

Brian James Murray, MD FRCPC D,ABSM

Assistant Professor of Medicine, University of Toronto
Neurology and Sleep Medicine

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Education

2000-2001 Fellowship in Sleep Medicine, Harvard Medical School, Beth Israel Deaconess Medical Center
1999-2000 Fellowship in Neurophysiology, and Sleep Medicine, Harvard Medical School, Beth Israel Deaconess Medical Center
1996-1999 Residency in Neurology, Beth Israel Hospital, Brigham and Women's Hospital, Children's Hospital (Boston), New England Deaconess Hospital, West Roxbury Veteran's Administration Hospital, Harvard Medical School
1995-1996 Internship in Internal Medicine, New England Deaconess Hospital, Harvard Medical School
1994-1995 Clerkship, The Toronto Hospital, University of Toronto
1991-1995 Doctor of Medicine, University of Toronto
1989-1991 Pre-medical program, Faculty of Arts and Science, University of Toronto

Scholarships and Distinctions

2002 Peters-Boyd Academy Teaching Award For Undergraduate Tutoring
1995 Lange Book Award, University of Toronto, Faculty of Medicine
1991-1995 Honors Standing, Faculty of Medicine
1989-1991 Honors Standing, Faculty of Arts and Science: Faculty Scholar
1989-1993 University of Toronto National Scholarship
1991 James A. & Connie P. Dickson Scholarship in the Mathematics and Physical Sciences
1990 C. L. Burton Open Scholarship
1989-1990 Canada Scholarship, Saskatchewan Proficiency Award

Leadership Activities

1998-1999 Neurology Chief Residency Year- Duties included supervision and teaching of junior residents and medical students. Sites of responsibility: Beth Israel Deaconess Medical Center, Brigham and Women's Hospital, West Roxbury Veteran's Administration Hospital, Harvard Medical School.
1994-1995 Class President, University of Toronto, Class of 1995- Interacted with faculty and students, acted as a political representative, and coordinated a series of educational and recreational events.
1994-1995 Editor and Coordinator: Review Notes and Lecture Series for the Medical Council of Canada Qualifying Examination - A comprehensive review of over 25 clinical sciences.
1993-1994 Clinic group representative - Wellesley Hospital
1992-1993 Producer of Daffydil '93- An annual theatrical production with the purpose of raising money for the Canadian Cancer Society.

Research Experience

- 2002 Depression and Restless Legs Syndrome in Pregnancy- a survey and actigraphic study (independent project)
- 2001 Beth Israel Deaconess Medical Center (Harvard Medical School, Boston), Dr. A. Goldberger (supervisor, cardiology) - Complex dynamics of sleep physiology in health and disease
- 2000 Beth Israel Deaconess Medical Center (Harvard Medical School, Boston), Dr. T. Scammell (supervisor) – Sleep effects of the vagal nerve stimulator
- 1999 Beth Israel Deaconess Medical Center, Dr. J. Mullington (supervisor) - Effects of chronic sleep restriction on human host response
- 1999 Beth Israel Deaconess Medical Center, Dr. J. Matheson (supervisor)- Role of Sleep and Complement in Paroxysmal Nocturnal Hemoglobinuria
- 1999 Beth Israel Deaconess Medical Center, Dr. A. Pascual-Leone (supervisor)- Transcranial Magnetic Stimulation Studies of Heteromodality in the Blind
- 1993 Center for Research in Neurodegenerative Diseases, University of Toronto, Dr. W. G. Tatton (supervisor)- Studies involved digital image analysis of cellular responses to injury
- 1992 Center for Research In Neurodegenerative Diseases, Institute of Medical Science Summer Scholarship, Dr. W. G. Tatton (supervisor)- Laboratory studies of a putative animal model of amyotrophic lateral sclerosis
- 1991 Departments of Physiology and Zoology, University of Toronto, National Science and Engineering Research Council Student Award, Dr. B. Pomeranz (supervisor)- Developed computer programs for studying subtle cognitive deficits, and worked with cortical evoked potential studies.
- 1990 Department of Psychology, University of Toronto, Dr. B. Murdock (supervisor)- Programmed computer simulations of human memory processes.

