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Dr. David Clarke

Correspondence language: English

Sex: Male

Date of Birth: 12/22

Canadian Residency Status: Canadian Citizen

Country of Citizenship: Canada

Contact Information

The primary information is denoted by (*)

Address

Courier

QEII Health Sciences Centre - Halifax Infirmary
Division of Neurosurgery
Room 3806-1796 Summer Street
Halifax Nova Scotia B3H 3A7
Canada

Primary Affiliation (*)

Dalhousie University
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Division of Neurosurgery
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Protected when completed

Dr. David Clarke

Language Skills

Language	Read	Write	Speak	Understand	Peer Review
English	Yes	Yes	Yes	Yes	
French	No	No	No	No	

Degrees

1993/9 - 1996/9 Doctorate, PhD, Neuroscience, McGill University
Degree Status: Completed

Supervisors: Drs. Albert Aguayo and Garth Bray

1985/8 - 1989/5 Doctorate, Medicine - M.D., McGill University
Degree Status: Completed

1982/8 - 1985/5 Bachelor's, Science, Biology, Acadia University
Degree Status: Completed

Credentials

2002/11 Fellow (F.A.C.S.), American College of Surgeons
Neurosurgery

2001/1 Fellow (F.A.A.N.S.), American Association of Neurological Surgeons (AANS)

1997/1 Diplomate (D.A.B.N.S.), American Board of Neurological Surgeons
Neurosurgery

1996/9 Fellow (F.R.C.S.C.), Royal College of Physicians and Surgeons of Canada
Neurosurgery

1996/1 C.S.P.Q., College des Specialistes de la Province de Quebec
Neurosurgery

1989/1 F.L.E.X., Foreign Licensing Examination of New York
General Medicine

1989/1 Licentiate, Medical Council of Canada (L.M.C.C.), Medical Council of Canada
General Medicine

1985/1 University Scholar, Acadia University

Recognitions

2009/1 Outstanding Achievement Award, Development of Virtual Reality Neurosurgical Simulation
National Research Council
Prize / Award

1999/1 - 2004/12	Clinical Research Scholar, Faculty of Medicine Dalhousie University Distinction
1996/1	The Penfield-McNaughton Award in Neurosurgery The Montreal Neurological Institute, McGill University Distinction
1995/1	1st Prize, Academic Honours, KG McKenzie Memorial Award for Basic Neuroscience Research Royal College of Physicians and Surgeons of Canada Honor
1995/1	The Canadian Research Award for Specialty Residents in the Division of Surgery, RCPSC and the Canadian Society for Clinical Investigation and Professional Association of Interns and Residents of Ontario Trust Funds. Royal College of Physicians and Surgeons of Canada Prize / Award

User Profile

Engaged in Clinical Research?: Yes

Research Interests: As Director of the Neuron Survival and Regeneration laboratory, I have continued to study neuron survival and regeneration in the central nervous system. My clinical interests are predominantly in the areas of the management of pituitary and brain tumours, surgical treatment of epilepsy, and traumatic brain injury. I have a special interest in the application of simulation technologies to neurosurgical education.

Fields of Application: Pathogenesis and Treatment of Diseases

Disciplines Trained In: Molecular Biology, Surgery

Technological Applications: Clinical biological analyses

Areas of Research: Central Nervous System Organic Diseases, Plasticity / Neuronal Regeneration

Research Specialization Keywords: axotomy, CNS trauma, head injury, heat shock protein 27, immunohistochemistry, neural cell adhesive molecule, neuron survival, neurotrophins, pituitary tumor, regeneration, retinal ganglion cell, surgical education, surgical simulation, traumatic brain injury

Research Disciplines: Neurosciences

Employment

2014/7	Head, Division of Neurosurgery Dalhousie University
2014/7	Head, Division of Neurosurgery Nova Scotia Health Authority
2009/7	Professor Medical Neuroscience, Dalhousie University
2009/7	Professor Surgery (Neurosurgery), Dalhousie University
1997/1	Neurosurgeon Nova Scotia Health Authority
1997/1	Neurosurgeon IWK Health Centre

