

Colin B. Josephson, M.D., M.Sc., F.R.C.P.C., CSCN (EEG)

Curriculum Vitae

1. BIOGRAPHICAL DATA

Name: Colin Bruce Josephson
Address: Foothills Medical Centre
Office 3E45, Teaching Research and Wellness Bld.
Calgary, AB, Canada, T2N 2T9
Telephone: +1 (403) 220-4289
Email: cbjoseph@ucalgary.ca

Present rank: Assistant Professor of Neurology
Department: Clinical Neurosciences
Faculty: Medicine
Institution: University of Calgary

II. ACADEMIC RECORD

Ongoing degree

Date expected
Specialty
Institution/City/Country

Masters of Epidemiology

September 2017
Epidemiology
University of Calgary, Calgary, Canada

i. Undergraduate

Date completed
Specialty
Institution/City/Country

Medical degree (MD)

May 2006
Medicine
Dalhousie University, Halifax, Canada

Bachelor of Science (Honours)

Date completed
Specialty
Institution/City/Country

April 2000
Biology
Queen's University, Kingston, Canada

ii. Special Professional

Date completed
Specialty

Neurology FRCP(C)

June 2013
Neurology

Institution/City/Country Dalhousie University, Halifax, Canada

iii. Graduate and post-doctoral

Visiting Research Scholar

Date completed

December 2015

Specialty

Big Data research and analytics

Institution/City/Country

Farr Institute; University College London, London, UK

Clinical Research Fellow

Date completed

June 2013

Specialty

Epilepsy and EEG

Institution/City/Country

University of Calgary, Calgary, Canada

Clinical Research Fellow

Date completed

February 2011

Specialty

Intracranial Vascular Malformations

Institution/City/Country

University of Edinburgh, Edinburgh, United Kingdom

Masters of Science (Dean's List Honours)

Date completed

September 2003

Specialty

Physiology

Title of thesis

Determination of sites in the Na(+)/H(+) Exchanger Isoform 1 (NHE1) involved in ion translocation

Supervisor

Dr. John Orłowski

Institution/City/Country

McGill University, Montreal, Canada

iv. Licensure, certification, boards

2015-present

Canadian Society for Clinical Neurophysiology (EEG) certification

2013-present

College of Physicians and Surgeons of Alberta

2013-present

Fellow of the Royal College of Physicians and Surgeons of Canada

2013-present

Specialist Certificate, Neurology, Royal College of Physicians and Surgeons of Canada

2009-2011

United Kingdom General Medical Council

2007-present

Licentiate of the Medical Council of Canada (LMCC)

2006-2013

Nova Scotia College of Physicians and Surgeons

III. AWARDS AND DISTINCTIONS

2017	Accepted into the 2017 International League Against Epilepsy (ILAE) Leadership Program
2016	12 th European Congress on Epilepsy Highly Commended Certificate for Poster Presentation of 'Adverse psychological effects of levetiracetam compared to seven other common anti-epileptic drugs in adults with epilepsy in general practice'
2015	Alberta Innovation and Advanced Education Graduate Student Scholarship for \$3000.00
2014	American Brain Foundation/American Academy of Neurology/American Epilepsy Society/Epilepsy Foundation Susan S. Spencer Clinical Research Training Fellowship in Epilepsy
2014	Alberta Innovates Health Solutions (AIHS) Clinician Fellowship recipient
2013	Canadian Institutes Health Research (CIHR) Fellowship recipient
2013	American Epilepsy Society Fellow Travel Award
2013	Canadian Society of Clinical Neurophysiologists (CSCN) National Clinical Fellowship in Epilepsy and Electroencephalography
2013	Canadian League Against Epilepsy Mary Ann Lee Award for best neurology or neurosurgery resident research
2012	Dalhousie University Neurosciences Research Day best oral presentation
2011	Dalhousie University Faculty of Medicine Research Day DMAA Award for best oral presentation
2011	Dalhousie University Department of Medicine Research Day award for best oral presentation
2010	European Stroke Conference Young Investigator of the Year Award.
2010	Royal College of Physicians London 'International Advisors as Partners: Models of Collaboration' Meeting award for poster presentation
2010	Angioma Alliance Travel Award
2006	Richard Payzant Ward Travel Bursary to attend the Canadian Congress of Neurological Sciences