Electives

Harvard University

- 1999 Transcranial Magnetic Stimulation - Dr. A. Pascual-Leone, Beth Israel Hospital
- 1998 Sleep and Polysomnography – Dr. J. Matheson, Beth Israel Hospital
- 1998 E.M.G.- Dr. D. Preston, Brigham and Women’s Hospital
- 1996 Neuroimaging- Brigham and Women’s Hospital
- 1994 Behavioral Neurology- Dr. A. Galaburda, Beth Israel Hospital

University of Toronto

- 1994-1995 Clinical Neurology - Dr. T. Gray, St. Michael's Hospital
Neuropsychiatry - Dr. A. Feinstein, Wellesley Hospital
Pediatric Neurology - Dr. D. MacGregor, Hospital for Sick Children
Neuropsychiatry - Dr. P. Sandor, Toronto Western Hospital
- 1993-1994 Clinical Investigations Unit - Dr. R. Zipursky, Clarke Institute of Psychiatry
Pediatric Neurology - Dr. P. Hwang, Hospital for Sick Children
- 1992-1993 Clinical Neurology - Dr. S. Black, Sunnybrook Health Sciences Center
Pediatric Neurology - Dr. D. MacGregor, Hospital for Sick Children
- 1991-1992 Clinical Pediatric Neurosurgery - Drs. H. Hoffman, R. Humphreys, J. Drake, and J. Rutka, Hospital for Sick Children
Emergency Psychiatry - Dr. J. Lofchy, Clarke Institute of Psychiatry
Forensic Psychiatry - Dr. V. Srinivasan, Metropolitan Toronto Forensic Service

Publications

1. B. J. Murray, "Predicting Apnea Severity in the Morbidly Obese", *Journal Watch Neurology*, 5(6): 48, 2003.
2. C. Lee, B. J. Murray, "A Kick-start to a Good Night's Sleep", *University of Toronto Medical Journal*, 80(2): 139-141, 2003.
3. J. Oh, B. J. Murray, "The Pipetting Cyclist", *University of Toronto Medical Journal*, 80(2): 142-144, 2003.
4. B. J. Murray, S. R. Tyagi, R. A. Parker, J. K. Matheson, A. Nicholson-Weller, "Complement C3 Activation In Normal Human Subjects Is Primarily Affected by a Circadian Rhythm, with a Minimal Effect of Sleep" (submitted 2003)
5. C. Lee, J. Oh, D. Park, B. Murray, "Excessive daytime sleepiness in pregnancy" (in preparation)
6. B. J. Murray, J. Matheson, T. Scammell, "Effects of vagus nerve stimulation on respiration during sleep: A pilot study", *Neurology*, 57:1523-1524, 2001
7. D. D. Balachandran, S. B. Ewing, B. J. Murray, L. LeBeau, J. M. Mullington, "Human host response during chronic partial sleep deprivation", *Sleep*, 25:A106-7, 2002 (abstract)
8. S. B. Ewing, D. D. Balachandran, L. LeBeau, B. J. Murray, J. M. Mullington, "Subjective and objective indices of sleep loss: Effects of chronic partial sleep restriction", *Sleep*, 25:A448, 2002 (abstract)
9. B. J. Murray, A. Pascual-Leone, "Tactile 'imagery' in the blind: A transcranial magnetic stimulation study", presentation at the American Neurological Association meeting October 2000, and as abstract in *Annals of Neurology*, September 2000
10. B. J. Murray, D. Apetauerova, T. Scammell, "Severe acute disseminated encephalomyelitis with normal MRI at presentation", *Neurology*, 55:1237-8, 2000
11. B. J. Murray, R. Llinas, L. R. Caplan, T. Scammell, A. Pascual-Leone, "Cerebral deep venous thrombosis presenting as acute micrographia and hypophonia", *Neurology*, 54:751-753, 2000
12. A. Mai, B. Murray (eds.), *Medical Council of Canada Qualifying Examination Review Notes and Lecture Series*, 11th edition, 1995
13. C. Oh, B. Murray, N. Bhattacharya, D. Holland, W. G. Tatton, "(-)-Deprenyl Alters the Survival of Adult Murine Facial Motoneurons After Axotomy: Increases in Vulnerable C57BL Strain But Decreases in Motor Neuron Degeneration Mutants", *Journal of Neuroscience Research*, 38:64-74, 1994

