guekh A, Pardo CA, Williams O, Azan DG, **Prasad K**, Schmulzhard E, Michael BD, Chou SHY, Winkler AS, Solomon T, Fikind M Clinical review of cerebral venous thrombosis in the context of COVID-19 vaccinations : Evaluation, management, and scientific questions *Journal of Neurological Sciences* 2021 DOI:<https://doi.org/10.1016/j.jns.2021.117532>

### ORIGINAL RESEARCH ARTICLES

61. Kumar A, Chauhan G, Sharma S, Dabla S, Sylaja PN, Chaudhary N, Gupta S, Agrawal CS, Anand KS, Srivastava AK, Vibha D, Sagar R, Raj R, Maheswari A, Vivekanandhan S, Kaul B, Raghavan S, Gorthi SP, Mohania D, Kaushik S, Yadav RK, Hazarika A, Sharma P, **Prasad K**. Association of SUMOlation Pathway Genes With Stroke in a Genome-wide Association Study in India. *Neurology.* 2021 May 24;10.1212/WNL.0000000000012258
62. Gulati K, Dwivedi SN, Kant S, Vibha D, Pandit AK, Srivastava AK, Ikram MA,

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# **INVITED SCIENTIFIC PRESENTATIONS**

## **A. International**

### **2017**

1. How to grade evidence and move from evidence to treatment recommendation. Workshop on EBM. 26th-28th March 2017, Gulf Medical University, Ajman, United Arab Emirates.
2. Confounding and Interactions: Distortions or Truth. 15th Asia Pacific Evidence Based and Nursing conference, 20-24th February 2017, National University Hospital, Singapore.
3. Establishing a cohort study in India: Challenges and Opportunities Neuroepiomics course “Epidemiology of vascular & Brain aging in cohorts with large scale imagine and omics data 23rd-26th September 2016, Boston University Medical centre, Boston, USA.
4. Heterogeneity in Meta analysis Effect measures used in RCTs. Critical appraisal of a therapy paper. McMaster evidence based clinical practice workshop, 6th-10th June 2016, McMaster University, Canada.

### **2016**

5. Evidence based clinical practice. 14th Asia-Pacific Evidence Based Medicine and Nursing (APEBMN) Conference held form 16th -19th February 2016 at Singapore.
6. Evidence based clinical practice. McMaster Evidence-Based Clinical Practice Workshop held from 6th -10th June 2016 at McMaster University, Canada.
7. Evidence based clinical practice. 1<sup>st</sup> International conference for EBPC to held from 13th to 14th July, 2016 at Maldives.

### **2015**

1. Confounding and Interaction: Distortion or truth. 13th Asia Pacific Evidence Based Medicine and Nursing (APEBMN) Conference, 20th-23rd January 2015, Singapore
2. Lectures on ‘Study designs’ and Randomised controlled trials. Research Methodology, 14th February 2015, Kuwait University, Kuwait..

### **2014**

3. Teaching seminar systematic review and ‘meta analysis: a part of research cycle. 9th World Stroke Congress, 22nd-25th October 2014, Istanbul, Turkey.
4. “Evidence Based Medicine”. International Conference on Medical Education of the Future- Strategies and innovations for success: An evidence-based education system. SumandeepVidyapeeth University, Gujarat. 20-21 June 2014.

5. "P-values vs. confidence intervals: which one and why?" 12th Asia Pacific Evidence Based Medicine & Nursing Conference. National University Hospital Singapore. Singapore, 17 – 21 February 2014.

## **2013**

6. "Systematic Reviews & Meta-analysis". International Society for Evidence Based Healthcare. 2nd International Conference for Evidence Based Healthcare. Taromina, Italy. 30 October – 02 November 2013.
7. Invited to conduct workshop on Evidence Based Medicine at Hamad General Hospital, Doha, Qatar from 15<sup>th</sup> to 21<sup>st</sup> June 2013. This included lectures on:
  - i. "Introduction to Evidence-Based Medicine" at 'Training of Trainers' workshop held in Medical Education Centre, HMC, Qatar on 15<sup>th</sup> June 2013; in Advanced Workshop on "Evidence-Based Medicine for Residents" on 16, 17 & 19 June 2013; and at "Advanced Evidence-Based Medicine Workshop" for New Faculty on 20<sup>th</sup> June 2013 at the same venue.
  - ii. Lectures on "Appraisal of Systematic Reviews and Meta-Analysis at 'Training of Trainers' workshop held in Medical Education Centre, HMC, Qatar on 15<sup>th</sup> June 2013; in Advanced Workshop on "Evidence-Based Medicine for Residents" on 16, 17 & 19 June 2013; and at "Advanced Evidence-Based Medicine Workshop" for New Faculty on 20<sup>th</sup> June 2013.
8. "Predictors of In-hospital mortality in Indian patients with intracerebralhaemorrhage: A prospective study. European Stroke Conference, London, 28-31 May 2013.
9. Invited to conduct workshops on "Evidence Based Medicine" during the 11<sup>th</sup> Asia Pacific Evidence Based Medicine and Nursing Conference at Singapore, 7-11 January 2013.

## **2012**

10. Conducted a workshop on "Systematic Reviews and Meta-Analysis" in the First International Conference on Evidence Based Healthcare (ISEHCON 2012), 6-8 October, 2012, New Delhi.
11. Conducted a course on "Training-the-Trainers" organized by Royal College of Surgeons in Ireland Medical University of Bahrain, 24-30 November 2012 at Naim Health Centre in Bahrain and delivered following lectures:
  - i. Critical appraisal of Theory paper
  - ii. Critical appraisal of Diagnostic test paper
  - iii. Critical appraisal of Systematic reviews and meta-analysis
  - iv. Critical appraisal of Prognostic study
12. Presented a paper on "Implementing affordable stroke services in recourse-poor settings" in the 8th World Stroke Congress, Brasilia, Brazil, October 10- 13, 2012.
13. Invited as a Resource Faculty to participate and conduct workshop in "Improving your Practice/Teaching through Evidence Based Clinical Practice Workshops" from June 4th to Friday June 8th, 2012 at McMaster University, Canada.

14. Delivered a talk on “How to Make EBM Learning Easy & Enjoyable” in the First International Conference on Evidence Based Healthcare (ISEHCON 2012), 6-8 October, 2012, New Delhi.
15. Invited to conduct workshops on ‘Study Designs’ during the 10th Asian Pacific Evidence Based Medicine & Nursing Workshop and Conference from 6 – 10 February 2012 at Singapore.
16. Delivered two lectures on ‘Critical appraisal of Theory paper’ and ‘Meta Analysis’ in a Workshop on “Evidence Based Medicine” at First Qatar Medical Education Conference 20th – 22nd January 2012 at Qatar.