2006	Dalhousie University Graham Gwyn Memorial Prize in Neurology
2006	Dalhousie International Health Office Travel Bursary
2005	Recipient of Top Poster Presentation Prize at the Dalhousie Faculty of Medicine Student Research Day
2004	Canadian Cardiovascular Academy "Have a Heart Bursary"
2003	Awarded Dean's List Honours on graduation with an M.Sc. from McGill University
2002	Awarded runner-up for oral presentation at the 8 th Annual McGill University Department of Physiology Graduate Students Research Day
2001	Awarded runner-up for poster presentation at the 7 th Annual McGill University Department of Physiology Graduate Students Research Day
2000	Awarded the Faculty of Graduate Studies and Research Fellowship as the top-ranked incoming graduate student to McGill University's Department of Physiology
2000	Ontario University Athletics (OUA) Academic All-Ontario Status
1999	Ontario University Athletics (OUA) Academic All-Ontario Status
1997-2001	Member of the Queen's University Varsity Curling Team
1997	Awarded Dean's List Status at Acadia University
1997	Recipient of the Clarke K. McLeod Pre-Medical Scholarship at Acadia University
1996	Awarded a mid-year scholarship for academic achievement at Acadia University

IV. ACADEMIC APPOINTMENTS

2017-present	Member of the Denaxas Laboratory at the University of College London and Farr Institute of Health Informatics Research
2016-present	Assistant Professor of Neurology; University of Calgary
2013-2015	Clinical Research Fellow in Epilepsy; University of Calgary
2011-2012	Co-Chief Resident in Neurology; Dalhousie University

2009-2011 Clinical Research Fellow in Vascular Malformations of the Brain; University of Edinburgh

V. EDUCATIONAL ACTIVITIES

i. Undergraduate

2017- University of Calgary Faculty of Medicine Clinical lecturer on epilepsy for Course V

2017- Evaluation chair of the University of Calgary Faculty of Medicine course MDCN 440: Applied Evidence Based Medicine

2017- University of Calgary MDCN 440: Applied Evidence Based Medicine small group preceptor

2015- University of Calgary Clinical Core Course V preceptor for small group teaching of medical students

2014- University of Calgary Clinical Core Course V preceptor for clinical skills teaching for medical students

2008 Tutor for Dalhousie Medical School small group Epidemiology tutorials

2006-2013 Instructor for Dalhousie second year medical student clinical skills unit

2006-2012 Responsible for supervising medical students rotating through Clinical Neurology

2002 Teaching Assistant for Introductory Physiology Laboratory Course at McGill University

ii. Resident

2016- Prepared and invigilated epilepsy OSCEs for residents from the PGY-1 to -5 level

2016- Mentored residents during their 3-month Epilepsy Rotation including in clinic, reading EEGs, and on the Seizure Monitoring Unit

2016- University of Calgary Neurology Continuum Rounds facilitator

2015- University of Calgary Neurology Residents' 'Spot the brain cell' lectures

iii. Continuing medical education

- 2017- Co-organiser for the 2018 8th Epilepsy Symposium and the 21st Western Epilepsy Workshop
- 2017- Co-organiser for the University of Calgary's CME accredited Epilepsy Course for General Practitioners

iv. Supervision

- 2017 Mr. Connor Banks; undergraduate summer student from Carleton University (co-supervised with Dr. Nathalie Jette)
- 2016-2017 Ms. Ana Subota; undergraduate Bachelor of Health Sciences student project (co-supervised with Dr. Nathalie Jette for course MDSC 507)

