

SUNIL K NARAYAN, MD, DM, DNB, PhD, FRCP, FEAN, FAAN

Professor (Senior Scale)

Department of Neurology, Jawaharlal Institute of Postgraduate Medical Education and Research (An Institute of National importance under the ministry of Health and Family Welfare, Government of India), Dhanvanthari Nagar, Pondichery-6.

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Date of Birth : 18.1.1961
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Hi index : 20 (Google Sc); 14 (Publon_Clarivate/SCOPUS)
i10 index : 27

Research Impact of my career

- 1) In India, first time proved the efficacy and safety of Thymectomy in Myasthenia Gravis (Narayan SK, Sarada C, Radhakrishnan K, Nair MD, Kartha CC, Neelakandhan KS, Tharakan KJ. Response to thymectomy in South Indian patients with myasthenia gravis. Acta Neurol Scand. 1996 Jul;94(1):63-6. PubMed PMID: 8874596)
- 2) First time in Asia, I showed the neurodevelopmental sequelae of pyogenic meningitis in children (Narayan SK, Philip E, Nair MKC. Neuro developmental sequelae of pyogenic meningitis in children. Neurol India. 1996 Oct-Dec; 44(4):170-176. PubMed PMID: 29542524)



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- 3) Brought to light the association of total plasma homocysteine with brain atrophy rates and cognitive decline in a prospective study for first time in literature (PMID: 21554791 and 21597295)
- 4) Brought to light the differential effect of MTHFR C677T polymorphism on increased risk to ischemic stroke but not to Myocardial infarction in the Tamil (PMID: Neurology April 2013 Supp; Abstract Number: 2278. American Academy of Neurology, San Diego 2013).
- 5) Brought to light the protective effect of MTHFR A1298C polymorphism for all vascular diseases in the Tamil population (PMID: Neurology April 2013 Supp; Abstract Number: 2278. American Academy of Neurology, San Diego 2013).
- 6) Brought to light the high prevalence of Protein C and Protein S deficiency in Tamil population and their potential complex associations with Ischemic stroke (PMID: 33313850)
- 7) Proved the association of total plasma homocysteine with depression in Tamil population (PMID: 24574558)
- 8) Patent: A dual purpose Combo tube for use in comatose and neuromyotized patients (Patent published; Patent filed in India: LLAN: TR-5; KET No.10217 dated 20.12.2017; Number: 201741005334)
- 9) Patent: A polymer based Neural repair conduit provisional patent applied: 'BIODEGRADABLE NERVE CONDUIT AND METHOD' Application No. 202041049056 dated November 10, 2020.

Career Summary

After Neurology training from SCTIMST, Trivandrum, an INI under DST_DBT, in 1994 I worked as AP at SVIMS, Tirupati and Completed a stroke fellowship with Charles Warlow (ECST) and joined JIPMER as associate Professor and Head of Neurology in 2000. Build up the department to state of the-art training centre, with DM Neurology, BSC and MSc Neurotechnology and PhD an stroke PDF course with the most comprehensive Neuroscience laboratories including neuromodulation and neurobiology. Completed my own PhD in stroke genetics and metabolomics through a commonwealth scholarship. Trained 8 PhDs including the 3 ongoing in Neurology, 16 DM, 2 MCh, 14 MD theses; 80 indexed papers with 1001 citations; h-index 20 (GS)/14 (WOS/SCOPUS); i10 index: 27; EM research grants of 135 Lakhs at present.



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Research specialization (Major scientific fields of interest):

Cerebrovascular Diseases, Multiple Sclerosis, Motor Neuron disease and Neurometabolic and neurogenetic diseases

Education Qualification and Titles

Graduation	Year of passing	No. of attempts	University/Institution
MBBS	1983	1	Calicut, Calicut University
DCH	1988	1	Trivandrum, Kerala University
MD	1989	1	Trivandrum, Kerala University
DM (Neurology)	1994	2	SCTIMST (INI)
DNB (Neurology)	1994	1	National Board of Medical Examinations
Postdoctoral Fellowship (Stroke)*	1996*	NA	Edinburgh University, UK
PhD (Interdisciplinary-Neurology and Pharmacology & Split-site)	2013	1	JIPMER (INI); One year of PhD research at Newcastle University, UK
FIAN	2021	1	Indian Academy of Neurology
FRCP (UK)	2012	1	Royal College of Physicians, London
FEAN	2015	1	European Academy of Neurology, Berlin
FAAN	2018	1	American Academy of Neurology

Highlights of Pre-University Education1. **Awards, distinctions, prizes etc. :**(a) **At under-graduate level :**

1. Pre-degree Physics, Chemistry

Calicut University Biology, Maths, Sanskrit

First Rank (1978)

2. Kerala Sastra Sahitya Parishad State Level

Science Fair Quiz

First Prize (1976)

3. Kerala Sastra Sahitya Parishad

Sastra Gathi Quiz School Team Quiz

State First (1974)



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4. Kerala State Secondary School Leaving Certificate (SSLC) **State Fourth Rank (1976)**
 5. **Ministry of Education, India: National Merit Scholarship(1971-1983)**
 6. **Ministry of Education, India): National Residential School Merit Scholarship (1972-1976)**
 7. Kerala State Intermedicos Festival (Alleppey, 1981):
English Essay Writing **Runner-up**
 8. Cochin-Naval Base Sanjeevani Hospital
All India Medical Debate: **Runner up**
- (b) **At post-graduate level** :
1. Kerala State DST research grant for my MD thesis in microbiology and sequelae of pyogenic meningitis in children : 1987
 2. No system of medals, classes, distinction or ranks at MD level at Kerala University in 1989; Best performance at MD amongst 6 MD students who took examinations.
 3. Secretary Postgraduate Medical students Forum, Trivandrum Medical College (1987-88)



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Teaching Experience

Designation	Institute where worked	Period	
		From	To
After DM post graduation	Teaching, Research and Administration in Neurology		
Professor (Senior Grade-INI) Neurology Department	JIPMER, Pondicherry	1.7.2017	Till date
Professor (INI) and Head of Neurology Department	JIPMER, Pondicherry	1.7.2010	30.6.2017
Professor (CHS) and Head of Neurology Department	JIPMER, Pondicherry	1.5.2004	11.7.2009
Addl Professor (INI) and Head of Neurology Department	JIPMER, Pondicherry	12.7.2009	30.6.2010
Associate Professor and Head of Neurology Department	JIPMER, Pondicherry	1.11.2000	30.4.2004
Associate Professor of Neurology	JIPMER, Pondicherry	1.5.2000	31.10.2000
Assistant Professor of Neurology	SVIMS, Tirupati	20.6.1995	24.12.1995
Stroke Research Fellow	University of Edinburgh, UK	1.1.1996	30.10.1996
Stroke Research Fellow and Lecturer	University of Manchester, UK	20.12.1996	5.4.1997
Assistant Professor of Neurology	SVIMS, Tirupati	12.3.1998	30.4.2000
After MD post graduation	Teaching of postgraduates		
PG Senior Resident (Neurology)	SCTIMST, Trivandrum	1.1.1991	15.1.1994
Non-PG Senior Resident (Neurology)	GB Pant Hospital, New Delhi	5.3.1990	27.12.1990
Assistant Professor of Paediatrics	PSG Institute of Medical Sciences, Coimbatore	5.8.1989	28.2.1990
Before Post graduation	MD thesis with a DST grant of STEC Kerala and an indexed publication in Neurology, India		



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Fellowships, Scholarships (Post DM) and Travel grants

1. Visiting Clinical Research Fellowship **Hargobind Medical Foundation Fellowship** USD 5000/month X 6 months: Edinburgh Stroke Research and clinical trial Fellowship 1995-96
2. Travel Grant **XIV World Congress of Neurology Travel Trust** Rs.30,000 : Edinburgh Clinical Trial Fellowship 1995-96
3. **Young investigator Conference Travel Grant** International Stroke Society Travel grant: Rs. 1,25,000 International Stroke Society Meet, Vancouver, Canada 2004
4. **Young investigator Conference Travel Grant UGC**, New Delhi and **INSA**, New Delhi Rs. 1,00,000 World Congree of Neurology, Sydney, Australia 2005
5. **Commonwealt Split-site PhD Doctoral Scholarship** ~GBP 10,000 University of Newcastle March 2007-Aug 2007 and October 2008-March 2009
6. **Conference Travel Grant UGC**, NewDelhi: Rs.1,25,000 AAN 2014, San Diego April 2013
7. NAMASTE India – **Erasmus Mundus Mobility grant** 2015, Departments of Clinical Neurophysiology and Engineering designs, University of Goettingen, Germany



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Fellowship/Membership of National and International**Scientific Societies, Academics etc.**

S.No	Society/Academic body	ID No	Period
1	Fellow of the American Academy of Neurology	120256	Since 2018
2	Fellow of the Royal College of Physicians (FRCP-UK)	rcl166639	since 2012
3	Fellow of European Academy of Neurology (FEAN):	90979	since 2015
4	Fellow of Indian Academy of Neurology	289	Since 2021
5	Neurological Society of India (NSI) :	LM.NNP19	since 1998
6	Indian Academy of Neurology (IAN):	LM 289	since 2002
7	Indian Stroke Association (ISA):	LM ISA 50	since 2004
8	Tamil Nadu Association of Neurologists:	LM 35	since 2012
9	Member (Corresponding active) of American Academy of Neurology (AAN)	120256	since 2002
10	World Stroke Organisation (WSO)	208505	since 2005
11	European Stroke Organisation (ESO)		since 2015
12	World Federation of Neurorehabilitation (WFNR)	6197	Since 2017
13	European Neurological society (ENS)	619227	2012 - 2014
14	American Heart Association/Stroke Council	279086779	2021
15	American Academy of Sciences (AAAS)	41000881	since 2014
16	Neuroscience Society of India	LM	Since 1992
13	Indian Association of Biomedical Scientists	LM	since 1993
14	Indian Society of Health Administrators	LM 2057	since 1995
15	National Academy of Medical Sciences (India)	LM	since 2002
16	American Heart Association-American Stroke Association (AHA-ASA)	279086779	Since 2020
17	International Neuropsychiatric Association	LM	Since 2006



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Extramural and Intramural Grant Details of Dr. Sunil K Narayan

Extramural Grant

1. **Title of the project:** DST-SEED/TIDE: Development and Standardization of Computerized Cognitive Retraining Program for Dementia Patients
Name of the Principle Investigator: Dr. Rangaiah
Funding: Extramural
Agency: DST-SEED/TIDE
Sanctioned Amount: Rs. 45, 21,760
Duration: 2021--2024
Status: Ongoing
2. **Title of the Project:** ICMR RESTORE under INSTRuCT Network
Name of the Principle Investigator: Dr. Sunil K Narayan
Funding: Extramural
Agency: ICMR
Sanctioned Amount: Rs. 2,978,700
Duration: 2020-2022
Status: Ongoing
3. **Title of the Project:** Isolation and characterization of UMSC derived Exosomes and their safety and efficacy in in vitro and in vivo ischemic stroke models.
Name of the Principle Investigator: Dr. Sunil K Narayan
Funding: Extramural
Agency: SERB-CRG and **Award No. CRG/2019/002076**
Sanctioned Amount: Rs.60, 00,000
Duration: 2020-2023
Status: Ongoing
4. **Title of the Project:** Impact of Vedic chant intervention program in Children with autism spectrum disorder.
Name of the Principle Investigator: Dr. Sunil K Narayan
Funding: Extramural
Grant No and Agency: DBT; SAN No.102/IFD/SAN/5064/2018-2019 dated March, 16 2019
Sanctioned Amount: Rs. 22, 00,000
Duration: 2019-2022
Status: Ongoing
5. **Title of the Project:** ICMR sponsored National Stroke Trial Registry INSTRuCT
Name of the Principle Investigator: Dr. Sunil K Narayan
Funding: Extramural
Agency: ICMR
Sanctioned Amount: Rs. 18, 40,000
Duration: 2017-2021
Status: Ongoing
6. **Title of the Project:** ICMR SPRINT under INSTRuCT Network



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Name of the Principle Investigator: Dr. Sunil K Narayan

Funding: Extramural

Agency: ICMR

Sanctioned Amount: Rs. 4, 20,000

Duration: 2017-2021

Status: Ongoing

7. **Title of the Project:** Erasmus Mundus-II; Namaste India
Name of the Principle Investigator: Dr. Sunil K Narayan
Funding: Extramural
Agency: Skills Training' Resident and/Staff Mobility grant GAUG: Georg August University Gottingen and Neuroimmunology unit, Oxford, London
Sanctioned Amount: Rs. 2, 10,000+ Euro 3000
Duration: 2014-2017
Status: Completed
8. **Title of the Project:** Clinical trial to assess the efficacy and safety of TNK-TPA in Acute Ischemic Stroke (CTRI/2009/091/000251)
Name of the Principle Investigator: Dr. Sunil K Narayan (JIPMER and National Steering Committee Member)
Funding: Extramural (National multicentric Trial)
Agency: Sponsored Clinical Trial: Gennova Biopharmaceuticals
Sanctioned Amount: Rs. 15 Lakhs plus investigatory drug
Duration: 2015-2017
Status: Completed
9. **Title of the Project:** Neurobionics 2013 [indo German workshop]
Name of the Principle Investigator: Dr. Sunil K Narayan
Funding: Extramural
Agency: DBT and DWIH/DFG
Sanctioned Amount: Rs. 4, 55,038 and Rs.13, 04, 000
Duration: 2012-2013
Status: Completed
10. **Title of the Project:** Minimum Prevalence and mutations of CADASIL in North-East England
Name of the Principle Investigator: Dr. Sunil K Narayan
Funding: Extramural
Agency: UGC-CFSP split-site doctoral scholarship
Sanctioned Amount: 4200 Pounds
Duration: 2008 (6 months)
Status: Completed



