

Dr. Manu Mehdiratta, MD, FRCPC
Neurologist

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1.0 EDUCATION

2001 Doctor of Medicine (M.D), McMaster University, Hamilton, Ontario, Canada

1998 Bachelor of Arts, University of Western Ontario, London, Ontario, Canada

Postgraduate Training

2007 Fellowship, Stroke, Harvard Medical School, Boston, Massachusetts, United States of America, Supervisor: Louis Caplan

2006 Resident, Neurology, University of British Columbia, Vancouver, British Columbia, Canada. Supervisor: Jeff Beckman

2002 Intern, University of British Columbia, Vancouver, British Columbia, Canada. Supervisor: Stanley Hashimoto

Qualifications, Certifications & Licenses

2025- Certification in Catastrophic Impairment Evaluation -C-CAT (P) – successful completion of the C-CAT examination awarded by the Canadian Society of Medical Evaluators

2020- Current Member, Neurology, College of Physicians and Surgeons of Alberta, Edmonton, Alberta, Canada, #032925

2018- Current Member, Neurology, College of Physicians and Surgeons of Nova Scotia, Bedford, Nova Scotia, Canada, #017250

2015- Current Member, Neurology, College of Physicians and Surgeons of British, Vancouver, British Columbia, Canada, #27510

- 2008- Current Member, Neurology, College of Physicians and Surgeons of Ontario, Ontario, Canada, #88004
- 2006- Fellow, FRCPC, Neurology, Royal College of Physicians and Surgeons of Canada, Ontario, Canada
- 2005-08 Member, Neurology, Board of Registration in Medicine Commonwealth of Massachusetts, Wakefield, Massachusetts, United States of America
- 2002 Licentiate, National Board of Medical Examiners, Philadelphia, Pennsylvania, United States of America
- 2002 Certifications, NIH Stroke Scale, National Institute of Health (NIH), Bethesda, Maryland, United States of America

2. EMPLOYMENT

Current Appointments

Academic Appointments:

- 2017- Part-Time Assistant Professor, Division of Neurology, Faculty of Medicine, University of Toronto, Toronto, Ontario, Canada.
- 2015-23 Assistant Clinical Professor, Adjunct, Division of Neurology, Faculty of Medicine, McMaster University, Hamilton, Ontario, Canada

Clinical Appointments:

- 2019-24 Division of Neurology, Trillium Health Partners, Clinical Research Lead (lead for the advancement of research in the Division of Neurology)
- 2014 Co-Founder and Medical Director, Trillium Brain and Spine Institute, Mississauga, Ontario, Canada
- 2014 Co-Founder and Medical Director, iScope Concussion and Pain Clinics, Mississauga, Ontario, Canada
- 2008 Staff Physician, Clinician Investigator, Trillium Health Partners, Mississauga, Ontario, Canada

Clinical assessment and treatment of stroke, cerebrovascular syndromes, concussion and mild traumatic brain injury, headache syndromes (chronic migraines, trigeminal autonomic cephalgias), Parkinson's disease and other movement disorders, multiple sclerosis and other demyelinating syndromes, Alzheimer's disease and other dementias, seizures and epilepsy, myelopathy and spinal issues, radiculopathy, neuromuscular disorders (peripheral neuropathy, myasthenia gravis) and other neurological disorders)

Previous Appointments

Academic Appointments

- 2009-2016 Lecturer, Division of Neurology, Faculty of Medicine, University of Toronto, Toronto, Ontario, Canada.
- 2007-2008 Instructor, Division of Neurology, Harvard Medical School, Harvard Medical School, Boston, Massachusetts, United States of America

Clinical Appointments

- 2008-2010 Staff Physician, Division of Neurology, Oakville Trafalgar Memorial Hospital, Oakville, Ontario, Canada
- 2007-2008 Staff Physician, Stroke, Beth Israel Deaconess Medical Centre, Boston, Massachusetts, United States of America
- 2006-2007 Fellow, Stroke, Stroke, Beth Israel Deaconess Medical Centre, Boston, Massachusetts, United States of America
- 2001-2006 Resident, Neurology, Vancouver Hospital Health Sciences Centre, Vancouver, British Columbia, Canada.
- 2001-2002 Intern, Royal Columbian Hospital, New Westminster, British Columbia, Canada.