2012/1 - 2016/7	Founder and Former Director of Canadian Neurosurgery Rookie Camp Dalhousie University
2011/9 - 2014/6	Interim Head Division of Neurosurgery, Queen Elizabeth II Health Sciences Centre
2008/6 - 2012/6	Vice-Chair Neurosurgery Specialty Committee, The Royal College of Surgeons of Canada
2008/1 - 2011/1	Director Canadian Association for Neuroscience
2003/7 - 2009/7	Associate Professor Surgery (Neurosurgery), Dalhousie University, Dalhousie University
2003/7 - 2009/7	Associate Professor Anatomy and Neurobiology, Dalhousie University, Dalhousie University
2000/3 - 2006/2	Program Director Neurosurgery, Residency Training Program, Dalhousie University, Dalhousie University
1997/7 - 2003/6	Assistant Professor Surgery (Neurosurgery), Dalhousie University, Dalhousie University
1997/7 - 2003/6	Assistant Professor Anatomy and Neurobiology, Dalhousie University, Dalhousie University
2002/4 - 2003/4	President Atlantic Clinical Neurosciences Society

Affiliations

The primary affiliation is denoted by (*)

2009/7 Professor, Medical Neuroscience, Dalhousie University

(*) 2009/7 Professor, Surgery, Dalhousie University

Research Funding History

Awarded [n=15]

2016/3 - 2021/2 Microvascular Injury and Blood-Brain Barrier Dysfunction as Novel Biomarkers and
Co-investigator Targets for Treatment in Traumatic Brain Injury, Grant

Funding Sources:

2016/3 - 2021/2 Canadian Institutes of Health Research (CIHR)
Total Funding - 950,000 (Canadian dollar) (Canadian dollar)
Funding Competitive?: Yes

Co-investigator : Christopher Bowen; Matthias Schmidt; Robert Green;

Principal Investigator : Alon Friedman

2015/1 - 2019/12 Canadian Traumatic Brain Injury Research Consortium (CTRC), Grant
Co-investigator

Funding Sources:

2015/1 - 2019/12 Canadian Institutes of Health Research (CIHR)
Total Funding - 1,824,513 (Canadian dollar) (Canadian dollar)
Funding Competitive?: Yes

Principal Investigator : Alexis Turgeon; Jamie Hutchinson; Several Others

2015/6 - 2018/9 Principal Investigator	Biomedical Translational Imaging Centre (BIOTIC) R&D Projects, "Supporting the development and commercialization of neuro-based technologies"., Grant
	Funding Sources:
	2015/6 - 2018/9 Government of Canada, QEII Foundation and Conquer Mobile ACOA's Business Development Program Total Funding - 370,000 (Canadian dollar) Funding Competitive?: Yes
	Co-investigator : Denise Lalanne; Lauren Petley; Steven Beyea; Tim Bardouille
2014/12 - 2017/12 Co-investigator	A National Biobank and Database for Patients with Traumatic Brain Injury, Grant
	Funding Sources:
	2014/7 - 2017/7 Brain Canada Brain Canada Platform Support Grant Total Funding - 3,000,000 (Canadian dollar) Funding Competitive?: Yes
	Principal Investigator : Jamie Hutchison
2017/1 - 2017/12 Principal Applicant	Pre-Clinical Validation of the Little Cranial Robot, Grant
	Funding Sources:
	Medtronic Navigation, Inc. Pre-clinical Validation of the Little Cranial Robot Total Funding - 54,970 (Canadian dollar) (Canadian dollar)
2014/12 - 2016/12 Co-investigator	Non-Functioning Pituitary Adenomas Biomarkers, Grant Clinical Research Project?: Yes
	Funding Sources:
	2014/12 - 2016/12 Capital Health Research Fund Capital Health Research Fund, Centre for Clinical Research Total Funding - 9,867 (Canadian dollar) Funding Competitive?: Yes
	Principal Investigator : Dr. Andrea Hebb
2015/6 - 2016/6 Principal Investigator	Virtual Reality Neurosurgical Simulation Education and Training, Grant
	Funding Sources:
	2015/6 - 2016/6 Dalhousie University Brain Repair Centre Knowledge Translation Total Funding - 30,000 (Canadian dollar) Funding Competitive?: Yes
	Co-investigator : Conquer Mobile Inc.; Murray Hong; Nelofar Kureshi
2011/3 - 2016/3 Principal Investigator	NCAM influences retinal ganglion cell numbers: mechanisms and implications for vision, Grant, Operating
	Funding Sources:
	2011/3 - 2016/3 Natural Sciences and Engineering Research Council of Canada (NSERC) Natural Sciences and Engineering Research Council (NSERC) Total Funding - 150,000 (Canadian dollar) Funding Competitive?: Yes
	Principal Investigator : Clarke, David B.