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- 11. Title of the Project:** Homocysteine, Folic acid, B12 levels correlated to cognitive decline and silent brain lesions in the elderly hypertensive.
Name of the Principle Investigator: Dr. Sunil K Narayan
Funding: Extramural
Agency: UGC-CFSP split-site doctoral scholarship
Sanctioned Amount: 4800 Pounds
Duration: 2007 (6 months)
Status: Completed
- 12. Title of the Project:** JIPMER Stroke Outpatient Registry
Name of the Principle Investigator: Dr. Sunil K Narayan
Funding: Extramural
Agency: ICMR, STRC
Sanctioned Amount: Rs. 5000
Duration: 2004-2005
Status: Completed
- 13. Title of the Project:** JIPMER Community based Stroke Registry
Name of the Principle Investigator: Dr. Sunil K Narayan
Funding: Extramural
Agency: ICMR, STRC
Sanctioned Amount: Rs. 5000
Duration: 2004-2005
Status: Completed
- 14. Title of the Project:** JIPMER Acute Stroke Inpatient Registry
Name of the Principle Investigator: Dr. Sunil K Narayan
Funding: Extramural
Agency: ICMR, STRC
Sanctioned Amount: Rs. 5000
Duration: 2003-2004
Status: Completed
- 15. Title of the Project:** Intracranial infections in Children
Name of the Principle Investigator: Dr. Sunil K Narayan
Funding: Extramural
Agency: DST, SERC, Kerala
Sanctioned Amount: Rs.1, 00,000
Duration: 1987-89
Status: Completed
- 16. Title of the Project:** ICMR Center for Advanced Research in Pharmacogenomics
Name of the Co- Investigator: Dr. Sunil K Narayan
Funding: Extramural
Agency: ICMR
Sanctioned Amount: Rs.1, 58, 00,000
Duration: 2007-2012
Status: Completed



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17. Title of the Project: CYP2C9 mutations on Anti-epileptics induced obesity and other complications

Name of the Co- Investigator: Dr. Sunil K Narayan

Funding: Extramural

Agency: ICMR

Sanctioned Amount: Rs. 10, 00,000 and 3 Year SRF Stipend

Duration: 2018-2021

Status: Completed

18. Title of the Project: Role of Heavy Metals in Neurodegenerative diseases

Name of the Co- Investigator: Dr. Sunil K Narayan

Funding: Extramural

Agency: DST, Pondicherry

Sanctioned Amount: Rs. 2, 00,000

Duration: 2001-2003

Status: Completed

19. Title of the Project: Development and Standardization of Computerized Cognitive Retraining Program for Dementia Patients

Name of the Co- Investigator: Dr. Sunil K Narayan, Professor (Senior Scale), Dr. Venugopalan G, Assistant Professor, Department of Geriatric Medicine

Name of the Principal Investigator: Dr. Rangaiah, Professor of Psychology

Funding: Extramural

Agency: SEED/TIDE; DST, Government of India

Sanctioned Amount: Rs. 45, 21,760/-

Duration: 2021-2024

Status: In Progress



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Intramural Grant

- 20. Title of the Project:** Effect of WAB based therapeutic battery with or without prior priming with tDCS in improving language function in aphasic chronic ischemic stroke patients- A Pilot study
Name of the Principle Investigator: Dr. Sunil K Narayan
Funding: Intramural
Agency: JIPMER
Sanctioned Amount: Rs.50, 000
Duration: 2020-2021
Status: Ongoing
- 21. Title of the Project:** Assessment of safety and efficacy of human umbilical cord-mesenchymal stem cell derived exosomes in rodent ischemic stroke model
Name of the Principle Investigator: Dr. Sunil K Narayan
Funding: Intramural
Agency: JIPMER
Sanctioned Amount: Rs.7, 50,000 and Ph.D. Student fellowship funded by CSIR
Duration: 2020-2023
Status: Ongoing
- 22. Title of the Project:** A randomized controlled trial to compare the efficacy of coupled Transcranial stimulation with decoupled Transcranial stimulation and sham stimulation as motor enhancement therapy for upper extremity in chronic ischemic stroke.
Name of the Principle Investigator: Dr. Sunil K Narayan
Funding: Intramural
Agency: JIPMER
Sanctioned Amount: Rs. 5, 25,000
Duration: 2018-2021
Status: Ongoing
- 23. Title of the Project:** Epidemiological, clinical and neurovascular profile of cerebral venous thrombosis and correlation with outcome.
Name of the Principle Investigator:
Funding: Intramural
Agency: JIPMER
Sanctioned Amount: Rs. 21,000
Duration: 2018-2019
Status: Ongoing
- 24. Title of the Project:** Preparation, characterization and evaluation of nerve conduits for peripheral



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nerve repair

Name of the Principle Investigator: Dr. Sunil K Narayan

Funding: Intramural

Agency: 1) CSIR: 13 (8975-A) /2018-Pool, Dated on 18.05.2018 2)JIPMER

Sanctioned Amount: Rs. 1, 55, 637 and Scientist salary funded by CSIR: Rs. 1,50,000 JIPMER IMGrants

Duration: 2018-2019

Status: Ongoing

- 25. Title of the Project:** Spectral EEG MRI brain & MECP2/FMR genetic study in autism spectrum disorder in Tamil Nadu population.

Name of the Principle Investigator: Dr. Sunil K Narayan

Funding: Intramural

Agency: JIPMER

Sanctioned Amount: Rs. 1, 88,000

Duration: 2017-2019

Status: Completed

- 26. Title of the Project:** Randomized double blind placebo controlled trial of sodium Ozagrel and Eदारavone in acute ischemic stroke

Name of the Principle Investigator: Dr. Sunil K Narayan

Funding: Intramural

Agency: JIPMER

Sanctioned Amount: Rs. 4, 00,500

Duration: 2017

Status: Completed

- 27. Title of the Project:** Acute stroke biomarkers in ischemic and hemorrhagic stroke.

Name of the Principle Investigator: Dr. Sunil K Narayan

Funding: Intramural

Agency: JIPMER

Sanctioned Amount: Rs. 82,500

Duration: 2014-2017

Status: Completed

- 28. Title of the Project:** P-NfH as biomarker in the cerebrospinal Fluid in Motor Neuron Disease.

Name of the Principle Investigator: Dr. Sunil K Narayan

Funding: Intramural

Agency: JIPMER

Sanctioned Amount: Rs. 1, 22,000

Duration: 2014-2017

Status: Completed

- 29. Title of the Project:** Determinants of relapses and natural history in Multiple Sclerosis.

Name of the Principle Investigator: Dr. Sunil K Narayan

Funding: Intramural

Agency: JIPMER

Sanctioned Amount: 60,000

Duration: 2011

Status: Completed

- 30. Title of the Project:** Plasma homocysteine, B12 and Folate levels and MTHFR



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mutations in stroke in Tamil population: A case-control study.

Name of the Principle Investigator: Dr. Sunil K Narayan

Funding: Intramural

Agency: JIPMER

Sanctioned Amount: Rs. 6, 00,000

Duration: 2009

Status: Completed

31. Title of the Project: Association of Vitamin D with prognosis of MS and NMO.

Name of the Principle Investigator: Dr. Sunil K Narayan

Funding: Intramural

Agency: JIPMER

Sanctioned Amount: Rs. 60,000

Duration: -

Status: Completed

32. Title of the Project: Plasma Homocysteine levels in depression and schizophrenia.

Name of the Principle Investigator: Dr. Sunil K Narayan

Funding: Intramural

Agency: JIPMER

Sanctioned Amount: Rs. 60,000

Duration: 2007-2009

Status: Completed

Extramural Research grants and Outcome : Tabular form

STATUS	ROLE	FUNDING	TITLE	PERIOD	OUTCOME/PUBLICATIONS
COMPLETED	Dr. Sunil Narayan, co-investigator	Rs.1 Lac, DST, Kerala	Intracranial infections in Children	1987-1989	Narayan SK, Philip E, Nair HKC. Neurodevelopmental



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					Sequelae of Pyogenic Meningitis in Children. Neurology India. 1996; 44:170-176
COMPLETED	Dr.Sunil K Narayan Principal Investigator	Rs. 1 lac DST, Pondicherry	SERC project, Trace elements in Neurodegeneration	2002-2003	PubMed PMID: 16679666
COMPLETED	Dr.Sunil K Narayan Principal Investigator	Rs.5,000 ICMR, STRC	JIPMER Acute Stroke Inpatient Registry	2003-2004	PubMed PMID: 14742924. PubMed PMID: 15626859
COMPLETED	Dr.Sunil K Narayan Principal Investigator	Rs.5,000 ICMR, STRC	JIPMER Stroke Outpatient Registry	2004-2005	PubMed PMID: 23349590; PubMed Central PMCID: PMC3548363.
COMPLETED	Dr.Sunil K Narayan Principal Investigator	Rs.5,000 ICMR, STRC	JIPMER Community based Stroke Registry	2004-2005	Narayan SK. Current status of stroke care and research in India. Neurolinks. 2007; 4(01).



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COMPLETED	Dr.Sunil K Narayan Co-Principal Investigator	Rs.1.58 crores ICMR, New Delhi	ICMR Center for Advanced Research in Pharmacogenomics	2007-2012 (5years)	1.PubMed PMID: 18040121. 2.PubMed PMID: 20390258. 3. PubMed PMID: 21068649. 4.Pubmed PMID: 25112801; 5. PubMed PMID: 22955794
COMPLETED	CFSP split-site scholar	Pounds 800 per month X 6 months	1) Homocysteine, Folic acid,B12 levels correlated to cognitive decline in the elderly hypertensives 2) Homocysteine, Folic acid,B12 levels correlated to silent brain lesions in the elderly hypertensives	March 2007-Aug 2007	PubMed PMID: 21554791; 21597295; 20374668;



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COMPLETED	CFSP split-site scholar	Pounds 700 per month X 6 months	Minimum Prevalence and mutations of CADASIL in North-East England	October 2008 - March 2009	PubMed PMID: 22422895;
COMPLETED	INTRAMURAL RESEARCH	Rs.60,000	Plasma Homocysteine levels in depression and schizophrenia	2007-2009	PubMed PMID:24574558
COMPLETED	Dr.Sunil K Narayan Principle Investigator or INTRAMURAL RESEARCH	Rs.6 lakhs	Plasma homocysteine, B12 and Folate levels and MTHFR mutations in stroke in Tamil population: A case-control study	2009-2012	Abstract Number: 2278. AAN2013; Abstract Neurology 2013.
COMPLETED	GLOBAL placebo controlled RCT; MRC funded	Variable. Per patients recruited; University of Nottingham, UK	(ENOS) Efficacy of Nitric oxide in Stroke	2010-2013	PMID:25465108 PMCID:PMC4343308
ONGOING	JIPMER placebo controlled RCT;	Industry supplies test drug alone; Now Faculty Intramural	EDOZ (Edaravone versus Ozagrel in Ischemic Stroke)	2011-2014	Stopped prematurely since the trial drug availability was affected



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		CTRI registered			
COMPLETED	Dr.Sunil K Narayan Principle Investigator: Dr.Akshaya V	GJ-Straus, JIPMER; Rs.10,000	Determination of normative values for resting and breatholding TCD for Tamil population	2015-2016	Submitted in IJMR
COMPLETED	Dr.Sunil K Narayan Principle Investigator	Intramural Research grant; 60,000	Determinants of relapses and natural history in Multiple Sclerosis	Since 2011-2013	62nd Annual Conference NSI; Bangalore from 12th-15th Dec.2013
COMPLETED	Dr.Sunil K Narayan Principle Investigator- JIPMER and National Steering Committee Member	Sponsored Clinical Trial: Gennova Biopharmaceuticals: ~ Rs. 15 Lakhs plus drug	Clinical trial to assess the efficacy and safety of TNK-TPA in Acute Ischemic Stroke (CTRI/2009/091/000251)	National multicentric Trial	Made in India thrombolytic drug approved for marketing by DCGI; PMID: 29948822



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COMPLETED May 2015	Dr.Sunil K <u>Narayan</u> , PI and Program me coordinat or	Namaste- India, 1 month Mobility and Euro 3000 for researcher' s support	Erasmus Mundus	Skills Training' Staff Mobility grant	Procured equipments and started NIBS rehab programme
COMPLETED 1995-96	Dr.Sunil K <u>Narayan</u> , Clinical Research Fellowshi p	Hargobind Medical Foundation Fellowship USD 5000/mont h X 6 months	Edinburgh Stroke Research	Clinical trial Fellows hip	PMID: 10382694; 11863327; 9707203; 11863327; 9593407 and 9593407
COMPLETED 1995-96	Dr.Sunil K <u>Narayan</u> , Travel Grant	XIV World Congress of Neurology Travel Trust Rs.30,000	Edinburgh Clinical Trial Fellowship		
COMPLETED 2004	Dr.Sunil K <u>Narayan</u> , Conferen ce Travel Grant	Internation al Stroke Society Travel grant: Rs. 1,25,000	International Stroke Society Meet, Vancouver, Canada	Young investig ator Travel grant	A cost- effective strategy for investigations for primary thrombophilias in arterial strokes in the young: 5th World Stroke Congress . Vancouver BC, 23-26th June 2004
2005	ICMR, SRC; and Conferen ce Travel Grant	ICMR, UGC, New Delhi and INSA, New Delhi Rs. 1,00,000	World Congress of Neurology, Sydney, Australia	Young investig ator Travel grant	Journal of Neurological Sciences: WCN 2005, Sydney Abstracts 1): Narayan SK,



