

CURRICULAM VITAE

Name: Dr. Sylaja PN

Designation: Professor and Head of Neurology, Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST), Thiruvananthapuram, Kerala, India.

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Educational Qualification: Degrees obtained

Degree	Institution	Field	Year
MBBS	Government Medical College, Thiruvananthapuram Kerala	Undergraduate training in Medicine	1988
MD	Government Medical College, Thiruvananthapuram Kerala	Internal Medicine	1993
DM	Sree Chitra Tirunal Institute for Medical Sciences and Technology	Neurology	1998
Fellowship in Stroke	University of Calgary, Alberta, Canada	Stroke	2006
FRCP (Edinburgh)	Royal College of Physicians and Surgeons , UK		2017

PROFESSIONAL AND TEACHING EXPERIENCE AFTER GRADUATION

1. Neurology Residency, SCTIMST, Trivandrum-3 years (January 1996- December 1998)
2. Assistant Professor (Adhoc) of Neurology, SCTIMST-5 years (February 1999- May 2004)
3. Assistant Professor, Department of Neurology, SCTIMST -1 year (May 2004-June 2005)
4. Fellowship in Stroke at University of Calgary, Alberta, Canada (July 2005-Nov 2006)
5. Consultant in Neurology, Ananthapuri Hospital and Research Institute, Thiruvananthapuram (January 2007-May 2010)
6. Additional Professor of Neurology and incharge Comprehensive Stroke care program, SCTIMST (June 2010 – July 2014)
7. Professor of Neurology, SCTIMST (July 2014 - continuing)
8. Professor and Head of Neurology 2021-

PROFESSIONAL AWARDS AND HONORS

- 1.Fellow of the European Stroke Organization from 2018
- 2.Member of Board of Directors, World Stroke organization 2022-2026.
3. Fellow of the Indian Academy of Neurology -2021
- 4.Member of the Research committee member of the George Institute for Public Health-2023
5. Member of the campaign committee of the World Stroke Organization-2023
- 6.Received the second prize for the World Stroke day activities from Indian Stroke Association 2022
- 7.International Scientific committee co chair of Asia Pacific stroke conference 2021(virtual)
8. CME convenor of the Indian Academy of Neurology (2020-2023)
- 9.Mentor for the ICMR capacity building project on GBD 2021
- 10.Member of the Task force group of the Noncommunicable diseases division of ICMR (2018-).
- 11.Member of the GBD Cardiovascular diseases and Stroke working group (2019 - continuing)
- 12.Global Co-Chair,South Asia for India for Mechanical thrombectomy 2020 Global Alliance- from 2019
- 13.Governing body member of ICCONS 2022-2024
- 14.Member of the Brain infection guideline committee of CMC Vellore 2023
- 15.Commissioner representing India in the Lancet Neurology Commission on Stroke in LMICs
- 16.Associate Editor of the Journal “Cerebrovascular diseases” 2021 – 2023
- 17.Associate editor of Journal of Stroke Medicine (2018 --2023)
- 18.Editorial board member Cerebrovascular diseases journal and Cerebrovascular disease extra journal(2023---)
16. Received the IHW council Janani award for stroke care leadership 2021
- 17.Associate Dean for Student and Faculty Affairs of SCTIMST from 2021 to 2024.
18. Steering committee member of the ELAN trial 2021
- 19.Steering committee member of the ACT Global platform 2022
20. Steering committee member of the Angels initiative for improving stroke care globally 2020
21. The Neurology Speciality committee member of the Ayushman Bharat Pradhan Mantri Jan Arogya Yojana insurance scheme of Government of India 2022
- 22.Expert member of the Technical evaluation committee for Mental Disorders, Stroke and Neurological Disorders under the Department of Health Research, Ministry of Health and Family Welfare,New Delhi.- 2016-2018.
- 23.Member of the Educational Committee of the World Stroke Organization – 2017-2019
- 24.Member of the Professional Membership committee of the European Stroke Organization-2018-2022.
25. Member of the World Stroke Organization guideline and quality committee – 2019- 2022
- 26.Past President of the Indian Stroke Association (2018-2019)

27. Expert member of the Academic council of Kerala University of Health Sciences 2017- 2019
28. Honorary Clinical Professor of University of Lancashire (September 2018 to August 2023)
29. Member of the Research area panel on Stroke of the NCDIR, Bengaluru. 2020- 2023
30. Scientific committee member from India in the Global ResQ registry (2021-)
31. Member of the Scientific committee of the World Stroke Congress 2016 and 2022
32. Scientific committee chair for the KAN monsoon summit –International update in Neurology on 2017 and 2019 and 2021
33. Visiting Professor for Manipal Medical College 2017-2018
34. Gave the 5th Veera Raghava Reddy Stroke oration at Nizams Institute of Medical Sciences on 15th July 2017 in Hyderabad.
35. Gave the Presidential Oration at the 13th Annual conference of the Indian Stroke Association at Ahmedabad on March 16th 2019.
36. Received the FRCP(Edinburgh) in December 2016
37. Life time achievement award in teaching from Indian Medical Association , 2015
38. Eappen Samuel memorial award for best research paper in 2015 from Indian Medical Association and Allied Medical specialities ,2015
39. Organizing secretary of the National Conference of the Indian Stroke Association held at Thiruvananthapuram, Kerala 2014
40. Member of the Technical Advisory committee for clinical studies at SCTIMST 2015-18.
41. Member of BOS- Neurosciences of SCTIMST 2018-2020
42. Executive committee member of Indian Stroke Association-2013-2018
43. Executive committee member of Kerala Association of Neurologists-2009-2010 & 2013-15
44. Vice president of the SCTIMST faculty Association in the year 2012-2013.
45. Chairman of the Internal Complaints Committee ,SCTIMST-2016-2019.
46. Secretary of SCTIMST Neurology Alumni Association , 2017-2021
47. Received the Young Scientist award in the year 2008 from Association of Physicians of Trivandrum 2008
48. Postgraduate program coordinator of Neurology -2015 to 2017
49. Postgraduate program in charge of Neurology 2018 to 2022
50. Received the best paper award in Neurology at the 51st Annual Conference of the Neurological Society of India held at Kochi, 14th-17th December 2002.
51. Travel Bursary for Young investigators ,Asian -Oceanic International conference of Epilepsy, Nagano, Japan, 2000.
52. PhD guide at SCTIMST

External examiner of DM and PhD evaluation

1. DM thesis evaluation of PGIMER ,Chandigarh since 2011, Manipal University,AIIMS Delhi
2. Entrance exam qns setting up for NIZAMS Institute and Venkateswara Institute
3. External examiner for the DM in NIZAMS Institute, Hyderabad 2017 and 2018
- 4.External examiner for PhD at Manipal university in 2021
- 5.External examiner for PhD at AIIMS Delhi in 2022.
- 6.External examiner of DM Neurology at NIMHANS ,Bengaluru in 2023
- 7.Expert member of FCP at NIMHANS in 2022 (Twice)

Research and Publications

Citations – 22678

h-index- 41

i10 index - 96

Publications

1. Fischer U,Koga M,Strbian D,Branca M,Abend S,Trelle S,Paccaroni M,Thomalla G,Michel P,Nedelchev K,Bonati LH,Ntaios G,Gattringer T,Sandset EC,Kelly P,Lemmens R,**Sylaja PN** et al.Early versus later anticoagulation for stroke with atrial fibrillation.Neng J Med 2023;388:2411-2421.
2. Pandian JD, Kate M, **Sylaja PN**, Khurana D, Vijaya P, Ray B K, Nambiar V, Aaron S, George T, Mittal G, Sebastian I, Sundarachary NV, Pai A, Gorthi SP, Kumaravelu S, Reddy YM, Narayan S, Borah NC, Das R, Kulkarni GB, Huded V, Mathew T, Padma MV, Bhatia R, Ojha P, Roy J, Abraham S, Webster J, Vaishnav A, Sharma A, Jabeen SA, Pathak A, Bhoi S, Sharma S, Sulena S, Saroja AO, Ramrakhiani N, Madhusudhan BK, Sharma M, Dhaliwal RS, Arora D, Verma SJ, Dasan A, Khatter H, Sarma P, Huilgol R, Renjith V. Secondary Prevention by Structured Semi-Interactive Stroke Prevention Package in INDIA (SPRINT INDIA): a randomized controlled trial. Lancet Glob Health 2023;11:e425-435. doi: 10.1016/S2214-109X(22)00544-7.
3. Paramasivan NK,Sridhar SK,Jinesh V,Sreedharan SE,**Sylaja PN**.Caseous calcification of mitral annulus -a sinister cause of cardioembolic stroke diagnosed by cardiac MRI. Neurol India (in press)
4. Harani P,Krishnamohan Mavuru,Dev Prakash Sharma,Sapna Sreedharan,**PN Sylaja**..Reversible cerebral vasoconstriction syndrome with spontaneous spinal subdural haemorrhage-A perplexing conundrum.J Stroke Med 2023.doi.org/10.1177/25166085231172869

5. Asif KS, Herial NA, Otite FO, Galav S, Desai S, Dmitriy A, Khandelwal P, Potter -vig J, Jhadhav A, Oregate S, Inoa V, Al-mifite F, Szeder V, Kulman T, Urrutia V, Masoud H, Toth G, Limaye K, Gebreyohanns M, Molina c, Leung T, Mansour O, Demchuk A, Martins S, **Sylaja PN**, Miao Z, Yavagal DR. MT Global access for Stroke (MT-GLASS): A mission thrombectomy (MT-2020 Plus) study. *Circulation* 2023 doi: [10.1161/CIRCULATIONAHA.122.063366](https://doi.org/10.1161/CIRCULATIONAHA.122.063366)
6. Manisha KY, Varma RP, **Sylaja PN**, Sreedharan SE. Progressive lacunar stroke behave differently from stable ones even at one year-an observational study. *J Stroke Cerebrovasc Dis* (in press).
7. George J, Sreedharan SE, **PN Sylaja**. Recurrence of cryptogenic (ESUS) stroke in the first year- Predictors and outcome - a South Indian study. *Ann Ind Acad Neurol* (in press)
8. Menon BK, Singh N, **PN Sylaja**. The Promise of TRACE -2. Tracing a path to increasing certainty. *Lancet* 2023;401:618-619. doi: [10.1016/S0140-6736\(22\)02633-2](https://doi.org/10.1016/S0140-6736(22)02633-2).
9. Krishnamoorthy S, Singh G, Sreedharan ES, Damayanthi D, Gopala S, Madhusoodhanan UK, **Sylaja PN**. Soluble ST2 predicts poor functional outcome in patients with acute ischemic stroke. *Cerebrovascular Dis extra* 2023 doi: [10.1159/000529512](https://doi.org/10.1159/000529512)
10. **PN Sylaja**, Jaya PR, Kate MP, Dhasan A, Nambiar V, Narayan S, Renjith V, Arora D, Verma SJ, Sharma M, Khatter H, Sarma S, Pandian JD. Ayurvedic treatment in rehabilitation of ischemic stroke patients in India-a randomized controlled trial. (RESTORE) study protocol. *Cerebrovasc Dis* 2023. doi: [10.1159/000530546](https://doi.org/10.1159/000530546).
11. Owolabi MO, Feigin VL et al. on behalf of the Stroke Collaboration group. The WSO -The Lancet Neurology Commission -Pragmatic solution to reduce global burden of stroke. *Lancet Neurol* (in press)
12. Mead GE, Rabinstein A, Sposato LA, Wu S, Kutlubaev M, Yperzeele L, Wahab K, Urrutia VC, Sharma VK, **PN Sylaja**, Steiner T. Systematic review and synthesis of global stroke guidelines for the World Stroke Organization. *Int J Stroke*. DOI: [10.1177/17474930231156753](https://doi.org/10.1177/17474930231156753)
13. Babu V, **Sylaja PN**, Soman B, Varma RP, Manju MS, Geethu GL, Suresh B. Medication adherence and management of risk factors for secondary prevention of stroke using smart phone based application Protocol for MAMORs randomized controlled trial. *Ann Indian Acad Neurol* 2022;25:1153-1158.
14. Raj R, Kannath SK, **Sylaja PN**, Mathew J. Automated machine learning can predict endovascular mechanical thrombectomy outcome: An application study in acute large vessel ischemic stroke. *Stroke* (submitted)
15. Arora A, Kumar A, Anand AC, Kumar A, Yadav A, Bhagwat A, Mullasari AS, Satwik A, Saraya A, Mehta A, Roy D, Makharia G, Murthy JMK, Roy J, Sawhney JPS, Prasad K, Goenka M, Philip M, Umaiorubahan M, Reddy ND, Sinha N, Mohanan PP, **Sylaja PN**, Ramakrishna P, Kerkar P, Rai P, Kochhar R, Yadav R, Nijhawan S, Sinha SK, Hastak SM, Viswanathan S, Ghoshal UC, Madathipat U, Thakore V, Dhir V, Saraswat VA, Nabi Z. Gastrointestinal Bleeding and Endoscopic