## **2011**

17. Delivered a lecture on ‘Teaching Heterogeneity’ during the 17th Oxford Workshop on Teaching Evidence Based Practice held from 5th-8th September 2011 at St. Hugh’s College, Oxford, UK.
18. Invited as a faculty at the “How to Teach Evidence Based Clinical Practice Workshop” held from 5th-10th June at Hamilton, Canada.
19. Invited to conduct workshop on Evidence Based Medicine at Hamad General Hospital, Doha, Qatar from 28 April – 2 May 2011. This included lectures on:
  - i. Critical appraisal of a ‘Therapy’ paper
  - ii. Critical appraisal of a ‘Diagnostic test’ paper
  - iii. Moving towards effective journal club
20. Invited to conduct the 9th Asia Pacific Evidence Based Medicine & Nursing Workshop and Conference at the National University Hospital, Singapore from 17-21 January 2011. This also included lectures on:
  - i. Study designs
  - ii. Moving towards effective journal club

## **2010**

21. ‘Autologous intravenous bone marrow derived stem cell therapy for patients with acute ischemic stroke: an open-label, phase I trial.’ 7th World Stroke Congress, Seoul, Korea. 13 – 16 October 2010.
22. ‘Predicting requirement of ventilatory support in patients with acute stroke: a prospective cohort study.’ 7th World Stroke Congress, Seoul, Korea. 13 – 16 October 2010.
23. Invited as a Faculty to conduct workshop on “Evidence Based Medicine” at Hamad General Hospital, Doha, Qatar from 30<sup>th</sup> September to 3<sup>rd</sup> October 2010, which also included delivering lectures on :
  - i. Induction to Evidence Based Medicine
  - ii. Critical appraisal of a therapy paper
  - iii. Critical appraisal of a systematic review meta-analysis paper
24. Invited as a Faculty to teach in the workshop on ‘How to Teach Evidence Based Medicine’ at McMaster University, Canada from 6 – 11 June 2010.

25. Invited as a Faculty to conduct a workshop on ‘Evidence Based Medicine’ at University of Sharjah, UAE from 17 – 19 June 2010, which also included delivering lectures on :
  - i. Evidence Based Medicine: What, why and how?
  - ii. Introduction to systematic reviews and meta-analysis
  - iii. Moving towards effective journal club
26. Invited as a Faculty to conduct a workshop on ‘Evidence Based Medicine’ at Hamad Medical Corporation, Doha, Qatar from 7 to 13 May 2010, which also included delivering lectures on:
  - i. Induction to Evidence Based Medicine
  - ii. Critical appraisal of a therapy paper
  - iii. Critical appraisal of a systematic review meta-analysis paper
  - iv. Critical appraisal of a diagnosis paper
27. Invited as Faculty in the 8<sup>th</sup> Asia Pacific Evidence Based Medicine & Nursing workshop and conference organized by National University Health Systems, Singapore at Penang, Malaysia from 2 – 5 February 2010.

## **2009**

28. Conducted a workshop on “*How to do Cochrane Systematic Review*” at Riyadh, Saudi Arabia, 18-23 May 2009 and delivered following lectures:
  - i. Systematic review and meta-analysis: An introduction.
  - ii. Format for protocol and Cochrane review
  - iii. Assessing methodologic quality of studies for review
  - iv. Meta-analysis: statistical issues
  - v. Assessing publication bias in a meta-analysis
29. Invited as a Resource Person in the 15<sup>th</sup> Oxford Workshop on Teaching Evidence Based Practice held at University of Oxford from 7 – 11 September 2009.
30. Invited as a Faculty and conducted a workshop “How to Teach Evidence-Based Clinical Practice” held at McMaster University, Canada from 31 May 2009 to 5<sup>th</sup> June 2009.
31. Invited to conduct a workshop on “*How to do Cochrane Systematic Review*” at Riyadh, Saudi Arabia, 18-23 May 2009.
32. Invited to deliver a lecture on “Assessing Severity of Tuberculous Meningitis : Beyond MRC” in the International Workshop on the Pathogenesis, Diagnosis & Management of TB meningitis held in University of Cape Town, South Africa on 8-10 May 2009.

## **2008**

33. Invited sole Indian faculty as a Tutor for the 7<sup>th</sup> Asia Pacific Evidence-Based Medicine and Nursing Workshop and Conference at National University of Singapore between 13<sup>th</sup> to 16<sup>th</sup> January 2009.
34. Presented paper on “Fever is associated with doubling of odds of short-term mortality in ischaemic stroke”. 6<sup>th</sup> World Stroke Congress, taking place in Vienna, Austria, on September 24 - 27, 2008.
35. Invited sole Indian faculty to teach at the 14<sup>th</sup> Oxford Workshop on Teaching Evidence-Based Practice held from 8-12 September 2008 at Oxford, UK.

36. Invited to conduct a Workshop on Meta-analysis at the BP Koirala Institute of Health Sciences, Dharan on 11<sup>th</sup> – 12<sup>th</sup> August 2008.
37. Invited faculty in the Fifth Asia Pacific EBM Workshop and Conference held from 26-28 February 2008 at National University Hospital, Singapore and in the Post-conference workshop on “Developing clinical practice guidelines” on 29 February, 2008.
38. Invited faculty to conduct workshops on Evidence-Based Medicine at College of Medicine and Health Sciences, Sultan Qaboos University, Oman, 14 – 17 January 2008 and delivered lectures on ‘Critical appraisal of a therapy paper’ and ‘Meta-Analysis: An Introduction’, besides conducting four small group sessions.
39. Invited sole international faculty at the Meningitis conference held in Milano, Italy on January 30, 2008, where delivered a lecture on 'From evidence to action: meningitis from developing country perspective'
40. Invited faculty at the 'Research Methodology workshop' held in University of Sharjah between February 14-17, 2008, United Arab Emirates.
41. Invited faculty at the Third Annual conference of the Indian Stroke Association, held between February 8 to 10, 2008 at Amritsar, India.
42. Invited faculty at the 'Statistics for Non-statisticians' workshop held between April 24-26, 2008 at the College of Medicine, University of Sharjah, United Arab Emirates.
43. Invited sole international faculty at the 'Training-of-trainers' workshop held on May 9-10 (Part-I) and May 16-17 (Part-II) at Medical Education centre, Hamad Medical Corporation, Doha, Qatar.
44. Faculty to the workshop on 'How to do systematic review and meta-analysis' at the Arabian Gulf University, Bahrain between March 6-8, 2008, in which delivered several lectures besides conducting small group sessions.
45. Faculty to the Workshop on Evidence-based Medicine at the Arabian Gulf University, Bahrain, between April 12 -14, 2008, in which delivered several lectures besides conducting small group sessions.

## **2007**

46. Invited sole international faculty to conduct workshop on Evidence Based Medicine at Hamad Medical Corporation, Doha, Qatar, 16-21 January 2007 and delivered lectures on ‘Evidence Based Medicine: An Introduction’; ‘How to do critical appraisal of Therapy, Diagnostic, Meta-Analysis Papers’; ‘Research Methodology : An Introduction to Clinical Research’; ‘Study Designs’; ‘Sample Size estimation’; ‘Designing a randomized clinical trial’; ‘Diagnostic test study’; and ‘Design and analysis of prognostic factor study’.
47. Invited to conduct workshops on Evidence-Based Medicine at College of Medicine, University of Sharjah, 27-28 January 2007 and delivered lectures on ‘Evidence Based Medicine: An Introduction’ and ‘Critical Appraisal of Meta Analysis Paper’.
48. Invited to participate in the Pre-conference workshop on “Developing clinical practice guidelines” and Fifth Asia Pacific EBM Workshop and Conference scheduled to be held from 3-7 February 2007 at National University Hospital, Singapore.

49. Invited to conduct workshops on Evidence-Based Medicine at College of Medicine and Health Sciences, Sultan Qaboos University, Oman, 29 January – 1 February 2007 and delivered lectures on ‘Evidence Based Medicine: Past Present and Future’ and ‘Meta-Analysis: An Introduction’.