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					<p>Karthikeyan VS. Is syncope a risk factor for adult ischemic strokes?</p> <p>Analysis from an outpatient stroke registry in a neurology clinic in a University hospital in South India.;</p> <p>2)Narayan SK, Rajalakshmi R, Sahai A. A cross-sectional,door-to-door epidemiologic al study of the prevalence of stroke in socio-economically and racially varied populations in Pondicherry, a coastal South Indian town.</p>
COMPLETED	Dr. Sunil Narayan as PI; Dr. Nirmala V, Co-PI	INTRAMURAL RESEARCH; Rs.60,000 total	Association of Vitamin D with prognosis of MS and NMO	Biomarker study	NSICON 2012; Conference Abstract; Neurology India Suppl2012
COMPLETED	Dr. Sunil Narayan as PI; Dr. Donna	INTRAMURAL RESEARCH;	Serum biomarkers in acute ischemic and	Biomarker study	ISACON 2013; WSC Stroke Congress 2015;



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	Mathew Co-PI	Rs.1,20,000 total	haemorrhagic strokes		Submitted to J.of Stroke and cerebrovascular diseases
COMPLETED	Dr. Sunil Narayan as PI; Dr. Donna Mathew Co-PI	INTRAMURAL RESEARCH; Rs.1,20,000 total	CSF pNFh in Motor Neuron Disease	Biomarker study	IANCON 2018, Chennai; Submitted to journal Biomarker
IN PROGRESS	Dr.Sunil Narayan Co-Principal Investigator	ICMR Study on Pharmacogenomics of	CYP2C9 mutations on Valproate induced obesity and other complications	National multicentric	Paper submitted: jnnp-2020-326013
IN PROGRESS	Dr.Sunil K Narayan Principle Investigator- JIPMER	ICMR sponsored National Stroke Trial Registry	INSTRUCT	National multicentric Trial	
IN PROGRESS	Dr.Sunil K Narayan Principle Investigator- JIPMER	ICMR sponsored National Stroke Trial Registry	SPRINT	National multicentric Trial	Not yet
IN PROGRESS	Dr. Sunil K Narayan; Principal Investigator	ICMR National Stroke Trial Registry	RESTORE	National Multicentric Trial on Ayurved	Not yet



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	or, JIPMER			ic Treatme nt of Ischemi c Stroke	
IN PROGRESS	Dr. Sunil K Narayan, PI	DBT Societal (SAN No.102/IF D/SAN/50 64/2018- 20)	Study of Vedic Chants Intervention in Autistic Spectral Disorders	ASD	Not yet
IN PROGRESS	Dr. Sunil Narayan	SERB- DST-CRG (CRG/2019 /002076)	Exosomes therapy in vitro and in- vivo stroke models	Stroke Preclinic al Model	1) One Accepted Publication in IJMR 2) Another Accepted AMEM-2020- 0079 3) Third Paper submitted to Annals of Neurology
IN PROGRESS	Dr. Sunil Narayan	CSIR	Peripheral Nerve Injury Model	Nerve Repair	PMID: 30391821; Patent application: 20204104905 6;10.11.2020
IN PROGRESS	Co-PI	SEED/TID E (DST)	Development and Standardizati on of Computerize d Cognitive Retraining Program for	Comput erised Cognitiv e retrainin g	Not yet



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			Dementia Patients		
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Research Grants (Active): JIPMER format

Extramural

- o DST SEED/TIDE: Development and Standardization of Computerized Cognitive Retraining Program for Dementia Patients: 45,21,760, duration 2020-22
- o ICMR RESTORE under INSTRuCT Network: Rs. 2,978,700 from ICMR, duration 2020-2022
- o Isolation and characterization of UMSC derived Exosomes and their safety and efficacy in in vitro and in vivo ischemic stroke models: Rs.60, 00,000 from SERB-CRG, duration 2020-2023
- o Impact of Vedic chant intervention program in Children with autism spectrum disorder Rs. 22, 00,000 from DBT, duration 2019-2022
- o ICMR sponsored National Stroke Trial Registry INSTRuCT: Rs. 18, 40,000 from ICMR, duration 2017-2021
- o ICMR SPRINT under INSTRuCT Network: Rs. 4, 20,000 from ICMR, duration 2017-2021
- o Preparation, characterization and evaluation of nerve conduits for peripheral nerve repair Senior Research Associate (Scientist) salary and contingency grant funded by CSIR: 8,96,340, duration 2018-2019



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- o Animal Models in stroke: CSIR JRF (PhD) Grant: Rs. 4,51,520, duration 2018-2023

Intramural

- o Effect of WAB based therapeutic battery with or without prior priming with tDCS in improving language function in aphasic chronic ischemic stroke patients- A Pilot study: Rs.50, 000, duration 2020-2021
- o A randomized controlled trial to compare the efficacy of coupled Transcranial stimulation with decoupled Transcranial stimulation and sham stimulation as motor enhancement therapy for upper extremity in chronic ischemic stroke: Rs. 5, 25,000, duration 2018-2021
- o Epidemiological, clinical and neurovascular profile of cerebral venous thrombosis and correlation with outcome: Rs. 21,000, duration 2018-2019
- o Preparation, characterization and evaluation of nerve conduits for peripheral nerve repair: Rs. 1, 55, 637, duration 2018-2019
- o Assessment of safety and efficacy of human umbilical cord-mesenchymal stem cell derived exosomes in rodent ischemic stroke model: Rs.2, 50,000, duration 2020-2023.

IN PROGRESS	Dr.Sunil K Narayan Principle Investigator- JIPMER	ICMR sponsored National Stroke Trial	INSTRUCT; SPRINT	National multicentric Trial	INSTRuCT: Protocol, Infrastructure, and Governance. Stroke. 2021 Jun. PMID: 34167324. First paper on protocol: of
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					Second paper being submitted
IN PROGRESS	Dr. Sunil K Narayan; Principal Investigator, JIPMER	ICMR sponsored National Stroke Trial Registry	RESTORE	National Multicentric Trial on Ayurvedic Treatment of Ischemic Stroke	Not yet
IN PROGRESS	Dr. Sunil K Narayan, PI	DBT sponsored	Study of Vedic Chants Intervention in Autistic Spectral Disorders	ASD-Clinical Trial and Biomarker study	Not yet
IN PROGRESS	Dr. Sunil Narayan/Ms. Moitrayee Majundar	SERB (DST) sponsored	Exosomes therapy in in vitro stroke model	Stroke Preclinical Model	A second paper accepted in IJMR
IN PROGRESS	Dr. Sunil Narayan/Ms. Simy Grace (SRF)	CSIR	Exosomes in in-vivo stroke model	Stroke Preclinical Model	Accepted in
IN PROGRESS	Dr. Sunil Narayan/Ms. Umarani (SRF)	DST (CRG)	Neuroprotection in stroke models	Stroke Preclinical Model	Preclinical animal studies in ischemic stroke: Challenges and some solutions. Animal Model Exp Med. 2021 Apr 23;4(2):104-



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					115. PMID: 34179718
IN PROGRESS	Dr. Sunil Narayan/ Dr. Rajeswari/Ms. Yasmin (MSc)	IM Grants	Transcranial Direct current stimulation in Aphasia	Clinical Trial	Not yet
IN PROGRESS	Dr. Sunil Narayan?Ms. Jeshma Jayan (PhD-Intramural)	IM Grants	Non-invasive brain stimulation in upper limb rehabilitation after stroke	Clinical Trial	Systematic review submitted to Neurology India
IN PROGRESS	Dr. Sunil Narayan/Murugesan.A (SRA)	CSIR	Peripheral Nerve Injury Model	Nerve Repair	a) Patent application jointly with IITM submitted to India patent office; No.202041049056; 10.11.2020; b) Outcome of human peripheral nerve repair interventions using conduits: a systematic review. October 2018. Journal of the Neurological Sciences.



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					PMID 30391821
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Publications And Presentations

National Guidelines	Published Indexed			Presented at Conferences including published abstracts
1.Stroke-Indian Academy of Neurology and DGHS, Delhi Member of writing team (First time in India 2019)	Indexed journal papers	Accepted	Indexed Book chapters	
	74	7	1 book and 6 chapters	97 papers + 50 invited faculty lectures)
Total=293	81		6	148

Clarivate analytics (ResearcherID: [H-4848-2013](#))



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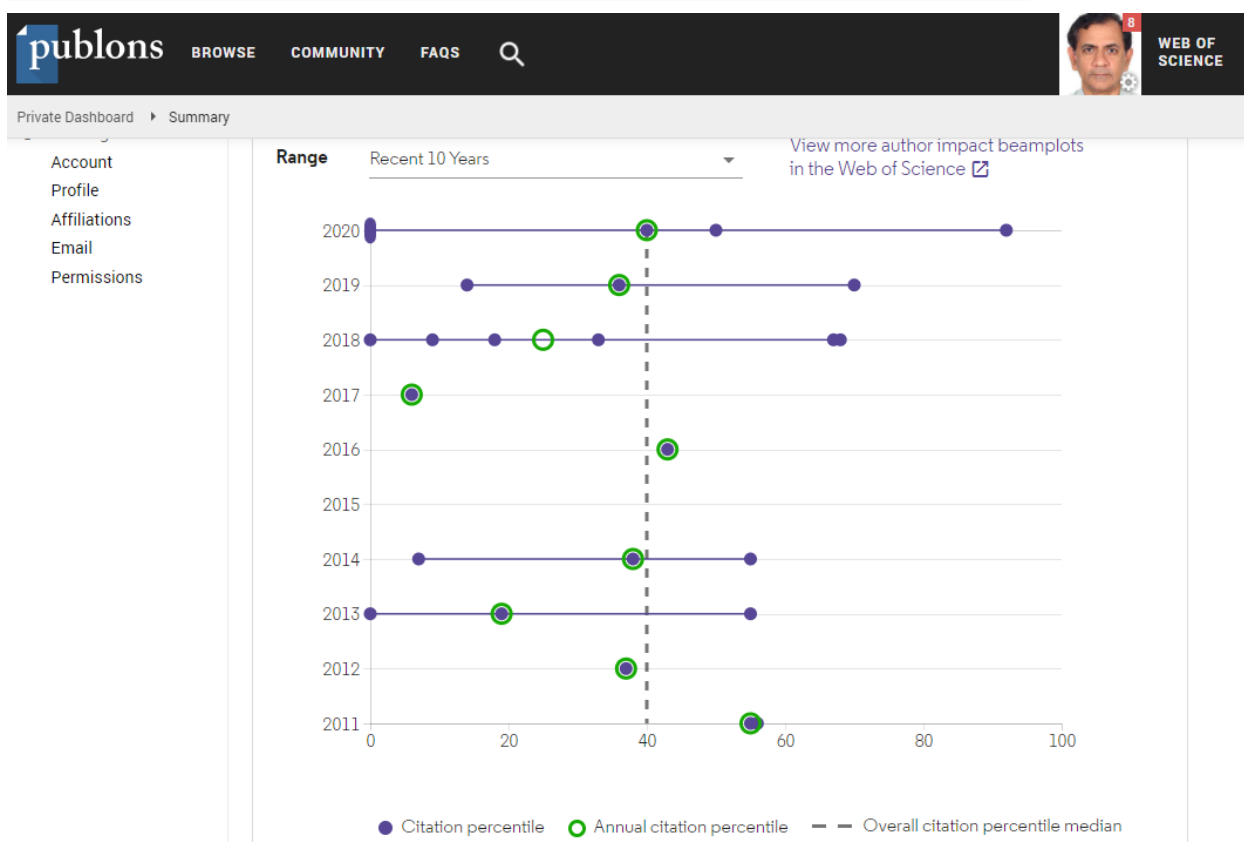
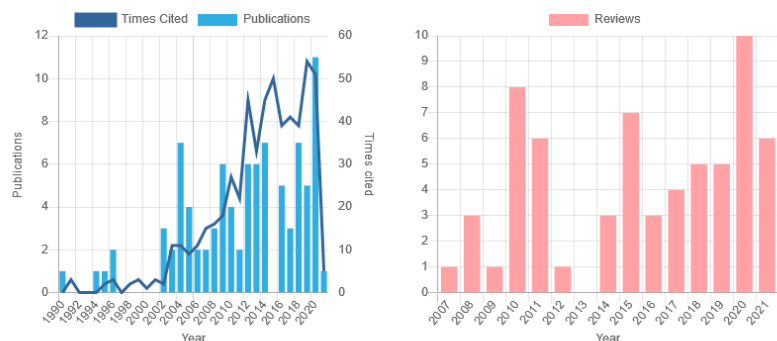
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"Narayan SK"
Faculty - Neurology, JIPMER

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PUBLICATIONS	TOTAL TIMES CITED	H-INDEX	VERIFIED REVIEWS
93	561	14 [®]	63

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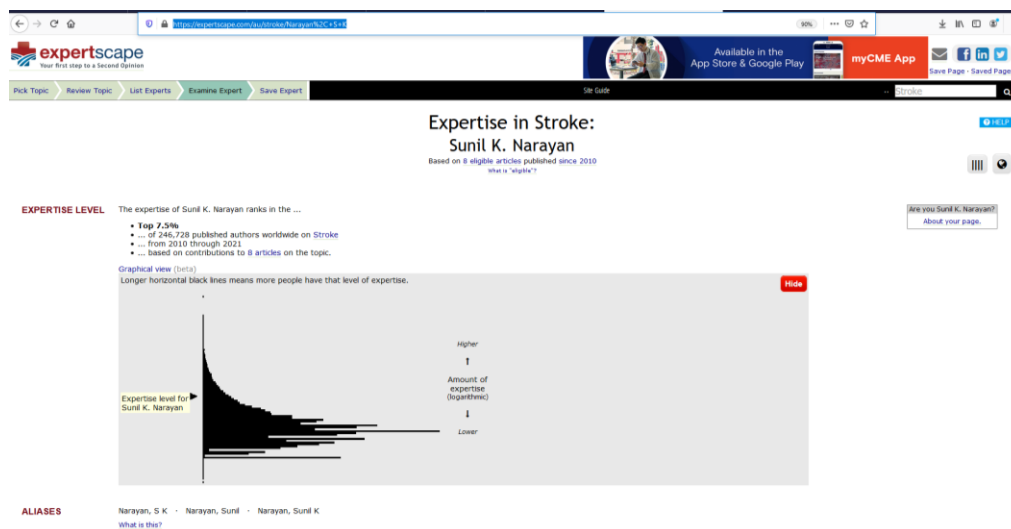
sunil K Narayan's impact over time