- Procedures in Patients on Antiplatelet and/or Anticoagulant therapy. *Indian J Gastroenterol* 2023. doi: [10.1007/s12664-022-01324-6](https://doi.org/10.1007/s12664-022-01324-6).
16. Krzywicka K et al. Decompressive surgery for cerebral venous thrombosis due to vaccine induced immune thrombotic thrombocytopenia. *Eur J Neurol* 2023 doi: [10.1111/ene.15735](https://doi.org/10.1111/ene.15735)
 17. Ramachandran H, Giridhar S, Sreedharan SE, Jayadevan ER, Kannoth S, Jissa VT, Sukumaran S, **Sylaja PN**. Does thrombus imaging characteristics predict the degree of recanalization after endovascular thrombectomy in acute ischemic stroke. *J Stroke Cerebrovasc Dis* 2022 doi: [10.1016/j.jstrokecerebrovasdis.2022.106621](https://doi.org/10.1016/j.jstrokecerebrovasdis.2022.106621)
 18. Krishnamoorthy S, **Sylaja PN**, Sreedharan SE, Singh G, Damayanthi D, Gopala S, Madhusoodanan UK, Ramachandran H. Biomarkers predict stroke severity and haemorrhagic transformation after acute ischemic stroke. *J Stroke Cerebrovasc Dis* 2022. doi: [10.1016/j.jstrokecerebrovasdis.2022.106875](https://doi.org/10.1016/j.jstrokecerebrovasdis.2022.106875).
 19. Kannath SK, Anzar A, Sulaja JS, Rajan JE, **Sylaja PN**. Semiautomated mapping of occluded arterial segments in acute large vessel stroke from CT angiography. *J Stroke Cerebrovasc Dis* 2022 doi: [10.1016/j.jstrokecerebrovasdis.2022.106763](https://doi.org/10.1016/j.jstrokecerebrovasdis.2022.106763).
 20. Sundaram S, **PN Sylaja**. Primary angiitis of the central nervous system-diagnosis and management. *Ann Indian Acad Neurol* 2022;25:1009-1018.
 21. Reddy S, Parasivam N, Sreedharan SE, Sukumaran S, Jissa VT, **Sylaja PN**. Association of 24 hour blood pressure on functional outcome in patients with acute ischemic stroke post intravenous thrombolysis. *Cerebrovasc Dis* 2022 . doi: [10.1159/000526192](https://doi.org/10.1159/000526192).
 22. Kumar PN, Jineesh , Sreedharan SE, Sylaja PN. Pulmonary Arteriovenous fistula leading to artery of Percheron infarcts. *Stroke* 2022. Clinical image doi: [10.1161/STROKEAHA.122.040893](https://doi.org/10.1161/STROKEAHA.122.040893).
 23. Verma S, Gulati P, Arora D, Khatter H, Dhasan A, Sharma M, **PN Sylaja**, Pandian JD. Protocol for process evaluation of secondary prevention by structured semiinteractive stroke prevention package in India SPRINT study *Int J Qualitative methods* (in press)
 24. Paplikar A, Varghese F, Alladi S, Kaul S, Sharma M, Dhaliwal RS, Agarwal A, Saroja AO, Arshad F, Divyaraj G, Ghosh A, Ellajosyula R, Hooda R, Iyer G K, Sunita J, Kandukuri R, Khan AB, Pauranik A, Mathew R, Menon RN, Nandi R, Narayanan J, Nehra A, Padma M V, Ramakrishnan S, Sarath L, Tripathi M, **Sylaja PN**, Varma RP, Verma M, Vishwanath Y. MoCA in five Indian languages. A brief screening tool to diagnose dementia in a linguistically diverse setting. *J Geriatric Psychiatry and Neurol* 2022 doi: [10.1002/gps.5808](https://doi.org/10.1002/gps.5808).
 25. Jain K, Prasad A, Sreedharan SE, Kannath S, Varma RP, **Sylaja PN** Studying plaque characteristics in extracranial carotid artery disease using CT angiography-risk predictors beyond luminal stenosis. *Clinical Neurol Neurosurg* 2022 doi: [10.1016/j.clineuro.2022.107420](https://doi.org/10.1016/j.clineuro.2022.107420).

26. Paramasivan NK, **Sylaja PN**, Pitchai S, Madathipat U, Sreedharan SE, Sukumaran S, Vinoda Thulaseedharan J. Carotid endarterectomy for symptomatic carotid stenosis. Difference in patient profile in Low Middle income country. *Cerebrovasc Dis Extra* 2022. doi: 10.1159/000528515.
27. Nguyen TN, Qureshi MM, Klein P et al. Global impact of COVID 19 pandemic on cerebral venous thrombosis and mortality -SVIN COVID 19 global COVID stroke registry *J Stroke* 2022;24:256-265.
28. Munchhof A et al. Cerebral venous sinus thrombosis due to vaccine induced immune thrombotic thrombocytopenia in middle income countries *Int J Stroke* 2023 doi: 10.1177/17474930231182901.
29. Nguyen TN et al. Global impact of COVID 19 pandemic on stroke volumes and cerebrovascular events-1 year followup. *Neurology* 2023;10.1212/WNL.0000000000201426.
30. Drumm B et al. Basilar artery occlusion management. An interesting survey of middle and high income countries. *Interv Neuroradiol*. 2022 doi: 10.1177/15910199221143190
31. Fischer U, Trelle S, Branca M, Salanti G, Paciaroni M, Ferrari C, Abend S, Beyeler S, Strbian D, Thomalla G, Ntaios G, Bonati L, Michel P, Nedeltchev K, Gattlinger T, Sandset EC, Kelly P, Lemmens R, Koga M, **PN Sylaja**, Sousa D, Bornstein NM, Gdovinova Z, Seiffge DJ, Gralla J, Horvath T, Dawson J. Early versus Late initiation of direct oral Anticoagulants in post-ischaemic stroke patients with atrial fibrillation (ELAN): an international, multicentre, randomised-controlled, two-arm, assessor-blinded trial. *Eur Stroke J* 2022;7:487-495.
32. Khatter H, Sarma S, Kate MP, **Sylaja PN**, et al. Statistical analysis plan for secondary prevention by structured semi interactive stroke prevention package in India (SPRINT INDIA) a randomised control trial. *J Stroke Med*. (in press).
33. Sreedharan SE, Sayyed JV, Vipina VP, Manju P, Jissa VT, **Sylaja PN**. Dysphagia continues to impact recovery one year after stroke- an observational study. *J Stroke Cerebrovasc Dis* 2022; doi: 10.1016/j.jstrokecerebrovasdis.2022.106545.
34. Aurelius T, Maheswari A, Dror GK, Sharma SD, Amlani S, Gunathilagan G, Cohen DL, Rajkumar C, Maquire S, Ispoglou S, Balogun I, Parry A, Sekaharn L, Syed H, Lawrence E, Singh R, Hassan A, Wharton C, Javiad K, Goorah N, Carr P, Sami EA, **Sylaja PN**, Prasad K, Sharma P. on behalf of BRAIN collaborators. Ischemic stroke in South Asians : BRAINS study. *Eur J Neurol* doi: 10.1111/ene.15605
35. Shani SD, Varma RP, Sarma PS, Sreelakshmi RS, Harikrishnan R, Kutty VR, **Sylaja PN**. Treatment in stroke unit and riskfactor control reduce risk of recurrent stroke. *Cerebrovas Dis extra* 2022 doi: 10.1159/000525716.
36. Varghese F, Paplikar A, Alladi S, Mekala S, Shah U, Sharma M, Dhaliwal RS, Saroja AO, Divyaraj G, Dutt A, Ghosh A, Ellajosyula R, Hooda R, Iyer G K, Kandukuri R, Kaul S, Khan AB, Pauranik A, Mathew R, Menon RN, Sunitha J, Nandi R, Narayanan J, Nehra A, Padma M V, Ramakrishnan S,