## **2006**

50. Presented paper ‘Effects of surgery for primary supratentorialintracerebral hemorrhage: A meta-analysis’ at the Joint World Congress on Stroke to be held at Cape Town, South Africa from October 26-29,2006.
51. Delivered lectures on "Education Research Methodology" at the Arabian Gulf University, Bahrain from 4-6 October 2006.
52. Invited to conduct the workshop on ‘Evidence Based Medicine’ held at Kuwait from 16-19 September 2006.
53. Invited to conduct workshops on ‘Evidence-Based Medicine’ during the International Hematology Conference held in Kuwait, April 1-2, 2006.
54. Invited as a faculty in the 2<sup>nd</sup> Annual Saudi Evidence Based Medicine Conference at Riyadh, Saudi Arabia from 1-4 May 2006.
55. Invited as one of the faculty to assist in the teaching at the Fourth Asia Pacific Evidence Based Medicine Workshop and Conference at the Clinical Research Centre (CRC) of the National University of Singapore (NUS) from 4-7 January 2006.
56. Facilitator in the Second regional workshop on Evidence Based Medicine organized by the Centre of Evidence Based Medicine, Department of Family & Community medicine, Sultan Qaboos University, College of Medicine & Health Sciences in collaboration with WHO and Ministry of Health, Oman from 2-5 January 2006 and also delivered a lecture on 'Meta-analysis : An introduction'.

## **2005**

57. Conducted a Meta-analysis and Research Methodology workshop at the College of Medicine & Medical Sciences, Arabian Gulf University, Bahrain from 24<sup>th</sup> December 2005 to 1<sup>st</sup> January 2006.
58. Delivered lectures on "Educational Research Methodology" at the Arabian Gulf University, Bahrain from 4-6 October 2005.
59. Conducted a CRIP Meta-Analysis Workshop at the National and Gulf Centre for Evidence Based Medicine at Riyadh, Saudi Arabia from 21-22 September 2005.
60. Acted as Tutor in the workshop entitled "How to teach evidence-based clinical practice", McMaster University, Canada from 5-10 June 2005.
61. Conducted a Meta-analysis workshop at the College of Medicine & Medical Sciences, Arabian Gulf University, Bahrain from 18-23 May 2005.
62. Five lectures on “Formulating research question, search strategy, selecting and appraising studies, data entry into Revman, interpretation of forest plot” during the Post-Conference

workshop on How to do Cochrane systematic review in the First Pan Arab Congress for Evidence Based Medicine, Riyadh, Saudi Arabia, 13-14 April 2005.

63. Invited as Guest Speaker in the First PAN Arab congress for Evidence Based Medicine in Saudi Arabia from 9-12 April 2005. Delivered a talk entitled "An introduction to meta-analysis"
64. Introduction to meta-analysis. Regional Workshop on Evidence-Based Medicine at Sultan Qaboos University, Oman, 14-19 January 2005.
65. Invited as a faculty to the Annual workshop on 'How to teach critical appraisal of therapy, diagnosis and meta-analysis papers, Introduction to Evidence-Based Medicine, How to do critical appraisal of therapy and meta-analysis papers, Descriptive and inferential statistics for medical education', 'How to Teach Evidence-Based Medicine and Educational Research Methodology' at the College of Medicine and Medical Sciences, Arabian Gulf University, Bahrain, 3-9 January 2005.

## **2004**

66. Reliability and validity of measurements in medical education" in the workshop on Educational Research Methodology at Arabian Gulf University, Bahrain from 4<sup>th</sup> – 6<sup>th</sup> October, 2004.
67. "Designing research in medical education" in the workshop on Educational Research Methodology at Arabian Gulf University, Bahrain from 4<sup>th</sup> – 6<sup>th</sup> October, 2004.
68. "Writing a research proposal in medical education" in the workshop on Educational Research Methodology at Arabian Gulf University, Bahrain from 4<sup>th</sup> – 6<sup>th</sup> October, 2004.

## **2003**

69. Invited lecture on Evidence-Based Medicine at The American Mission Hospital, Bahrain on 20<sup>th</sup> October, 2003.
70. Invited as a faculty to the Annual workshop on 'How to teach Evidence-Based Clinical Practice' held between June 22-26, 2003 at McMaster University, Canada.
71. Invited faculty to present a seminar on 'Evidence-based Medicine & Quality of Health Care' at the third Asia-Pacific Quality Forum held in Auckland, New Zealand, September 3-5, 2003.

## **2002**

72. Invited lecture on 'Evidence-Based Approaches to practice and teaching of Neurology' held in Bahrain between 16-17 October, 2002.
73. Invited as a faculty to the Annual workshop on 'How to teach Evidence-Based Clinical Practice' held between June 9-14, 2002 at McMaster University, Canada.
74. Invited lecture on 'Evidence-Based Medicine and quality of clinical care' held in BDF hospital, Bahrain on 21<sup>st</sup> October, 2002.
75. Invited as a faculty to the Annual Evidence Based Medicine Workshop held in the Sultan Qaboos University, Muscat in April, 2002.



## **2001**

76. Invited plenary lecture on 'Introduction to Meta-analysis' for the Evidence Based Medicine Workshop held in the Sultan Qaboos University, Muscat in April, 2001.
77. Invited faculty and organiser of the seminar on 'Special issues in quality improvement of health care in developing countries' during the first Asia-Pacific Quality Forum held in Sydney in September, 2001.

## **2000**

78. Invited lecture on 'Methodological Issues In The Measurement Of Quality Of Clinical Care' at the International Clinical Epidemiology Network Global Meeting held in Bangkok, Thailand.
79. Nominated by the INCLEN Inc., USA to attend the World Health Organisation/World Bank/COHRED/Global Forum on Health Research International Conference 2000 held in Bangkok, Thailand.
80. Invited faculty for the Evidence Based Medicine Workshop held in the Sultan Qaboos University, Muscat in April, 2000.

## **1999**

81. Invited by the Agency for Health Care Policy and Research, US Department of Health and Human Services (USA) to participate in the Conference on "*Methodological Challenges in the Production and Synthesis of Knowledge*" organized by the US Agency for Health Care and Policy Research held in Arlington, Virginia, USA between 26-27 October 1999.
82. Invited lecture on "Stroke Registry : Principles and Methods in International Conference on Heart Health in Developing Countries, organized by Department of Cardiology, AIIMS, New Delhi, India on 11<sup>th</sup> October, 1999.
83. Invited oral paper on "Corticosteroid adjunctive treatment in tuberculous meningitis: A meta-analytic study." in the INCLEN Global Meeting XVI held in Thailand between 1<sup>st</sup> March, 1999 to 5<sup>th</sup> March, 1999.
84. Report of Activities of the INCLEN Stroke Collaboration in the plenary meeting in the INCLEN Global Meeting XVI held in Thailand between 1<sup>st</sup> March, 1999 to 5<sup>th</sup> March, 1999.
85. Presentation of progress report on behalf of the INCLEN Stroke Collaborative Group during the final common session in the INCLEN Global Meeting XVI held in Thailand between 1<sup>st</sup> March, 1999 to 5<sup>th</sup> March, 1999.

## **1998**

86. Invited presentation on the priority neurological disorders in India in the Workshop organized by Dr. Donald Silberberg, Prof. of Neurology, University of Pennsylvania, USA, 1998.