3. HONOURS AND AWARDS

National- Received

- 2024 Professional Service Recognition Award, Trillium Health Partners, Mississauga, Ontario, Canada. *15 years of service*
- 2019 **Professional Service Recognition Award**, Trillium Health Partners, Mississauga, Ontario, Canada. *10 years of service*
- 2016 **Better Together Award**, Trillium Health Partners, Mississauga, Ontario, Canada. *Recognizes healthcare providers who contribute to the quality of patient care at Trillium Health Partners by demonstrating exceptional collaboration, valuing all members of the healthcare team, sharing their knowledge and/or focusing on improving health outcomes*
- 2014 **Professional Service Recognition Award**, Trillium Health Partners, Mississauga, Ontario, Canada. *5 years of service*
- 2006 **Zeldowicz Award**, University of British Columbia, Vancouver, British Columbia, Canada. Resident Research Award, Neurology
- 2005 **Scholarship**, American Academy of Neurology Resident Scholarship
- 2001 **Burroughs Scholarship**, Canadian Institutes of Health Research
- 1999 **Scholarship**, Hannah Institute for the History of Medicine
- 1995-1998 **Deans Honour List**, University of Western Ontario, London, Ontario, Canada
- 1997 **Parents Fund Scholarship**, University of Western Ontario, London, Ontario, Canada
- 1995 **Entrance Scholarship**, University of Western Ontario, London, Ontario, Canada

1996

Provincial Award, Canadian Merit Scholarship Foundation

4. PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Professional Associations:

- 2025- Member, The National Traumatic Brain Injury Association – attended the 2025 TBI Medlegal conference
- 2008 Member, Ontario Medical Association
- 2008 Member, Canadian Medical Association
- 2006 Member, American Stroke Association
- 2006 Member, Boston Stroke Society
- 2006 Member, Massachusetts Medical Society
- 2002 Member, American Academy of Neurology
- 2002 Member, Canadian Congress of Neurology

Administrative | Peer Reviewed Activities:

- 2020 International Research Group Member - Traumatic Brain Injury and Neuroimaging
- 2020 Canadian Stroke Consortium Committee on Clinical Trials
- 2020 Investigator, Institute for Better Health, Trillium Health Partners
- 2015 Reviewer, Canadian Stroke Practice Guidelines
- 2014 Member, University of Toronto Stroke Program, Division of Neurology, University of Toronto, Toronto, Ontario
- 2011 Reviewer, Journal of the American Academy of Neurology
- 2009 Reviewer, Journal of the American Heart Association
- 2006 Member, Education Committee, Canadian Stroke Consortium, Oakville, Ontario, Canada
- 2005 Neurology Residents Education Committee, University of British Columbia

5. Academic Profile

Stoke, Atrial fibrillation, Traumatic Brain Injury, Neuro-Imaging, Post-Concussion Syndrome.

Teaching and Supervisory

- 2025 Supervisor, Concussion Outcomes Research Project, Inam Siddiqui, McMaster Health Sciences
- 2020-23 Supervisor, Concussion Research Paper and Abstract, Alexi Gosset and Hayley Wagman, Univ. of Toronto medical students
- 2019-20 Supervisor, Stroke Research Abstract Presentation for David Jones and Hayley Wagman, Univ. of Toronto medical students
- 2016-17 Supervisor, Stroke Research Abstract Presentation for Brent Parker, Univ. of Toronto medical student

- 2016 Supervisor, Community Rotation, McMaster University Neurology Residents. Trillium Health Partners, Mississauga, Ontario
- 2014 Teaching, Brain and Behaviour Course, Mississauga Academy of Medicine, University of Toronto, Mississauga, Ontario
- 2013 Teaching, Brain and Behaviour Course, Mississauga Academy of Medicine, University of Toronto, Mississauga, Ontario
- 2012 Teaching, Brain and Behaviour Course, Mississauga Academy of Medicine, University of Toronto, Mississauga, Ontario
- 2010 Supervisor, Residents and Medical Students, University of Toronto and McMaster University
- 2010 Supervisor, Paediatric Neurology Residents, University of Toronto
- 2007 Supervisor, Residents & Medical Students, ICU- Neurology, Harvard Medical School
- 2007 Teaching, Canadian Resident Stroke Course, Unusual Cases, University of British Columbia
- 2006 Chief Resident, Neurology, University of British Columbia
- 2006 Skills Leader, UBC Medical Student Clinical Skills

6. Research Funding

Peer-Reviewed Studies and Grants

2014-2018 **Site Principal Investigator.** Rivaroxaban versus Aspirin in secondary prevention of stroke and prevention of systemic embolism in patients with recent embolic stroke of undetermined source (ESUS) (NAVIGATE ESUS). Bayer. Population Health Research Institute. NCT02313909. Investigator: Bayer Study Director. Collaborators: Bayer, Janssen Research & Development LLC, Population Health Research Institute.