- Sarath L, Tripathi M, **Sylaja PN**, Varma RP, Verma M, Vishwanath Y. Measurement invariance of neuropsychological testing using ICMR Neurocognitive Tool Box across five languages.(in press)
37. Paplikar A, Varghese F, Alladi S, Vandana VP, Darshini KJ, Iyer GK, Kandukuri R, Divyaraj G, Sharma M, Dhaliwal RS, Kaul S, Saroja AO, Dutt A, Ellajosyula R, Ghosh A, Sunitha J, Khan AB, Mathew R, Mekala S, Menon R, Nandi R, Narayanan J, Nehra A, Padma MV, Pauranik A, Ramakrishnan S, Sarath L, Shah U, Tripathi M, **Sylaja PN**, Varma RP, Mansi Verma M, Vishwanath Y: ICMR-NCTB Consortium. Picture naming test for a linguistically diverse population with cognitive impairment and dementia. *Int J Lang Commun disord* 2022 doi: [10.1111/1460-6984.12728](https://doi.org/10.1111/1460-6984.12728)
 38. Deepa D, Krishnamoorthy S, **Sylaja PN**, Gopala S. Increased high density lipoprotein oxidant index in ischemic stroke patients. *Biomed Rep* 2022 doi: [10.3892/br.2022.1570](https://doi.org/10.3892/br.2022.1570). eCollection
 39. Benedetto V, Cadilhac DA, Spencer J, Clegg A, Lightbody CE, Maulik PK, Padma MV, Pandian JD, **Sylaja PN**, Watkins CL. Costs of hospital care of stroke in India: a scoping review. *Ind Economic J* DOI: [10.1177/00194662221139515](https://doi.org/10.1177/00194662221139515)/ ID: IEJ-2021-0395.RV2
 40. Tandon V, Senthilvelan S, Sreedharan SE, Kesavadas C, **Sylaja PN**. High resolution MR vessel wall imaging in determining the stroke etiology and risk stratification in middle cerebral artery disease. *Neuroradiol* 2022 doi: [10.1007/s00234-021-02891-9](https://doi.org/10.1007/s00234-021-02891-9).
 41. Rudrabhatala P, Sabarish S, George T, Divakar G, Nair SN, **Sylaja PN**. Superficial siderosis due to spinal myxopapillary ependymoma mimicking idiopathic intracranial hypertension. *AIAN* 2022;25:156-157.
 42. Alex A, Ayappan A, Valakada J, Narasimhaiah D, Pitchai S, **Sylaja PN**. Role of diffusion weighted imaging in carotid plaque vulnerability assessment. *Egypt J Radiol Nucl Med* 2022 (on line)
 43. Jayadevan ER, Kannath S, Sabarish S, Arun K, Sreedharan SE, Sukumaran S, **Sylaja PN**. Mechanical thrombectomy in acute ischemic stroke. Angiographic predictors of outcome. *Neurol India* 2022;70:1407-11
 44. Sreedharan SE, Arun K, Kannath S, Jayadevan ER, Jissa VT, **Sylaja PN**. The impact of time to reperfusion on recanalization rates and outcome after mechanical thrombectomy—a single centre experience. *Ann Ind Acad Neurol* 2022;25:256-260.
 45. Ye Z, Busse JW, Hill MD, Lindsay P, Guvatt GH, Prasad K, Agarwal A, Beattie C, Beattie J, Chartuir NN, Dodd C, Hiran M, Narayanan S, O'Donnell M, Resmini I, Sacco S, **Sylaja PN**, Volders D, Wand X, Xie F, Zachrisson S, Zhang L, Zhong H, An Z, Smith EE. Endovascular thrombectomy and intravenous alteplase in patients with acute ischemic stroke: a rapid clinical practice guideline. *J Evidence Based Med* 2022 <https://doi.org/10.1111/jebm.12493>

46. Ramachandra H,Pavuluri H,Sreedharan SE,**Sylaja PN**. If nothing goes right,it goes to left.a case of left ACA stroke due to right internal carotid artery stenosis *Ann Indian Acad Neurol* 2022;25:298-300.
47. Shani SD,**Sylaja PN**,Sarma S,Kutty R.Poor risk factor control among stroke survivors-a cross sectional survey.*Int J Noncommun Dis* 2021;6:137-141.
48. Ramani NV,Pandian JD,**Sylaja PN**,Bhatia R,Woo B.Asia Pacific stroke conference 2021-Stroke care in challenging times. *Cerebrovasc Dis* 2021. doi: 10.1159/000520615.
49. Singh G,Padma MV,Pal P,Pandian JD,**SylajaPN**,Alladi S,Dandona L.Estimating subnational neurological disease burden.a worthwhile mission.*Lancet Global health Burden* 2021(submitted)
50. Sundaram S,Kumar N,Sharma DP,Kesavadas C,Sreedharan SE,**Sylaja PN**. High resolution vessel wall imaging: an additional diagnostic tool in primary angiitis of central nervous system.*Ann Indian Acad Neurol* 2021;24:524-530.
51. Bhatia R,**Sylaja PN**,Srivastava MVP,Iype T et al.Clinical profile and outcomeof nonCOVID strokes during the pandemic to prepandemic group.COVID Stroke Study Group(CSSG) .*J Neurol Sci* doi: 10.1016/j.jns.2021.117583.
52. Jones SP,Baqai K,Clegg A,Georgiou R,Harris C,Holland EJ,Lightbody CE,Maulik PK,Padma MV,Pandian J,Patel K,**Sylaja PN**,Watkins CL,Hackett ML.Stroke in India-systematic review of the incidence and prevalence and outcome (including case fatality). *Int J Stroke* 2021. doi: 10.1177/17474930211027834.
53. Verma M, Tripathi M, Nehra A, Paplikar A, Varghese F, S Alladi A, Dhaliwal RS, Sharma M, Saroja AO, Arshad F,Divyaraj G, Ellajosyula R, Dutt A' , Ghosh A, Tejaswini S Manae, Mekala S, Menon RN, Hooda R, Iyer GK, Sunitha J, Kandukuri R, Kaul S , Khan AB, Mathew R, Nandi R, Narayanan J, Padma MV, Pauranik A, Ramakrishnan S, Sarath L, Shah U, **PN Sylaja**, Varma RP , Vishwanath Y - Validation of ICMR Neurocognitive Toolbox for dementia and its subtypes in the linguistically diverse context of India - Alzheimer's disease and vascular dementia-Frontiers in Neurology (in press)
54. Bhatia R, MVP Srivastava, **Sylaja PN**,Pardesani V, Iype T, Parthasarathy Ret al for COVID 019 Stroke Study Group -India. Clinical features and outcome of stroke with COVID -19-COVID -19 Stroke Study Group India (CSSG) *Ann Ind Acad Neurol* 2021;24:668-685..
55. **Sylaja PN**,Nair S,Pandian J,Khurana D,Srivastava P,Kaul S,Arora D,Sarma PS,Singhal AB. Impact of pre-stroke antiplatelet use on 3-month outcome after ischemic stroke. *Neurol India* 2021;69:1586-1591.
56. Arun K, Nambiar PN, Santhosh KK, Sreedharan SE, Sukumaran S, Sarma S, **PN Sylaja**.The prevalence of aortic plaques in cryptogenic ischemic stroke:Correlation to vascular risk factors and future ischemic events. *Neurol India* 2022;70:182-187.
57. Mitta N,Sreedharan SE, Sarma PS,**Sylaja PN**.Women and Stroke-Different yet Similar. *Cerebrovas Dis Extra* 2021;11:106-11.

58. Owolabi MO et al. The state of stroke services across the globe. Reports of the World Stroke Organization -World Health Organization survey. *Int J Stroke* 2021. doi: 10.1177/17474930211019568
59. Pandian JD, Verma SJ, Arora D, Sharma M, Dhaliwal RS, Khatter H, Huilgol R, **Sylaja PN** et al. INSTRUCT: Protocol, infrastructure and governance. *Stroke* 2021 doi: 10.1161/STROKEAHA.120.033149
60. Nair SN, **Sylaja PN**, Pandian JD, Srivastava MVP, Khurana D, Kaul S, Arora D, Sarma PS, Singhal AB. Impact of revascularization therapies on outcome of posterior circulation ischemic stroke-The Indo US Stroke project. *J Neurol Sci* doi: 10.1016/j.jns.2021.117499
61. Krishnamoorthy S, Singh G, Jose J, Soman B, Foerch C, Mechtouff L, Kimberly WT, Millan MSwitonska M, Maestrini I, Malhotra K, **Sylaja PN**. The role of circulating biomarkers in the early prediction of haemorrhagic transformation in acute ischemic stroke. A systematic review and metaanalysis. *Cerebrovasc Dis* 2021 doi: 10.1159/000518570. Online ahead of print.
62. The burden of neurological disorders across the states in India: The global burden of disease study 1990-2019. The India State level disease burden initiative. Neurological disorders collaborators. *Lancet Glob Health* 2021 doi: 10.1016/S2214-109X(21)00164-9
63. Kumar V, Ramachandran S, **Sylaja PN**, Pitchai S. Conventional carotid endarterectomy with shunt versus eversion carotid endarterectomy with out shunt does the technique influence the outcome in symptomatic carotid stenosis. *Asian J Neurosurg* 2021 doi: 10.4103/ajns.AJNS_486_20
64. Soumya VC, Ramachandran D, Sekar S, Sreedharan SE, **Sylaja PN**. PHACE syndrome presenting as transient ischemic attack. *Neurol India* 2021;69:766-767.
65. Vedartham V, Kesav P, Maniangatt S, Nagesh C, Sreedharan SE, Jayadevan ER, Sarma S, **Sylaja PN**. Hypodensities within haematoma is time dependant and predicts outcome after spontaneous intracerebral haemorrhage. *Neurol India* 2021;69:676-80.
66. Paramasivan NK, Sundaram S, Sharma DP, Sreedharan SE, **Sylaja PN**. Rituximab for primary angiitis of central nervous system: Experience in two patients. *Multiple sclerosis Rel disorders* doi: 10.1016/j.msard.2021.102907.
67. Kumar A, Chauhan G, Sharma S, Dabla S, **Sylaja PN**, Chaudhry N, Gupta S, Agrawal C, Anand KS, Srivastava A, Vibha D, Sagar R, Raj R, Maheswari A, Vivekanandhan S, Kaul B, Raghavan S, Gorthi SP, Mohania D, Kaushik S, Yadav RK, Hazarika A, Sharma P, Prasad K. Genome wide association study in Indians identifies novel genes and reveals association of SUMOlation pathway genes with Stroke. *Neurology* 2021. doi: 10.1212/WNL.00000000000012258.
68. Yagaval D, Saini V, Inoa V, Gardener HE, Martins SO, Fakey M, Ortega S, Mansour O, Leung T, AlMufti F, Jadhav AP, Potter-Vig J, Mairal A, Zhongrong M, **Sylaja PN**, Demchuk AM. MT 2020 Global executive committee. International survey of mechanical thrombectomy stroke systems of care during COVID-19. *JStroke Cerebrovasc Dis* 2021. doi: 10.1016/j.jstrokecerebrovasdis.2021.105806.

69. Shani SD, **Sylaja PN**, Kutty VR. Facilitators and barriers to medication adherence to stroke survivors in India. *J Clin Neurosci* 2021;88:185-90.
70. Owolabi MO, Thrift AG, Mahal A, Martins S, Johnson WD, Pandian JD, et al for Stroke experts Collaborative group. Primary stroke prevention world wide: Translating evidence into action. *Lancet Neurol* (in press)
71. Adithyan R, Kannath S, Thomas B, Jayadevan E, **Sylaja PN**, Kesavadas C. Assessment of collaterals using multiphasic CT angiography in acute stroke: its correlation and clinical outcomes. *Neurol India* 2021;69:1586-1591.
72. Paplikar A, Alladi S, Varghese F, Arshad F, Mekala S, Sharma M, Saroja AO, Divyaraj G, Dutt A, Ellajosyula R, Ghosh A, Hooda R, Iyer GK, Justus S, Kandukuri R, Kaul S, Khan AB, Mathew R, Menon R, Nandi R, Narayanan J, Nehra A, Padma MV, Pauranik A, Ramakrishnan S, Sarath L, Shah U, Tripathi M, **Sylaja PN**, Varma RP, Verma M, Vishwanath Y. Bilingualism and its implications for neuropsychological evaluation. *Arch of Clinical Neuropsychology*. 2021. doi: 10.1093/arclin/acab012.
73. Nogueira RG et al. Global impact of COVID 19 on stroke care and intravenous thrombolysis. *Stroke* . *Neurology* 2021. doi: 10.1212/WNL.00000000000011885.
74. Vinny PW, Takkar A, Lal V, Padma MV, **Sylaja PN**, Narasimhan L, Dwivedi SN, Nair PP, Iype T, Gupta A, Vishnu VY. A complementary tool (mobile app) for differential diagnosis in neuroophthalmology. A multicentre cross sectional study. *Indian J Ophthalmol* 2021;69:1491-97.
75. Menon RN, Varghese F, Paplikar A, Mekhala S, Alladi S, Sharma M, Onkarappa SA, Gollahalli D, Dutt A, Ghosh A, Dhaliwal RS, Hooda R, Iyer GK, Justus S, Kandukuri R, Kaul S, Khan AB, Nandi R, Narayanan J, Nehra A, M.V Padma, Pauranik A, Ramakrishnan S, Sarath L, Shah U, **PN Sylaja**, Varma RP, Vishwanath Y. Validation of Indian Council of Medical Research Neurocognitive tool box in diagnosis of mild cognitive impairment in India: Lessons from a harmonization process in a linguistically diverse society. *Dement Geriatr Cogn Disord* 2020;49:355-64.
76. Kaushik, Panwar A, Yavagal D, Huded V, **Sylaja PN**. Mission thrombectomy 2020. India's biggest health care challenge yet. *J Stroke Med* 2020 .
77. Krishnamoorthy S, Deepa D, Rejith P, **PN Sylaja**. High sensitivity C reactive protein and lipoprotein treated phospholipase A2 in predicting recurrence and severity of stenosis in symptomatic intracranial atherosclerotic disease. *Clinical Proteomics* (in press)
78. Kate MP, Verma SJ, Arora D, **Sylaja PN**, MV Padma, Rohit Bhatia, Dheeraj Khurana, Arvind Sharma, Pawan Ohja, Girish Baburao Kulkarni, Mohammed Sadhiq, S Jabeen, Rupjyoti das, Bimalkanth Ray, Pandian JD. Systematic development of structured semi –interactive stroke prevention package for secondary prevention. *Ann Ind Acad Neurol* 2020;23: 681-86.
79. Chen C, Parson MW, Levi CR, Spratt NJ, Lin L, Kleing T, Butcher K, Cheng X, Dong Q, Lou M, O'Brien B, Avivi RL, Krause M, **PN Sylaja**, Choi P, Bhuta S, Yin C, Yang J, Wang P, Qiu W, Bivard A. What is

