

## List of Intramural and extramural projects in Department

### A. Completed (Title/Funding agency/Durations/Starting- ending date)

1. Comparative Trial of Ayurvedic And Allopathic Treatment For Spasticity And Paralysis- A Randomized Controlled Study - Indian System of Medicine (ISM), Ministry Health and Family Welfare (Prof MV Padma Srivastava, 2000)
2. Evaluation of Temporal Lobe Epilepsy using C-11 –Flumazenil and 18-F- FDG PET- Wallace Kettering Neurosciences Center, Kettering, USA (Prof MV Padma Srivastava, 2000)
3. Retrospective Comparative Study of Human Glioma, Brain Tumors- PET data analysis of different tracers (18F-FDG; Methionine, Choline) In Brain tumors- Department of nuclear medicine, Kettering Medical Center, Kettering, USA (Prof MV Padma Srivastava, 2000)
4. Open-label randomized trial to evaluate the efficiency of AYUSH-56 as add-on drug in intractable partial epilepsy- Indian Systems of Medicine (ISM), Ministry of Health and Family Welfare (Prof MV Padma Srivastava, 2002)
5. Stroke Risk Factors and Subtypes In High Altitudes: A Prospective Study in Ladakh- Ladakh Autonomous Hill Development Council (Prof MV Padma Srivastava, 2004)
6. An Open Label, Randomized, Parallel Group, Multicenter Study To Evaluate the Efficacy and Safety of Enoxaparin Versus Unfractionated Heparin in the prevention of Venous Thromboembolism In Patients Following Acute Ischemic Stroke- The PREVAIL study Aventis Pharma (Prof MV Padma Srivastava, 2004)
7. Autologous Intra-arterial infusion of bone marrow stromal cells (BMCs) for Static encephalopathy- DST (Prof MV Padma Srivastava, 2007)
8. Normobaric Oxygen therapy in acute ischemic stroke: A pilot study in Indian patients- ICMR (Prof MV Padma Srivastava, 2007)
9. Stroke Survey and Incidence of Recurrent Stroke After Coversyl Based Treatment in Indian Clinical Practice: The PROTECT study- Serdia (Prof MV Padma Srivastava, 2003-2004)
10. Effects of Non-ionizing Electro Magnetic field (EMF) on human heal- ICMR (Prof MV Padma Srivastava, 2010-2020)
11. Predicting functional Outcome after acute Stroke: Evaluation of a module of clinic-radiological parameters and growth factors in Asian Indians- DST (Prof MV Padma Srivastava, 2012-2015)
12. INDO US collaborative Stroke Registry and Infrastructure Development (N 1410)- DBT (Prof MV Padma Srivastava)
13. Study on role of intensive physiotherapy and TMS on growth factors as biomarkers for stroke recovery- ICMR (Prof MV Padma Srivastava, 2012-2015)
14. Comparative trials of constrained induced movement therapy (CIMT) and CIMT with transcranial magnetic stimulation (TMS) for patients with stroke measured on disability outcome scales and functional imaging- DST (Prof MV Padma Srivastava, 2013-2016)