2013/1 - 2015/12 Principal Investigator	Quantitative Investigation of the Cost of Alcohol Positive Traumatic Brain Injury (TBI) in Nova Scotia (NS), Grant Funding Sources: 2013/1 - 2013/12 Nova Scotia Department of Health Health Promotion and Protection Total Funding - 20,000 (Canadian dollar) Funding Competitive?: No Co-investigator : Dr. Rob Green; Ginette Thibault-Halman; Lynne Fenerty; Nelofar Kureshi
2015/4 - 2015/9 Co-investigator	Acquiring Imaging Post-processing software for CT and MR perfusion and MR diffusion research studies at QEII Health Sciences Centre, Grant Funding Sources: 2015/4 - 2015/9 Nova Scotia Health Research Foundation (NSHRF) Total Funding - 20,000 (Canadian dollar) Funding Competitive?: Yes Co-investigator : Simon Walling; Sultan Darvesh; Principal Investigator : Jai Shankar
2012/3 - 2014/3 Principal Investigator	Completion of Ski and Snowboard Observational Study, Education and Marketing Strategy, Grant Funding Sources: 2011/3 - 2012/3 Nova Scotia Health Promotion and Protection Healthy Community Initiatives Total Funding - 20,000 (Canadian dollar) (Canadian dollar) Funding Competitive?: Yes Co-investigator : Dr. Simon Walling; Ginette Thibault-Halman; Lynne Fenerty
2012/12 - 2012/12 Principal Investigator	Modelling Grip Force for Enhanced Specificity of Presurgical Mapping for Primary Motor Cortex, Grant Funding Sources: 2012/12 - 2012/12 Capital Health (Nova Scotia) Capital Health Research Fund Total Funding - 4,980 (Canadian dollar) Funding Competitive?: No Co-investigator : Gerhard Stroink; Ryan D'Arcy; Steven Beyea; Tim Bardouille; Tynan Stevens
2011/6 - 2012/6 Principal Applicant	Dalhousie University Clinician Scientist Program, Grant Funding Sources: 2011/6 - 2012/6 Dalhousie University Clinician Scientist Program Total Funding - 50,000 (Canadian dollar) (Canadian dollar) Funding Competitive?: Yes
2012/6 - 2012/6 Co-investigator	Acromegaly Morphometric Scale and Psychopathological Scoring, Grant

Funding Sources:

2012/6 - 2012/6 Capital Health (Nova Scotia)
 Capital Health Research Fund
 Total Funding - 9,887 (Canadian dollar) (Canadian dollar)
 Funding Competitive?: Yes

Co-investigator : Ali Imran; Michael Vallis;

Principal Investigator : Stephanie Kaiser

2010/6 - 2011/6 Brain Injury Prevention and Education Grant, Design and Dissemination of Concussion
 Principal Applicant Cards and Helmet Bookmarks, Grant

Funding Sources:

2010/6 - 2011/6 IWK Health Centre (Halifax, NS)
 IWK Community Grant Fund
 Total Funding - 10,000 (Canadian dollar) (Canadian dollar)
 Funding Competitive?: Yes

Completed [n=18]

2012/1 - 2013/12 "Quantitative Analysis of Ski and Snowboard Helmet use in Nova Scotia", Grant
 Principal Investigator Project Description: Ski and Snowboard Study

Funding Sources:

2012/1 - 2013/12 Nova Scotia Department of Health
 Health Promotion and Protection
 Total Funding - 16,000 (Canadian dollar)
 Funding Competitive?: Yes

Co-investigator : Ginette Thibault-Halman; Lynne Fenerty; Simon Walling

2011/1 - 2012/12 Ski and Snowboard Study, Grant
 Principal Investigator

Funding Sources:

2011/1 - 2012/12 Nova Scotia Department of Health
 Health Promotion and Protection
 Total Funding - 20,000 (Canadian dollar)
 Funding Competitive?: Yes

2008/3 - 2012/3 Patient-Specific Virtual Reality Systems for Surgical Oncology, Grant, Operating
 Co-investigator

Funding Sources:

2008/3 - 2012/3 National Research Council Canada (NRC) (Ottawa, ON)
 Genomics and Health Initiative
 Total Funding - 4,980,000 (Canadian dollar)
 Funding Competitive?: Yes

Principal Investigator : DiRaddo, Robert

2010/12 - 2011/12 Qualitative and Quantitative Analysis of Ski and Snowboard Helmet use in Nova Scotia,
 Principal Investigator Grant, Operating

Funding Sources:

2010/12 - 2011/12 Nova Scotia Health Promotion and Protection
 Department of Health and Wellness
 Total Funding - 20,000 (Canadian dollar)
 Funding Competitive?: No

Principal Investigator : Clarke, David B.