## **1997**

87. Presented a paper entitled "Residual confounding: a criterion to assess quality of randomized trials". In: The joint conference on the Scientific Basis of Health Services and Vth Annual Cochrane Colloquium held in Amsterdam between 5-12 October, 1997.

## **1996**

88. Invited lecture on 'Intracerebral haemorrhage in India' in the Department of Clinical Neurosciences, Western General Hospital, University of Edinburgh, UK.
89. Invited presentation on the 'Rationale and design of a simple randomised international trial of dexamethasone in tuberculous meningitis' at the Workshop on Large and Simple Collaborative trials held during the INCLEN XIII conference in Victoria Falls, Zimbabwe.
90. Invited presentation on the 'Framework for a formative evaluation of a University Hospital Stroke Care Programme' at the Workshop on Program Evaluation held during the INCLEN XIII conference in Victoria Falls, Zimbabwe.

## **1995**

91. Invited seminar on 'Relative prolongation of event-free time: a new and clinically relevant measure in survival analysis' at the Department of Clinical Epidemiology and Biostatistics, McMaster University, Hamilton, Canada.
92. 'Role of surgery in the treatment of primary supratentorial intracerebral haemorrhage: a meta-analytic study', a paper presented at the IV<sup>th</sup> European Stroke Conference held in Bordeaux, France.
93. 'Comparison of the tests of homogeneity based on odds ratio and risk difference for interaction' a paper presented at the Third International Cochrane Colloquium held in Oslo, Norway.
94. Invited presentation of a 'Design of a case-control study of risk factors for ischaemic and haemorrhagic stroke' at the First Steering Committee meeting of the 'Study to reduce intracranial vascular events (STRIVE)' held in Frankfurt, Germany.

## **1994**

95. 'The use and misuse of P-values : some recent examples'. a seminar presented at the Dept. of Clinical Epidemiology & Biostatistics, McMaster University, Hamilton.
96. 'A review of priority setting methodology: strengths and weaknesses': a lecture delivered in the Dept. of Clinical Epidemiology & Biostatistics at McMaster University, Hamilton.

## **1993**

97. 'Dexamethasone as an adjunctive treatment of Acute bacterial meningitis: why controversy': a paper present at the XV<sup>th</sup> World Congress of Neurology, Vancouver.

## **1992**

98. 'Neuromuscular disorders and thyrotoxicosis'. an invitational lecture delivered at the Advanced Course on Thyrotoxicosis held in AIIMS, New Delhi.

### **1991**

99. 'A pilot study of prevalence of neurological disorders in a rural/tribal community' at Congress of Tropical neurology, Limoges, France.

100. 'Prevalence of certain neurological disorders in a village of Chhotanagpur' in International symposium in neuroepidemiology in India, Bombay.

101. 'Practical management of acute meningoencephalitis' International medical conference, Ranchi, India.

### **1990**

102. 'Role of host immune response in pathogenesis of tuberculous meningitis' in First International Conference on pathogeneus of mycobacterial infections, Stockholm, Sweden.

103. 'Electrodiagnostic evaluation of diabetic neuropathy' in India-U.S.A. symposium on Endocrinology, Metabolism and Diabetes, New Delhi, India.

104. 'Role of host immune response in pathogenesis of tuberculous meningitis' in First International Conference on pathogeneus of mycobacterial infections, Stockholm, Sweden.

### **1989**

105. 'Diagnostic and prognostic studies in tuberculous meningitis' in Indo-U.S. meeting on major advances in Tuberculosis research, Madras, India.

106. 'Five days versus Ten days of penicillin therapy in meningo-coccal meningitis' in World Congress of Neurology, New Delhi, India.

### **1988**

107. 'A clinico-pathological discussion of a case of quadriplegia with diabetes' in Indo-U.S. Conference on Diabetes, New Delhi, India.

## **B. National**

### **2016**

1. Stem Cells in Stroke 16<sup>th</sup> M.P. & C.G. Neurocon Conference held from 18<sup>th</sup> -19<sup>th</sup> June 2016 at Bhopal.
2. “Meta Analysis and Evidence Bases medicine” from 7<sup>th</sup> -9<sup>th</sup> July, 2016 at AIIMS, Rishikesh.

### **2015**

3. Stem Cells in Stroke. 10th Annual Conference of the Indian Stroke Association, 13th-15th March 2015, Hotel JW Marriott, Chandigarh.
4. Understanding meta analysis of Stroke studies with special reference to genetics in DST-UK Seminar on “Towards the Identification of Cerebrovascular Disease Genes in South Asians”, 28 March 2015, AIIMS, New Delhi.
5. “Stem Cells in Stroke” in the 10th Annual Conference of the Indian Stroke Association on 13th-15th March 2015, Chandigarh.
6. “Evidence-based management of Guillain-Barre Syndrome” in the International workshop on Nerve-Muscle Disorders 22nd February, 2015 at G.B. Pant Institute of Post-graduate Medical Education and Research, New Delhi.

### **2014**

7. Critical appraised of a therapy article. 22nd Cochrane Colloquim 2014, 21st-26th September 2014, Hyderabad.
8. “Evidence Based Medicine”. International Conference on Medical Education of the Future- Strategies and innovations for success: An evidence-based education system. SumandeepVidyapeeth University, Gujarat. 20-21 June 2014.
9. “Newer Anticoagulants”. Neurology Update Patna – 2014. Indian Epilepsy Association (Bihar Chapter). Patna, Bihar. 20 April 2014.
10. “Evidence Based Approach in Neurorehabilitation”. Workshop on Indian Head Injury Foundation. Indian Head Injury Foundation. New Delhi, 23 March 2014.
11. “Hypertension Targets in Ischemic Stroke”. Annual Conference of Indian Stroke Association. Indian Stroke Association. Thiruvananthapuram, Kerala, 14-16 March 2014.
12. “Recent advances in acute stroke management” at Alumni Meet of SGPGI, Lucknow. SGPGI, Lucknow. 1st March 2014.

## **2013**

13. “Evidence informed treatment of cerebrovascular diseases”. 62nd Annual Conference of the Neurological Society of India. Neurological Society of India. Mumbai, 12-15 December 2013.
14. Dr. Kakati Plenary Lecture at Annual Conference of the Association of Neuroscientists of Eastern India. Ranchi, Jharkhand, 15-17 November 2013.
15. “Anticoagulation & Stroke Prevention Newer Anticoagulants: The Time has come”. Heart & Stroke 2013. November 2013.
16. “Confounding in confounders (All you know, don’t know & need to know)”. CGR, 12th November 2013, AIIMS, New Delhi.
17. “Update on stem cells therapy in Stroke; Cognitive neurology seminar; and CPC”. 21st Annual Conference of Indian Academy of Neurology. CHRC & Neuro Club, Indore, 24 – 27 October 2013.
18. “Mechanical thrombolysis in acute ischemic stroke”, Neucon 2013. Department of Neurology, GB Pant Hospital, Delhi, 03 August 2013.
19. Invited to deliver a talk on Genetics diseases and future of Medical Genetics in the Genetic Conclave 2013 at Rajendra Institute of Medical Sciences, Ranchi, Jharkhand held on 2<sup>nd</sup> May 2013.
20. Invited to deliver talks on “Clinical Trials: Design, Conduct and Analysis” and “Systematic Review and Meta-Analysis” in the workshop on Research Methods in Medical Sciences at AIIMS, Bhopal on 4-7 April 2013.
21. Invited to deliver a lecture on “Approach to Patients with Stroke” at Dr. RP Centre for Ophthalmic Sciences, AIIMS, New Delhi on 26 February 2013.
22. Invited to deliver lecture on “How to analyze a Stroke study” on the Conference titled “Overview of Stroke” at NIMHANS, Bangalore on 27<sup>th</sup> January 2013.
23. Invited to deliver a talk on “Surgical management of intracerebral hemorrhage” during the Annual Conference of Indian Stroke Association at Christian Medical College, Ludhiana from 1<sup>st</sup> to 3<sup>rd</sup> March 2013.