2014-2018 **Co-Investigator.** Field randomization of NA-1 therapy in early responders (FRONTIER). NoNO Inc. NCT02315443. Principal Investigators: Christenson J, Swartz R. Collaborators: NoNO Inc, Brain Canada, Djavad Mowafaghian Centre for Brain Health, Canadian Stroke Network, University of Calgary, University of Toronto, University of British Columbia, Genome Canada \$6,080,999 CDN.

2011-2018 **Site Principal Investigator.** "Spot Sign" Selection of intracerebral hemorrhage to guide hemostatic therapy (SPOTLIGHT). Canadian Institutes of Health Research(CIHR). Principal Investigator: Gladstone G, Aviv R, Demchuk A. Collaborators: Gladstone G, CIHR

2009-2014 **Site Principal Investigator.** 30 day cardiac event monitor belt for recording atrial fibrillation after a cerebral ischemic event (EMBRACE). Sunnybrook Health Sciences Centre. NCT00846924. Principal Investigator: Gladstone, D.

2006-2013 **Site Principal Investigator.** Albumin in Acute Ischemic Stroke (ALIAS). University of Miami. NCT00235495. Principal Investigators: Hill M, Palesch Y. Stuffy

Chair: Ginsberg M. Collaborators: University of Miami, National Institute of Neurological Disorders and Stroke, University of Calgary, Medical University of South Carolina, Neurological Emergencies Treatment Trials Network.

Industry Funded Grants

2015- 2017 **Principal Investigator.** Prolonged cardiac monitoring identification of patients with no previously diagnosed atrial fibrillation after an acute ischemic stroke or TIA and patients deemed at risk of an ischemic stroke. Boehringer-Ingelheim. \$150,000.00 CDN [Grant]

2010-2012 **Site Principal Investigator.** Efficacy and safety trial of transcranial laser therapy within 24 hours from stroke onset (NEST23). Principal Investigators: Hacke W, Zivin J. PhotoThera Inc. NCT0112031

2003-2007 **Co-Investigator.** Fast assessment of stroke and TIA to prevent early recurrence trial (FASTER) and prevention regimen for effectively avoiding second strokes (PRoFESS). Principal Investigator: Buchan A. Study Director: Kennedy J. Collaborators: University of Calgary, CIHR, Canadian Stroke Consortium (CSC)

7. Publications

Most Significant Publications

1. **Mehdiratta**, M. Kumar, S. Schlaug, G. Selim, M. The Association between Serum Ferritin Level and Peri-Hematoma Edema Volume in Patients with Spontaneous Intracerebral Hemorrhage. *Stroke*. 2008 Apr;39(4):1165-70. Epub 2008 Feb 2
2. Lou M, Safdar A, **Mehdiratta M**, Kumar S, Schlaug G, Caplan L, Searls D, Selim M. The HAT Score: A simple grading scale for predicting hemorrhage after thrombolysis. *Neurology*. 2008 Apr.; 71(18):1417-23
3. Efficacy and safety of intravenous nerinetide initiated by paramedics in the field for acute cerebral ischaemia within 3 h of symptom onset (FRONTIER): a phase 2, multicentre, randomised, double-blind, placebo-controlled study
Jim Christenson, Michael D Hill, Richard H Swartz, Corey Adams, Oscar Benavente, Leanne K Casaubon, Sheldon Cheskes, Aravind Ganesh, Jonathan Dave Garman, Cameron Harris, Devin R Harris, Kathy Heard, Sandra Jenneson, Yatika Kohli, Michelle Leroux, Diana Mayor-Nunez, George Medvedev, **Manu Mehdiratta**, Laurie J Morrison, Johanna Maria Ospel, Sarah Pennington, Yael Perez, Daniel Selchen, Alexander Stebner, John Tallon, Aleksander Tkach, Pieter Richard Verbeek, Michael Tymianski.
Lancet 2025; 405: 571–82

