

DR. JAYANTA ROY

Director & Head - Neurology

Qualification

MBBS | MD (Internal Medicine) | DM (Neurology) | FRCP (London) | Cerebrovascular Fellow (Canada)

Overview

Dr. Jayanta Roy is an esteemed consultant specialist in the Department of Neurology at Manipal Hospitals, Mukundapur. With more than 24 years of experience in the field of Neurology, he has gained deep expertise in diagnosing and treating stroke and other neurological conditions. At Manipal Hospitals, Mukundapur, he manages a comprehensive stroke program and also serves as the Advisor (Neurology) and Director of Academics and Research at Manipal Hospitals, Eastern Region. His medical journey began with earning his MBBS from National Medical College, Kolkata, in 1991. He then pursued postgraduate studies in Internal Medicine (MD) at S.C.B. Medical College, Cuttack, completing it in 1997. Following this, he underwent Neurology training at Bangur Institute of Neurology, Kolkata, and was awarded a speciality degree in Neurology (DM) from the University of Kolkata in 2001. Specialising in stroke, Dr. Roy enhanced his expertise through a two-year postdoctoral fellowship at the University of Calgary, Canada. During this fellowship, he also received training in Neurovascular Ultrasound (Transcranial Doppler) and became a certified neurosonologist, accredited by the American Society of

Neuroimaging (ASN). Dr. Roy, the best Neurologist in Mukundapur, Kolkata, has a keen interest in clinical and translational research focused on Stroke and Vascular Biology. His areas of expertise include young stroke associated with Moyamoya disease and other rare stroke aetiologies, stroke imaging, and stroke prevention strategies. He received the prestigious William McKinney Award from the Society of Neuroimaging, USA, for his research in Neurosonology. He was also honoured with a Fellowship from the Royal College of Physicians (FRCP), London. Dr. Roy is an Honorary Professor and Adjunct Faculty at the Ramakrishna Mission Vivekananda Educational and Research Institute (RKMVERI), School of Biological Sciences, Belur, Howrah, a Deemed University under the UGC Act of 1956. He is also a member of the Executive Committee of the Indian Stroke Association and serves as the Assistant Editor of the Annals of the Indian Academy of Neurology (IAN). Dr. Roy has contributed to the field of neurology with several noteworthy research papers published in esteemed national and international journals. Fluent in English, Bengali, and Hindi, he ensures clear communication and personalised care to his patients. His expertise, coupled with a compassionate approach, makes him a trusted choice for neurological care at Manipal Hospitals.

Fellowship & Membership

- Postdoctoral Fellowship at the University of Calgary, Canada
- Fellowship from the Royal College of Physicians (FRCP), London
- Member of the Executive Committee of the Indian Stroke Association (ISA)
- Member of the Indian Academy of Neurology (IAN)
- Member of the World Stroke Organisation (WSO)
- Member of the European Stroke Organisation (ESO)

Field of Expertise

- Extensive experience in diagnosing and treating complex neurological conditions, including cerebrovascular disorders.
- Expertise in clinical and translational research focused on stroke and vascular biology.
- Skilled in managing young stroke associated with Moyamoya disease and other rare stroke aetiologies, stroke imaging, and stroke prevention strategies.

Languages Spoken

- Bengali
- English
- Hindi

Awards & Achievements

- Received the Prestigious William McKinney Award by the Society of NeuroImaging, USA, for his research in Neurosonology.
- Trained in Neurovascular Ultrasound (Transcranial Doppler) and Holds Certification as a Neurosonologist.

Talks & Publications

- Geo-spatial analysis of acute ischemic stroke reperfusion treatment in India: An assessment of distribution and access to centres, 2025, International Journal of Stroke
- RE-OPEN: Randomised trial of biosimilar TNK versus TPA during endovascular therapy for acute ischaemic stroke due to large vessel occlusions, 2024, BMJ Neurology Open

- Expert Consensus on Improving Stroke Care Ecosystem in India, 2024, Journal of Stroke Medicine
- Investigating the Brain Activity Correlates of Humming Bee Sound during Bhramari Pranayama, 2023, Annals of Indian Academy of Neurology
- Position statement from the Indian Society of Gastroenterology, Cardiological Society of India, Indian Academy of Neurology and Vascular Society of India on gastrointestinal bleeding and endoscopic procedures in patients on antiplatelet and/or anticoagulant therapy, 2023, Indian Journal of Gastroenterology
- Artificial intelligence in the diagnosis and management of acute ischemic stroke, 2022, Augmenting Neurological Disorder Prediction and Rehabilitation Using Artificial Intelligence
- INSTRuCT, 2021, Stroke
- Clinical Features and Outcome of Stroke with COVID-19. COVID-19 Stroke Study Group (CSSG), India, 2021, Annals of Indian Academy of Neurology
- Clinical profile and outcome of non-COVID strokes during pandemic and the pre-pandemic period: COVID-Stroke Study Group (CSSG) India, 2021, Journal of the Neurological Sciences
- DWI Paradox in Acute Stroke - A Case with FLAIR Positive but DWI Negative Stroke in Anterior Circulation, 2020, International Journal of Stroke
- Profile of Young Stroke Patients from a Single Center Stroke Registry of Fifteen Hundred Patients from Eastern India, 2020, International Journal of Stroke
- Profile, Risk Factors, and In-Hospital Outcome of Minor Stroke and TIA Patients from a Single Tertiary Care Hospital Stroke Registry Over 1500 Patients in India, 2020, International Journal of Stroke
- Secondary Prevention by Structured Semi-Interactive Stroke Prevention Package in India (SPRINT INDIA) study protocol, 2020, International Journal of Stroke