15. ATTEND Trial-Family led rehabilitation after stroke in India- National Health and medical Research Council Australia (Prof MV Padma Srivastava, 2013-2016)
16. Knowledge, Attitude And Practices About Epilepsy And Stroke In Ladakh: Training And Dissemination Of Information To Community, Teachers, School Children And Paramedical Staff- DST (Prof MV Padma Srivastava, 2014-2016)
17. Study of Paracrine Mechanisms of autologous Stem cells Transplantation in stroke using bio-functional markers (Prof MV Padma Srivastava as a Mentor to the DST Inspire Faculty Awardee, 2013-2018)
18. Development of diagnostic grid for prediction of infarction in patients with tuberculous meningitis –DST (Prof MV Padma Srivastava, 2015-2019)
19. Randomized, double-blind evaluation in secondary stroke prevention comparing the efficacy and safety of the thrombin inhibitor dabigatranetexilate 110 or 150 mg (twice daily) versus acetylsalicylic acid (100 mg once daily) in patients with embolic stroke of undetermined source (ESUS 1160.189)- Boehringer Ingelheim Pvt Ltd (Prof MV Padma Srivastava, 2016-2019)
20. Effect of Dual-Task Exercise in Conjunction with Fluoxetine & Transcranial Direct Current Stimulation (tDCS) on Postural Stability and Gait in Stroke Patients- ICMR (Prof MV Padma Srivastava, 2017-2019)
21. Mapping, Researching And Addressing The Gaps In Scientific Awareness & Health Practices Regarding Stroke In Hp: Applying Novel, Interactive/Demonstrative Science Communication- DST (Prof MV Padma Srivastava, 2016-2019)
22. Effect Of Yoga On Physical, Physiological And Functional Health In Post Stroke Recovery: A RCT- DST (Prof MV Padma Srivastava, 2017- 2019)
23. Understanding and facilitation of neural plasticity for enhancing post stroke recovery using low cost non-invasive brain stimulation techniques- DHR (Prof MV Padma Srivastava, 2017-2020)
24. A 12 Week double blind, randomized multi-centric study comparing the efficacy and safety of once monthly subcutaneous AMG 334 against placebo in adult episodic migraine patients (EMPOWER)- NOVARTIS (Prof MV Padma Srivastava, 2018-2019)
25. Center of Excellence and Magneto encephalography resource facility Phase I (Prof. Manjari Tripathi)
26. A Prospective, Multicentric, Randomized, Double Blind, Parallel, Saline Controlled Phase II Clinical Study to Compare the Safety and Efficacy of PMZ-1620 Therapy along with Standard Supportive Care in Subjects of Acute Ischemic Stroke- Pharmazz India Private Limited (Dr Deepti Vibha, 2017-2019)
27. Identification of genetic causal and risk alleles in Amyotrophic lateral sclerosis and ALS-frontotemporal dementia- AIIMS Intramural grant (Dr Deepti Vibha, 2015-2018)
28. Determination of the role of persistent viral infection in patients of monomelic amyotrophy (MMA)- AIIMS Intramural Research Grant. (Dr Deepti Vibha, 2013-2016)

29. BRAHMI (Bacopa Monnieri) for Dementia due to Alzheimer's Disease- Systematic Review and Meta-analysis-ICMR (Dr Vishnu VY, 2021-2022)
30. Deciphering the role of ATF3 and TGF $\beta$  signalling in Mesial Temporal lobe epilepsy (MTLE) patients- AIIMS Intramural Research Grant. (Dr Rajesh Kumar Singh, 2018-2020)
31. A cross-sectional study on the impact of discontinuance of elective health services and initiation of Telemedicine services due to COVID-19 pandemic on patients under follow up in Neurology OPD at a tertiary care centre-AIIMS Intramural Research Grant (Dr Elavarasi A, 2020)
32. Botulinum toxin injection for treatment of dystonic hand tremor: a randomized, placebo-controlled, parallel group trial- AIIMS Intramural Research Grant (Dr Roopa Rajan, 2018-2020)
33. Automated hand-drawn spiral analysis platform as a tool to differentiate tremor syndromes -DST SERB (Dr Roopa Rajan, 2017-2020)
34. An exploratory study to identify candidate CSF biomarkers in Idiopathic Intracranial hypertension with or without vision loss. AIIMS Intramural Research Grant (Dr Awadh Kishor Pandit, 2018-2020)
35. Intracranial Mucormycosis in COVID-19 patients – a case control study. AIIMS Intramural Research Grant (Dr Awadh Kishor Pandit, 2021)
36. Citicoline in Acute Ischemic Stroke undergoing revascularization therapy (CAISR): AIIMS Intramural Research Grant (Dr. Vishnu VY, 2017)
37. Comparison of diagnostic accuracy between neurology residents and a novel neurology app on an iOS platform: A multicentre cross sectional observational study (Dr. Vishnu VY)
38. International Neuromuscular COVID database (National Co-ordinator: Dr. Vishnu VY)

