



## **DR. NIRMALYA RAY**

Consultant - Neuroradiology

### **Qualification**

MBBS | MD | DNB | DM | EBIR | EDiNR | EDSI | MNAMS

### **Overview**

Dr. Nirmalya Ray is a skilled Consultant in Neuroradiology and Interventional Radiology at Manipal Hospitals, Mukundapur, Kolkata, specialising in advanced neurovascular interventions and imaging. Holding an MBBS (2011), MD (2016), DNB (2018), DM (2019), EBIR (2021), EDiNR (2023), EDSI (2021), and MNAMS (2019), Dr. Ray brings a wealth of experience in diagnosing and managing complex neurological and vascular conditions. His expertise spans acute ischemic stroke management, carotid, vertebral, and intracranial stenting, mechanical thrombectomy, endovascular treatment of aneurysms, and embolisation for head and neck tumours. With an in-depth understanding of neuroradiological techniques, he has successfully treated numerous patients, significantly improving neurological outcomes. Dr. Ray is also a pioneer in intracranial stenting, streamlining procedures to enhance patient comfort and procedural efficiency. Leveraging global healthcare methodologies, he integrates the latest imaging technologies with minimally invasive interventions to deliver high-precision diagnostics and effective therapeutic solutions. His proficiency in mechanical thrombectomy has

saved lives by swiftly restoring blood flow in stroke patients, reducing long-term disabilities. Dr. Ray is also actively involved in research and has contributed to the advancement of neuroradiology through peer-reviewed publications in reputed medical journals. His meticulous approach to vascular interventions ensures optimal patient recovery while minimising procedural risks. His expertise in endovascular aneurysm management and complex neurovascular procedures has transformed the treatment landscape for patients with critical cerebrovascular disorders.

### **Fellowship & Membership**

- European Board of Interventional Radiology (EBIR)
- European Board certification for Interventional Radiologist
- European Diploma in Ischemic Stroke Intervention (EDSI)
- European Diploma in INTERVENTIONAL Neuroradiology (EDIINR)
- Member of the National Academy of Medical Sciences (MNAMS), 2019.
- Indian Radiological and Imaging Association (IRIA)
- Life Member - Indian Society of Vascular and Interventional Radiology (ISVIR)
- Active Life Member - Indian Society of Neuroradiology (ISNR) - Life Member.
- Society of Therapeutic Neuro-Intervention (STNI) - Life Member.
- World Federation of Interventional and Therapeutic Neuroradiology (WFITN) - Life Member.
- European Society of Neuroradiology (ESNR) - Life Member.
- European Society of Minimally Invasive Neurological Therapy (ESMINT) - Life Member.
- American Society of Neuroradiology (ASNR) Corresponding - Member.
- World Stroke Organisation (WSO) - Member.
- European Stroke Organisation (ESO) - Member.

- American Heart/Stroke Association (AHA/ASA) - Member.
- Radiological Society of North America (RSNA) - Life Member.
- European Society of Radiology (ESR) Corresponding - Member.
- Royal College of Radiology (RCR) - Life Member.
- British Institute of Radiology (BIR) - Life Member.
- Indian Medical Association (IMA) - Life Member.

### **Field of Expertise**

- Neurovascular intervention
- Cerebral/spinal DSA
- Aneurysm Coiling
- Mechanical Thrombectomy for Acute Ischemic Stroke
- Carotid Stenting
- Cerebral AVM/AVF Embolisation
- Intracranial Stenting
- Vertebral Artery Stenting
- Spinal AVF/AVM Embolisation
- Venous Sinus Stenting
- MMA Embolisation for chronic SDH

### **Languages Spoken**

- English
- Bengali
- Hindi

### **Awards & Achievements**

- Kishor Taori Gold Medal for the Best Paper in CT/MRI for the year 2018-19, awarded at the Indian Radiological Imaging

- Association (IRIA) 72nd annual conference,2019.
- Awarded the title of “Associate Professor, Neuroradiology” by Apollo Hospitals Educational and Research Foundation (AHERF), May 2023.
- 1st Prize in oral paper presentation in Neuro-radiology subspecialty, awarded at the Indian Radiological Imaging Association
- (IRIA) 72nd annual conference, 2019.
- 1st prize in a poster presentation at the Indian Society of Neuroradiology (ISNR), 2017 conference.
- Winner in the “Case Of The Day” session in the annual meeting of the American Society of Neuroradiology (ASNR), held in Washington, DC, on 21st- 26th May, 2016.
- Recipient of “Young Practitioner Grant” at LINNC, PARIS, 2019, held in Paris, France, on 3rd-5th June 2019.
- Recipient of “Young Practitioner Grant” at LINNC, Asia, Singapore 2022, held in Singapore, on 6th-7th December 2022.
- 2ND PRIZE in the quiz at PGIMER Interventional Neuroradiology Conference (PINCON), 2017.
- Junior Class Assistantship in Pharmacology awarded by the Department OF Pharmacology, Nil Ratan Sircar Medical College, Kolkata.
- Awarded by the Cardiovascular and Interventional Radiological Society of Europe (CIRSE) in 2021.
- Awarded by the European Society of Minimally Invasive Neurological Therapy (ESMINT) in 2021.
- Awarded by the European Society of Neuroradiology (ESNR) in 2023 and recognised by the European Union of Medical Specialists (UEMS) and the Council for European Specialists Medical Assessment (CESMA)