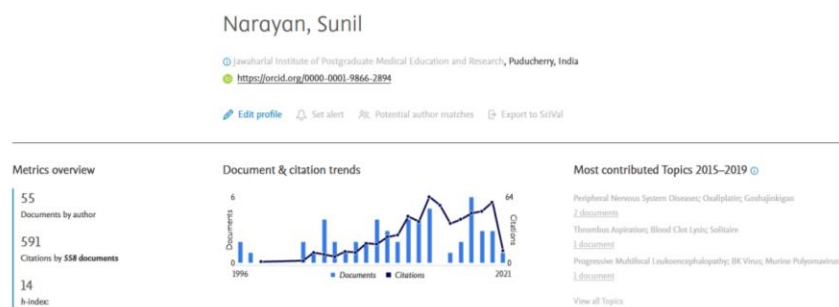
International Recognition – Within Top 7.5 %
<https://expertscape.com/au/stroke/Narayan%2C+S+K>



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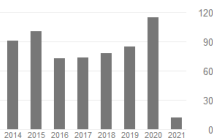
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TITLE	CITED BY	YEAR
European Carotid Surgery Trialists' Collaborative Group. Clinical and radiographic risk factors for operative stroke and death in the European carotid surgery trial R Bond, SK Narayan, PM Rothwell, CP Warlow Eur J Vasc Endovasc Surg 23 (2), 108-16	111 *	2002
Cardiovascular autonomic regulation in subjects with normal blood pressure, high-normal blood pressure and recent-onset hypertension ES Prakash, Madanmohan, KR Sethuraman, SK Narayan Clinical and experimental pharmacology and physiology 32 (5-6), 488-494	77	2005
The minimum prevalence of CADASIL in northeast England SK Narayan, G Gorman, RN Kalaria, GA Ford, PF Chinnery Neurology 78 (13), 1025-1027	71	2012

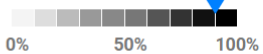
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A complete list of Pubmed indexed Publications :

Already Published

1. Panicker G, Kaliaperumal S, **Narayan S**, Mani M. Glaucoma and optical coherence tomography changes in migraine: A comparative cross-sectional study. Indian J Ophthalmol 2021;69:3546-51
2. Done IP, Aghoram R, **Narayan SK**. Everyday Abilities Scale for India in Screening for Poststroke Dementia Among Young Stroke Survivors. Alzheimer Dis Assoc Disord. 2021 Jul-Sep 01;35(3):275-277. doi: 10.1097/WAD.0000000000000452. PMID: 33973879
3. Mani B, Nair PP, Sekhar A, Kamalanathan S, **Narayan SK**, Kesavan R. Epilepsy Res. 2021 Nov;177:106786. doi: 10.1016/j.eplepsyres.2021.106786. PMID: 34656038
4. Mohan AB, Adithan S, **Narayan S**, Krishnan N, Mathews D. Evaluation of White Matter Tracts Fractional Anisotropy Using Tract-Based Spatial Statistics and Its correlation with Amyotrophic Lateral Sclerosis Functional Rating Scale Score in Patients with Motor Neuron Disease. Indian Journal of Radiology and Imaging. 2021.doi: 10.1055/s-0041-1734337
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6. **Narayan SK**, Grace Cherian S, Babu Phaniti P, Babu Chidambaram S, Rachel Vasanthi AH, Arumugam M. Preclinical animal studies in ischemic stroke:



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Challenges and some solutions. *Animal Model Exp Med*. 2021 Apr 23;4(2):104-115. doi: 10.1002/ame2.12166. eCollection 2021 Jun. PMID: 34179718 Free PMC article. Review.

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10. Das AM, Ramamoorthy L, **Narayan SK**, Wadvekar V, Harichandrakumar KT. Adherence to Antiepileptic Regime: A Cross-sectional Survey. *Neurol India*. 2020 Jul-Aug;68(4):856-860. doi: 10.4103/0028-3886.293468. PMID: 32859828
11. Priya DI, Aghoram R, **Narayan SK**. Neuropsychiatric symptoms among young stroke survivors-frequency, patterns, and associated factors. *Neurol Sci*. 2021 Mar 17. doi: 10.1007/s10072-021-05178-2. PMID: 33733388
12. Ramaswamy G, Premarajan KC, Kar SS, **Narayan SK**, Thekkur P. Prevalence and determinants of sleep disorders in a community in rural southern India. *Natl Med J India*. 2020 May-Jun;33(3):132-136. doi: 10.4103/0970-258X.314002. PMID: 33904415



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23. Pradeep Pankajakshan Nair, Vaibhav Wadwekar , Sunitha Vellathussery Chakkalakkoombil, **Sunil K. Narayan**, Revanth Marusani, Aditya Murgai, Sibi Thirunavukkarasu, Amritha Krishnamoorthy, Harichandrakumar Kottiyen Thazhath. Comparison of proximal and distal corticosteroid injections for carpal tunnel syndrome. Muscle and Nerve; 2020;62(1):89-94. Clinical Trial. Impact factor:2.5; 2019 Journal Citation Reports (Clarivate Analytics): 109/204 (Clinical Neurology)184/272 (Neurosciences)
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68. Sunil K Narayan, Vengamma, B, Subrahmanyam, G & Sudhee, K. Distribution of Atherosclerotic lesions in stroke pattenis: A DSA study from a tertiary referral centre in south India; Abstract book, Annual conference of Neurological society of India 1999, page 45, Abstract No. 070.
69. Sunil K Narayan, Sripathi R, Vengamma B. 99m tc labeled ethylene cystine dimmer (ECD) brain perfusion spect study in neurological practice :Usfulness and practical difficulties – Early experience in SVIMS; Proceedings of the Annual conference of Indian Academy of Neurology 1999.
70. Intra cranial venous sinus thrombosis – A retrospective study; Sunil K. Narayan, Proceedings Annual conference of Indian Academy of Neurology 1999 and Annals of the Indian Academy of Neurology.
71. Sunil K Narayan, Biswajith D, Sundararaman T, Madan Mohan Trakroo and VedaNarayana V and Sethuraman KR,,: An epidemiological and clinoco-electrophysiological study of Guillaine Barre stndrome in Pondichery- A case series report. Abstract book of the proceedings of Annual national conference of the Indian academy of Neurology, Visakhapatnam, October 27-30, 2003



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72. Narayan SK, Shankar SK. Fulminant “tuberculous” immune mediated radiculoencephalomyelitis- A case report. Proceedings of 12th Annual conference of Indian Academy of Neurology. 28-30 October 2004. Page 51. Abstract No. PL-097
73. Cerebro-cranio-cutaneous actinomycosis- “Successful” treatment with Crystalline Penicillin and Co-trimoxazole. A case report. Narayan SK, Jayanthi S, Elangovan S and Thappa DM. . Proceedings of 12th Annual conference of Indian Academy of Neurology. 28-30 October 2004. Page 51. Abstract No. PO-096
74. Narayan SK, Saxby B, Firbank MJ, O’Brien JT, McKeith I, Gray JC, Ford G. Plasma Homocysteine level is independently associated with rates of cognitive decline. Annals of Indian Academy of Neurology. 10 (S2). 48. Abstract No. 184.
75. Sunil K Narayan, Firbank MJ, Saxby BK, O’Brien JT, Gray J, Ford GA. Association of total plasma homocysteine, folate and B12 with cerebral lesions in older hypertensive subjects. Scientific abstracts. Neurocon 2007. P 115-116.
76. Narayan SK, Philip E, T. Devi. A clinical and laboratory study of haemophiliac pedigree in South Kerala. Annual conference of Kerala chapter of India association of Paediatricians, 1988.
77. Narayan SK, Vengamma B, Pal PK. A clinical study of cerebral malaria in Rayalseema District in Andhra Pradesh. Annual Conference of Andhrapradesh chapter of Association of Physicians of India, 1995.
78. Narayan SK, Philip E, Nair MKC. Correlation of clinical features of pyogenic meningitis to laboratory parameters. Annual national conference of the Neuroscience society of India. Hyderabad, December 1992.
79. Narayan SK, Philip E, Nair MKC. Neurodevelopmental sequelae of pyogenic meningitis in children. Annual national conference of Neurological Society of India, Madras, December 1993.
80. Narayan SK, Abhijith Choudhary. Neuropsychiatric manifestations of HIV. Indian Society of Health Administratives: Action Plans for HIV-AIDS control in India, Tirupati. November 1995.



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81. Narayan SK, Madanmohan K, Prasanth K. The role of tilt table test in the evaluation of syncope and presyncope- Annual national conference of the Indian academy of Neurology, Visakhapatnam, October 27-30, 2003.
82. Narayan SK, Biswajith R, Sundarraman R, Madan Mohan Trakroo and Vedanarayana V and Sethuraman KR. An epidemiological and clinoco-electrophysiological study of Guillaine Barre syndrome in Pondichery- A case series report: Annual national conference of the Indian academy of Neurology, Visakhapatnam, October 27-30, 2003..
83. Narayan SK, Dutta TK. A cost-effective strategy for thrombophilia-work up in arterial strokes in the young for developing countries: experience from a tertiary referral centre in south India. Annual national conference of Neurological Society of India, Chandigarh. Dec 12-15, 2003.
84. Narayan SK, Shankar SK. Fulminant “tuberculous” immune mediated radiculomyeloencephalitis- A case report. 12th Annual conference of Indian Academy of Neurology. 28-30 October 2004.
85. Narayan SK, Thappa M, Jayanthi S, Elangovan S. Cerebro-cranio-cutaneous actinomyces- “Successful” treatment with Crystalline Penicillin and Co-trimoxazole. A case report. 12th Annual conference of Indian Academy of Neurology. 28-30 October 2004.
86. Narayan S K, Choudhary A. The Significance of anti double-Stranded-DNA antibodies in Neuro immunological diseases: Experience from a tertiary referral centre in South India: 9th Annual Conference of Indian Academy of Neurology 2001, page 94, Abstract No.110.
87. Narayan Sunil, Sharma Praveenkumar, Sharma Sushma, Murgai Aditya, Vangapandu Nirmala, Dhanapathi Halanaik and Ramesh Ananthakrishnan. SPECT imaging in Ischemic stroke correlated to Clinical subtypes, CT imaging. 19th Annual conference of Indian Academy of Neurology 2011, Abstracted in Annals of Indian Academy of Neurology, Dec 2011. PL 156.



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88. Aditya Murgai, Sushma Sharma, Sunil Narayan, Elangovan S Unique Magnetic resonance imaging features in hypoglycaemic encephalopathy 19th Annual conference of Indian Academy of Neurology 2011, Abstracted in Annals of Indian Academy of Neurology, Dec 2011. Poster 49
89. Sushma Sharma, Sunil Narayan. Springs in the desert: A rare case of Partial Ross Syndrome. 19th Annual conference of Indian Academy of Neurology 2011, Abstracted in Annals of Indian Academy of Neurology, Dec 2011. Poster 19.
90. Narayan Sunil, Sharma Praveenkumar, Dhanapathi Halanaik and Ramesh Ananthakrishnan. Pattern of brain perfusion on SPECT imaging in Ischemic stroke correlated to clinical outcome. Abstract No. A-342-0009-00597. XX World Congress of Neurology 2011. Marrakesh, Morocco
91. Sunil K Narayan, J.Balachander, Subbarao KS, Goutam Roy, Anantha Narayanan PH and Adithan C. MTHFR C677T polymorphism enhances risk for stroke but A1298C variation protects against stroke, Myocardial infarction and peripheral vascular disease.
92. Sunil K Narayan, Nirmala V, Adithan C. Comparison of Multiple Sclerosis and Neuromyelitis Optica in a TAMILIAN population: Gender, Relapse Vitamin D level and Disability profile differ. NSICON 2013: 62nd Annual Conference of Neurological Society of India (NSI) held at Mumbai from 12th-15th Dec.2013
93. Sunil Narayan, Roopeshkumar M, Sibi Thirunavakkarasu, Ramesh Ananthakrishnan and Ajith Nair. JIPMER stroke revascularisation registry” at FINE (weekend stroke course) held at Hyderabad from 22nd – 24th Nov.2013.
94. Invited faculty at the Indian Stroke Association Summer School training programme at Munnar on 15, 16 Aug.2015
95. Sunil Narayan was a faculty at TROPICON 2016 at Jodhpur on 5 & 6 Mar. 2016 and delivered a talk on “Two tales on Viral Encephalitis from South India”.
96. Rajeswari Aghoram and Sunil Narayan. Effect of Yogic techniques on Vasomotor reactivity as measured by TCD in patients with recent Ischemic stroke at TANCON 2014 Yercaud



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97. Sibi T, Narayan SK. Prevalence of carotid artery disease in familiar ischemic stroke patients in a hospital based registry won the **best paper award at TANCON 2014 Yercaud**
98. Donna Mathew, Narayan SK, Rejul VJ. CSF pNFh does not correlate with MND phenotype or ALSFRS scores in Tamil patients. IANCON 2017, Chennai
99. Revanth Reddy, Vaibhav Wadwekar, Narayan SK. Normative data for Nerve conduction parameters in Tamilian population without neuropathic manifestations. JIPMER Research Day 2017
100. Narayan Sunil, Sharma Praveenkumar, Sharma Sushma, Murgai Aditya, Vangapandu Nirmala, Dhanapathi Halanaik and Ramesh Ananthakrishnan. SPECT imaging in Ischemic stroke correlated to Clinical subtypes, CT imaging. 19th Annual conference of Indian Academy of Neurology 2011, Abstracted in Annals of Indian Academy of Neurology, Dec 2011. PL 156.
101. Aditya Murgai, Sushma Sharma, Sunil Narayan, Elangovan S Unique Magnetic resonance imaging features in hypoglycaemic encephalopathy 19th Annual conference of Indian Academy of Neurology 2011, Abstracted in Annals of Indian Academy of Neurology, Dec 2011. Poster 49
102. Sushma Sharma, Sunil Narayan. Springs in the desert: A rare case of Partial Ross Syndrome. 19th Annual conference of Indian Academy of Neurology 2011, Abstracted in Annals of Indian Academy of Neurology, Dec 2011. Poster 19.
103. Narayan Sunil, Sharma Praveenkumar, Dhanapathi Halanaik and Ramesh Ananthakrishnan. Pattern of brain perfusion on SPECT imaging in Ischemic stroke correlated to clinical outcome. Abstract No. A-342-0009-00597. XX World Congress of Neurology 2011. Marrakesh, Moracco
104. Sunil K Narayan, J.Balachander, Subbarao KS, Goutam Roy, Anantha Narayanan PH and Adithan C. MTHFR C677T polymorphism enhances risk for stroke but A1298C variation protects against stroke, Myocardial infarction and peripheral vascular disease.