- the optimal target mismatch criteria for acute ischemic stroke.? *Front Neurol* 2021 doi: 10.3389/fneur.2020.590766. eCollection 2020.
80. Shani SD,Sarma PS,Varma RP,**Sylaja PN**, Kutty VR.Lifestyle and behavioural factors are associated with stroke recurrence among survivors of first episode of stroke.:case control study. *J Stroke Cerebrovas Dis* 2021 doi: 10.1016/j.jstrokecerebrovasdis.2021.105606
 81. **Sylaja PN**,Gurpreet Singh,Sivasambath S,Arun K,Jeemon P,Antony R,Kalani R,Gopal BK. Secondary prevention of stroke by primary health care approach.- an open label cluster randomized trial. *J Clinical Neurosci* 2021;84:53-59.
 82. Paplikar A, Iyer GK, Varghese F, Mekala S, Arshad F, Alladi S, Pauranik A, Kaul S, Sharma M, Saroja AO, Dharamkar A, Dutt A, Divyaraj G, Ellajosyula R, Ghosh A, Kandukuri R, Mathew R, Menon R, Narayanan J, Nehra A, Padma MV, Ramakrishnan S, Ravi SK, Shah U, Tripathi M, **Sylaja PN**, Varma RP. A Screening Tool to Detect Stroke Aphasia: Adaptation of Frenchay Aphasia Screening Test (FAST) to the Indian Context.ICMR Neurocognitive Tool box Consortium .*Ann Indian Acad Neurol* 2020;23(Suppl 2)S143-S148.
 83. Arun K , Shafeeque CM,Sudhir J Banerjee M,**Sylaja PN**. Ethnic variation and clinical relevance of homozygous RNF 213 pR4810Kvariant in the phenotype of Indian Moyamoya disease.*PLOS One* 2020 Dec doi: 10.1371/journal.pone.0243925.
 84. Nampoothiri S, Yesodharan D, Bhattacharjee A,Ahamed H, Puri R,Gupta N, Kabra M⁵, Ranganath P,Bhat M, Phadke S Rama Devi AR,Jagdeesh S, Danda S, **PN Sylaja**, Mandal K ⁸, Bijarnia-Mahay S, Makkar R, IC Verma, Dalal AB, Ramaswami U.Fabry disease in Indian population.Multicentric retrospective analysis of clinical and mutation spectrum of 54 patients. *JIMD Rep* 2020 ;56:82-94.
 85. Ospel JM,Singh R,Kashani N,Almekhlafi M,Wilson A,Fischer U,Campbell B,Yoshumura S,Turjman F,**Sylaja PN**,Heo JH,Hill MD,Saposnik G,Goyal M,Menon B.Endovascular treatment decision making in patients with low baseline ASPECTS.Insight from UNMASK EVT-an international multidisciplinary study.*J Stroke Cerebrovas Dis* 2020.
 86. Divani AA,Andalib S,Biller J,Mc Cullough LD,RubinosCA,Cruz-flores S,NobelesaC,**Sylaja PN**,Lattanzi S, DiNapoli M,Toledano M,Moghimi N , Torbey M,Azarpazhooh R.Central nervous system manifestations associated with COVID 19.*Curr Neurol Neurosci Rep* 2020 . doi.org/10.1007/s11910-020-01079-7.
 87. Ghoreishi A,Arsang-Jang S,Sabaa-Ayoun Z,Yassi N, **Sylaja PN** et al.CASCADE investigators.Stroke care trends during COVID 19 pandemic in Zanjan province, Iran-From CASCADE initiative:statistical analysis plan and preliminary results.*J Stroke Cerebrovas Dis* .2020 doi: 10.1016/j.jstrokecerebrovasdis.2020.105321
 88. Arun KM, Smitha KA, Kesavadas C, **Sylaja PN**.Identifying resting state functional connectivity changes in the motor cortex using fNIRS during recovery from stroke. *Brain Topography* doi: 10.1007/s10548-020-00785-2.

89. Kesav P, Menon D, Vysakha KV, Kesavadas C, Sreedharan SE, Sarma S, **Sylaja PN**. Differential distribution of cerebral microbleeds in subtypes of acute ischemic stroke and minor stroke and its association with vascular risk factors. *Neurol India* 2020;68:1139-43.
90. CASCADE Study group – Call to Action. SARS -CoV2 and Cerebrovascular disorder. *J Stroke Cerebrovasc Dis* . doi: 10.1016/j.jstrokecerebrovasdis.2020.104938.
91. Sreedharan SE, Jaffar S, Vipina VP, Mohan M, Paul R, **Sylaja PN**. Post stroke dysphagia and disability in minor strokes.-an institutional study. *J Stroke Cerebrovasc Dis* . doi: 10.1016/j.jstrokecerebrovasdis.2020.105070.
92. Shetty K, Sreedharan SE, Sudhir J, Abraham M, Sarma PS, **Sylaja PN**. Malignant middle cerebral artery stroke management in developing world-outcome predictors. *Neurol Asia* 2020;25:103-108.
93. **PN Sylaja**, Padma MV, Shah S, Bhatia R, Khurana D, Sharma A, Kalia K, Sarmah D, Nair SN, Yavagal D, Bhattacharya P. COVID 19 outbreak and stroke care in India *Ann NY Acad Sci* 2020 doi: 10.1111/nyas.14379
94. Saraf U, Arun K, Babiker A, Kesava das C, Prabhakaran S, **PN Sylaja**. Comparison of the risk factors and outcome of intracranial atherosclerotic disease between India and United States. *Ann Ind Acad Neurol* 2020;23:265-269.
95. Hiremath N, Mohimen A, Kesavadas C, **PN Sylaja**. Risk factors of white matter hyperintensities in South Asian patients with TIA and minor stroke. *Neuroradiology* 2020;62:1279-84.
96. Bhatia R, **Sylaja PN**, Padma MV, Pandian J, Suri V, Pradeep kumar VG, Khurana D, Kumaravelu S, Huded V, Surya N, Aravind S, Kaul S. Recommendations for acute stroke management during COVID 19 pandemic. *Ann Ind Acad Neurol* 2020;23(Suppl 1):S15-S23.
97. Kharal GA, **Sylaja PN**, Singhal AB. A 66 year old woman with recurrent stroke. *Neurology India* 2020;68:17-19.
98. Raina A, Trivedi M, Kate MP, Kumar L, Sreedharan SE, **PN Sylaja**. Temporal sustainability of guideline based door to needle time for intravenous thrombolysis for acute ischemic stroke. *J Clin Neurosci* 2020 ;74:164-167.
99. Sreedharan SE, Thomas B, **Sylaja PN**. Cerebral amyloid angiopathy. A clinicoradiological study from South India. *Neurol India* 2020;68:378-382.
100. Sundaram S, **Sylaja PN**. Post stroke dysphagia-Does electrophysiology help in evaluation and monitoring. *Neurol India* 2019;67:2467-68.
101. Mapping disparities in education across low and middle income countries. Local burden of disease educational attainment collaborators. *Nature* 2019 Dec doi: 10.1038/s41586-019-1872-1.
102. Kalani R, Krishnamoorthy S, Damayanthi D, Gopala Prabhakaran D, Tirswell D, **Sylaja PN**. Apolipoproteins B and A1 in ischemic stroke subtypes. *J Stroke Cerebrovasc Dis* 2020 . doi: 10.1016/j.jstrokecerebrovasdis.2020.104670.

103. Kashani N, Ospel JM, Menon BK, Saposnik G, Almekhlafi M, **Sylaja PN**, Campbell BCV, Heo JH, Mitchell PJ, Cherian M, Turjman F, Kim BM, Fischer U, Wilson AT, Baxter B, Rabinstein A, Yoshimura S, Hill MD, Goyal M. Influence of guidelines in EVT decision making in acute ischemic stroke: Insights from UNMASK EVT Survey. *Stroke* 2019;50:3578-3584.
104. Janet Bettger, Chelsea Liu, Dorcas Gandhi, Nitha Jayaram, **PN Sylaja**, Jeyaraj Pandian. Emerging areas of stroke rehabilitation research in low and middle income countries – A scoping review. *Stroke* 2019 ;50:3307-3313.
105. Saposnik G, Menon BK, Kashani N, Wilson AT, Yoshimura S, Campbell BCV, Baxter B, Rabinstein A, Turjman F, Fischer U, Ospel JM, Mitchell PJ, **Sylaja PN**, Cherian M, Kim B, Heo JH, Podlasek A, Almekhlafi M, Foss MM, Demchuk AM, Hill MD, Goyal M. Factors associated with decision making of endovascular thrombectomy in management of acute ischemic stroke. *Stroke* 2019 ;50:2441-2447.
106. Saposnik G, Menon BK, Wilson AT, Shinichi Yoshimura, Bruce Campbell, Blaise Baxter, Alejandro Rabinstein, Francis Turjmon, Urs Fischer, Peter Mitchell, **Sylaja PN**, Mathew Cherian, Ji Hoe Heo, Podlasek, Almekhlafi M, Foss M, Demchuk AM, Hill MD, Goyal M. Endovascular treatment decision in acute stroke. Does physician gender matter. Insights from an international multidisciplinary survey. *J of Neurointerventional Surg* 2020;12:256-259.
107. Ospel JM, Kashani N, Goyal M, Menon BK, Campbell B, Fischer U, Turjman F, Mitchell P, Yoshimura S, Podlasek A, Rabinstein AA, Wilson AT, Kim BM, Baxter BW, Cherian M, Heo HJ, Foss M, Demchuk AM, **Sylaja PN**, Hill MD, Saposnik G, Almekhlafi M. Time of day and endovascular treatment decision in acute stroke with relative endovascular indication-Insights from UNMASK EVT International survey. *Journal of Neurointerventional Surg* 2020;12:122-126.
108. Iyer GK, Mekala S, Paplikar A, Sharma M, Tripathi M, Ghosh A, Menon R, Ellajosyula R, Saroja AO, Kaul S, Nehra A, Dutt A, **Sylaja PN**, Narayanan J, Varma RP, Padma MV, Mathuranath PS, Shah U, Pauranik A, Mathew R, Divyaraj G, Nandi R, Sarath L, Verma M, Varghese F, Kandukuri R, Justus S, Khan AB, Hooda R, Alladi S. Standardising dementia diagnosis across linguistic and educational diversity: Study design of the Indian Council of Medical Research-Neurocognitive Tool Box (ICMR-NTB) project. *J Int Neuropsychol Soc* 2020;26:172-186.
109. Arun K, **PN Sylaja**, Senthilvelan S, Kesavadas C, Moinak Banerjee M, Sudhir J. Vessel wall thickening and enhancement in high resolution intracranial vessel wall imaging: a predictor of future ischemic events in Moyamoya disease. *AJNR* 2020;41:100-105.
110. Kate MP, Arora D, Verma SJ, **Sylaja PN**, Renjith V, Sharma M, Pandian JD. Secondary prevention by structured semi –interactive stroke prevention package in India. *Int J Stroke* 2020;15:109-115.