- 2006/3 - 2011/3
Principal Investigator Influence of cell adhesion molecules on neuron survival and plasticity in the adult central nervous system
- Funding Sources:**
2006/3 - 2011/3 Natural Sciences and Engineering Research Council of Canada (NSERC)
Natural Sciences and Engineering Research Council of Canada (NSERC)
Total Funding - 132,500 (Canadian dollar)
Funding Competitive?: Yes
- Principal Investigator : Clarke, David B.
- 2007/9 - 2010/9
Co-investigator An Integrative Approach to Functional Restoration
- Funding Sources:**
2007/9 - 2010/9 Canada Foundation for Innovation (CFI)
New Initiatives Fund
Total Funding - 5,577,471 (Canadian dollar)
Funding Competitive?: Yes
- Principal Investigator : Brownstone, Robert
- 2007/3 - 2010/3
Co-investigator Brain Repair Centre-Research and Commercialization Capacity Project
- Funding Sources:**
2007/3 - 2010/3 Atlantic Canada Opportunities Agency
Atlantic Innovation Fund (AIF)
Total Funding - 3,000,000 (Canadian dollar)
Funding Competitive?: Yes
- Principal Investigator : Mendez, Ivar
- 2006/3 - 2009/3
Principal Investigator The role of heat shock protein 27 in the survival and regeneration of adult aging rodent retinal ganglion cells
- Funding Sources:**
2006/3 - 2009/3 Canadian Institutes of Health Research (CIHR)
Regional Partnership Program
Total Funding - 265,680 (Canadian dollar)
Funding Competitive?: Yes
- Principal Investigator : Clarke, David B.
- 2003/9 - 2006/9
Principal Investigator Brain trauma outcomes in Nova Scotia
- Funding Sources:**
2003/9 - 2006/9 Nova Scotia Health Research Foundation (NSHRF)
Total Funding - 150,000 (Canadian dollar)
- Principal Investigator : Clarke, David B.
- 2005/1 - 2006/1
Principal Investigator The role of the neural cell adhesion molecule in retinal ganglion cell survival
- Funding Sources:**
2005/1 - 2006/1 Capital Health (Nova Scotia)
Total Funding - 15,000 (Canadian dollar)
- Principal Investigator : Clarke, David B.
- 2002/7 - 2005/7 Environmental enrichment and gene expression in the retina and brain

Co-investigator	Funding Sources: 2002/7 - 2005/7 Canadian Institutes of Health Research (CIHR) Regional Partnership Program Total Funding - 236,592 (Canadian dollar) Principal Investigator : Currie, William R
2002/12 - 2003/12 Principal Investigator	Characterization of Retinal Stem Cells for Treatment of Injured Retinal Neurons Funding Sources: 2002/12 - 2003/12 Capital Health (Nova Scotia) Total Funding - 15,000 (Canadian dollar) Principal Investigator : Clarke, David B.
2000/7 - 2003/7 Co-investigator	Directing compensatory fibre growth in the nervous system Funding Sources: 2000/7 - 2003/7 Canadian Institutes of Health Research (CIHR) Total Funding - 167,151 (Canadian dollar) Principal Investigator : Hagg, Theo
1999/8 - 2000/8 Principal Investigator	Neurotrophin-induced changes in retinal BCL-2 proteins Funding Sources: 1999/8 - 2000/8 Queen Elizabeth II Health Sciences Centre Research Foundation Total Funding - 5,675 (Canadian dollar) Principal Investigator : Clarke, David B.
1999/8 - 2000/8 Co-investigator	The effects of vagus nerve stimulation implantation on quality of life and neuropsychological functioning Funding Sources: 1999/8 - 2000/8 Queen Elizabeth II Health Sciences Centre Research Foundation Total Funding - 7,625 (Canadian dollar) Principal Investigator : McGlone, Jeannette
1998/12 - 1999/12 Principal Investigator	Vagal nerve stimulation pilot project Funding Sources: 1998/12 - 1999/12 Queen Elizabeth II Health Sciences Centre Research Foundation Total Funding - 105,000 (Canadian dollar) Principal Investigator : Clarke, David B.
1998/6 - 1999/6 Principal Investigator	Survival and regeneration in central nervous system neurons Funding Sources: 1998/6 - 1999/6 Queen Elizabeth II Health Sciences Centre Research Foundation Total Funding - 66,904 (Canadian dollar) Principal Investigator : Clarke, David B.
1997/12 - 1998/12 Principal Investigator	Central nervous system injury Funding Sources: 1997/12 - 1998/12 Dalhousie University Total Funding - 25,000 (Canadian dollar) Principal Investigator : Clarke, David B.