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- 105.** Sunil K Narayan, Balachander C, Subbarao KS, Goutam Roy Anantha Narayanan PH and Adithan C. Homocysteine and MTHFR polymorphisms are significantly associated with stroke but not myocardial infarction. HEART& STROKE 2013: I attended Heart and Stroke 2013 conference held at New Delhi from 8th – 10th Nov. 2013
- 106.** Sunil K Narayan, Nirmala V, Adithan C. Comparison of Multiple Sclerosis and Neuromyelitis Optica in a Tamilian population: Gender, Relapse Vitamin D level and Disability profile differ. NSICON 2013:62nd Annual Conference of Neurological Society of India (NSI) held at Mumbai from 12th-15th Dec.2013
- 107.** Sunil Narayan, Roopeshkumar M, Sibi Thirunavakkarasu, Ramesh Ananthakrishnan and Ajith Nair. JIPMER stroke revascularisation registry” at FINE (weekend stroke course) held at Hyderabad from 22nd – 24th Nov.2013.
- 108.** Rajeswari Aghoram and Sunil Narayan. Effect of Yogic techniques on Vasomotor reactivity as measured by TCD in patients with recent Ischemic stroke at TANCON 2014 Yercaud

Conferences invited talks and Faculty Lectures:

1. Update in Stem Cell Therapy in stroke: INSC 2021, National conference of Indian Stroke Association; 18th March 2021
2. Update on Neuromodulation in stroke rehabilitation. Neurorehabilitation subsection Indian Academy of Neurology Online conference; November 2020;
3. Neuromodulation in Neurological disorders: Invited talk at IFNR 2019 at Mumbai on March 17th.
4. Faculty at the First National Congress of Indian Stroke Association & Regional Asian Stroke Congress held at Chennai from 5th to 8th January 2006
5. Sunil Narayan. Secondary Prevention of Ischemic Stroke. Indian Stroke Association training programme on Stroke” at Summer school, Munnar on 15, 16 Aug.2015



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6. Delivered a faculty lecture on “Anticoagulation in secondary prevention of stroke” at the Annual meeting of the Indian Stroke Association held at New Delhi on 27 Mar. 2016.
7. Attended TROPICON 2016 at Jodhpur on 5 & 6 Mar. 2016 and delivered a talk on “Two tales on Viral Encephalitis from South India”.
8. Invited lectures on “Epilepsy management” conducted by Dept. of Medicine, MGMSC, Puducherry on 28 Sep. 2015 and on “New antiepileptic drugs” at the World Epilepsy Day CME February 2016 at JIPMER
9. Convened the “23rd Annual conference of IAN – Stroke Subsections meeting” at Agra on 02 & 03 Oct.2015
10. Arbitrator for the best paper session at 19th IANCON 2011
11. Invited faculty at CME on Controversies in Neurogenetics at IANCON 2010 at Trichy
12. Invited speaker for talk on: Neurogenetics an Update at the CME programme at the annual National conference of Neurological Society of India, NIMHANS, Bangalore, 16th to 19th December 2012:
13. Talk on “Statins and stroke” on a one day seminar organized by the department of cardiology at JIPMER on 23.10.2011
14. Lecture on” From patient care to clinical Research” at the Workshop on Clinical Research for Clinical Investigators held on 21.10. 2011 organised by division of clinical pharmacology at JIPMER, Pondicherry
15. Faculty at the TANCON 2011 held at Trichy in November 2011 and gave a talk on “Diabetes and Stroke: an update”
16. Dr. Sunil K Narayan participated as a faculty and delivered a lecture on “Organophosphorus poisoning” in TROPICON 2014 held at Chennai on March 8th-9thMarch 2014.
17. Sunil K Narayan was a faculty and presented a paper on “Biomarkers in ischemic stroke” in IANCON 2013 stroke symposium held at Indore from 24th – 27th Oct.2013.



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18. Sunil Narayan was an invited faculty at the annual national meet of Indian Federation of neurorehabilitation held at Mumbai from 31st March to 2nd April 2017 and gave talks on Non-invasive brain stimulation techniques in stroke rehabilitation.
19. Sunil NarayanSVINCON 2017 the Annual national meet of the Neurosonography society of India, held at Coimbatore from 6th to 8th May 2017 and gave a talk on management of Blood pressure in acute ischemic stroke
20. Invited faculty at INSC 2017, from March 16th to 19th held at Amritsar and was a faculty for a workshop on Transcranial Direct Current Stimulation.
21. Invited faculty at workshop on Transcranial Magnetic stimulation at APPICON 2017 at JIPMER 10th to 14th October 2017
22. Dr. Sunil K Narayan participated as a faculty and delivered a lecture on “Neural stimulation technique in neuro therapeutics” in TANCON 2014 held at Yercaud from 12 Sep.2014 to 14 Sep.2014.
23. Faculty at TROPICON 2009 and presented a paper on “Role of Epigenetics in Tropical Neurological manifestations”
24. Sunil K Narayan gave a faculty lecture at Current Status of Neurobionics in India at TANCON 2013, Ooty and at TANCON 2014 at Yercaud, and on Antocoagulation in stroke prevention at TANCON 2016 at Coimbatore and at TANCON 2017 at Trichy
25. Invited faculty at the Indian Stroke Association Summer School training programme at Munnar on 15, 16 Aug.2015 and lectured on an overview of updated guidelines in ischemic stroke
26. Sunil Narayan delivered a faculty lecture on Anticoagulation in secondary prevention of stroke at ISACON 2016 at New Delhi on 27 Mar. 2016.
27. Faculty lecture at Summer School, ISA 2017 at Mahabalipuram on “Antiplatelets in secondary prevention of Ischemic stroke:
28. Sunil Narayan was a faculty at TROPICON 2016 at Jodhpur on 5 & 6 Mar. 2016 and delivered a talk on “Two tales on Viral Encephalitis from South India”.



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29. Sunil Narayan. Thrombolysis in Acute Ischemic Stroke: Towards better case selection, shortened intervention interval & better compliance. Talk to IMA at Hotel Accord, Puducherry on 30 Oct.2015 in connection with World Stroke Day
30. Invited lecture on Epilepsy management conducted by Dept. of Medicine, MGMSC, Puducherry on 28 Sep. 2015.
31. CME Faculty lecture on “Controversies in Genetic diagnosis” at Neurocon 2011 held at NIMHANS, Bangalore
32. Invited faculty lecture on “Hypoxic ischemic encephalopathy” at TANCON 2017 at Trichy
33. Invited speaker on Symposium on “Stain therapy in different perspectives” at JIPMER on 23rd October 2011
34. Invited speaker at Symposium on stroke at PIMS, Pondicherry on 29th October 2010
35. Delivered lecture on Diabetes and Stroke on World Diabetes Day on 13th November 2010 at JIPMER, Pondicherry
36. Delivered a talk on “Mental Imagery improves stroke-A randomized control trial” at NSICON 2016 at Chennai
37. Delivered a talk on “Tropical Neuropathies” at TROPICON2011 at GB Pant Hospital New Delhi on January 29th to 30th 2011
38. Resource faculty and delivered a lecture at the Workshop on Clinical Research for Clinical investigators, jointly organized by the Department of Clinical Pharmacology, JIPMER and Indian Society for Clinical Research from October 11-22
39. Faculty at IANCON 2011 held at Pune
40. Faculty at 8th National conference of Indian Stroke Association held at CMC, Ludhiana
41. Faculty at Neurobionics 2013 held at JIPMER from 15th to 17th February 2013
42. Speaker at ICMR sponsored National level seminar on “Cognition and Brain issues” held on 11th April 2014 held at Indo-American College, Cheyyar.



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43. Faculty on CME “Controversies in stroke management” held at ISACON2016, New Delhi
44. Faculty at the National symposium on Endovascular Interventions in acute stroke and workshop on TCD and carotid duplex held at Trivandrum from 26th to 27th February 2015
45. Invited faculty at the National conference on Clinical Research and Personalised therapy (NCCP2015) sponsored by ICMR, DST, DBT and NAMS, New Delhi
46. Invited as a faculty at TROPICON 2015 held at AIIMS New Delhi on 11th and 12th April 2015 and gave a talk on “CNS infections in the Tropics with emphasis on Indian Scenario”.
47. Faculty at Annual National Conference of the Society of Neurosonology 2015 held on 2nd and 3rd May 2015 at Bangalore and gave a talk on “Normative data of Transcranial Doppler velocities” in South Indian populations.
48. Lecture on “Role of advanced Neurotechnology in stroke rehabilitation” at the CME on PMR-Disability and Beyond” conducted by the department of Physical Medicine and Rehabilitation held at JIPMER on 15th February 2015
49. Talk on “Stroke in Women” in the Dr. Srinivasan Endowment Lecture held at Pindicherry in 2016
50. Faculty at NSICON 2016 held at Chennai from 15th to 18th December 2016 and gave a talk on Non-invasive Brain stimulation in Neurorehabilitation
51. Faculty at IFNRCON 2016 at Mumbai 31st March to 2nd April 2017 and gave talks on a) ‘Ischemic stroke made easy for Rehabilitation specialists” b) Transcranial Direct Current stimulation: its role in stroke rehabilitation
52. Dr. Narayan was a delegate and convener for stroke subsection at IANCON 2016 held at Kolkotta from 10th to 13th November 2016
53. Faculty at SHINE 2014 held by Institute of Neurology Chennai .on a clinical session on Brainstem localization



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54. EAN Congress 2018, Lisbon, Portugal, June 16-19th 2018. Presented paper on "Role of CSF nFL as a prognostic biomarker in Motor Neuron Disease- Experience from South Indian TAMILIAN patients"
55. IANCON 2018, Annual National Conference of Indian Academy of Neurology, 28th September 2018, Raipur. Convener, Symposium on "Frontiers in Neurogenetics" and Faculty talk on "Basic Principles of Neurogenetics diagnostics".
56. INSC 2019, Annual National conference of Indian Stroke Association, Ahmedabad, 14th March 2019. Workshop on Transcranial Doppler. Faculty Lecture: Normative data for Indian population and comparison with other ethnic groups
57. 10th National Congress of IFNR (ICNR 2019): Faculty for the workshop on "Role of Neuromodulation in Neurorehabilitation"
58. 3rd MMM Genetics Meeting (3MGM2018) –a symposium cum workshop on "Advances in Genetic Diagnosis of Neurological Disorders", The Madras Medical Mission, Chennai on 7-9th September 2018. Invited Talk: A step-wise approach to Neurogenetic diagnosis.
59. SNCOCON 2019, International Conference on Neurochemistry And Neuroparmacology: From Bench To Bedside; Indian Society of Biochemistry and Pharmacology, JSS Academy of Higher Education and Research. 15th March 2019. Invited talk: Homocysteine, Brain and Cognition.
60. DDTM-2019, Conference on "Drug Discovery & Translational Medicine" of Biochemistry and Biotechnology, Department Annamalai University, Chidambaram, 16th March, 2019. Invited talk: Drug discovery: From Bench to Licensing

III. Conference Chair Conference Chair

1. Arbitrator for the best paper award at IANCON 2014, PGI, Chandigarh held from 6th to 9th November 2014
2. Arbitrator for the best paper award at IFNR2017, Mumbai
3. Arbitrator for the Faculty Research oral presentations held in connection with First JIPMER Research day, on 11th September 2015



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4. Arbitrator for PhD oral presentations at third JIPMER 3rd JIPMER Research day
5. Arbitrator for the best paper session at the “28th Kerala Science Congress” at University of Calicut, Kozhikode, Kerala and also as an expert panel of “Meet the Experts” PGSIS programme from 28 - 30 Jan.2016.
6. Arbitrator for the session on “Innovations in Neurological diagnosis” at SHINE 2016, 26th to 28th February 2016
7. Dr. Sunil Narayan chaired a session at the Myocon 2012, 21st to 22nd Jan 2012, Chennai.
8. Dr. Sunil Narayan chaired a session at the ICNR 2012, International Conference on Neurology and Neurorehabilitation. 27th to 29th Jan 2012, Chennai.
9. Dr. Sunil Narayan chaired a session on “Inflammatory markers in stroke” at the annual Neurosciences India Group, Chennai meet held on 10th February 2012.
10. Chaired a session at TS Srinivasan – NIMHANS – Knowledge Conclave 2016 – Cognition and Dementia” at Bangalore on 12 & 13 Feb.2016 and chaired the session on rehabilitation in Dementia by Prof E.S Krishnamoorthy, President, International Neuropsychiatric Association (INA).
11. Chaired a session - “Strike out Stroke 2016” at Chennai on 9 & 10 April 2016.
12. Chaired the “Fine weekend cognitive Neurology course 2016” at Hyderabad on 29, 30 Apr. 2016 – 1 May 2016.
13. Chaired a session on Autism at the Paediatric psychiatry conference held at JIPMER in October 2017
14. Chaired a session on “Stroke” in NeuCon 2014 – From Controversies to Consensus” at Hyderabad on 16th Aug.2014 & 17th Aug.2014.
15. Chaired a session on “Neuromuscular junction Anatomy clinical electrophysiology” in IAN Workshop on Electromyo-Neurography and Autonomic Disorders” at CMC Vellore from 28th Aug.2014 - 30th Aug.2014.
16. Chaired a session in Neuropsychological Rehabilitation – A Multidisciplinary clinical skill workshop” at Chennai from 29th - 31st Aug.2014.