Peer-Reviewed Publications

4. Morrison L, Hill MD, Tymianski M, Raftis P, Wright G, McAuley G, Verbeek R, Cheskes S, Dundas P, Kakar P, Neville G, Christensen J, Harris D, Leslie PR, Dick W, Swartz R, Selchen D, Casaubon L, Perez Y, **Mehdiratta M**, Benavente O. The FRONTIER trial: Field randomization of NA-1 treatment by early responders. *Int J Stroke* 2015; 10 (Suppl. 4); 36. Presented at the Canadian Stroke Congress 2015, Toronto, ON
5. Kamal N, Hill MD, Blacchiere DP, Boulanger JM, Boyle K, Buck B, Butcher K, Camden MC, Casaubon LK, Côté R, Demchuk AM, Dowlathshahi D, Dubuc V, Field TS, Ghrooda E, Gioia L, Gladstone DJ, Goyal M, Gubitza GJ, Harris D, Hart RG, Hunter G, Jeerakathil T, Jin A, Khan K, Lang E, Lanthier S, Lindsay MP, Mackey A, Mandzia J, **Mehdiratta M**, Minuk J, Oczkowski W, Odier C, Penn A, Perry J, Pettersen JA, Phillips SJ, Poppe AY, Saposnik G, Selchen D, Shamy M, Sharma M, Shoamanesh A, Shuaib A, Silver F, Stotts G, Swartz R, Tamayo A, Teitelbaum J, Verreault S, Wein T, Yip S, Coutts SB. Rapid Assessment and Treatment of Transient Ischemic Attacks and Minor Stroke in Canadian Emergency Departments: Time for a Paradigm Shift. *Stroke*. 2015 Aug 27. pii: STROKEAHA.115.010454
6. Gladstone et al. Atrial Premature Beats Predict Atrial Fibrillation in Cryptogenic Stroke: Results From the EMBRACE Trial. *Stroke*. 2015 Apr; 46 (4): 936-41
7. Gladstone DJ, Spring M, Dorian P, Panzov V, Thorpe KE, Hall J, Vaid H, O'Donnell M, Laupacis A, Côté R, Sharma M, Blakely JA, Shuaib A, Hachinski V, Coutts SB, Sahlas DJ, Teal P, Yip S, Spence JD, Buck B, Verreault S, Casaubon LK, Penn A, Selchen D, Jin A, Howse D, **Mehdiratta M**, Boyle K, Aviv R, Kapral MK, Mamdani M; Atrial Fibrillation in Patients with Cryptogenic Stroke. *N Engl J Med*. 2014 Jun 26;370(26):2467-77.
8. **Mehdiratta M**, Selim M. CT Angiography and CT Perfusion Before Renal Function Tests are Available is Safe in Code Stroke Patients. *J Stroke Cerebrovasc Dis*. 2008 Sep;17(5):273-5.
9. **Mehdiratta M**, Kumar S, Schlaug G, Selim M. The Association between Serum Ferritin Level and Peri-Hematoma Edema Volume in Patients with Spontaneous Intracerebral Hemorrhage. *Stroke*. 2008 Apr;39(4):1165-70. Epub 2008 Feb 2
10. **Mehdiratta M**, Caplan LR, Kumar S. Basilar Artery Branch Disease Imaged by Magnetic Resonance Imaging. *Archives of Neurology*. 2007;64 1666
11. **Mehdiratta M**, Al-Harathi A, Murphy C, Teal P. Myocardial Infarction Following t-PA for Acute Stroke: Three Cases. *Canadian Journal of Neurological Sciences*. 2007; 34(4)
12. **Mehdiratta M**, Selim M. The Value of CT Perfusion in Diagnosing Stroke Mimics. *Archives of Neurology*. *Archives of Neurology*. 2007;64 1348-1349
13. **Mehdiratta M**, Caplan LR. Stroke Thrombolysis 2007: An Update. *Progress in Cardiovascular Diseases*. 2007; 49(6): 430-438.
14. Yountz M, **Mehdiratta M**, Caplan LR. Is Tumor Emboli Washout Caused by a Vigorous Circulation. *Archives of Neurology*. Accepted and publication pending.