111. Vinny WP, Vishnu V, Gupta A, Modi M, Padma MV, Lal V, **Sylaja PN**, Narasimhan N, Dwivedi S, Nair P, Iype . Head to head comparison between neurology residents and a mobile medical application for diagnostic accuracy in cognitive neurology. *Quarterly journal of Medicine* 2019 ;112:591-598.
112. Sujesh Sreedharan, Arun KM, **Sylaja PN**, C Kesavadas, Ranganatha Sitaram. Functional connectivity of language regions of stroke patients with expressive aphasia during real time functional MRI neurofeedback. *Brain connectivity* 2019;9:613-626.
113. Sujesh S, Anuvitha C, Y Vijay Raj, **Sylaja PN**, Ranganatha S, Kesavadas C. Self regulation of language areas using real time functional MRI in stroke patients with expressive aphasia. *Brain imaging and behavior*. 2019 doi: 10.1007/s11682-019-00106-7.
114. Global , regional and national burden of neurological disorders 1990- 2016:a systematic analysis for Global Burden of Disease Study 2016. GBD 2016 Neurology Collaborators. *Lancet Neurol* 2019;18:459-480.
115. Global , regional and national burden of Stroke 1990- 2016:a systematic analysis for Global Burden of Disease Study 2016. GBD 2016 Neurology Collaborators. *Lancet Neurol* 2019;18:439-58.
116. Kesav P, Krishna BM, Kesavadas C, Sreedharan SE, Sukumaran S, **Sylaja PN**. Utility of high resolution MR vessel wall imaging in differentiating intracranial vasculopathies in ischemic stroke. *Neuroradiol* 2019 ;61:389-396.
117. Vishnu VY, Bhatia R, Pandain J, Khurana D, Kaul S, **Sylaja PN**, Arora D, Khatter H, MV Padma, Singhal AB. Regional Differences in ischemic stroke in India (North vs South). *Int J Stroke*. 2019 ;14:706-714.
118. Arun K, Nagesh C, Kesavadas C, Sreedharan SE, **Sylaja PN**. MR vessel wall imaging in intracranial atherosclerotic disease simulating vasculitis – *Neurol India* 2019;67:588-89.
119. Vineetha VS, Sreedharan SE, Sarma S, **Sylaja PN**. Antiplatelets versus anticoagulants in the treatment of extracranial carotid and vertebral artery dissection. *Neurol India* 2019;67:1056-59.
120. Sundaram S, **Sylaja PN**, Menon D, Sreedharan, SE Jayadevan ER, Sarma S. Primary angitis of central nervous system. Clinical profile and outcome of 45 patients. *Neurol India* 2019;67:105-112.
121. Bashiya J, Kesav P, Sreedharan SE, **Sylaja PN**. Extensive extrapulvinar calcification in Fabry's disease. *Ann Indian Acad Neurol* 2018;21:309-310.
122. Measuring progress from 1990 to 2017 and projecting attainment to 2030 of the health – related sustainable development goals for 195 countries and territories: a systematic analysis for the Global Burden of Disease Study 2017. *Lancet* 2018;392:2091-2138.
123. Population and fertility by age and sex for 195 countries and territories, 1950-2017: a systematic analysis for the Global Burden of Disease Study 2017. *Lancet* 2018;392:1995-2051.

124. Global, regional, and national age-sex-specific mortality for 282 causes of death in 195 countries and territories, 1980-2017: a systematic analysis for the Global Burden of Disease Study 2017. *Lancet* 2018;392:1736-1788.
125. Global, regional, and national age-sex-specific mortality and life expectancy, 1950-2017: a systematic analysis for the Global Burden of Disease Study 2017. *Lancet* 2018;392:1684-1735.
126. Global, regional, and national disability – adjusted life – years (DALYs) for 359 disease and injuries and healthy life expectancy (HALE) for 195 countries and territories, 1990-2017: a systematic analysis for the Global Burden of Disease Study 2017. *Lancet* 2018; 392: 1859-1922.
127. Global, regional and national disability adjusted life years (DALYs) for 359 diseases and injuries and healthy life expectancy (HALE) for 195 countries and territories 1990-2017- a systematic analysis for Global Burden of Disease Study 2017. *Lancet* 2018;392:1859-1922.
128. The changing patterns of cardiovascular diseases and their risk factors in the states of India. the Global burden of Disease Study 1990-2016. *Lancet Glob Health*.2018;6:e1339-51.
129. Gopikrishnan U, Hiremath N, Kesavadas C, Sreedharan SE, **Sylaja PN**. Cerebral large vessel vasculitis in Sjogrens syndrome-Utility of MR vessel wall imaging. *J Clinical Neurol* 2018;14:588-590.
130. Nambiar PN, Arun K, Vinayakamani, Sapna SE, **Sylaja PN**. Cerebral vasculopathy in Coarctation of Aorta- a rare association. *J Stroke Cerebrovas Dis* 2018 ;27:3393-94.
131. Xixiao Li, Jeyaraj Pandian, **PN Sylaja**, Yilong Wang, Xingquan Zhao, Liping Liu, Chunjuan Wang, Dheeraj Khurana, Padma Srivastava, Subhash Kaul, Deepti Arora, Lee Schwamm, Yongan Wang, Aneesh Singhal. Quality of care for ischemic stroke in China vs India: Findings from National Clinical registries. *Neurology* 2018;91:e1348-e1354.
132. Umesh SU, Arun K, Sreedharan SE, Rajalakshmi P, **Sylaja PN**. Moyamoya disease associated with hereditary spherocytosis. *Neurology India* 2018;66:1174-75.
133. Measuring performance on health care access and quality index for 195 countries and territories and selected subnational locations: a systematic analysis from Global Burden of Disease study 2016. *Lancet* 2018; 391:2236-71.
134. Adithyan Rajendran, Praveen Kesav, Bejoy Thomas, **PN Sylaja**, C Kesavadas. MR Vessel wall imaging in cerebrovascular diseases – a review. *Neurol India* 2018;66:1124-1132.
135. Santosh Kannoth, Jayadevan ER, **PN Sylaja**, Sankara Sarma, Sajith Sukumaran, Sapna Sreedharan, TR Kapilamoorthy. Dwell time of stentriever influence complete revascularization and first pass TICI 3 in acute large vessel occlusion stroke. *World Neurosurgery* 2019;110:169-173.
136. **Sylaja PN**, Pandian J, Kaul S, Srivastava P, Khurana D, Schwamm L H, Kesav P, Arora D, Pannu A, Thankachan T, Singhal AB Ischemic stroke profile, risk factors and outcomes in India; the Indo-US Collaborative Stroke Project. *Stroke* 2018;49:219-222.

137. Khurana D, Pandian JD, **Sylaja PN**, Kaul S, Srivastava MV, Thakur S, Arora D, Thankachan T, Singhal AB. The IndoUS Collaborative Stroke Registry and Infrastructure development project(commentary). *Neurol India* 2018;66:276-78.
138. Nations within a nation.Variation in epidemiological transition across the states of India,1990-2016 in Global Burden of Disease study.India State level Disease Burden Initiative Collaborators. *Lancet* 2017;390:2437-2460.
139. Sruthi SN, **Sylaja PN**. Initial Stroke severity and stroke outcome-the inseparable link.*Neurology India* .2017;65:1260-61.
140. Kesav P, Vrinda SL, Sukumaran S , Sarma PS , **Sylaja PN** .Effectiveness of speech language therapy either alone or in combination with computer based language therapy software (Malayalam version) for post stroke patients with aphasia. *J Neurol Sci* 2017;380:137-141.
141. Cluster –randomized cross over trial of head positioning in acute stroke. Head Post investigatorsNEngl J Med 2017;376:2437-2447.
142. Family -led rehabilitation after stroke in India (ATTEND) : randomized controlled trial.*Lancet* 2017;390:588-599.
143. Hingwala DR,Kesavadas C,Thomas B,**Sylaja PN**,Unnikrishnan M,Kapilamoorthy TR. Atherosclerotic carotid plaques-multimodality imaging with contrast enhanced ultrasound,computed toography and magnetic resonance imaging. *Ann Indian Acad Neurol* 2017;20:378-86.
144. Asranna A,Kesav P,Nagesh C,Sreedharan SE,Kesavadas C,**Sylaja PN**.Cerebral aneurysms and metastasis occurring as a delayed complication of resected atrial myxoma.:imaging findings including high resolution vessel wall MRI. *Neuroradiology* 2017;59:427-29.
145. Divya KP,Menon R,Varma KP,**Sylaja PN**, Thomas B,Kesavadas C, Sunitha J,Lekha VS,Deepa KS..Post stroke cognitive impairment –a cross sectional comparison study between mild cognitive impairment of vascular and nonvascular etiology.*J Neurological Sci* 2017;372:356-62.
146. Pande A, Kesav P,Sreedharan SE, Shetty K,**Sylaja PN**.Reversal of angiographic findings of moyamoya syndrome after congenital cyanotic heart disease repair.*Neurol India* 2017;65:190-191.
147. Maniangatt SC, Trivedi M, Sreedharan SE, Jayadevan ER, **PN Sylaja**. Dural venous sinus thrombosis following intravitreal bevacuzimab. *Neurol India*2017;65:190-191.
148. Sundaram S, Santhosh K, Thomas B, **Sylaja PN**. Collaterals assessment by CT angiogram as a predictor of outcome in symptomatic cervical internal carotid artery occlusion. *Am J Neuroradiol* 2017;38:52-57.
149. Sruthi SN,**Sylaja PN**,Sreedharan SE,Sarma PS.Maintenence of normoglycemia may improve outcome in acute ischemic stroke. *Ann Indian Acad Neurol* 2017;20:122-126.