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17. Chaired a session on Association of Microbiomes in Neurological and psychiatric disorders by Prof. Krishnamurthy , INSERM, Paris
18. Chaired sessions on Case conference at SHINE 2012, 2013, 2014 and 2017 at Institute of Neurology, Chennai
19. Chaired a session at IANCON 2011 (Chennai), 2012 (Ahmedabad) and 2013 (Indore).
20. Indo-US International CME held at JIPMER from 1st to 3rd February 2013
21. Tropicon 2013 at Guwahati on 2nd and 3rd February 2013 and 2014 at Chennai on 8th and 9th March 2014
22. ISACON2014 held at Thiruvananthapuram from 14th to 16th March 2014
23. 3rd IAN postgraduate summer course in Neurology 2014, held at NIMHANS, Bangalore from 10th to 13th April 2014.
24. IAN Clinical Neurophysiology workshop on EMG and Autonomic disorders held at CMC Vellore from 28th to 30th August 2014
25. Chaired a session on Recent advances in Dementia, Neuroinflammation, Neuroimaging for Practicing Neurologists at NUCLEUM 2015 held from 16th January 18th January 2014
26. Chaired a session on Workshop on “Book Writing and Meet the Publishers” held at JIPMER on 20th October 2015 by the Division of Research, JIPMER

Academic Workshops and training programmes attended

1. Neurosonology workshop:
 - a) TCD at Neuroupdate, Chennai 2004 from 4th to 5th Jan 2004
 - b) Workshop on “Ultrasound and Vessels”: Hands-on held World Congress of Neurology, Marrakesh 2011
 - c) Preconference Neurosonology workshop of INSC 2015 at Chandigarh March 15th
2. Epilepsy: Symposium and workshop on perspectives in Epilepsy: 7th and 8th October 1990



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3. Sleep Medicine: at Amrutha Institute of Medical Sciences and Research Centre on 5th and 6th October 2002
4. EEG workshop: EEG telemetry and Epilepsy workshop by Colin Binnie held on 13th December 2001 at Mumbai
5. ENMG workshop: Neuroelectrophysiology workshop on 20th September 2001
6. Interventional Neurovascular radiology
 - a) Workshop on 24th and 26th November 1998 at AIIMS, New Delhi
 - b) Preconference workshop 23rd September 2010 at Trichy in connection with IANCON 2010
 - c) Preconference workshop on Interventional Neurology held with INSC 2015 at Chandigarh



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7. Cognitive Neurology:
 - a) Cognition and Dementia: 12th and 13th February 2016 at NIMHANS, Bangalore
 - b) Cognitive Neurology course: 29th April to 1st May 2016
 - c) Dementia and cognition Feb 16-18th 2003, Chennai
8. Neurocritical care workshop: 27th and 28th November 2009
9. Movement disorders
 - a) Parkinson's disease and other movement disorders: International workshop Feb 17th to 19th, 2002, Chennai
 - b) Comprehensive review of movement disorders for the clinical practitioner: 17th to 20th January, 2008; Ooty
10. International workshop on stroke 14th to 17th February 2004, Chennai, India
11. National symposium endorsed by International Stroke Society on Feb 2nd and 3rd 2002
12. Neuro-ophthalmology course organised under the chairmanship of Nancy Newman, David Zee and Valerie Biousse at Chennai on 19th November 2010
13. Paediatric Neurology course conducted by Dr. Sakkubai Naidu, in a connection with Neuroupdate, Chennai
14. Pharmacovigilance awareness programme 2011 held at JIPMER, Pondicherry from February 21-23, 2011
15. Botulinum Toxin workshop:
 - a) 3rd April 1999 at NIMHANS, Bangalore
 - b) 15-16 July, 2005 International SRMC-Bt workshop at RAM MOVE 2005
16. Neuropsychological rehabilitation: Clinical skills workshop held at Chennai under aegis of WFNR/IFNR and Neurokrish from 29th to August 2014
17. Neuroepidemiology Symposium: November 22nd and 23rd 1991 at Bombay Hospital, Mumbai



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18. Workshop on Sample Size Calculation in Research held at PPFI, New Delhi in 2015
19. Medical Statistics workshops: Preconference workshop of Indian Society of Medical Statistics from 19th to 23rd January 2005
20. Evidence Based Medicine Toolkit training workshop jointly organised by American Academy of Neurology and Sriramachandra University, Porur
21. Clinical Trials workshop: Edinburgh Clinical Trial course 31.1.1996 to 2.2.1996
22. Cochrane Systematic Review protocol development, 13th to 17th February 2012 held by South Asian Cochrane Network Centre, at CMC, Vellore.
23. Grant writing workshop: 2nd Joint Leadership Indo-US VAP: RePORT INITIATIVE India Grantmanship Seminar 8th to 10th May 2014 held at JIPMER
24. Scientific Writing workshop: Workshop on “Art of Scientific Writing” on 11th and 12th July 2016 held at JIPMER
25. Book Writing and Publishing: Resource person and participant at the workshop on same organised by JIPMER Research Division held on 20th October 2016
26. Critical thinking workshop: Critical thinking in Medical Research at workshop held on 12th September 2015 on occasion of 1st JIPMER Research Day celebration, 30th November 2015 and on
27. Medical innovations and Intellectual Property Rights workshop: 10th September 2016
28. fMRI and MEG workshop: NIMHANS, Bangalore, 2014
29. Laboratory Medicine-Clinical Practice, JIPMER: 6th August 1995
30. Biosafety in DNA research workshop, JIPMER: 21st August 2014
31. Basic and applied Bioinformatics for clinical genomics workshop: at CIDRF, Puducherry 14th October 2016
32. Stem Cell therapy: SRMCRI, Porur, Chennai on 6th January 2006



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33. Medical Education workshop: 72nd National Teacher Training Centre for Health Professionals held at JIPMER from 16th to 21st February 2015
34. JIPMER Quality Council Accreditation workshop 2015 on 14th and 15th November 2015
35. National Medical College Network programme of Ministry of Health and Family Welfare, Government of India held at JIPMER on 16th August 2013
36. Course on Advocacy- Leadership at WCN 2012 at Marrakesh
37. Action plans for HIV and AIDS control in India under aegis of ISHA held at SVIMS, Tirupati from Nov 20th to 24th 1995
38. American Academy of Neurology:
- a) 54th Annual conference, Denver, Colorado, April 13th 20th 2002
 - b) 64th Annual conference at San Diego, 2013
 - c) 69th Annual conference at Boston, California, 2017
39. World Congress of Neurology:
- a) New Delhi 1994
 - b) Sydney, Australia 2004
 - c) Marrakesh, Morocco from November 12-17, 2011
40. World Stroke Congress:
- a) Hyderabad, India 2000
 - b) Vancouver, Canada 2005
 - c) Istanbul, Turkey 2014
 - d) Hyderabad, India 2016



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INTERNATIONAL TRAINING EXPOSURES

Lectures, Courses and Seminars attended in the UK during fellowships

A.High Value skill Courses attended:

- a) 2nd Edinburgh Clinical Trials Course- Jan.1996.
- b) Elementary data analysis course - Summertime Course 1996. University of Edinburgh, Department of Statistics and Epidemiology.
- c) Staff Development course. University of Manchester. 1997.
- d) Advanced Computer software training for research students in Access, SPSS and World Wide Web- Manchester Computing Centre. 1997 March- April.
- e) Clinical Research Facility Courses, Royal Victoria Infirmary:
 - 1. Setting up investigator site. Jane Barnes and Debbie Carrick-Sen. 25.5.07:
 - 2. Critical Appraisal, Elaine McCol. 15.6.07:
 - 3. Systematic Review. Katherine Deans, Senior Lecturer, Northumbria University. 29.6.07
 - 4. Data Management, Corrine Hedgely. 13.7.07:
 - 5. Good Clinical Practice: Tanya Symonds.19.7.07:
 - 6. Research Governance: Leonie Walker
 - 7. Setting up investigator site. Jane Barnes and Debbie Carrick-Sen. 25.5.07
 - 8. Critical Appraisal, Elaine McCol12.15.6.07
 - 9. Data Management, Corrine Hedgely. 13.7.07
 - 10. Good Clinical Practice: Tanya Symonds19.7.07:
 - 11. Research Governance: Leonie Walker. 27.7.07



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B. High Value Lectures Attended:

- a) Thick and thin reflections on Science: Institute of human genetics, Centre for Life; 29.3.07
- b) Statistical Bioinformatics and Stochastic systems in Biology. University of Newcastle, Dept of Bioinformatics. 2.4.07
- c) Genetic Models of animals: Centre for Life: Lunch Seminars; 25.4.07
- d) Pregenomics to postgenomics and proteomics: Prof.Gary Black, Northumbria University; 4.5.2007
- e) Newest applications to treatment of mental illness. Prof. Sander Gilman, Emory University, Atlanta:10.5.07
- f) The psychology of the paranormal: Dr. Matthew Smith (Liverpool Hope University); 17.5.07
- g) Aggression as a coping style: a multidimensional approach of underlying mechanisms. JaapKoolhaas (University of Groningen) 23.5.07
- h) Ethics and research of clones and hybrids: Deryck Beyleveld, Department of Law, University of Durham at Centre for Life; 30.5.07:
- i) Ageaction: Changing expectations of Life. Institute of ageing and health. Full day Seminar funded by European Union.22.4.07.
- j) An introduction to fMRI and application to the elderly patient. Dr.Michael Firbank, Institute of ageing and Health, University of Newcastle. 11.5.07.
- k) Toxins, autoantibodies and ion channels. ION Seminar: Professor Angela Vincent (Department of Clinical Neurology, Oxford University. 6.6.2007.
- l) Gerontology research seminar: Hypertension and Cognition: Prof. Gary Ford, Director, Clinical Research Facility and Director, Stroke Research Network, UK.:7.6.2007.
- m) Centre for Life Researc Seminar: Good Links, Bad links, Co-ordinating: Tiago Moreira, Department of Sociology, University of Durham. 13.6.07.
- n) Wolfson Centre Research Seminar: Dementias with Parkinsonism and Lewy body dementia, PietroTiraboschi. 2.7.07.



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C.Short Academic/skills higher Training in the UK, United States of America and Canada and Germany

1. 4 weeks' training in **Video-EE monitoring at Mayo Clinic**, Rochester, with Prof.G.Cascino, Director, Epilepsy Programme, American Academy of Neurology, 2002 April.
2. 4 weeks training at **Neurobiology** division of **University of British Columbia, Vancouver** 2004 with Prof Chen
3. 4 weeks' training in **transcranial Doppler with Prof.Andrei Alexandrov**, Director, Neurosonography at the neurosonology division of **Barrow Institute of Neurology, University of Arizona, Phoenix** June 2006.
4. 10 months training as Stroke Research Fellow, Stroke Unit organisation and in stroke clinical trials at Edinburgh, UK in Jan to October1996 with Prof. Charles Warlow
5. 6 Months training at Clinical Research Facility at Royal Infirmary, Newcastle, UK with Prof. Gary Ford, Currently stroke coordinator at Oxford University,UK
6. 6 Months training at Mitochondrial Research group and Centre for Life and institute of ageing at Newcastle, UK with Prof. Patrick Chinnery, currently Head, Neurology at Cambridge, UK



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**PARTICULARS OF RESEARCH WORK DONE AND RESEARCH
EXPERIENCE**

Neurodevelopmental sequelae of pyogenic meningitis in children	1986-89	Medical College, Trivandrum (DST,Kerala Project)
Thymectomy in Myasthenia gravis	1991-94	SCTIMST, Trivandrum
Clinical & EEG study of complex partial seizures-postdoctoral fellowship	1994-95	SCTIMST, Trivandrum
a)Lothian Stroke registry b)European Carotid Surgery Trial-Role of LVH as Independent risk factor in medically and surgically treated ischemic stroke patients c)Oxfordshire community Stroke Project: Is routine VDRL test cost-effective in ischemic stroke patients?	1996	Western General Hospital, Edinburgh (Visiting Stroke Research Fellow)
Urgent Carotid Surgery in Acute Stroke	1997	University Hospitals of South Manchester (Stroke Research Fellow)
Thrombophilia in young stroke patients	1995-2000	Sree Venkateswara Institute of Medical Sciences, Tirupati
1.Role of Heavy Metals in Neurodegenerative diseases (DST,Pondi)	2001-2002	Jawaharlal Institute of Postgraduate Medical Education & Research, Pondichery-6
Homocysteine,Folic acid,B12 levels correlated to cognitive decline in the elderly hypertensives	March 2007-Oct 2007	Split-site doctoral scholarship, CFSP, University of Newcastle: Dr. Sunil <u>Narayan</u> , supervised by Prof Gary Ford, Newcastle University
Homocysteine, Folic acid,B12 levels correlated to	March 2007-Oct 2007	Split-site doctoral scholarship, CFSP,