## **2012**

24. Delivered a talk on “CVA & its Management”, Medical Professional Conference of NTPC, Lucknow, Uttar Pradesh, 22 December 2012.
25. Delivered a talk on “Atrial fibrillation & Stroke: Recent Advances”. Annual Conference of Neurological Society of India, 19 – 22 December 2012, New Delhi.
26. Delivered a talk on “Diagnostic Criteria for Multiple Sclerosis” in the 1<sup>st</sup> Workshop on Multiple Sclerosis organized by Department of Neurology, AIIMS, New Delhi, 24 November 2012.
27. Invited to conduct workshop on Research Methodology organized by Indian Council of Medical Research at Assam on 14 & 15 September 2012.

28. Invited to deliver talk on “Stem Cell Therapy for Stroke” in NN Gupta Oration on “Research Methodology” in a symposium on “Medical Research: Need and how to do it” on 14th April 2012 at CSM Medical University, Uttar Pradesh.
29. Delivered a talk on :”IVIg in Neurology” and “Recent Advances in Stroke Management” in the ANEIMDCON 2012 Mid-Term CME of Association of Eastern India on 22nd April 2012, Bokaro Steel City, Jharkhand.
30. Delivered a talk on “Stroke” in the Brain Awareness Day held at AIIMS on 9 April 2012.
31. Delivered an invited talk on “Stem Cell therapy and Regeneration” in 67th Conference Annual Conference of Association of Physical of India from 12th-15th January 2012 at Kolkata.

## **2011**

32. Invited to conduct a workshop on ‘Clinical Research’ and deliver several talks on ‘Designing Medical Research or Theses’ at the workshop at RIMS, Ranchi from 03-04 July 2011.
33. Participated in a debate on “Evidence based practice’ during the 19th Annual Conference of Indian Academy of Neurology from 22nd-25th September 2011 at Pune.
34. Delivered an invited lecture on “Approach to the Very Acute Ischemic Stroke” in the Neurovision 2011 CME course in Neurology on 14th August 2011 at Indus Hospital, Vishakhapatnam.
35. Delivered an invited lecture on “Evidence Based Medicine” at Sir Ganga Ram Hospital, New Delhi on 29th September 2011.
36. Delivered an invited lecture on “Study Designs’ the Young Clinicians Program (YCP) of Indian Society of Gastroenterology on 28th August 2011 at Kolkata.
37. Delivered a talk on “Research methodology” at MedantaMedicity on 30 July 2011.
38. Workshop on Evidence Based Medicine” held at AMRI Hospital, Kolkata on 17 April 2011. Delivered lectures on the following topics in the workshop:
  - i. What is Evidence Based Medicine and what it is not?
  - ii. Practicing EBM at the bedside
  - iii. Analysing literature on therapy
  - iv. Analysing literature on Meta analysis
39. Invited talk on “Management of Acute Ischemic Stroke” in the Neurology Update organized by Indian Epilepsy Association (Bihar chapter) and Neurology Department (IGIMS), Patna, 8 May 2011.
40. Invited to deliver the KapilSood Oration on “Young Stroke-known & unknown” in the Annual Conference of Neurological Association of UP &Uttrakhand held on 2nd & 3rd April, 2011 at HIHT University, Dehradun.
41. Delivered an invited talk on Differential diagnosis of “Stroke” in 7th National Congress of Indian Stroke Association on 11th March 2012, Pune.

42. Invited talk on 'Evidence Based Management of CNS Tuberculosis (Medical Aspects)'. In: DNATROPICON at GB Pant Hospital, New Delhi, 29 January 2011.
43. Invited talk on 'Clinical Case Presentation' in the 66<sup>th</sup> Annual Conference of Association of Physicians of India Ahmedabad, January 2011.

## **2010**

44. Invited to deliver a talk on 'Critical analysis of CCSVI concept'. In: An update on Multiple Sclerosis: Emerging Therapies. Fortis Hospital, NOIDA, 14 November 2010.
45. Invited to deliver a talk on 'Status of EBM in medical education and practice'. 42<sup>nd</sup> Annual Day of College of Nursing, AIIMS, 12 November 2010.
46. Invited as Keynote Speaker to deliver a talk on "Why Undergraduates should do medical research?" in the Illuminati 2010 held in AFMC, Pune on 29<sup>th</sup> August 2010.
47. Invited as a Faculty in the Stroke Symposium organized by the St. John's National Academy of Health Research, Bangalore from 20-21 August 2010.
48. Delivered Oration entitled '*Prof. DayanandRao Oration*' and delivered a talk on "Tuberculous meningitis – Lessons learnt from evidence based approach" in the 23<sup>rd</sup> Annual Conference on Neurosciences organized by the Andhra Pradesh Neuroscientists' Association from 24-25 July 2010 at Kakatiya Medical College, Warangal.
49. Invited to deliver a keynote address on "What is evidence-based medicine and what it is not" and "Critical analysis of articles on diagnosis" at AMRI Hospitals Ltd., Kolkata, West Bengal on 27 June 2010.
50. Invited to deliver a talk on 'Recent advances in management of stroke' in the CME in Neurology at Pt. BD Sharma University, Rohtak, 18 April 2010.
51. Invited to deliver a talk on "Tuberculous Meningitis in India: Lessons from evidence based medicine" in TROPICON 2010 held at JIPMER, Pondicherry on 27<sup>th</sup> March 2010.
52. Invited to deliver a talk on "Restorative therapy in stroke: Role of stem cells" and "Role of antiplatelets for primary prevention of stroke". 5<sup>th</sup> National Congress of Indian Stroke Association by the Department of Neurology at AIIMS, New Delhi from 13-15 March 2010.
53. Invited to deliver a talk on "Experience Based Medicine has unique place in practice of Medicine" In the Neucon held in New Delhi, February 2010.
54. Invited to deliver a talk on "Antiplatelet Therapy for Primary & Secondary Prevention of Stroke" in the Annual Conference of Delhi Neurological Association held at New Delhi, February 2010.
55. Invited as a Resource Faculty in the ICMR workshop on Research Methodology at Agartala, Tripura, 18-20 February 2010 and delivered lectures on :