[n=]

2009/1	, Fellowship	Funding Sources: 2009/1 National Research Council of Canada Outstanding Achievement Award 2009
1995/1	, Fellowship	Funding Sources: 1995/1 The Royal College of Physicians & Surgeons of Canada, The Can. Society for Clinical Investigation Canadian Research Award for Specialty Residents Total Funding - 2,500
1995/1	, Fellowship	Funding Sources: 1995/1 The Canadian Neurosurgical Society and the Royal College of Physicians and Surgeons of Canada First Prize, K.G. McKenzie Memorial Award Total Funding - 1,000
1999/1 - 2004/1	, Fellowship	Funding Sources: 1999/1 - 2004/1 Faculty of Medicine, Dalhousie University Clinical Research Scholar Total Funding - 405,000
1992/1 - 1994/1	, Fellowship	Funding Sources: 1992/1 - 1994/1 Medical Research Council of Canada Medical Research Council Fellowship Award Total Funding - 90,000
1985/1 - 1989/1	, Fellowship	Funding Sources: 1985/1 - 1989/1 McGill University Clarke K. McLeod Medical Scholarship Total Funding - 8,000
1983/1 - 1985/1	, Fellowship	Funding Sources: 1983/1 - 1985/1 Acadia University Class of 1951 Scholarship Total Funding - 4,500
1983/1 - 1985/1	, Fellowship	Funding Sources: 1983/1 - 1985/1 Acadia University Clarke K. McLeod Pre-Medical Scholarship Total Funding - 4,000
1982/1 - 1984/1	, Fellowship	

Funding Sources:

1982/1 - 1984/1 Acadia University
Dean's List Scholar

Student/Postdoctoral Supervision**Bachelor's [n=5]**

Principal Supervisor Adam Danielle (Completed) , Dalhousie University
Student Degree Start Date: 2010/5
Project Description: NSERC Summer Student
Present Position: Medical Student

Principal Supervisor Shand Jenna (Completed) , Dalhousie University
Student Degree Start Date: 2008/8
Student Degree Received Date: 2011/5
Project Description: Hsp27 and Insulin
Present Position: Nursing

Principal Supervisor O'Reilly Amanda (Completed) , Dalhousie University
Student Degree Start Date: 2006/9
Student Degree Received Date: 2010/5
Project Description: Hsp27: survival in immuno-panned RCGs
Present Position: Medical Student

Principal Supervisor Davies Anna (Completed) , Dalhousie University
Student Degree Start Date: 2005/8
Student Degree Received Date: 2007/5
Project Description: Retina stem cells
Present Position: Medical Student

2001/9 - 2003/4
Principal Supervisor Hawkes Erin (Completed) , Univ. of BC
Student Degree Start Date: 2001/5
Student Degree Received Date: 2003/5
Thesis/Project Title: ***Expression of Hsp27 in Retinal Ganglion Cells of the Rat During Postnatal Development*** .
Project Description: Heat shock protein 27 in the developing mammalian retina
Present Position: Student

Master's non-Thesis [n=1]

Principal Supervisor Cody Kimberley (Completed)
Student Degree Start Date: 2009/9
Student Degree Received Date: 2010/10
Project Description: Hsp27: neurite outgrowth in RGC-5 cells

Master's Thesis [n=1]