150. Nayani S, Namboodiri N, **Sylaja PN**, Sarma PS, Sreedharan SE. Autonomic dysfunction in first ever ischemic stroke. Prevalence, predictors and short term neurovascular outcome. *Clin Neurol Neurosurgery* 2016;150:54-58.
151. Mukherjee A, Muthusami P, Mohimen A, Srinivasan K, Babunath B, **Sylaja PN**, Kesavadas C. NCCT vs CT angiographic source images for predicting final infarct size in anterior circulation acute ischemic stroke.: a prospective cohort study on 256-slice CT scanner. *J Stroke Cerebrovasc Dis* Oct 2016 (ahead of print)
152. Sreeja HR, Sreedharan SE, Menon G, Kannoth S, **Sylaja PN**. Primary CNS vasculitis presenting as intraventricular bleed. *Ann Indian Acad Neurol* 2016;19:249-51.
153. A Bivard, C Xin, L Lin, C Levi, T Kleinig, B Billy, K Butcher, L Ming, Z Jingfen, **Sylaja PN**, J Jannes, D Qiang, and M Parsons. Global white matter hypoperfusion in perfusion CT is associated with acute lacunar infarction and increased risk of haemorrhagic transformation. *CNS Neurosci Ther* 2016;22:238-43.
154. Sundaram S, **Sylaja PN**. Transient ischemic attacks. Recent concepts. In *Monograph on stroke - Association of Physicians of India*.
155. Mandilya A, Unnikrishnan JP, Amal MG, Sarma PS, **Sylaja PN**. Post stroke fatigue is an independent predictor of post stroke disability and burden of care: a path analysis study. *Top Stroke Rehabil* 2016;23:69-76.
156. Bonner B, Pillai B, Sarma PS, Lipska KJ, Pandian J, **Sylaja PN**. Factors predictive of return to work after stroke in patients with mild to moderate disability in India. *Eur J Neurol* 2016;23:548-53.
157. Nair SS, Arathy JS, Menon JR, Sreedharan SE, **Sylaja PN**. Persistent post stroke dysphagia treated with cricopharyngeal myotomy: a case report. *Ann Indian Acad Neurol* 2016;19:249-51.
158. Divya KP, Sandeep N, Sarma PS, **Sylaja PN**. Risk of stroke and cardiac events in asymptomatic carotid stenosis. *J Stroke Cerebrovasc Dis* 2015 ;24:2149-53.
159. Padma MV, Paulin S, Khurana D, Bhatia R, Kaul S, **Sylaja PN**, Moonis M, Pandian JD. Telestroke. a viable alternative to improve stroke care in India. *Int J Stroke* 2014; Suppl A100:133-4.
160. Kate MP, Thomas B, **Sylaja PN**. Cerebral venous thrombosis in post lumbar puncture intracranial hypotension: case report and review of literature. *F1000 Res*. 2014;3:41.
161. Sundaram S, **Sylaja PN**, Menon G, Sudhir J, Jayadevan ER, Sukumaran S, Sreedharan SE, Sarma S. Moyamoya disease : A comparison of long term outcome of conservative and surgical treatment in India. *J Neurol Sci* 2014;336:99-102.
162. Hingwala D, Kesavadas C, **Sylaja PN**, Thomas B, Kapilamoorthy TR. Multimodality imaging of carotid atherosclerotic plaque: Going beyond stenosis. *Ind J Radiol Imaging*. 2013;23:26-34.
163. Muthusami P, Kesavadas C, **Sylaja PN**, Thomas B, Harsha KJ, Kapilamoorthy TR. Implicating the long styloid process in cervical carotid artery dissection. *Neuroradiology* 2013;55:861-7.

164. Sapna ES, Unnikrishnan JP, Amal MG, Shibi BS, Sarma PS, **Sylaja PN**. Employment status, social function decline and caregiver burden among stroke survivors. A South Indian study. *J Neurol Sci* 2013;332:97-101.
165. Santosh K, Jayadevan ER, Kapilamoorthy TR, **Sylaja PN**. Temporal evolution of hypertrophied vasovasorum of triggered by cerebral ischemia, A serial angiographic investigation. *Neurol India* 2013;61:312-4.
166. Kate M, **Sylaja PN**, Kesavadas C, Thomas B. Imaging and clinical predictors of un-favourable outcome in medically treated symptomatic intracranial atherosclerotic disease. *J Stroke Cerebrovas Dis* 2014;23:973-8.
167. Divya K.P, Sukumaran S, Sreedharan ES, **Sylaja PN**. Antisynthetase syndrome presenting with stroke. *Neurol India*. 2013 ;61:83-84.
168. Divya KP, Sukumaran S, Sreedharan SE, **Sylaja PN**. Bilateral medial medullary infarct <herat appearance. *Neurol India* 2013;61:84.
169. Golestani A M, Tymchuk S, Demchuk A, Goodyear B G, Poppe A Y, O'Reilly C, Green T, Tdris S, Stewart E, Stepherson C, Kenney C, **Sylaja P N**, Hill M D, Coutts S B, Sharma P, Eesa M, Goyal M. Longitudinal evaluation of resting state fMRI after acute stroke with hemiparesis. *Neurorehabil Neural Repair* 2013;27:153-63.
170. Sapna ES, Gayathri, **Sylaja PN**. A case of perioperative stroke. *Ann Ind Acad Neurol* 2013;16:103-5.
171. Pandian JD, Toor G, Arora R, Kaur P, Dheeraj KV, Bheellar RS, **Sylaja PN**. Complementary and alternative medicine treatments among stroke patients in India. *Top Stroke Rehabil* 2012;19:384-394.
172. Cotlarciuc I, Khan MS, Maheswari A, Yadav S, Khan FY, Al-Hail H, DeSiva R, Gorthi SP, Gupta S, Sharma SR, **Sylaja PN**, Prasad K, Sharma P on behalf of BRAIN collaborators. Biorepository of DNA in stroke: a study protocol of three ancestral population. *J R Soc Med Cardiovas Dis* 2012;1:10.
173. Lingegowda D, Thomas B, Vaghela V, Hingwala DR, Kesavadas C, **Sylaja PN**. Susceptibility sign on susceptibility weighted imaging in acute ischemic stroke. *Neurol India*. 2012;60:160-4.
174. Kate M, **Sylaja PN**, Kesavadas C, Balakrishnan R, Sarma S, Pandian JD. Early risk and predictors of cerebrovascular and cardiovascular events in transient ischemic attack and minor ischemic stroke. *Neurol India* 2012;60:165-7.
175. Sreedharan SE, Saratchandran P, Menon G, Chellington J, **Sylaja PN**. Intracranial hypertension with polyradiculopathy-early CSF diversion to optimize neurological recovery. *Br J Neurosurg* 2012;26:558-60.

176. Sukumaran S, Jayadevan ER, Alok Mandilya A, Sreedharan SE, Harikrishnan S, Neelima Radhakrishnan N, **Sylaja PN**. Successful mechanical thrombectomy of acute middle cerebral artery occlusion due to vegetation from infective endocarditis. *Neurology India* 2012;60:239-40.
177. Thomas B, Lingegowda D, Kesava das C, **Sylaja PN**. Direct visualization of thrombus load in MCA in acute stroke in susceptibility weighted imaging. *Neurol India* 2011;59:943.
178. Mandilya A, Namboodiri N, Sreedharan SE, **Sylaja PN**. Sinus arrest complicating acute posterior cerebral artery stroke. *Neurology India* 2011;59:772-73.
179. Pandian JD, Kaur A, Jyotsna R, **Sylaja PN**, Vijaya P, Padma MV, Venkateswaralu K, Sukumaran S, Mathew R, Kaur P, Singh YP, Radhakrishnan K. Complications in acute stroke in India (CAST-1) –a multicentric study. *J Stroke Cerebrovasc Dis* 2011.
180. Pandian JD, Jyotsna R, Singh R, **Sylaja PN**, Vijaya P, Padma MV, Venkateswaralu K, Sukumaran S, Radhakrishnan K, Sarma PS, Mathew R, Singh Y. Premorbid nutrition and short term outcome of stroke: a multicentre study from India. *J Neurol Neurosurg Psychiatry*. 2011;82:1087-92.
181. Kesavadas C, Thomas B, Pendharakar H, **Sylaja PN**. Susceptibility weighted imaging .Does it give information similar to perfusion weighted imaging in acute stroke ? *J Neurol* 2011;258:932-34.
182. Coutts SB, **Sylaja PN**, Choi YB, Al-Khathami A, Sivakumar C, Jeerakathil TJ, Sarma PS, Hill MD. The ASPIRE Approach for TIA risk stratification. *Can J Neurol Sci* 2011 ; 38:78-81.
183. Shobha N, **Sylaja PN**, Shi HS, Fang J, Kapral MK, and Hill MD. Evidence for a thrombolysis-by-sex treatment interaction in the Registry of the Canadian Stroke Network. *Neurology* 2010; 74:767-71.
184. **Sylaja PN**, Setiawan M, Hill MD, Demchuk AM, Wong JH. Treatment of stroke after carotid endarterectomy using intravenous abciximab. *Neurol India* 2009; 57: 780-82.
185. **Sylaja PN**, Dzialowski I, Puetz V, Eliasziw M, Hill MD, Krol A, O'Reilly C, Demchuk AM. Does intravenous rtPA benefit patients in the absence of CT angiographically visible intracranial occlusion. *Neurol India* 2009 ; 57: 739-43.
186. Puetz V, **Sylaja PN**, Hill MD, Coutts SB, Dzialowski I, Becker U, Gahn G, von Kummer R, Demchuk AM. CT Angiography source images predict final infarct extent in patients with basilar artery occlusion. *Am J Neuroradiol* 2009; 30:1877- 83.
187. Sridharan SE, Unnikrishnan JP, Sukumaran S, **Sylaja PN**, Nayak SD, Sarma PS, Radhakrishnan K. Incidence, types, risk factors and outcome of stroke in a developing country. The Trivandrum Stroke Registry. *Stroke* 2009; 40: 1212-18.
188. **Sylaja PN**, Demchuk AM. Intravenous thrombolytic therapy in acute ischemic stroke. the art and science of treatment decision making. *Ann Ind Acad Neurol* 2008;11:24-29.
189. **Sylaja PN**, Hill MD. Transient ischemic attacks - Definition, risk prediction and urgent management. *Neurol India* 2009;57:252-6.