- i. Data management and basic summary measures used in above four designs
  - ii. Formulation of research quest, hypothesis generation
  - iii. Cross sectional studies
  - iv. Cohort
  - v. Characteristics of a good proposal
56. Invited to deliver a talk on “Stem cell therapy: Role in stroke” in Conference on Stroke held at Medanta – The Medicity, Gurgaon on 17 January 2010.
57. Invited to deliver a talk on “Evidence Based Clinical Neurology” in the Annual Conference of the Neurological Society of India from 17-19 December 2009 at SGPGI, Lucknow.
58. Invited to deliver a talk on “Managing Quality in Clinical Services” in the Workshop on Quality Assurance organized by Department of Hospital Administration, AIIMS, New Delhi, November 2009.
59. Invited as a Resource Faculty in the ICMR workshop on Research Methodology, at Guwahati, Assam, 3<sup>rd</sup> – 5<sup>th</sup> September 2009 and delivered talks on :
  - i. Cross Sectional Studies
  - ii. Cohort Studies
  - iii. Case Control Studies
60. Invited to deliver a talk on “Operational Research” in the National Seminar cum Workshop on Operations Research in Hospital Administration Organised by Department of Hospital Administration (AIIMS New Delhi) in Collaboration with World Health Organization, 7-8 August 2009.
61. Conducted workshop on “Clinical Research Methodology” at the Clinical Epidemiology Unit on 25th - 26th April 2009 and delivered lectures on:
  - i. Study designs
  - ii. Bias
  - iii. Designing a treatment study (clinical trial)
  - iv. Sample size calculation for diagnostic test study and RCT
  - v. Sample size calculation for cohort and case control study
62. Conducted workshop on “Analysis and Interpretation of Data” at the Clinical Epidemiology Unit on 19th - 20th September 2009 and delivered lectures on:
  - i. Introduction & Data entry
  - ii. Basic principles, Data types/Scales
  - iii. Analysis of RCT/Cohort
  - iv. Analysis of a diagnostic test study
63. Conducted workshop on “Designing Clinical Research” at the Clinical Epidemiology Unit on 23<sup>rd</sup> - 24<sup>th</sup> January 2010 and delivered lectures on:
  - i. Study designs and Hypothesis formulation
  - ii. Sample size for diagnostic test study and RCT: Simple formula to keep in mind.
64. Conducted workshop on “Evidence Based Medicine” at the Clinical Epidemiology Unit on 16<sup>th</sup> - 17<sup>th</sup> March 2010 and delivered lectures on:
  - i. EBM, What, Why and How?
  - ii. Critical appraisal of a meta-analysis paper



iii. Group work presentation on meta-analysis paper, QA, Discussion

65. Conducted a Workshop on “*Evidence Based Care for Stroke*” at AIIMS, New Delhi on 12<sup>th</sup> March 2010.

**2009**

66. Invited to deliver a talk on “Management of intracerebral hemorrhage” in the CME on Stroke: Recent advances in Medical Management and Rehabilitation held at Christian Medical College, Ludhiana, 3<sup>rd</sup> April 2009.
67. Invited to deliver an Oration in the name of “Endowment lecture in Neurosciences” and a talk on “Stem Cell Therapy” at CME and Oration of Andhra Medical College, Vishakhapatnam, 29-30 August 2009.
68. Invited to deliver a talk on “Management of Stroke – Recent Concepts” in the Medicine Update – 2009 at Maulana Azad Medical College, New Delhi on 23<sup>rd</sup> December 2009.
69. Invited to deliver a talk on “Acute Ischemic stroke – controversies and innovations in Thrombolysis”. Annual Conference of Delhi Neurological Association, AIIMS, New Delhi, 7-8 February 2009.
70. Invited to deliver a lecture on “Thrombolysis in Stroke: Indian Perspective”. Annual Conference of APICON 2009, NOIDA, U.P., 29<sup>th</sup> January 2009.

**2008**

71. Invited to deliver a talk on “Association of Socioeconomic Status with In-hospital Mortality and disability after Stroke: A retrospective hospital-based Cohort Study”. Annual Conference of Indian Academy of Neurology, New Delhi, 22-25 October 2008.

**2007**

72. Lecture on “Evidence Based Medicine” M.S. Ramaiah Medical College, Bangalore 3<sup>rd</sup> January 2007.
73. Lecture on “Evidence Based Medicine”, Kasturba Medical College, Manipal, 24 January 2007.

**2006**

74. NAED limitations based on evidence and cost for developing countries. Current Trends in Epilepsy: An International Symposium, New Delhi, 3-5 November 2006.
75. Lecture on “Stem Cell” in Neuro CME -2006 organized by Neuroscience Association of Kanpur at G.S.V.M. Medical College, Kanpur, 15 October 2006
76. Evidence based interventions for acute stroke, Ganga Ram Hospital, New Delhi, 22 September 2006.
77. Mid Term CME Programme. Lecture entitled "Evidence based neurology", organized by the Indian Subsection of 'Tropical Neurology' at Guwahati, 13-14 May 2006.

78. Delivered a talk on "How to start a clinical trial involving stem cell therapy" in the UPNEUROCON held at Fortis Hospital on 26<sup>th</sup> February 2006.
79. Delivered a talk on "Primary Prevention of Stroke" in the symposium on "Prevention and long term management of chronic diseases" held on 18<sup>th</sup> February 2006 at AIIMS, New Delhi.
80. Delivered a Keynote Address on "Evidence Based Medicine" in the 61<sup>st</sup> Annual Conference of the Association of Physicians of India (APICON) 2006 held at Patna from 30<sup>th</sup> January - 2<sup>nd</sup> February 2006.

## **2005**

81. Delivered a Lecture on "Evidence based interventions in acute stroke including stroke units". In: Indo-US Symposium on Cardiovascular Diseases. Organized by Department of Neurology, All India Institute of Medical Sciences, New Delhi from 12-14 December 2005.
82. Conducted First National Conference on Evidence Based Neurosciences and Workshop on Stroke Research Methodology and Critical Appraisal at All India Institute of Medical Sciences, New Delhi from 12-15 November 2005.
83. Participated in the Indo-Danish Workshop on Stem Cell Research organized by the Dept of Biotechnology, Ministry of Science & Technology, Government of India at Bangalore from 21-22 February 2006.
84. Delivered a talk on "Rating Quality of Evidence and Grading Recommendation: Recent Advances" at Clinical Ground Round, All India Institute of Medical Sciences, New Delhi, November 2005.
85. Convenor of a symposium entitled "Pearls & Pitfalls in Clinical Neurology" in the 13<sup>th</sup> Annual Conference of the Indian Academy of Neurology, Jaipur from 23-25 September 2005. Delivered a talk entitled "Pearls & Pitfalls in clinical trial interpretation" in the symposium.
86. Delivered a lecture in a session on "Evidence-Based Health Care" in the XVI Annual INDIACLEN meeting, organized by the Clinical Epidemiology Unit, AIIMS at Mumbai from 10-15 August 2005.
87. Delivered a talk on "Evidence Based Medicine" in the CMET, All India Institute of Medical Sciences, New Delhi, April 2005.
88. Five lectures on "Formulating research question, search strategy, selecting and appraising studies, data entry into Revman, interpretation of forest plot" during the 29<sup>th</sup> Annual Conference of Mumbai Hematology Group meeting, Mumbai 18<sup>th</sup> March 2005.
89. "Single seizure: How to manage?" BAPICON 2005 at Motihari, Bihar from 5<sup>th</sup> – 6<sup>th</sup> March, 2005.
90. "Evidence – Based approaches to management of neuromuscular disorders". International Conferences – Current Trends in Neuromuscular Disorders an international conference organized by the department of Neurology, AIIMS, New Delhi from 5-7<sup>th</sup> March 2005.

91. “Obstructive sleep apnoea and stroke”. International symposium on Sleep Medicine ‘Sleep Medicine- In the 21<sup>st</sup> century’, in association with the World Association of Sleep Medicine, organized by the department of Neurology, AIIMS, New Delhi from 11<sup>th</sup> -12<sup>th</sup> February 2005.