2003/9 Franklin Tamara (Completed) , Dalhousie University
 Co-Supervisor Student Degree Start Date: 2003/5
 Student Degree Received Date: 2005/9
 Thesis/Project Title: ***Enriched environment during adolescence changes brain-derived neurotrophic factor and TrkB levels in the rat visual system but does not offer neuroprotection to retinal ganglion cells following axotomy***
 Project Description: Environmental enrichment and gene expression in the retina and brain
 Present Position: Student

Doctorate [n=4]

2008/9 Po-Shan Luke Margaret (In Progress) , Dalhousie University
 Principal Supervisor Student Degree Start Date: 2008/1
 Student Degree Expected Date: 2014/9
 Thesis/Project Title: Role of NCAM in retina ganglion cell survival.
 Project Description: NCAM and RGC survival during aging
 Present Position: PhD Student

2002/9 - 2007/4 Murphy Jeremy (Completed) , Dalhousie University
 Principal Supervisor Student Degree Start Date: 2002/9
 Student Degree Received Date: 2007/5
 Thesis/Project Title: ***Endogenous Polysialylated Neural Cell Adhesion Molecule Enhances the Survival of Retinal Ganglion Cells***
 Project Description: Influence of cell adhesion molecules on neuronal sprouting
 Present Position: Resident

2002/9 - 2007/4 Nickerson Phil (Completed) , Univ. of Victoria
 Principal Supervisor Student Degree Start Date: 2002/1
 Student Degree Received Date: 2007/10
 Thesis/Project Title: ***Neural Progenitor Potential in Cultured Muller Glia: Effects of Passaging and Exogenous Growth Factor Exposure***
 Project Description: Retinal stem cells in the adult rodent
 Present Position: Post Doctoral Fellow

1999/9 - 2002/4 Anne Marie Krueger-Naug, (Completed) , Dalhousie University
 Co-Supervisor Student Degree Start Date: 1999/9
 Student Degree Received Date: 2002/9
 Thesis/Project Title: ***Administration of BDNF suppresses the expression of Hsp27 in rat retinal ganglion cells following axotomy***
 Project Description: Expression of heat shock protein 27 in the normal rodent retina and following injury
 Present Position: Medical student

Post-doctorate [n=2]

Co-Supervisor Brent McGrath, (Completed) , Dalhousie University
 Student Degree Start Date: 2007/6
 Student Degree Received Date: 2010/5
 Project Description: NCAM and RGC survival
 Present Position: Resident

Principal Supervisor Chase Teena (Completed) , Dalhousie University
 Student Degree Start Date: 2006/6
 Student Degree Received Date: 2008/8
 Project Description: The effects of altering heat shock protein gene expression on neuron survival and regeneration.
 Present Position: Medical Student

Presentations

1. (2017). Treatment of Epilepsy: A Surgical Perspective. Michael Richard Visiting Professorship, Ottawa, Canada
 Main Audience: Knowledge User
 Invited?: Yes
2. (2017). Surgery for Epilepsy. 5th Annual Ottawa Neurosurgery Review Course, Ottawa, Canada
 Main Audience: Knowledge User
 Invited?: Yes
3. (2017). The Temporal Lobe: A Review for Residents. Michael Richard Visiting Professorship, Ottawa, Canada
 Main Audience: Knowledge User
 Invited?: Yes
4. (2017). Case Review. Inter-Professional Clinical Trauma Rounds, Departments of Surgery, Anesthesia, Radiology and Emergency Medicine, Halifax, Canada
 Invited?: Yes
5. (2016). Surgical Treatment of Epilepsy. QEII Health Sciences Centre Purple Day Presentation, Halifax, Canada
 Main Audience: Knowledge User
 Invited?: Yes, Keynote?: Yes
6. (2016). Pituitary Surgery - A Complicated Affair?. 19th Annual Canadian Society of Endocrinology & Metabolism Conference, Ottawa, Canada
 Main Audience: Knowledge User
 Invited?: Yes, Keynote?: Yes
7. (2016). Managing Patients with Pituitary Tumors: a brief Show and Tell. Atlantic Clinical Neurosciences Society, Saint John, Canada
 Main Audience: Knowledge User
 Invited?: Yes, Keynote?: Yes
8. (2016). Simulation-Based Training for Perioperative Nurses. 27th Atlantic Operating Nurses Conference, Halifax, Canada
 Main Audience: Knowledge User
 Invited?: Yes, Keynote?: Yes
9. (2016). Simulation: Can it be used to teach anything in the real world of neurosurgery?. Surgical Innovation, University of Toronto, Toronto, Canada
 Main Audience: Knowledge User
 Invited?: Yes, Keynote?: No
10. (2016). The Role of Surgery Bootcamps in Postgraduate Medical Education. Canadian Neurological Sciences Federation Annual Meeting, Quebec City, Canada
 Main Audience: Knowledge User
 Invited?: Yes, Keynote?: No