190. **Sylaja PN**, Coutts SB, Krol A, Hill MD, Demchuk AM. When to expect negative diffusion weighted images in stroke and TIA *Stroke* 2008; 39: 1898- 1900.
191. **Sylaja PN**, Puetz V, Dzialowski I, Krol A, Hill MD, Demchuk AM. Prognostic value of CT Angiography in patients with suspected vertebrobasilar ischemia. *J Neuroimaging* 2008;18:46-9.
192. Puetz V, Dzialowski I, Hill MD, Subramaniam S, **Sylaja PN**, Krol A O'Reilly C, Hudon ME, Hu WY, Coutts SB, Barber PA, Watson T, Roy J. Intracranial thrombus extent predicts clinical outcome, final infarct size and hemorrhagic transformation in ischemic stroke: the Clot Burden Score *Int J Stroke* 2008;3:230-6.
193. **Sylaja PN**, Coutts SB, Subramaniam S, Eliasziw M, Demchuk AM. Evidence of acute ischemia of varying ages predicts higher risk of ischemic events in stroke/TIA patients. *Neurology* 2007;68:415-19.
194. Pandian JD, Padma V, Vijaya P, **Sylaja PN**, Murthy JMK. Stroke and thrombolysis in developing countries. *Int J Stroke* 2007;2:17-26.
195. Lipska K, **Sylaja PN**, Sarma SP, Kutty VR, Thankappan KR, Vasana RS, Radhakrishnan K. Risk factors for acute ischemic stroke in young adults in south India. *J Neurol Neurosurg Psychiatry* 2007; 78:959-63.
196. Varma NP, **Sylaja PN**, George L, Sankara Sarma P, Radhakrishnan K. Employment concerns of people with epilepsy in Kerala, South India. *Epilepsy Behav* 2007;10:250-54.
197. **Sylaja PN**, Dong W, Grotta JC, Miller MK, Tomita K, Hamilton S, Semba C, Hill MD. Safety outcomes of alteplase among acute ischemic stroke patients with special characteristics. *Neurocriti Care* 2007;6:181-5.
198. **Sylaja PN**, Hill MD. Current management of transient ischemic attack. *Am J Cardiovasc drugs* 2007;7: 67-74.
199. **Sylaja PN**, Goyal M, Watson T, Hill MD. Wallerian like degeneration after ischemic stroke revealed by diffusion-weighted imaging. *Can J Neurol Sci* 2007;34:243-44.
200. Tellez-Zenteno JF, **Sylaja PN**, Hill MD, Pillay N. Chronic PLEDS with transitional rhythmic discharges (PLEDS-plus) in remote stroke. *Epileptic disorders* 2007;9:164-9.
201. **Sylaja PN**, Dzialowski I, Krol A, Roy J, Federico P, Demchuk AM. Role of CT angiography in thrombolysis decision making for patients with presumed seizure at stroke onset. *Stroke* 2006;37:915-7.
202. **Sylaja PN**, Cote R, Buchan AM, Hill MD. Thrombolysis for acute ischemic stroke in patients aged 80 years and older; Canadian Alteplase for Stroke Effectiveness Study. *J Neurol Neurosurg Psychiatry*.2006 ;77:826-29.
203. **Sylaja PN**, Barber PA. Thrombolysis for acute ischemic stroke. a review. *Geriatrics and Aging* 2006 ;9:354-57.

204. **Sylaja PN**, Hill MD. Stroke due to calcific embolus following coronary angiography. *Neurology* 2006; 67:16.
205. **Sylaja PN**, Radhakrishnan K, Kesavadas C, Sarma PS. Seizure outcome after anterior temporal lobectomy in patients with apparent temporal epilepsy and normal MRI. *Epilepsia* 2004; 45:803-8.
206. **Sylaja PN**, Radhakrishnan K. Problems and pitfalls in developing countries. *Epilepsia* 2003;44 suppl:48-50.
207. **Sylaja PN**, Moosa NVA, Radhakrishnan K, Sarma PS, Kumar SP. Differential diagnosis of patients with intracranial sinus venous thrombosis related isolated intracranial hypertension from those with idiopathic intracranial hypertension. *J Neurol Sci* 2003;215:9-12.
208. Vijai J, Cherian PJ, **Sylaja PN**, Anand A, Radhakrishnan K. Clinical characteristics of a South Indian cohort of juvenile myoclonic epilepsy probands. *Seizure* 2003; 12:490-96.
209. **Sylaja PN**, Cherian PJ, Radhakrishnan K, Kesava Das C, Radhakrishnan VV. Idiopathic hypertrophic pachymeningitis. *Neurol India* 2001 ;50:53-59.
210. **Sylaja PN**, Kuruttukulam G, Joseph S, Gupta AK, Radhakrishnan K. Selective intraarterial thrombolysis in acute carotid territory stroke. *Neurol India* 2001;49:153-7.
211. **Sylaja PN**, Radhakrishnan K. The role of scalp EEG in the presurgical evaluation of patients with medically refractory temporal lobe epilepsy. *Am J END Technol* 2001; 41:116-125.

Book chapters

212. Radhakrishnan K, **Sylaja PN**. Neuroepidemiology in tropics. In: *Tropical Neurology*.Eds. Misra UK, Kalita J, Shakir RA. Landers Bioscience, Texas, 2001.
213. **Sylaja PN**, Sarma PS, Radhakrishnan K. The direct recurring costs of care of persons with temporal lobe epilepsy. In: Ed. Radhakrishnan K. *Medically Refractory Epilepsy*:Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum,Kerala, 1999: 249-53.
214. **Sylaja PN**. Role of antithrombotic agents in the management of stroke. In *Reviews in Indian neurology* 2003.Ed Radhakrishnan K.2003;281-95.
215. Visweswaran K, **Sylaja PN**. Central pontine myelinolysis after rapid correction of hyponatremia. In. 50 complicated cases of nephrology.
216. Milija D Mijajlovic, **Sylaja PN**, Natan M Bornstein. Current concepts in transient ischemic attack. In:Neurology in Tropics 2nd edition.
217. Sreedharan SE, **Sylaja PN**. Hyperperfusion syndrome following cerebral revascularization .In: *Reviews in Neurology* 2013.Neurological Manifestations of systemic diseases.
218. Kesav P, **Sylaja PN**. Women and Stroke .In: *Reviews in Neurology* 2016. Women and Neurology.Published by Wolter Kluwer
219. Kesav P,**Sylaja PN**. An unusual case of primary angitis of central nervous system. In:*Clinical Neurology-case based approach*.- 2016.

220. Arun K, **Sylaja PN**. Stroke in the young. In. IAN textbook of Neurology 2018.
221. **Sylaja PN**, Sruthi Nair. Commentary – Head Post Trial – Medicine Year book 2018
222. Associate Editor Neurology Year book of Medicine 2019.
223. Sreedharan SE, **Sylaja PN**. Imaging in acute ischemic stroke- Reviews in Neurology 2019 Editor - Dr Lakshmi Narasimhan. Published by Wolter Kluwer.
224. Arun K, **Sylaja PN**. Varicella zoster intracerebral vasculopathy . in Puzzling cases in Stroke. 2020
225. Sundaram S, **Sylaja PN**. Clinical overview Primary central nervous system vasculitis -management - India Point of Care 2022. Published by Elsevier .
226. Nonatheromatous vasculopathy in Neuroradiology and Head and Neck -Vol 2 Published by Elsevier
227. Nonatheromatous vasculopathy in IAN textbook of Neurology -Published by Jaypee brothers.
228. Sapna Sreedharan, **Sylaja PN**. Perioperative strokes-Prevention and Management. in Clinical insights
229. Verma SJ, Gulati P, Khatter H, Arora D, Dhasan A, Sharma M, **Sylaja PN**, Pandian JD. Process evaluation of secondary prevention by structured semiinteractive stroke prevention package in India **in BP international**

Books edited

1. Reviews in Neurology -COVID 19 and Neurology -2021 Wolter Kluwer
2. Reviews in Neurology -Epilepsy Innovations and Advances -Jaypee brothers .

Presentations at International Conferences- 34

Presentation at National conferences - 129

Ongoing trials and research

Externally funded projects

1. A Phase IIb prospective, randomized, double-blind, multi-center, dose escalation placebo controlled study of NTx-265: human chorionic gonadotropin (hCG) and epoetin alfa (EPO) in acute ischemic stroke patients (**REGENESIS**) **Principal investigator**-Dr.P.N.Sylaja Funding Agency- Stem cell Therapeutics Corporation, Canada. Total cost : 4 lakhs Status: Completed. (2008-2010)
2. Repository of DNA in stroke in South Asians. **Principal Investigator** –Dr.P.N.Sylaja Status – Ongoing Funding Agency : UK-India Education and Research Initiative . Total cost : 6 Lakhs. Status : Completed (2011-2017)

3. A study on Prediabetes and insulin resistance in patients with ischemic stroke and TIA **Co-PI** –Dr P.N.Sylaja Funding Agency: NIH. Status: Completed. Total cost : 1.5 lakhs (2011-2012).
4. Indo US collaborative stroke registry and infrastructure development **Principal Investigator:** Dr P.N Sylaja. Funding Agency. Funding Agency - NIH and DBT. Total cost : 20 lakhs. Status: completed.(2011-2014)
5. International Stroke Perfusion Imaging Registry-Collaborative registry between University of Newcastle stroke research program and SCTIMST. **Principal Investigator** : Dr.P.N.Sylaja. Funding Agency: National Health and Medical Research Council of Australia. Total cost: 6 lakhs. Status: Completed .(2012-2019)
6. Effectiveness of computer-based language therapy software (Malayalam version) for post stroke patients with aphasia. **Principal Investigator** : Dr.P.N.Sylaja Funding Agency: Centre for disability studies, Government of India. Total cost: 4 lakhs.Status: Completed(2013-2016)
7. Self regulation of Brocas area using real time fMRI in post stroke aphasia patients. **Co-investigator .P.N Sylaja.** Funding Agency: Department of Biotechnology,Govt of India.Total cost.-9 Lakhs.Status: completed.
8. The ATTEND- Trial- Family led rehabilitation of stroke in India. **Site Principal Investigator** : Dr.P.N.Sylaja Funding Agency: National Health and Medical Research Council of Australia. Total cost: 9 lakhs. Status: Completed.(2014-2016)
9. Evaluating barriers and facilitators to stroke prevention to guide implementation research. **Principal investigator: Dr.P.N Sylaja.**Funding Agency : Fogarty NIH funding .Total cost :1.6 lakhs. Status: Completed (Feb 2016 –March 2017).
10. Head Position in Stroke trial(Head Post)-**Site Principal Investigator : Dr.P.N Sylaja.** Funding Agency: George Institute of Global Health.Total cost:2 lakhs.Status: Completed. (June 2016-March 2017)
11. Development and validation of a comprehensive clinical and neuropsychological test battery for use in Indian context for patients with vascular cognitive impairment .**Co-Investigator:** Dr.P.N Sylaja Funding Agency-Indian Council of Medical Research.Status: Completed.
12. Portable optical brain computer interface and orthosis for movement restoration after stroke (OPTOSIS)- Indo –European project. **Co- Investigator: Dr.P.N Sylaja.** Total cost : 43 lakhs.Funding Agency: DBT. Status: Completed .(2014-2016.)
13. Apolipoprotein B and A1 in ischemic stroke subtypes. **Principal investigator-Dr P.N Sylaja.** Funding Agency: Public Health Foundation of India. Total cost: 7 Lakhs. Status: Completed (August 2016- Nov 2018)