**B. Ongoing (Title/Funding agency/Durations/Starting- ending date):**

1. Is Air Pollution and climate change a Stroke Risk Factor? With special reference to Stroke in Young Indians and ischemic stroke subtypes: A multi-centre study- DST (Prof MV Padma Srivastava, 2018-2022)
2. The National Institute for Health Research Global Health Research Group on improving stroke care in India at The University of Central Lancashire. IMPROVingStroke CarEin India (IMPROVISE)- NIHR-UCLAN-UK (Prof MV Padma Srivastava, 2018-2022)
3. EFC16045/HERCULES-SNOFI (Prof MV Padma Srivastava, 2021-2024)
4. EFC16035/PERSUS-SNOFI (Prof MV Padma Srivastava, 2021-2024)
5. Improving stroke care in India-Advancing the operations and network (IMPROVISATION)- NIHR-UCLAN-UK (Prof MV Padma Srivastava, 2021-2022)
6. Smartphone based Telestroke Vs 'Stroke Physician' led Acute Stroke Management (SMART INDIA): A cluster randomized trial- DHR (Prof MV Padma Srivastava, 2020-2022)
7. Center For Advanced Research and Excellence (Care): Center for Neuro-assistive

- Technologies for Stroke Recovery (Collaborators: Biomedical Engineering Department, IIT Delhi)- ICMR (Prof MV Padma Srivastava, 2021-2026)
8. ICGMND: Chairman of the International Center for Genomic Medicine for Neuromuscular Diseases for AIIMS, India in a MOU with UCL, London, UK (Prof MV Padma Srivastava, 2021-2024)
  9. Efficacy of yoga in improving Immunity: Sytematic Review and Meta – Analysis-DST ((Prof MV Padma Srivastava, 2021-2022)
  10. Center of Excellence and Magneto encephalography resource facility Phase II (Prof. Manjari Tripathi)
  11. Yoga and Epilepsy-DST (Prof. Manjari Tripathi)
  12. Insomnia- ICMR (Prof. Manjari Tripathi)
  13. AADAR-Aging and cognitive decline-DBT (Prof. Manjari Tripathi)
  14. Determination of efficacy of 9 months, 12 months and 18 months of Anti-Tubercular Treatment (ATT) for Tuberculous Meningitis (TBM): A randomized controlled, non-inferiority trial- DHR (Dr Deepti Vibha, 2019-)
  15. A prospective, multicentric, randomized, double blind, parallel, phase III clinical study to assess efficacy of PMZ-1620 along with standard treatment in patients of acute ischemic stroke -Pharmazz India Private Limited (Dr Deepti Vibha, 2019-)
  16. Blood based protein biomarkers for the prediction of stroke outcome using high throughout proteomics approach-AIIMS Intramural Research grant (Dr Deepti Vibha, 2019-)
  17. A randomised double blind study of prophylactic levetiracetam for the prevention of post stroke seizures (PROLEVIS) – DST SERB (Dr Vishnu VY)
  18. Machine Learning model for early diagnosis of stroke in resource limited settings: Pilot study: A collaborative project with IIT Delhi-DBT (Dr Vishnu VY)
  19. Identification of pathobiological and disease activity markers in Primary CNS Vasculitis-ICMR (Dr Vishnu VY)
  20. Prevention of post-stroke seizures with Levetiracetam in Intracranial Cerebral Venous Sinus Thrombosis (PROLEVIS-CVT): A Randomized Placebo-Controlled Trial-DHR (Dr Vishnu VY)
  21. Identification of genetic vasculopathies among a cohort of Primary CNS Vasculitis using whole-exome sequencing (AIIMS Intramural research grant; Dr Vishnu VY)
  22. AIIMS Primary CNS Vasculitis Registry (Dr Vishnu VY)
  23. GBS Consortium (Dr Vishnu VY)
  24. The first investigation of the genetic causes of Facioscapulohumeral muscular dystrophy (FSHD) in the Indian population-AIIMS-UCL Intramural grant (Dr Vishnu VY)
  25. Establishing Organized Stroke Care In Low-And-Middle Income Countries: From Training of Non-Specialist to Implementation -WSO FLP Grant (Dr Vishnu VY, 2021-)
  26. CSF inflammatory markers in the diagnosis of autoimmune encephalitis- AIIMS Intramural Research grant (Dr Rajesh Kumar Singh, 2021-)