## **2002**

92. Chief Facilitator in the workshop on ‘Evidence-Based Medicine’ held in Indore, India between 16-18 August, 2002
93. Faculty in the ‘Research Methodology and Basic Epidemiology’ workshop held in New Delhi between 24-29 August, 2002.

## **2001**

94. Organised a seminar on ‘Evidence-Based Medicine’ during the Annual Conference of the Neurological Society of India held in Mumbai in December, 2001.

## **2000**

95. Workshop on ‘Health Insurance’ on 18-19<sup>th</sup> March, 2000 at KasturbhaiLalbhai Management Development Centre, Indian Institute of Management, Ahmedabad.
96. Workshop on ‘Quality assurance in health care’ on 8-9<sup>th</sup> February, 2000 at The Orissa Health Systems Development Project, Bhubneswar, Orissa.

## **1999**

97. Invited lecture on “Prognostication in Cerebrovascular Stroke” at Medicine Update, held in Lady Hardinge Medical College, New Delhi on 24<sup>th</sup> April, 1999.
98. Invited as an expert to participate in the Workshop on Health Sector Reforms (Quality Assurance and National Standards) at the India International Centre, New Delhi on 5-6<sup>th</sup> April, 1999.
99. Invited as an expert at the meeting of Ministry of Health, Govt. of India for production of video spots to educate the public about prevention of stroke in NirmanBhawan, New Delhi.
100. Invited as an expert at the meeting of Ministry of Health, Govt. of India for preparing the annual expenditure plan for the year 1998-99 on the budget entitled “National programme for control of cardiovascular diseases and stroke” in New Delhi.
101. Invited lecture on “Diagnosis and treatment of acute ischaemic stroke” in the Annual Conference of Bihar State Branch of Association of Physicians of India, Ranchi, Bihar on 19<sup>th</sup> March, 1999.
102. Workshop on ‘Quality Assurance in Health Care’ in Health Systems Development Project, Mumbai on 17-18<sup>th</sup> April, 1999.
103. Workshop on ‘Quality Assurance’ in Maharashtra Health Systems Development Project on 15-16<sup>th</sup> October 1999 at Nagpur.

104. Workshop on 'Meta-analysis' on 12-15<sup>th</sup> October, 1999 at Christian Medical College, Vellore (Four lectures).
105. Workshop on 'Quality assurance programme' on 4-5<sup>th</sup> November 1999 at Andhra Pradesh Health Systems Development Project on 5<sup>th</sup> November, 1999.
106. Workshop on 'Quality Assurance in Health Care' in Andhra Pradesh Health Systems Development Project on 15<sup>th</sup> October 1999.
107. Workshop on 'Quality Assurance in Health Care' on 29-20<sup>th</sup> May, 1999 at The Punjab Health Systems Corporation, Chandigarh.

### **1998**

108. Invited lecture on "Controversies in treatment of pyogenic and tubercular meningitis" at Neurology Update, held in Apollo Hospital, New Delhi on 1<sup>st</sup> January, 1998.
109. Invited as an expert to attend a Workshop on "Implementation of World Bank assisted State Health Systems Projects in India" in Bangalore between 16-18<sup>th</sup> November, 1998.
110. 'Total quality management and accreditation of hospitals' on 27-28<sup>th</sup> November 1999 at Army Medical Crops Centre and School, Lucknow.
111. Workshop on 'Design and analysis of clinical trials' on 7-9<sup>th</sup> April at Vellore.

### **1997**

112. Invited presentation on 'Measurement issues in educational research' in the Centre of Medical Education and Technology, AIIMS on 11<sup>th</sup> April, 1997.
113. Invited presentation on 'Framing a research question in medical education' in the Centre of Medical Education and Technology, AIIMS on 7<sup>th</sup> March, 1997.
114. Invited lecture on 'Lessons learnt from Meta-analyses of stroke trials' at the Symposium on Recent Advances in Stroke held in Indraprastha Apollo Hospitals, New Delhi on 23<sup>rd</sup> February, 1997.
115. Invited lecture on 'Management of Acute Stroke' and 'Management of Acute Meningitis' in the Training programme for senior medical officers at the Indian Institute of Coal Management, Ranchi on 13<sup>th</sup> December, 1997.
116. Invited lecture on 'The Management of Neurological Emergencies' at the training workshop for the senior doctors at the Indian Institute of Coal Management, Ranchi on 25<sup>th</sup> January, 1997.
117. Invited lecture on 'Current status of thrombolytic therapy, carotid endarterectomy and carotid angioplasty in ischaemic stroke' in the Annual Conference of the Indian Academy of Neurology held in Madras between 25-28 September, 1997.
118. Invited lecture on 'Management of Intracerebral Haemorrhage: Consensus and Controversies' in the Annual Conference of Neurological Society of India held in Jaipur between 11-14 December, 1997.

## **1996**

119. Invited lecture on 'Epidemiology of Stroke in India' at the National Workshop on Cardio-vascular Diseases held in New Delhi between 19-21 November, 1996.
120. Invited presentation on the 'Methodological issues in evaluation of a diagnostic test with no gold standard' at Dept. of Biotechnology, Govt. of India, New Delhi, 1996.
121. Invited lectures on 'Critical appraisal of Medical Literature', 'Management of Epilepsy' and 'Management of Meningitis' at Bokaro General Hospital, Bokaro (Bihar), 1996.

## **1995**

122. 'A methodological appraisal of clinical trials of dexamethasone in acute bacterial meningitis' a paper presented at the IVth INDIACLEN meeting held in Kodaikanal, 1995.

## **1994**

123. Invited lecture on 'Intervention Trials for prevention of Neurological Disorders: Methodological Issues' at the National Workshop on Neuro. epidemiology, NIMHANS, Bangalore, 1994.
124. 'Neuromuscular disorders and thyrotoxicosis'. an invitational lecture delivered at the Advanced Course on Thyrotoxicosis held in AIIMS, New Delhi, 1994.
125. 'Pitfalls in the diagnosis of myasthenia gravis in elderly' in Annual Conference of Associations of Physicians of India, Patna, 1994.
126. 'A study of nervous system involvement in systemic lupuserythematosus': a paper presented at the Annual Conference of the Neurological Society of India, Indore, 1994.

## **1992**

127. 'Practical management of acute meningoencephalitis'. International Medical Conference, Ranchi, India, 1992.
128. 'Newer diagnostic methods used in Tuberculous meningitis' in Rajendra Medical College, Ranchi, 1992.

## **1991**

129. 'Prevalence of certain neurological disorders in a village of Chhotanagpur' in International symposium in neuroepidemiology in India, Bombay, 1991.

## **1990**

130. 'Electrodiagnostic evaluation of diabetic neuropathy' in India-U.S.A. symposium on Endocrinology, Metabolism and Diabetes, New Delhi, 1990.
131. 'Pitfalls in diagnosis of Parkinson's disease' in Symposium on Parkinson's disease, New Delhi, 1990.

132. 'Ambulatory care of neurological patients' in Annual Conference of Academy of Hospital administration, New Delhi, 1990.
133. 'Newer rapid diagnostic methods in tuberculous meningitis: a lecture delivered in CME at the Annual Conference of the Neurological Society of India held at Indore, 1990.
134. 'A study of Neurological manifestations of SLE' in Annual Conference of Neurological Society of India, Indore, 1990.
135. 'Current trends in diagnosis of tuberculous meningitis' in CME programme of Neurological Society of India, Indore, 1990.