14. Inflammatory biomarkers as predictors of stroke recurrence in symptomatic intracranial atherosclerotic disease. **Principal Investigator :P.N Sylaja**. Funding agency: Kerala Assn of Neurologists. Total cost: 1 lakh. Status: Completed (October 2016- Oct 2018)
15. EXCOA –CVT study . **Site Principal Investigator :Dr.P.N Sylaja**. Funding Agency:University of Lisboa, Portugal.Total cost 100 Euros per patient . Status: Ongoing
16. Community health worker based intervention to improve secondary prevention in post stroke patients in Thiruvananthapuram. **Principal investigator : Dr P.N Sylaja**. Funding Agency : Government NCD program. Total Cost: Rs 1000000/- Status: Completed (December 2017-Dec 2018)
17. **Secondary Prevention By Structured Semi-Interactive Stroke Prevention Package in INDIA (SPRINT INDIA) Study .Site Principal investigator – Dr .P.N Sylaja**, Funding agency – ICMR. Total cost – 1500000/-Status- Completed (Sep 2017 – March 2022.)
18. Establishment of the Indian Stroke Clinical trial Network. **Site Principal investigator – Dr .P.N Sylaja**, Funding agency – ICMR. Total cost – 54,00000/-Status- Completed (Sep 2017 – 2022)
19. Monitoring early neurological deterioration in hyperacute stroke. **National PI- Dr P.N Sylaja** Funding agency: Australian .Total cost – 1200 Australian dollars. Status: Completed (March 2018- June 2019)
20. Implementation of best practice stroke care in India. Collaboration with University of Lancashire **Principal investigator – Dr.P.N Sylaja**. Funding agency : National Institute for Health Research(NIHR),UK.Total Cost: 1.9 Million Pounds. Role: PI. Status: Completed (June 2018 – June 2022)
21. Understanding phenotypes in moyamoya disease by resequencing 17q25ter region- An imaging genomics approach – **Role- Co PI** Funding Agency : Welcome DBT – Total Cost – 40 Lakhs- Status- Completed (Jan 2018-Jun 2019)
22. Ayurvedic treatment in the rehabilitation of ischemic stroke patients in India-A randomized controlled trial.(RESTORE trial) (June 2018 – March 2022) **Role- National PI,Dr P,N Sylaja**.Funding agency –ICMR .Total cost: 1.9 crores/- Status-Completed
23. Premorbid nutritional status and development of a nutritional software for ischemic stroke patients. (October 2018-Oct 2019) **Role PhD guide**. Total cost – 100000/- Status-competed
24. Hospital Based stroke registry NCDIR Role-**Principal investigator PN Sylaja**- Funding agency- ICMR NCDIR Bengaluru.Status- Ongoing – 2019-continuing
25. Development of an AI based system for comprehensive cerebral arterial stroke imaging and prognostication. **Role Co-investigator**.Status :Ongoing
26. Biomarkers in predicting the risk of Haemorrhagic transformation of infarct in acute ischemic stroke. **Role-Co PI**, Funding agency – Institute TDF funding.Total cost – 500000/- Status – Completed

27. Community healthworker based secondary prevention in community for stroke patients in Kollam district. **Principal investigator : Dr P.N Sylaja**. Funding Agency : Government NCD program. Total Cost: Rs 1000000/- Status: Completed (November 2021-Nov 2022)
28. A Comprehensive Framework for Treatment of Impairment of Upper Extremity due to Stroke by Combining Computational Modeling and Virtual Reality. **Principal investigator:Dr P.N Sylaja**.Funding agency :UAY scheme of IIT Chennai and MHRD.Total cost : 5800000/-Status: Ongoing.(2021-2023)
29. Improving stroke care in India - Advancing the INSTRUCT operations and Network.(IMPROVIZATION)-**Principal investigator :Dr.P.N Sylaja** Funding agency :National Institute for Health Research ,UK .Status:Completed.Total cost : Rs 1400000/-(2021-2022)
30. Early vs late initiation of direct oral anticoagulation in post ischemic stroke patients with AF . (ELAN)**National Prinicpal investigator :Dr.P.N Sylaja**.Funding agency:Inselspital University Hospital,Bern.Total cost :1000000/-Status:Completed (2021-2023)
31. Edoxaban for intracranial haemorrhage survivors with AF (ENRICH AF)- **Site Principal investigator-Dr .P.N Sylaja** IEC approval done .Status : Ongoing .(2022-2024)
32. Prospective registry for assessment of AIS patients treated with neurothrombectomy devices in India(PRAAN) – **Principal investigator: Dr P N Sylaja** Funding agency – Medtronic -IEC approval pending.Status : Ongoing (2021-2023)
33. Medication adherence and management of risk factors for secondary prevention of stroke using smart phone based application- a feasibility study.**Co PI- Dr PN Sylaja**.Funding agency -World Stroke Organization – Total cost.Rs1400000/-Status – Ongoing
34. Establishment of the Indian Stroke Clinical trial Network(INSTRUCT 2) **Principal investigator – Dr .P.N Sylaja**, Funding agency – ICMR. Total cost 1,34,20,109/- Status- Ongoing (April 2022-2027)
35. A whole exome sequencing study to identify novel gene variants in Moyamoya disease in Indian population- **Principal investigator -Dr P N Sylaja** .Funding agency -ICMR.Total cost – 3800000/- Status- ongoing
36. A randomized trial of long term dual versus single antiplatelet therapy in patients with intracranial atherosclerotic disease.RESTENOSIS **Site Principal investigator: Dr PN Sylaja**. Funding agency -ICMR..Status Ongoing.
37. A randomized trial of biosimilar TNK vs tPA during EVT for AIS due to Large vessel occlusion -REOPEN.**Site Principal investigator: Dr PN Sylaja**. Funding agency -ICMR.Total cost :14,00000/-..Status : to be started
38. The Indian trial of Tranexamic acid in Spontaneous intracerebral haemorrhage (INTRINSIC trial) **Site Principal investigator – Dr PN Sylaja** -Funding agency – ICMR .Status – Ongoing

Internal funded projects

1. Autonomic dysfunction in first ever ischemic stroke –Prevalence,predictors and short term neurological and cardiovascular outcome. A prospective study. **Co Principal Investigator** :Dr.P.N.Sylaja.Total cost: 1.5 lakhs.Status: completed.
2. Multimodality plaque imaging. comparison of USG,CT and MRI. **Co-investigator.Dr P.N Sylaja.** Total cost: 50,000/- .Status: Completed.

Internal projects (not funded)

- 1) Prevalence of microbleeds and correlation with stroke subtype-
- 2) Admission hyperglycemia and its control as a predictor of the functional outcome after acute ischemic stroke- completed
- 3) Factors influencing return to work after stroke – completed-
- 4) Post stroke fatigue in stroke survivors – completed
- 5) CT angiogram as a predictor of outcome of patients with symptomatic internal carotid artery occlusion- completed
- 6) Videofluoroscopy in the assessing dysphagia post stroke and planning management strategies
- 7) CTASI in predicting the final infarct volume in acute stroke-completed
- 8) Asymptomatic carotid stenosis-risk of cardiac events and stroke -completed-
- 9) Comparison of antiplatelets vs anticoagulation on outcome in extracranial carotid and vertebral dissection- completed-
- 10) The predictive value of clot burden score and collateral score in the outcome of patients with acute anterior circulation stroke-completed
- 11) Hyperglycemia and outcome in acute intracerebral haematoma- completed
- 12) The study of vascular risk factors as a predictor of white matter disease in patients with acute ischemic stroke-Completed
- 13) Primary angitis of CNS - clinical profile and outcome. – Completed
- 14) Utility of high resolution contrast enhanced Magnetic Resonance Imaging for intracranial arterial vessel wall imaging in differentiating intracranial vasculopathic diseases in ischemic stroke – Completed
- 15) Short term and long term risk of stroke and cardiac events after transient ischemic attack – Completed

- 16) CT swirl sign as a predictor of haematoma expansion and functional outcome in spontaneous ICH – Completed
- 17) Swallowing impairments in patients with acquired neurological disorders – Completed
- 18) Comparison of Intracranial atherosclerotic disease in US and India- Completed
- 19) Efficiency of comprehensive stroke care program in improving the door to needle time in thrombolysis- Completed
- 20) Sex differences in stroke presentation, subtypes and outcome – Completed
- 21) Wakeup strokes- clinical profile and outcome- completed
- 22) MRVWI in MCA disease – completed
- 23) Factors predicting leptomeningeal collateral status in patients with acute ischemic stroke- Completed
- 24) CT perfusion and collaterals in predicting outcome after ischemic stroke.completed-
- 25) Influence of 24 hour blood pressure on outcome in patients receiving intravenous thrombolysis for acute ischemic stroke.-completed
- 26) MRVWI in PACNS -completed
- 27) Clinical profile and outcome of patients with PACNS in a single centre in South India.- completed
- 28) Stroke patterns and outcome during COVID pandemic compared to prepandemic era-completed
- 29) Risk factors, etiology and outcome in young stroke- Completed
- 30) MR plaque imaging in predicting the high risk plaque and diagnostic accuracy with histopathology in symptomatic carotid stenosis- Ongoing
- 31) Thrombus characteristics in predicting the recanalization and outcome in patient undergoing EVT- Ongoing
- 32) CEA – clinical profile,short term and long term predictors of outcome- Completed
- 33) The prevalence of substenotic carotid stenosis in ESUS and its outcome.
- 34) Predictors of Haemorrhagic transformation and outcome after IVT
- 35) Focal arteriopathy of the young-Clinical profile, imaging characteristics and outcome
- 36) Thrombus histology in predicting stroke subtype and recanalization**

Conferences organized

- 1) Organizing secretary of the **KAN monsoon summit -International update 2023** organized by the Kerala Association of Neurologists on July 14to 16th 2023 at Hyatt Kochi.

- 2) Course director of **the Asian stroke summer school 2022** organised by ISIR and Department of Neurology with University of Bern, Switzerland on Dec 8th to 11th 2022.
- 3) Organizing chairperson of the **Annual conference of the Kerala Association of Neurologists** on 2022
- 4) Course director of the **Calgary Stroke Distance Learning Program** from September 2021 to April 2022.
- 5) Organizing secretary of the **International Stroke Conference on Essentials of stroke care** on November 17th and 18th 2018 in Thiruvananthapuram
- 6) Organizing secretary of the **National Stroke summer school of the Indian Stroke Association** held in August 2017 at Chennai.
- 7) Organized a **National conference on nursing management in stroke -one step ahead** with nursing division of SCTIMST on January 23rd and 24th 2015.
- 8) Organizing secretary of the **9th National conference of the Indian Stroke Association** held on March 14th to 16th 2014 at Trivandrum.
- 9) Organized a workshop on **Post-hospital stroke physiotherapy** on 15th July 2012 along with Physiotherapy department, SCTIMST
- 10) Organized a **Stroke Update 2011** on 30th October 2011 for general physicians and neurologists at SCTIMST, Trivandrum
- 11) Organized a **Stroke Update 2010** on October 29th 2010 for the general physicians and neurologists at SCTIMST, Trivandrum.
- 12) Was organizing secretary of the **International Stroke Update** on January 16- 17th 2009 at Taj, Vivanta, Trivandrum.

Other conferences

1. State level nursing conference for stroke management on March 1st 2020 at SCTIMST with DHS and Nursing division at SCTIMST
2. Organized the **World stroke day nurses training program on stroke unit care** on October 31st 2021
3. Organized the **State level nursing conference on stroke care** on June 10th 2023 with Nursing division and NCD

PhD guide students

Soumya Krishnamoorthy- (Completed)

Veena Babu

Rinta Paul

Dr Lakshmi

PhD coguide students

Sujaraj

Ms Shani

DAC member of PhD

1. Mr Arun
2. Mr Sujeesh
3. Anjali

Reviewer of Journals and proposals

- 1.National Institute for Health Research -- proposal reviewer
- 2.Cerebrovascular diseases
- 3.AIAN
- 4.Neurology India
- 5.Neuroradiology
- 6.American Journal of Neuroradiology
- 7.Journal of Stroke and Cerebrovascular Diseases
- 8.Stroke
- 9.Cerebrovascular diseases Extra