- Calculation of Prognostic Scores, Using Delayed Imaging, Outperforms Baseline Assessments in Acute Intracerebral Hemorrhage, 2020, Stroke
- Redefining Hematoma Expansion with the Inclusion of Intraventricular Hemorrhage Growth, 2020, Stroke
- Independent Validation of the Hematoma Expansion Prediction Score: A Non-contrast Score Equivalent in Accuracy to the Spot Sign, 2019, Neurocritical Care
- New and Expanding Ventricular Hemorrhage Predicts Poor Outcome in Acute Intracerebral Hemorrhage, 2019, Neurology
- Establishment of the Indian Stroke Clinical Trial Network (INSTRUCT), 2018, International Journal of Stroke
- Independent Validation of the Hematoma Expansion (HEP) Score: A Non-contrast Prediction Tool for Intracerebral Hemorrhage, 2018, International Journal of Stroke
- Profile, Risk Factors, and Acute Outcome of Over 1100 Stroke Patients from a Single Tertiary Care Hospital Registry in Eastern India, 2018, International Journal of Stroke
- Cut Stroke in Half: Polypill for Primary Prevention in Stroke, 2018, International Journal of Stroke
- Lack of Early Improvement Predicts Poor Outcome Following Acute Intracerebral Hemorrhage, 2018, Critical Care Medicine
- Do Intracerebral Hemorrhage Nonexpanders Actually Expand Into the Ventricular Space?, 2018, Stroke
- Prevalence of Extra and Intracranial Large Vessel Atherosclerosis in Patients with Acute Ischemic Stroke - A Hospital Based Study from Eastern India, 2017, Cerebrovascular Diseases
- The Acute ICH Growth Score: Simple and Accurate Predictor of Hematoma Expansion in Patients with Acute Intracerebral Hemorrhage, 2017, Stroke
- Location of Intracerebral Hemorrhage Predicts Hematoma Expansion, 2017, European Stroke Journal

- Lack of Early Improvement Predicts Poor Clinical Outcome Following Acute Intracerebral Hemorrhage, 2016, International Journal of Stroke
- Location of Hemorrhage Predicts Hematoma Expansion and Poor Clinical Outcome, 2016, Stroke
- Paradoxical Brain Herniation After Decompressive Craniectomy - A Timely Diagnosis Saves Life, 2016, International Journal of Stroke
- Ultraearly Hematoma Growth in Active Intracerebral Hemorrhage, 2016, Neurology
- Small Intracerebral Hemorrhages Have a Low Spot Sign Prevalence and Are Less Likely to Expand, 2016, International Journal of Stroke
- Intracerebral Hematoma Morphologic Appearance on Noncontrast Computed Tomography Predicts Significant Hematoma Expansion, 2015, Stroke
- Validation of the 9-Point and 24-Point Hematoma Expansion Prediction Scores and Derivation of the PREDICT A/B Scores, 2015, Stroke
- Ultrasound-enhanced Systemic Thrombolysis for Acute Ischemic Stroke, 2013, New England Journal of Medicine
- Prediction of Haematoma Growth and Outcome in Patients with Intracerebral Haemorrhage Using the CT-Angiography Spot Sign (PREDICT), 2012, The Lancet. Neurology
- Final 2-Year Results of the Vascular Imaging of Acute Stroke for Identifying Predictors of Clinical Outcome and Recurrent Ischemic Events (VISION) Study, 2011, BMC Cardiovascular Disorders
- Computed Tomography and Computed Tomography Angiography Findings Predict Functional Impairment in Patients with Minor Stroke and Transient Ischaemic Attack, 2009, International Journal of Stroke
- Defining the CT Angiography ‘Spot Sign’ in Primary

Intracerebral Hemorrhage, 2009, Canadian Journal of Neurological Sciences

- Triaging Transient Ischemic Attack and Minor Stroke Patients Using Acute Magnetic Resonance Imaging, 2005, Annals of Neurology
- Alberta Stroke Program Early CT Score (ASPECTS) Can Be Applied to Diffusion and Perfusion Weighted MR Imaging, 2004, Stroke