## **Talks & Publications**

- Ray N, Vyas S, Khandelwal N, Bansal R, Lal V. Papilloedema: Diffusion weighted imaging of optic nerve head. *Clin Radiol*. 2019 Aug;74(8): 652. e11-652.e19. doi: 10.1016/j.crad.2019.05.005.
- Vyas S, Ray N, Yadav MM, Kumar A, Singh P, Khandelwal N, Bhalla A, Sharma N, Sankhyan N, Muralidharan J. Pattern recognition approach to brain MRI findings in patients with dengue fever with neurological complications. *Neurol India*. 2020;68(5):1038-47. doi: 10.4103/0028-3886.294556.
- Ray N, Dhanasekaran J, Joseph S, Jella L. Tandem occlusion involving accessory middle cerebral artery in acute ischaemic stroke: management strategies. *BMJ Case Rep*. 2020 Feb 9;13(2).
- Ray N, Ahuja CK, Kumar A, Panda N, Singh P. Post-Tracheostomy Vascular Injury to the Anomalous Thymic Branch Managed by Endovascular Coiling. *Vascular and Endovascular Surgery*. 2021 Oct 8:15385744211051504.
- Ray N, Gorski U, Jugpal TS, Kanojia Ravi Prakash, Sandhu MS. Removal of proximally migrated double J ureteric stent through a percutaneous nephrostomy route in an infant. *Pediatr Urol Case Rep* 2020; 7(4):98-101.
- Malik P, Salunke P, Katariya M, Karthigeyan M, Ray N. Anomalous V3 Segment Aneurysm Associated with Congenital Atlantoaxial Dislocation: Case Report and Discussing the Challenges in Management. *World Neurosurg*. 2019 Jan; 121:59- 61. doi: 10.1016/j.wneu.2018.09.231.
- Pal R, Rai A, Vaiphei K, Gangadhar P, Gupta P, Mukherjee K, Singh P, Ray N, Bhansali A, Dutta P. Intracranial germinoma masquerading as secondary granulomatous hypophysitis: A case report and review of literature. *Neuroendocrinology*. 2019 Jul 4. doi: 10.1159/000501886.
- Praneeth K, Karthigeyan M, Salunke P, Ray N. Synchronal

- Fracture of the Posterior "Hemiarch" of Pediatric Atlas with Cerebrospinal Fluid Fistula following a Penetrating Neck Injury. *Pediatr Neurosurg*. 2019 Oct 10:1-4. doi: 10.1159/000503109.
- Hosur B, Vyas S, Suthar R, Mukherjee A, Ray N, Chandra T. Unusual cause of encephalopathy and seizures in a child. *Neurol India*. 2021;69(1):167-69. doi: 10.4103/0028-3886.310065.
  - Gupta P, Vyas S, Salan T, Jain C, Taneja S, Dhiman RK, Singh P, Ahuja CK, Ray N, Govind V. Whole brain atlas-based diffusion kurtosis imaging parameters for evaluation of minimal hepatic encephalopathy. *Neuroradiol J*. 2021;29:19714009211026924. doi: 10.1177/19714009211026924.
  - Chakraborty D, Ray N, Dey S, Bhaumik S. An Interesting Case of Acute Stroke: When Many Things Went Wrong, but the Patient Laughed at Last! *Journal of Stroke Medicine*. September 2021. doi:10.1177/25166085211046148.
  - Chakraborty D, Ray N, Goswami L, Bhaumik S, Dey S. COVID-19 and a mysterious case of transient cerebral arteriopathy. *Annals of Indian Academy of Neurology*. DOI:10.4103/aian.aian\_738\_21.
  - Pothula V, Ray N, Dhanasekaran J, Sunder S, Santhosh Joseph. Endovascular repair of transplant renal artery anastomotic site pseudoaneurysm using flow diverter stent. *Journal of Vascular and Interventional Radiology: JVIR*. 2022 Jun 9;S1051 0443. DOI: 10.1016/j.jvir.2022.05.027.
  - Chakraborty D, Dey S, Bhaumik S, Choudhary A, Karan K, Bhattacharjee P, Sen P, Mukherjee M, Pramanick G, Ray N, Biswas P. Serum homocysteine in intracerebral haemorrhage: A saviour or a destroyer? *Journal of Primary Care Specialities*. 2022 May 1; 3(2):33.
  - Chakraborty D, Bhattacharjee P, Dey S, Bhaumik S, Choudhary A, Karan K, Sen P, Mukherjee M, Pramanick G, Ray N, Chakrapani A. Blood counts and homocysteine in acute stroke:

What is the relation? Journal of Primary Care Specialities 2023:  
Jan.4(1):3-9

- Chakraborty D, Dey S, Ray N, Biswas D, Bhaumik S. Chronic systemic thrombosis of unknown etiology with concurrent essential thrombocythemia and recurrent stroke: A case report. Brain & Heart 2024, 2(3), 3741.