15. **Mehdiratta M**, Woolfenden AR, Johnston DC, Chapman KM, Schulzer M, Beckman J, Teal PA. Reduction in IV t-PA door to needle times using an Acute Stroke Triage Pathway. Canadian Journal of Neurological Sciences. 2006;33(2):214-6
16. Rathbone M, **Mehdiratta M**, Finlayson H. Mild Head Injury. Canadian Journal of Diagnosis. 2000;15:76-93.

Book Chapters

1. **Mehdiratta M**, Caplan, LR. Churg Strauss Syndrome and Stroke. In: Caplan LR, editor. Uncommon Causes of Stroke, Cambridge: Cambridge University Press; 2016
2. **Mehdiratta M**, Perez Y. Anterior Circulation – Large Artery Occlusive Disease and Embolism. Primer on Cerebrovascular Diseases. Second Edition. Elsevier 2015.
3. **Mehdiratta M**, Caplan LR. Spinal Cord Infarcts. In: Lisak RP, Truong D, Carroll WM, and Bhidayasiri R. International Neurology: A Clinical Approach. Oxford: Blackwell Publishing; 2007.
4. **Mehdiratta M**, Selim M, Caplan LR, Kumar S. Cerebral Venous Sinus Thrombosis. In: Caplan LR, editor. Uncommon Causes of Stroke. Cambridge: Cambridge University Press; 2007. In press.
5. **Mehdiratta M**, Caplan LR. Churg-Strauss Syndrome and Stroke. In: Caplan LR, editor. Uncommon Causes of Stroke. Cambridge: Cambridge University Press; 2007.

Abstracts

1. Jones D, Perez Y, Wagman H, **Mehdiratta M**. Missed opportunities for secondary stroke prevention in embolic stroke of undetermined source patients in a community stroke unit setting. International Stroke Conference. Preventative Strategies II. Stroke, 2020 :51 (ATP428)
2. **Mehdiratta M**, Parker B, Bickford S, Khomitska I, Tingle J, Hoosein S, Desai J, Perez Y. 30-Day Cardiac Monitoring is Feasible and Effective in a Community Setting. 21 Feb 2017 Stroke. 2017; 48: A79. Presented as an oral abstract at the International Stroke Conference 2017.
3. **Mehdiratta M**, Selim M. CT Angiography and CT Perfusion Before Renal Function Tests are Available is Safe in Code Stroke Patients. International Stroke Conference 2008.
4. **Mehdiratta M**, Schlaug G, Wellenius G, Burger M, Ajani Z, Savitz S, Kumar S, Caplan LR, Menet M, Mittleman MA. The Incidence and Risk Factor Profiles of Patients Waking up with Stroke Symptoms among Patients Discharged with Stroke Diagnoses. presented at the 59th annual AAN conference, Boston 2007
5. **Mehdiratta M**, Al-Harathi A, Murphy C, Teal P. Myocardial Infarction Following t-PA for Acute Stroke: Three Cases. Neurology. 2005;64 (Suppl. 1).

6. **Mehdiratta M.** A case of Central Pontine Myelinolysis Following Liver Transplant and Tacrolimus Therapy. Canadian Journal of Neurological Sciences.2004;31(Suppl 1):S83.
7. **Mehdiratta M**, Woolfenden AR, Johnston DC, Chapman KM, Schulzer M, Beckman J, Teal PA. Reduction of IV t-PA Door to Needle Times using an Acute Stroke Triage Pathway. Neurology. 2003;60 (Suppl 1): A48
8. Savedia-Cayabyab S, **Mehdiratta M**, Teal PA. A Case of Simultaneous Postpartum Cerebral Angiopathy and Vertebral Dissection. Cerebrovascular Diseases. 2002;13(Suppl 3):75

8. Presentations & Special Lectures

- 2019 Keynote Speaker, The Concussion Conference, Calgary, Alberta
- 2019 Grand Rounds, Oakville Hospital, Update of Concussion and Stroke, Oakville, Ontario
- 2017 Lecturer, Enrichment in Research, Case Based Learning, University of Toronto, Toronto, Ontario.
- 2009 Speaker, Family Practice Stroke Prevention Day, University of Toronto, Toronto, Ontario
- 2009 Lecturer, Neurosciences, 2nd Year Medical Students, University of Toronto, Toronto, Ontario
- 2009 Speaker, Heart and Stroke Foundation, Clinical Update. Toronto, Ontario