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silent brain lesions in the elderly hypertensives		University of Newcastle: Dr. Sunil <u>Narayan</u> , supervised by Prof Gary Ford, Newcastle University
Community prevalence of CADASIL, a monogenic stroke disorder in North-East England	October 2008-March 2009	Split-site doctoral scholarship, CFSP, University of Newcastle: Dr. Sunil <u>Narayan</u> , supervised by Patrick Chinnery, Newcastle University
Association of Plasma Homocysteine and MTHFR polymorphisms with ischemic stroke in Tamil population	Jan 2010-March 2013	PhD Doctoral work of Dr, Sunil <u>Narayan</u> , supervised by Prof. C. Adithan
Association of Plasma Homocysteine with Depression	Jan 2010-March 2013	PhD Doctoral work of Dr, Sunil <u>Narayan</u> , supervised by Prof. C. Adithan
Association of prothrombotic factors with ischemic heart disease	Jan 2010-March 2013	PhD Doctoral work of Dr, Sunil <u>Narayan</u> , supervised by Prof. C. Adithan
ENOS International trial	Jan 2011-March 2014	MRC-UK Sponsored Clinical Trial
Tenecteplase in Ischemic stroke	2014-2016	M/s. GennovaPharmac. Sponsored Clinical trial
Edaravone or Sodium Ozagrel for neuroprotection in ischemic stroke trial	2010 onwards	Faculty initiated ischemic stroke Trial
INSTRUCT Indian stroke trial registry	2017 onwards	ICMR sponsored Multicentric national trial
SPRINT Indian stroke prevention trial	do	ICMR sponsored Multicentric national trial
A clinical and genetic study of Hereditary spastic paraplegia in Tamilian population	do	Faculty initiated study
Assessment of the health status and quality of life and their association with clinical and socio-demographic factors among stroke survivors	2017 onwards	Co-investigator, Department of Biometrics



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Assessment of depression and its association with clinical and socio-demographic factors among stroke survivors	2017 onwards	Co-investigator, Department of Biometrics
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STUDENTS' PH.D/DM/MD THESIS TITLES GUIDED :

	DM Neurology				
1	Aditya Murgai	Association of clinical type, ALSRF scores at presentation on natural history and survival in Motor Neuron Disease	2010-2013	Guide, DM Neurology	Conception of idea, design of study, Correction of dissertation
2	Nirmala Vangapandu	Determinants of relapses and natural history in Multiple Sclerosis	2010-2013	Do	Conception of idea, design of study, Correction of thesis and write-up of paper
3	Madhuri Khilari	Utility of TCD and SPECT in differentiation between labyrinthine and central vascular vertigo	2011-2014	Do	Do



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4	Dhanasree Peddawad	Association of Biomarkers with acute stroke	2011-2014	Do	Do
5	Rajeswari A	Effect of Pranava Yoga in TCD parameters of Stroke	2012-2015	Do	Do
6	Sibi T	Prevalence of Carotid artery disease in Tamil stroke patients	2012-2015	Do	Do
7	Ashish Susvikar	Autonomic dysfunction in ischemic stroke	2013-2016	Do	Do
8	Kiran Patil	Retinal artery AV ratio and ophthalmic TCD in Ischemic stroke	2013-2016	Do	Do
9	Donna Mathew	Assessment of p-nfh in the cerebrospinal fluid of patients with Motor Neuron Disease and its correlation with the type and severity based on revised amyotrophic Lateral Sclerosis Functional rating scale (ALSFRS-R) score in South Indian population	2014-2017	Do	Do
10	Upendra Shah	Cerebrovascular Reactivity and Postural alterations in Cerebral blood flow velocity in Ischemic Stroke patients: A case control study	2015-2018	Do	Do
11	Mohan Rao	Spectral EEG, MRI brain imaging and MeCP2 gene mutation in autistic spectral	2016-2019	Do	Do



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		disorders - A descriptive analytical study			
12	Revanth Reddy	Nerve conduction study parameters in individuals without neuropathic signs and symptoms	2014-2017	Co-guide	Do
13	Indira Priya	Neurocognitive profile of young stroke survivors	2017-2020	Do	Assisted in design of study, Correction of proposal; Paper accepted at AAN 2020;
14	Balachander K	Effect of CYP2C19 & GT1A6 genetic polymorphism on Valproic acid induced weight gain in persons living with epilepsy (PWE) from South India	2017-2020	Do	Coguide:Assisted in design of study in genetic aspects, Correction of proposal
15	Atul Goel	Randomised Trial of Zonisamide in Parkinsonism	2019-2022	Do	Coguide:Assisted in design of clinical trial, Correction of proposal
16	Bidhan Mandal	Long Term Vascular, neurocognitive and quality of life outcome in ischemic stroke: A cohort study	2020-2023		Guide: Concept, Design
MCh Neurosurgery					



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1	Ved Mourya	An assessment of the electrophysiologic and metabolic effects of surgical detethering of the spinal cord in patients with tethered cord syndrome – a prospective pilot study	2014-2017	Co-guide, MChNeurosurgery	Assisted in design of study, Correction of proposal and write-up of paper
2	Sreekesh	Effect of Hemispherectomy on a)CBF gauged by CT perfusion b) one month outcome in Ischemic stroke	2020-2023	Do	Co-guide: Concept, Design
PhD					
1	Jeshma Jayan	NIBS in Ischemic stroke rehabilitation	2017-	GuidePhD Neurology	Conception of idea, design of study, Correction of thesis and write-up of paper
2	Moitrayee Majumdar	Exosomes in ischemic stroke- In Vitro	2018-	GuidePhD Neurology	Conception of idea, design of study, Correction of thesis and write-up of paper



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3	Simy Grace	Exosomes in Ischemic stroke	2018-	GuidePhD Neurology	Conception of idea, design of study, Correction of thesis and write-up of paper
4	Piriyatharshini R	A Stratified Analysis of Clinical Manifestations and Different Diagnostic Methods of Neurocysticercosis-suspected Tamilian Population residing in and around Puducherry	2013-	Coguide PhD Microbiology	Clinical evaluation of subjects, Correction of thesis and write-up of paper
5	Sahu	Diagnostic value of immunodiagnosis of Neurocysticercosis on body fluids	2004-2008	Co-guide PhD Microbiology	Clinical evaluation of subjects, Correction of thesis and write-up of paper
6	KavirajUduppa	Autonomic function tests in Syncope	2001-2005	Co-guide PhD Physiology	Conception of idea, design of study, Correction of thesis and write-up of paper
	MD				
1	Prakash	Autonomic function tests in Mild and moderate hypertension	2001-2004	Co-guide MD Physiology	Conception of idea, design of study, Correction of thesis and write-up of paper



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2	Vinod	Cost-effective investigations for thrombophilia in ischemic stroke patients	2001-2004	Co-guide MD Medicine	Design of study, Correction of thesis and write-up of paper
3	PonrajM	Clinical, neuroelectrophysiological study and outcome of intermediate syndrome in organophosphorus poisoning	2011-2014	Co-guide MD Medicine	Design of study, Correction of thesis and write-up of paper
4	Rakhi Biswas	Serum, CSF and Urine antibodies in Neurocysticercosis	2002-2005	Co-guide MD Microbiology	Conception of idea, design of study, Correction of thesis and write-up of paper
5	Biswajith	Clinical and electrophysiological profile of GBS	2002-2005	Co-guide MD Medicine	Conception of idea, design of study, Correction of thesis and write-up of paper
6	Elizabeth Mathew	Profile of epilepsy and antiepileptic drug levels in pregnancy	2002-2008	Co-guide MD OBG	Conception of idea, design of study, Correction of thesis and write-up of paper
7	Sivaprasad P	Corelation of clinical and radiological profile of Primary Parenchymal haemorrhage to outcome	2007-2--9	Co-guide MD Medicine	Conception of idea, design of study, Correction of thesis and



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					write-up of paper
8	Venkatesh	Neurological complications of AIDS	2008-2011	Co-guide MD Medicine	Conception of idea, design of study, Correction of thesis and write-up of paper
9	Senthilkumar	Standardisation of Flash VEP in healthy normal adults aiming at reduction of variability of latencies	2010-2013	Co-guide Physiology	Conception of idea, design of study, Correction of thesis and write-up of paper
10	Priyadarshini R	Effect of CYP3A5 and CYP2Y12 genetic polymorphisms on platelet aggregation in patients on treatment with clopidogrel	2009-2012	Co-guide, Pharmacology MD	Design of study, Correction of thesis and write-up of paper
11	Subraja	Effect of CYP2C19 and MDR1 genetic polymorphisms on antiplatelet effects of clopidogrel in clinical settings	2009-2012	Co-guide, Pharmacology MD	Design of study, Correction of thesis and write-up of paper
12	Sarath Babu	Somatosensory Evoked potentials normative data-age and gender based variations	2010-2013	Coguide, Physiology MD	Conception of idea, design of study, Correction of thesis
13	Preethi, V	RT-PCR Vs. ELISA in Herpes Encephalitis	2009-2011	Co-guide, Microbiology MD	Conception of idea, design of study,



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					Correction of thesis
14	Hariprasad	Polysomnography in sleep disordered breathing	1010-2013	Co-guide, MD Pulmonary Medicine	Conception of idea, design of study, Correction of thesis
15	Amudhabharati	White matter micro integrity in Motor neuron disease patient with diffusion tensor imaging using fractional anisotropy (FA)	2014-2017	Co-guide, MD Radiodiagnosis	Conception of idea, design of study, Correction of thesis and write-up of paper
16	Arshiya	Pre and in-hospital delay and clinico-epidemiological profile in acute ischemic stroke patients presenting to emergency department of a tertiary care hospital in South India.	2016-2019	Co-guide, MD Emergency Medicine	Conception of idea, design of study, Correction of thesis and write-up of paper
17	Susanthi	Glaucoma among adult patients with migraine -a hospital based comparative cross-sectional study.	2017-2020	Co-guide, MD Gynaecology	Conception of idea, design of study, Correction of thesis and write-up of paper
18	Gomathi Ramasamy	Prevalence of sleep disorders among people aged more than 15 years from a rural area, Puducherry, India.	2014-2017	Co-guide, MD P&SM	Design of study, Correction of thesis and write-up of paper
19	HemaBaskarane	Association of atrial fibrillation with ischemic heart disease and stroke	2017-2020	Co-guide. MD General Medicine	Design of study, Correction of thesis and



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					write-up of paper
20	Bharat Jeyaram	Clinico-radiologic Correlations of MRI-detected Cerebral Microbleeds – A descriptive study	2017-2020	Co-guide, MD Radiodiagnosis	Conception of idea, design of study, Correction of thesis and write-up of paper
21	Anand Kishore	Carotid Occlusion	2019-2022	Co-guide MD Radiodiagnosis	Conception of idea, design of study
	MSc				
1	Athira	Effect of short duration cognitive exercise on EEG spectrum in patients with schizophrenia.	2015-2018	Co-guide MSc Physiology	Conception of idea, design of study, Correction of thesis and write-up of paper
2	Ancy	Adherence pattern to anti-epileptic regimen and its determinants among patients attending Neurology OPD	2012-2015	Co-guide, MSc Nursing (Neuro)	Conception of idea, design of study, Correction of thesis and write-up of paper
3	Unnikrishnan	Mental imagery combined with physical practice to enhance hand recovery in stroke patients- A randomized controlled trial (CTRI /2016/05/006930)	2013-2016	Co-guide, MSc Nursing (Neuro)	Conception of idea, design of study, Correction of thesis and write-up of paper
	ICMR-STs				



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1	KaveerNandigam	Feasibility of thrombolysis in acute ischemic Stroke- An EMS based <i>acute stroke registry in JIPMER</i>	2002-3	Guide	Conception of idea, design of study, Correction of thesis and write-up of paper
2	Rajalakshmi. P	A <i>community based</i> epidemiological study of incidence and prevalence of strokes in Pondicherry town – Burden of stroke in three different populations	2003-4	do	Conception of idea, design of study, Correction of thesis and write-up of paper
3	Karthikeyan VS	Adult ischemic strokes Clinical Subtypes and Risk factors. An <i>Outpatient based stroke registry</i>	2003-4	do	Conception of idea, design of study, Correction of thesis and write-up of paper
GJ- STAUS, JIPMER					
1	Akshaya Vasudevan	Transcranial Doppler flow velocity measurements in cerebral vasculature: Reference values at rest and after breath holding in healthy volunteers	2015-2016	Guide	Conception of idea, design of study, Correction of thesis and write-up of paper
2	Sherin John	A cross sectional study of adherence to oral anticoagulants in secondary prevention of ischemic stroke	2017-2018	Co-guide	Assistance in design of study, Correction of proposal

Mentorship of Postdoctorate Scholars

1. Dr. Murugesan Arumugam BPharm MPharm PhD: Research assistant in a project on Peripheral Nerve Injury Repair project funded by Erasmus Mundus (Namaste India)



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2. Dr. Murugesan Arumugam BPharm MPharm PhD: PDF in a project on Peripheral Nerve Injury Repair project funded by CSIR (Postdoctoral fellowship) and DBT

Conferences/CME/Workshops organized

Sl. N o.	Name of CME/Workshop	Dates	Role of the applicant as faculty/organizer
1	International workshop Neurobioinics 2013 (Indo-German DST-DFG funded)	15 th to 17 th February 2013 at SSB Auditorium, JIPMER	Scientific Programme Co-Director (with German counter part from University of Goettingen) and Organising secretary
2	National CME on Frontiers in Neurobiology of stroke	25.10.2013 at Brilliant Convention Centre, Indore	Convener, CME
3	Tropicon 2010 (National Conference of the Tropical Neurology subsection of Indian Academy of Neurology)	27 th -28 th March 2010	Organising Secretary
4	TANCON 2014 (State Conference of Tamilnadu Association of Neurologists)	8 th to 9 th June 2013	Convener, Regional Neurological Services session
5	Workshop series on Capacity building in Research	7 th November 2014	Organised under the aegis of JSS as its president in collaboration with Division of Research, JIPMER