11. (2016). PeriopSim™ Ipad Simulation Instrument Training". QEII Health Sciences Centre OR Nurses Education Day, Halifax, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No
12. (2016). Epilepsy Surgery Review. 4th Annual Ottawa Neurosurgery Review Course, Ottawa, Canada
Main Audience: Knowledge User
Invited?: Yes
13. (2015). Technology-Based Operating Room Education and Training for Surgical Residents. Royal College of Physicians and Surgeons of Canada Simulation Summit, Banff, Canada
Main Audience: Knowledge User
Invited?: Yes
14. (2015). Pituitary Tumors: a Surgical Perspective. Pillar Pituitary Preceptorship Program for Canadian Endocrinologists, Toronto, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No
15. (2015). Initial Diagnosis and Management of Traumatic Brain Injury. Emergency Health Services, Paramedic Performance and Development Division, Dartmouth, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes
16. (2015). Initial Diagnosis and Management of Traumatic Brain Injury. Nova Scotia Health Authority Traumatic Brain Injury Trauma Webinar, Halifax, Canada
Main Audience: Knowledge User
Invited?: Yes
17. (2015). Epilepsy Surgery, A Surgeon's Perspective. Neurosurgery / Neurology Rounds, General Hospital Health Sciences Centre, St. John's, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes
18. (2015). Failed Surgery. Canadian Neurological Sciences Federation 2015 Congress, Toronto, Canada
Main Audience: Knowledge User
Invited?: Yes
19. (2015). Halifax Neuropituitary Program. Acromegaly Support Group, Halifax, Canada
Main Audience: General Public
Invited?: Yes
20. (2015). Transsphenoidal Surgery and Cushing's. Cushing Support Group Meeting, Halifax, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes
21. (2015). Epilepsy and Surgical Management. 3rd Annual Ottawa Neurosurgery Review Course, Ottawa, Canada
Main Audience: Knowledge User
Invited?: Yes
22. (2014). Surgical Treatment of Pituitary Tumors. Pillar Pituitary Preceptorship Program for Canadian Endocrinologists, Toronto, Canada
Main Audience: Knowledge User
23. (2014). Epilepsy and Surgical Management. 2nd Annual Ottawa Neurosurgery Review Course, Ottawa, Canada
Main Audience: Knowledge User

24. (2013). Simulation in Neurosurgery, Hype or Happening?. University of Minnesota, Minneapolis, United States
Main Audience: Researcher
25. (2013). Difficult Cases and Controversies in Neurosurgery, Decompressive craniectomy in head trauma and stroke: to perform or not to perform? That is the question. Canadian Neurological Sciences Federation, Montreal, Canada
Main Audience: Knowledge User
26. (2013). Pituitary Surgery: Achieving old goals with new tools. Mississauga Hospital Neuropituitary Symposium, Trillium Health Partners, Mississauga, Canada
Main Audience: Knowledge User
27. (2013). Epilepsy Fundamentals: Surgical Treatment of Epilepsy. Department of Medical Neuroscience, Halifax, Canada
Main Audience: Knowledge User
28. (2013). Surgery for Acromegaly, what we do and why. Atlantic Acromegaly Support Group Semi-Annual Meeting, Halifax, Canada
Main Audience: General Public
29. (2013). Temporal Lobe Surgery, Anatomy. Atlantic Clinical Neurosciences Society Meeting, Moncton, Canada
Main Audience: Knowledge User
30. (2013). Treating Patients with Brain Tumours: New Horizons in Neurosurgery. Brain Association Foundation, Halifax, Canada
Main Audience: Knowledge User
31. (2013). Epilepsy Fundamentals, Surgical Treatment of Epilepsy. Department of Medical Neuroscience, Halifax, Canada
Main Audience: Knowledge User
32. (2013). Neurosurgical Simulation. Dalhousie Medical Alumni Association Gala Alumni Awards, Halifax, Canada
Main Audience: General Public, Keynote?: Yes
33. (2013). Neurosurgery Rookie Camp. Interdisciplinary Professional Development Day, Simulation Based Health Professional Education, Departments of Anesthesia, Pain Management and Perioperative Medicine, Department of Surgery and Capital Health Authority Perioperative Nursing, Dalhousie, Halifax, Canada
Main Audience: Knowledge User
34. (2012). Temporal Lobe Surgery. First Havana-Halifax Temporal Lobe Epilepsy Course, Havana, Cuba
Main Audience: Knowledge User
Invited?: Yes
35. (2012). Assessment of Simulation in Neurosurgical Curriculum. Summer Institute 2012, Halifax, Canada
Main Audience: Knowledge User
Invited?: Yes
36. (2012). Virtual Reality Neurosurgery: Training the Next Generation of Surgeons. Annual Face-to-Face Meeting, National Research Council - Industrial Research Assistance-Program, Halifax, NS, Halifax, Canada
Main Audience: Researcher
Invited?: Yes
37. (2012). Temporal Lobe Surgery: Anatomy. First Havana-Halifax Temporal Lobe Epilepsy Course, Havana, Cuba
Main Audience: Knowledge User
Invited?: Yes