### **1989**

136. 'Cost-containment issues in medical specialities' in Annual Conference of Academy of Hospital Administration, 1989.
137. 'Five days versus Ten days of penicillin therapy in meningo-coccal meningitis' in World Congress of Neurology, New Delhi, 1989.
138. 'Pseudoseizures' in Neurology update, G.B. Pant Hospital, New Delhi, 1989.
139. 'Management of acute myelopathies and neuropathies' in Neurology update, AIIMS, New Delhi, 1989.
140. 'A clinical approach to acute CNS, infections' in Medicine update, LNJP Hospital, New Delhi, 1989.
141. 'Acute meningitis and encephalitis' in Neurology update AIIMS, New Delhi, 1989.
142. 'Management of acute stroke' in All India Coal Medical Conference, Ranchi, 1989.
143. 'Neurological aspects of HIV infections' in AIDS workshop, Jaipur, 1989.
144. 'Role of Bedside Medicine in high-tech era' at C.C.L Hospital, Gandhinagar, Ranchi, 1989.
145. 'Cost-effective approach to patient care in hospitals' B.C.C.L. Hospital, Dhanbad, 1989.
146. 'Diagnostic and prognostic of tuberculous meningitis' in Indo-U.S. Meeting on recent advances in Tuberculosis research, Madras, 1989.

### **1988**

147. 'Clinical care of common neurological problems' in C.C.L. Hospital, Gandhinagar, Ranchi, 1988.
148. 'A clinico-pathological discussion of a case of quadriplegia with diabetes' in Indo-U.S. Conference on Diabetes, New Delhi, 1988.
149. 'Neuroimmunomodulation' in the Second neurobiology course for postgraduates in clinical neurosciences, New Delhi, 1988.

150. Immunology of multiple sclerosis' in the Second Neurobiology Course for postgraduates in clinical neurosciences, New Delhi, 1988.

### **1987**

151. 'Immunological aspects of Neurological disorders' in First Neurobiology Course for post-graduates in clinical neurosciences, New Delhi, 1987.

152. 'Drug treatment of epilepsy' in Neurology Update AIIMS, New Delhi, 1987.

153. 'Acute bacterial meningitis in adults' in Neurology update, AIIMS, New Delhi, 1987.

154. 'Epidemiological and clinical profile of patients with meningococcal meningitis' in Annual Conference of Neurological Society of India, Hyderabad, 1987.

155. 'A clinical approach to medical emergencies' in All India Coal Medical Conference, Dhanbad, 1987.

### **1984**

156. 'Evaluation of diagnostic methods in pyrexia of undetermined origin' in Annual Conference of Associations of Physicians of India, Bangalore, 1984.

### **1984**

157. 'Multi-modality evoked potentials in spinocerebellar degenerations' in Annual Conference of Neurological Society of India, Varanasi, 1984.

### **WORKSHOPS/CONFERENCE ORGANIZED**

1. Workshop on "Essentials of Research Methodology" on 4 January, 2006 at AIIMS, New Delhi.

2. Workshop on "Writing A Cochrane Review (Meta-Analysis)" on 18-19 October, 2006 at AIIMS, New Delhi.

3. Workshop on "Fundamentals of Research Methodology" from 15-18 February, 2007 at AIIMS, New Delhi.

4. Workshop on "Data Analysis and Management" from 18-23, February, 2008 at AIIMS, New Delhi.

5. Workshop on "Meta-analysis" from 11-12 August 2008, at the BP Koirala Institute of Health Sciences, Dharan, Nepal.

6. Workshop on "Advanced data analysis" from 8-9 May, 2008 at AIIMS, New Delhi.

7. Workshop on "Clinical Research Methodology" from 25-26 April, 2009 at AIIMS, New Delhi.

8. Workshop on "Analysis and Interpretation of Data" from 19-20 September, 2009 at AIIMS, New Delhi.

9. Workshop on “Designing Clinical Research” from 23-24 January, 2010 at AIIMS, New Delhi.
10. Workshop on “Writing Cochrane Review (Meta-Analysis) Protocol: How to begin?” from on 25 August 2009 at AIIMS, New Delhi.
11. Seminar on “Writing a protocol for Cochrane Review-: All about Hetrogeneity, Random and Fixed effects model and Clinical Interpretation of summary of Analysis” on 12 January 2010 at AIIMS, New Delhi.
12. Workshop on “Designing Clinical Research/Thesis” from 15-16 January 2011 at AIIMS, New Delhi.
13. Workshop on “Evidence Based Medicine” from 26-27 February 2011 at AIIMS, New Delhi.
14. Workshop on “Developing a Cochrane systematic review & Meta – analysis protocol” from 26-27 March, 2011 at AIIMS, New Delhi.
15. Organized Research Methods Seminar on topic “Confidence Interval in Interpretation of Clinical Trials” on 10th April 2012 at Lecture Theatre-1 (LT-1), AIIMS, New Delhi.
16. Organized workshop on “How to Write A Research Grant Proposal” on 31<sup>st</sup> July 2012 at Ramalingaswami Board Room, AIIMS, New Delhi for newly appointed faculty.
17. Organized the “First International Conference for Evidence Based Healthcare (ISEHCON 2012)” at India International Centre, New Delhi from 06 – 08 October 2012.
18. Clinical Grand Round on topic “Role of Systematic Reviews & Meta-analysis in influencing Research & Practice; Our experiences in Neurology” on 12-02-2013 in LT-1, AIIMS, New Delhi.
19. Clinical Grand Round on “Understanding Odds Ratio” on 12.03.2013 in LT-1, AIIMS, New Delhi.
20. Workshop on “GRADE methodology for clinical guidelines” from December 16-18, 2022 at RIMS, Ranchi





## INTERNATIONAL COLLABORATIONS

### Universities / Institutions/Organisations

1. Erasmus MC, The Netherlands
2. Imperial College, London, UK
3. University of Nottingham, UK
4. UK University of Edinburgh (Cochrane Stroke Review Group editor)
5. UK Newcastle General Hospital (Cochrane review)
6. Academic Medical Centre, Amsterdam (Cochrane review)
7. Royal Holloway University of London, UK
8. University of Texas at San Antonio, USA (Nervous system effects of Covid)
9. WHO (Neurology and Covid-19 Forum; TTS guideline, Meningitis guideline)
10. Global Neuro-research Coalition

	<b>Project title</b>	<b>Co-investigators</b>	<b>Organization</b>
1.	A Population Based Prospective Cohort Study to Unravel the Causes of Stroke and Cognitive Decline: A Cross Cultural Perspective [BT/IN/Netherlands/03/KP/2012]	Dr. J. Van Der Steen Dr. Henning Tiemeier Dr. M.A. Ikram	Erasmus MC, The Netherlands
2.	Towards a sustainable resource in stroke genetics from the four corners of India: the 4i study <i>Funded by : UK India Education Research Initiative (UKIERI) of British Council, UK</i>	Dr. Pankaj Sharma	Imperial College, London, UK and Royal Hallway University of London
3.	Genetic basis of ischaemic stroke in an Indian population <i>Funded by : UKIERI of British Council, UK</i>	Dr. Pankaj Sharma	Imperial College, London, UK
4.	ENOS : Efficacy of Nitric Oxide in Stroke Funded by : Medical Research Council, UK	Dr. Philip Bath	Nottingham University, UK