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6	Regional Neuroradiology CME	12.2.2017 at SSB Auditorium, JIPMER	Organising chairman
7	Institute World Stroke Day Stroke CME and Patient counselling	30 th November 2012 at SSB auditorium, JIPMER Also in 2005,2006, 2008, 2009, 2010,2011	Organising Chairman
5	Institute World Epilepsy Day CME	17th November 2012, SSB Auditorium, JIPMER	Convener
6	Multiple Sclerosis CME	25th May 2011, 2012Department Seminar Room, JIPMER	Organising Secretary

Patient Care and laboratory Services developed by me in JIPMER

- a) **OPD/ Clinic New Services: Neurogenetics and neurodegenerative diseases clinic** on Tuesday, **Stroke follow up and Prevention Clinic** on Thursday); 4 each per month in addition to a General Neurology clinic
- b) **IPD New Services:** Started and is in charge of Comprehensive stroke care centre including **Acute Stroke Ward** since September 2009, **Stroke rehabilitation and Stroke Recovery ward** since October 2015
- c) **Laboratory Services Developed:** As HOD from 2000-2016, I developed the following facilities
 - i.Epilepsy: Started aVideo- EEG lab in 2002
 - ii.Neuromuscular diseases: ENMG lab in 2006



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iii. Stroke: TCD lab in 2005, Carotid Duplex lab 2007, Tilt Table lab in 2011, Autonomic function tests lab in 2012, Ambulatory BP monitoring (and inpatient holter monitoring with cardiology)

- d) Cognitive disorders: Computerised Cantab Cognitive laboratory in 2013
- e) Conventional Neurorehabilitation: Motorized robotic Physiotherapy in 2014, Action Research Arm training 2014, Traedmill Gait training with partial weight suspension
- f) Transcranial Direct Current stimulation in 2016 and Transcranial Magnetic stimulation in 2016
- g) Neurobiology: Deep Freezer 2009, Centrifuge: 2009; Phase-contrast Microscope: 2010, ELISA in 2012, Coolant Centrifuge: 2013, Point-of-Care INR: 2015, Point-of-care Neuroimmunology: 2016. Autoclave, Millipore

A major new research laboratory service for neurometabolic and neurodegenerative diseases is to start in Superspecialty Expansion block and major extramural funding applications are in process.

New Hospital Service Initiatives:

I started the **acute stroke intravenous thrombolytic** therapy programme in JIPMER in 2009. In 2010, we started **acute stroke hemicraniectomy decompression programme and carotid revascularization programme**. In 2011, following workshops by international and Indian faculty, we started limited **elective carotid stenting programme**. In 2014, we started **acute stroke intra-arterial thrombolysis and mechanical thrombectomy with the help of cardiology faculty**.

We started diagnostic Carotid duplex studies and transcranial Doppler studies in 2010. **Sonothrombolysis** also started for selected cases from 2012 with the help of Neurotechnology students supervised by consultants and DM senior residents. In 2016, we started **non-invasive brain stimulation registry for neurorehabilitation using tDCS and TMS**.

We also done **intrathecal baclofen pump** for management of spasticity
Ambulatory BP monitoring.



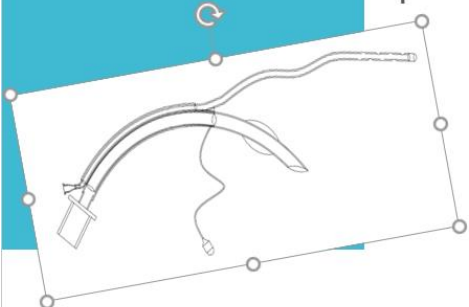
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New Techniques developed

Patent application:

1. A combo-tube developed by me along with student has been submitted for patent- I guided the first MBBS student in JIPMER for a successful patent application
2. Application number No. 202041049056 dated November 10th, 2020

Patents and IPR



1. Combo Tube to be used in any acute emergency and chronically neuro paralysed patient to Indian patent office. (First UG patent of JIPMER)

BY OFFICE
 ACTUAL PROPERTY BUILDING
 3rd Floor, 3rd Floor
 (BANGALORE) 560 001, India
 Phone: 080-25521111
 Fax: 080-25521112
 E-mail: ipr@ipr.gov.in

GOVERNMENT OF INDIA

INTELLECTUAL
 PROPERTY INDIA
 GOVERNMENT OF INDIA

CLASS: 10A
 IPR NO: 10A17

NATIONAL INSTITUTE OF POSTGRADUATE MEDICAL EDUCATION AND RESEARCH (JIPMER)
 KANNIYAR NAGAR, POSTGRADUATE MEDICAL CAMPUS, KANNIYAR, CHENNAI-600 032, INDIA

Sl. No.	Applicant Name	Applicant Address	Applicant Phone	Applicant Email
1.	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan
2.	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan
3.	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan
4.	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan
5.	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan
6.	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan
7.	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan
8.	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan
9.	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan
10.	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan	Dr. S. S. Srinivasan

Title of Invention: TRACHEO-ESOPHAGEAL COMBO TUBE
 Field of Invention: BIO-MEDICAL ENGINEERING
 Publication Date (U/S 11A): 24/08/2018

2. Polymer Nerve Conduit for Nerve Repair: with IITM (Application submitted):

'BIODEGRADABLE NERVE CONDUIT AND METHOD THEREOF'

(2) Application No. 202041049056 dated November 10, 2020.

New Services started

(Creation of disease management programmes for core – Continuum) :

- a) Intravenous and intra-arterial thrombolysis and mechanical thrombectomy
- b) Functional Electrical Stimulation therapy for rehabilitation
- c) Mechanical thrombectomy for acute ischemic stroke
- d) Telestroke counselling facility at NMICU
- e) Automated robotic physiotherapy system



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f) Non-invasive brain stimulation techniques: tDCS and TMS

g) Clinical Neurobiology laboratory facilities: ELISA, Immunoblot and Point-of-care INR

Destination Programs (High excellence) :

1. Acute stroke Thrombectomy
2. Elective carotid stenting programme
3. Automated robotic physiotherapy programme
4. Computerised cognitive rehabilitation programme
5. Transcranial electrical and Transcranial magnetic non-invasive brain stimulation programme

Interdisciplinary clinical treatment that are pace setters for other systems to adopt:

Former two are best helped by cardiology, and interventional neuroradiology groups and 3rd by physical medicine teams while 4th and 5th by neuroengineering, engineering designs and clinical psychology groups.

Development of new care models / care delivery methods

1. Point-of-care TCD and INR at acute stroke care unit
2. Point-of-care Neurorehabilitation at the stroke unit
3. A point-of-care neurobiology lab under design



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NEW COURSES STARTED

1. Started **DM (Neurology)** at JIPMER, Pondicherry 2009
2. Started **BSc Neurotechnology** at JIPMER, Pondicherry 2010
3. Started **MSc Neurotechnology** at JIPMER, Pondicherry 2019
4. Started **PhD Neurology** at JIPMER, Pondicherry in 2016
5. Started **Stroke postdoctoral fellowship** in 2020
6. Initiated **Research postdoctoral fellowship in Neurosciences** with one candidate obtaining CSIR PDF grant to work in JIPMER in 2017



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CLINICAL TRIALS

I. International levels: ENOS(**MRC, UK**)

II. National Levels:

1. INSTRUCT: ICMR Stroke Trials Network
2. SPRINT: ICMR stroke Trial
3. RESTORE: ICMR ayurvedic intervention trial in ischemic stroke

III. Faculty initiated Level:

1. EDOZ (**Intramural**)
2. Vedic Chants in Autistic Spectral Disorders

IV. Student Guide Level:

A. MSc Nursing

a) Mental Imagery in Stroke Rehabilitation

B. MSc Neurotechnology

a) TRANESA: tDCS in Aphasia

b) Continuous TCD along with Tenecteplase thrombolysis for acute ischemic stroke

B. PhD Neurology:

a) tDCS plus TMS vs Sham stimulations in ischemic stroke rehabilitation



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b) Exosomes in ischemic stroke rodent models

V. Sponsored clinical trial (Industry)

a) Tenecteplase in Ischemic stroke

b) Enebilizumab in AChR and MuSk antibody Myasthenia Gravis

MEMORANDUMS OF UNDERSTANDING

- a) Research MoU with university of Nottingham for ENOS trial
- b) MoU with IITM, Chennai for Neurobionics programme and for BSc and MSc Neurotech courses
- c) MoU with University of Goettingen for Erasmus Mundus grants for Neurobionics 2013 and for joint academic programmes and student and staff exchanges like MANASTE India
- d) MoU with IITB, Mumbai for Research on peripheral nerve injury repair
- e) Research MoU with DAE, Kalpakkam for development of a tremor analysis software
- f) MoU with CIPET, Chennai for development of Combo-tube applied for patent



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POSITIONS HELD IN ORGANISATIONS AND SCIENTIFIC COMMITTEES

1. Stroke Subsection of Indian Academy of Neurology: Convener since 2013
2. Indian Stroke Association : Executive committee member since 2015
3. Visiting Professor, George Augustus University of Goettingen 2012
4. Adjunct Faculty IITM, Chennai since 2012
5. Past President, JIPMER Scientific Society 2014-2015
6. Past Vice President, JIPMER Scientific Society: 2012-13
7. Past Executive Member, JIPMER Scientific Society: 2001-2002 and 2004-1005.
8. Past Executive member, JIPMER Officers' Club: 2000-200, 2005-6.
9. Treasurer, JIPMER Officer's Club: 2002-2003.
10. Vice President: Pondicherry Association of Neuroscientists: Since 2012
11. Executive Member, Tamil Nadu Association of Neurologists: Since 2012; President
Elect Tamil Nadu Association of Neurologists: Since 2019-21
12. President, Tamil Nadu Association of Neurologists: 2021-22



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EXTRA-CURRICULAR ACTIVITIES SUCH AS MEDICO-SOCIAL WORK, JOURNALISTIC OR OTHER ACTIVITIES

1. I rendered my services as Chairman (Director Nominee) of the executive committee of Vidyalaya vikasan Samithi, Kendriya Vidyalaya, JIPMER for last 2 years. Conducts executive committee meetings with KV principal and supports him in executing the decisions of the VVS.
2. Working with Auroville, I am supporting a group called ARKA run by Mr. Krishnan Myer in helping then design ARKA, an old age home.
3. At the request of the principal, KV and the teachers of the school, I organized a student screening programme for difficult children in collaboration with Paediatric psychiatry and child guidance clinics of JIPMER
4. Working with the Satya special school for children with disabilities, in Pondicherry, to explore the possibilities of referrals for children with learning disabilities and autistic spectral disorders and has initiated a research proposal for genetic studies and interventions on children with autistic spectral disorders. At present a DM student in Neurology (MD paediatrics) is researching on ASD and another postdoctoral fellow is selected to work in Neurology on a related project.
5. I am working with the Cluny Home for the aged and Anna Thidal, Pondicherry to help support of stroke victims and the demented with no family support
6. Supports the patients of senior service home of Aurobindo Ashram, Desiree
7. Had visited and conducted neurological survey on Don Bosco home for orphan and mentally disabled children close to JIPMER in Pondicherry.



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CONTRIBUTIONS TO ACADEMIA AND GOVERNMENT OUTSIDE JIPMER

1. DST, Govt of India:
 - A. Expert committee member on evaluation of medical research projects proposals for grants
 - a) Pharmacogenomics of antiepileptic medications
 - b) Neurogenetic studies in Indian stroke patients
2. Faculty at brainstorming on seminar on magnetoencephalography, IGCAR, DAE Chennai Aug 2015
3. ICMR-WHO Expert committee Member on
 - a) National Surveillance on Stroke –STEPS 2007
 - b) Low cost therapeutics in Neurological services 2015
4. National Board of Medical Examinations in Neurology:
 - a) Setter of Question papers in DNB Neurology 2014
 - b) Inspection of institutions for accreditation for DNB course in Neurology 2006
5. Medical Council of India inspector for DM Neurology at SRM Institute of Medical sciences, Chennai and Amruta Institute of Medical sciences, Kochi 2015
6. DCGI, New Drug advisory board member (Neuropsychiatry) since 2011 April.
7. UKMRC-Welcome-DBT grant application evaluator 2014 of Neurology, JIPMER to start DM Neurology, PDF, Stroke, BSc Neurotechnology and PhD courses in JIPMER.
8. PhD, DM (Neurology), MCH(Neurosurgery), MD (Psychiatry) Examiner for Dr.MGR, Dr.NTR, Kerala University of Health Sciences, Meenakshi Institute of Medical Sciences and Research, JIPMER Medical Universities
9. PhD thesis evaluator, Monash University, Australia 2015 (ICMR- collaboration); AIIMS, New Delhi, Dr.MGR University, Madras



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CONTRIBUTIONS TO JIPMER

1. As Head of Department of Neurology from 2000 to 2016
2. Past President, JIPMER Scientific Society 2013-2014
3. Chairman, Executive Council, Kendriya Vidyalaya, JIPMER
4. Member, JIPMER Scientific Advisory Committee, JIPMER
5. Member of International Collaborations Committee, JIPMER
6. Member of Committee for MoUs, JIPMER
7. Ex-Member of Research committees: UGRMC, PGRMC, AMC, PhDRMC, JIPMER
8. Member of Superspecialty Board, JIPMER, JIPMER
9. Ex-Member of JIPMER Quality Council
10. Ex-Member Hospital Infection Committee
11. Ex-member, Superspecialty Block committee



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