Licenses

2002	Diplomate, American Board of Sleep Medicine
2001	Ontario College of Physicians and Surgeons License
2000	Fellow of the Royal College of Physicians of Canada
2000	American Board of Psychiatry and Neurology (diplomate in Neurology)
1999	Massachusetts State Full License in Medicine
1997	Medical Council of Canada Qualifying Examination
1996	United States Medical Licensing Examination
1995	Advanced Cardiac Life Support

Appointments, Memberships, and Committees

- 2002- Scientist, Toronto Rehabilitation Institute Research Program
- 2002- Canadian Advisory Board on Sleep Disorders, Draxis Pharmaceuticals
- 2002- Research committee, Dept. of Medicine Sunnybrook and Women's College Health Sciences Centre
- 2002- Member, Canadian Neurological Society
- 2002- Fellow, American Academy of Sleep Medicine
- 2001- Assistant Professor of Medicine, University of Toronto
- 2001- University of Toronto Centre for Sleep Medicine and Circadian Biology
- 2001- Medical staff, Sunnybrook and Women's College Health Sciences Centre
- 2001- Ontario and Canadian Medical Associations
- 2000-2001 Medical staff, Department of Neurology, Beth Israel Deaconess Medical Center, Boston, MA
- 2000-2001 Consultant, Neurology and Sleep Medicine, CBS Medscape Healthwatch
- 2000 Year 4 OSCE (Objective structured clinical exam) Examiner, Harvard
- 1998- American Academy of Neurology
- 1998- American Sleep Disorders Association / Academy of Sleep Medicine
- 1995,1998 American Medical Association
- 1995- Massachusetts Medical Society
- 1993 University of Toronto Faculty of Medicine Admission Committee
- 1992-1993 University of Toronto National Scholarship Selection Committee

Selected Invited Lectures

- 2003 Neurological Aspects of Sleep Medicine – Invited Co-Chair, American Professional Sleep Societies Meeting, Chicago, June 2003
- 2003 Restless Legs Syndrome: Current Understanding and Management – American Professional Sleep Societies Meeting, Chicago, June 2003
- 2002 Sleep 2002: Basics and Beyond, Medicine Grand Rounds, Sunnybrook and Women's College Health Sciences Centre
- 2002 Sleep and Rehabilitation, Physical Medicine and Rehabilitation Grand Rounds, Sunnybrook and Women's College Health Sciences Centre
- 2002 The Neurology of Pregnancy, Women's Health Rounds, Women's College Hosp.
- 2002 Narcolepsy: The common, uncommon, subtle, dramatic, sleep-wake disorder, Grand Rounds, Center for Sleep Medicine and Circadian Biology, University of Toronto
- 2002 Narcolepsy: The common, uncommon, subtle, dramatic, sleep-wake disorder, St. Michael's Hospital Neurology Rounds
- 2002 Parasomnias, Neuroscience Rounds, Sunnybrook Campus
- 2001 Sleep Aspects of Women's Health, Research in Progress, Center for Research Women's Health, Women's College Hospital, University of Toronto
- 2001 Sleep Aspects of Women's Health, Medicine Grand Rounds, Women's College Hospital, University of Toronto
- 2001 Sleep Aspects of Women's Health and the Respiratory Therapist's Role, City Wide Respiratory Therapy Continuing Education Series, Toronto General Hospital
- 2001 Normal Sleep, and Abnormal Sleep, Neurology Resident Lecture Series, U. Toronto
- 2001 Status Epilepticus, Neurology Resident Lecture Series, University of Toronto
- 2001 Neurological Aspects of Sleep Medicine, Neurology Grand Rounds, U. Toronto
- 2001 Sleep and Epilepsy, Epilepsy Lecture Series, Beth Israel Deaconess Medical Center, Harvard University
- 2000 Neurological Aspects of Sleep Disorders, Medicine Grand Rounds, Sunnybrook Hospital, University of Toronto
- 2000 Neurological Aspects of Sleep Disorders, Medicine Grand Rounds, Women's College Hospital, University of Toronto

1999 Transcranial Magnetic Stimulation: Applications in Sleep and Neurology, Neurology Grand Rounds, University of Ottawa
1999 Sleep and Epilepsy, Epilepsy Lecture Series, Beth Israel Deaconess Medical Center, Harvard University