38. (2011). Virtual Reality Operating Room. Adams Super-Center for Brain Studies, Tel Aviv University, Israel, Tel-Aviv, Israel
Main Audience: Knowledge User
Invited?: Yes
39. (2010). Surgical Simulation. Oregon Neurosurgical Society Annual Meeting, Newberg, Oregon, Newberg, United States
Main Audience: Knowledge User
Invited?: Yes
40. (2010). Virtual Reality Brain Surgery: Training the Next Generation of Neurosurgeons. Halifax Brain Tumour Information Day Conference, Brain Tumour Foundation of Canada, Halifax, NS, Halifax, Canada
Main Audience: General Public
Invited?: Yes
41. (2010). Getting Head-Injured Patients to Neurosurgical Care – How Are We Doing?. Trauma 2010 Conference, Halifax, Canada
Main Audience: Knowledge User
Invited?: Yes
42. (2006). Vagal Nerve Stimulators. Epilepsy-Centre Bethel, Bielefeld, Bielefeld, Germany
Main Audience: Knowledge User
Invited?: Yes

Publications

Journal Articles

1. Haji F, Clarke DB, Matte M, Brandman DM, Brien S, deRibaupierre S, O'Kelly C, Christie S, McDonald PJ, Kulkarni AV, Walling S, MacLeod A. Teaching for the Transition: the Canadian PGY-1 Neurosurgery 'Rookie Camp'. Canadian Journal of Neurological Sciences. 42(01): 25-33.
Co-Author
Published,
2. Burrell S, Hebb ALO, Imran SA, Mishra A, Mawko G, Clarke DB. (2017). Visualization of 90 Yttrium Colloid Within A CysticCraniopharyngioma Using PET/CT/MRI Fusion. The Canadian Journal of Neurological Sciences.
Last Author
In Press,
3. Huybers S, Fenerty L, Kureshi N, Thibault-Halman G, LeBlanc JC, Clarke DB, Walling S. (2017). Long-Term Effects of Education and LegislationEnforcement on All-Age Bicycle Helmet Use: A Longitudinal Study. Journal of Community Health. 42: 83-89.
Co-Author
Published,
4. Stevens MT, Clarke DB, Stroink G, Beyea SD, D'Arcy RC. (2016). Improving fMRI reliability in presurgical mapping for brain tumours.J Neurol Neurosurg Psychiatry. 87(3): 267-74.
Co-Author
Published,
5. Imran SA, Tiemensma J, Kaiser SM, Vallis M, Doucette S, Abidi E, Yip CE, Tugwell BD, Siddiqi F, Clarke DB. (2016). Morphometric Changes Correlate with Poor Psychological Outcomes in Patients with Acromegaly. European Journal of Endocrinology. 174(1): 41-50.
Last Author
Published,

6. Munro V, Tugwell B, Doucette S, Clarke DB, Lacroix A, Imran SA. (2016). Recovery of Adrenal Function after Chronic Secondary Adrenal Insufficiency in Patients with Hypopituitarism. *Clinical Endocrinology (Oxf)*. 85(2): 216-22.
Co-Author
Published,
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