27. Efficacy and safety of Cyclophosphamide in treatment of refractory proliferative arachnoiditis in Central nervous system Tuberculosis A Randomized placebo controlled Trial- AIIMS Intramural Research grant (Dr Elavarasi A, 2020-)
28. Evaluation of effects of repetitive rTMS at supplementary motor area (SMA) in Parkinson's disease patients with freezing of gait (FOG)- A randomized sham controlled study-ICMR (Dr Divya MR & Dr Elavarasi A, 2021-2024)
29. Awareness of Head Injury while driving in patients with epilepsy: A Preventive and Public Education Study- ICMR (Dr Divya MR 2019-2023)
30. Clinical and genetic profile of patients with Huntington's disease and other hereditary choreas- AIIMS Intramural research grant (Dr Divya MR, 2020-)
31. The Role Of Educational Intervention On Improving Diagnosis And Treatment Of Central Nervous System Tuberculosis–A Cluster Randomized Trial (RED-TB Trial), World Federation of Neurology Grant in Aid 2021 (Dr Divya MR, 2021-2023)
32. Genetic Architecture of Parkinson's disease in India (GAP-India)- Michael J Fox Foundation (Dr Roopa Rajan, 2019-2022)
33. The Indian Movement Disorder Registry and Bio bank: clinical and genetic evaluation in Indian patients with movement disorders-DBT, (Dr Roopa Rajan, 2018- 2021]
34. Unravelling the genetic landscape of Indian dystonia: a chromosomal microarray approach-AIIMS Intramural Research Grant (Dr Roopa Rajan, 2021- 2023]
35. Spiral Dx: Tremor diagnosis and quantification using artificial intelligence – DBT (Dr Roopa Rajan, 2021- 2024]
36. Exploring the electrophysiological signatures of Essential Tremor and Essential Tremor Plus- AIIMS-UCL Collaborative Grant (Dr Roopa Rajan, Jan 2021- Dec 2021)
37. Fondaparinux compared to low molecular weight heparin for post ischemic stroke thromboprophylaxis: A randomized clinical trial and pilot study- Indian Stroke Association Research Grant (Dr Ayush Agarwal, 2021)
38. Bridging therapy with intravenous Alteplase in imaging eligible Acute Ischemic Stroke patients with onset between 4.5 to 9 hours – A Randomized Controlled, Pilot Study- AIIMS Intramural Research Grant (Dr Awadh Kishor Pandit, 2021-2023)
39. Cost-effective analysis of evidence based interventions underlying Acute Ischemic Stroke: A Retrospective Study of Patients in a Tertiary Care Hospital, Delhi, India- DHR (Dr Awadh Kishor Pandit, 2021-2023)
40. Efficacy And Safety of Injection Tenecteplase in 4.5 To 24 hours imaging Eligible Window patients with Acute Ischemic Stroke- DST (Dr Awadh Kishor Pandit, 2022)
41. To evaluate the prevalence and incidence of cognitive deficits, in relation to glycaemic control and other metabolic risk factors, in elderly patients with type 2 diabetes mellitus who are at high risk of dementia in comparison to age and gender matched normoglycemic subjects: prospective observational multicentre cohort study- ICMR (Dr Anu Gupta, 2019-2022)

42. Clinical and radiologic profile, risk associations, caregiver burden and clinical outcomes in early and late onset dementia- AIIMS Intramural Research Grant (Dr Anu Gupta, 2022-2023)
43. Dalfampridine for improving visual function in acute demyelinating/autoimmune optic neuritis- A randomized, placebo controlled phase 2 trial- Funded by DHR (Dr Animesh Das, 2022-2024)
44. HLA associated genetic predisposition for hypersensitivity to antiepileptic drugs in North Indians: A case control study – Funding- AIIMS Intramural research grant (Dr Animesh Das, 2021-2024)
45. Evaluation of rapid eye movement (REM) behavioural disorder in sporadic adult onset ataxia(SAOA)- A prospective observational study – Funding- ICMR ( Dr Animesh Das, 2021-2024)