VI. ADMINISTRATIVE RESPONSIBILITIES

i. Departmental

- 2017- Head of the Calgary Comprehensive Epilepsy Program Registry/Research Project
- 2017- Co-Director of Education and Fellowship Director for the University of Calgary's Division of Epilepsy
- 2017- Co-Director of Education for the University of Calgary's Division of Epilepsy
- 2016- Co-chair of the Division of Neurology Resident Research Sub-Committee of the Residency Program Committee
- 2011-2012 Co-chief resident for the Division of Neurology
- 2011-2012 Member of the Dalhousie Adult Neurology Resident-in-Training Committee
- 2008 Member of the interview committee for Dalhousie Adult Neurology Residency Program
- 2003- 2004 Dalhousie University Med II Class Representative for the Electives Block of the School Curriculum
- 2001- 2002 President of the McGill University Physiology Graduate Student Association

ii. Faculty

2017-	Evaluation Chair for University of Calgary Faculty of Medicine course MDCN 440: Applied Evidence-Based Medicine
2003-2004	Co-chair of the 2004 Atlantic Medical School conference held in Halifax, NS
2001- 2002	Department of Physiology representative to the Faculty of Graduate Studies & Research

iii. University

2005-2006	Member of the interview committee for Dalhousie Medical School admissions
2001- 2002	McGill University Post -Graduate Student Society (PGSS) Councilor
1998	Member of the organizing and leadership team of the New Exchange and Transfer Student Orientation Week (NEWTS) at Queen's University

VII. PROFESSIONAL ACTIVITIES

i. Membership in professional and learned societies

2015-present	Canadian Society for Clinical Neurophysiology (EEG) certification
2013-present	Fellow of the Royal College of Physicians and Surgeons of Canada
2013-present	College of Physicians and Surgeons of Alberta
2013-present	Alberta Medical Association
2012-present	American Epilepsy Society
2012-present	Canadian League Against Epilepsy
2009-2011	General Medical Council
2007-present	Licentiate of the Medical Council of Canada (LMCC)
2007-present	American Academy of Neurology
2007-present	Canadian Medical Association
2007-present	Medical Council of Canada

ii. Professional service

Journal review (ad hoc)

Completed

- 1) Neurology
- 2) Canadian Medical Association Journal
- 3) Stroke
- 4) Advances in Clinical Neuroscience and Rehabilitation
- 5) British Medical Journal
- 6) McMaster Online Rating of Evidence (MORE)
- 7) Cochrane Database of Systematic Reviews
- 8) Canadian Journal of Neurological Sciences
- 9) Journal of Neurology, Neurosurgery, and Psychiatry
- 10) Acta Neurologica Scandinavica
- 11) Epilepsia Open
- 12) Seizure
- 13) BMJ Open
- 14) Journal of the Neurological Sciences

Grant review (ad hoc)

Completed

2017 United Kingdom Stroke Association

National and international committees

2017- Canadian Board of Registration of Electroencephalograph Technologists, Inc. (C.B.R.E.T., Inc.) Examiner

2017- Member of the International League Against Epilepsy Task Force on Big Data/Open Data (Chaired by Dr. Samden Lhatoo)

2017- Member of the International League Against Epilepsy Sub-Task Force on Driving (Chaired by Dr. Nathalie Jette)

2014-2016 Canadian League Against Epilepsy (CLAE) Junior Member Representative

VIII. RESEARCH AND SALARY AWARD SUPPORT

Amount	Funding agency	Year(s) of funding	Project/Activity
3000.00 (CAD)	Alberta Innovation and Advanced Education Graduate Student Scholarship	2015	Masters of Epidemiology
130,000.00 (USD)	American Brain Foundation/American Epilepsy Society/Epilepsy Foundation/American Academy of Neurology	2014-2016	Susan S. Spencer Clinical Research Training Fellowship in Epilepsy
210,000.00 (CAD)	Alberta Innovates: Health Solutions	2014-2017	Alberta Innovates: Health Solutions Clinician Fellowship
165,000.00 (CAD)	Canadian Institutes of Health Research	2013-2016	Canadian Institutes of Health Research Fellowship
65,000.00 (CAD)	Canadian Society of Clinical Neurophysiologists	2013	Canadian Society of Clinical Neurophysiologists Clinical Fellowship in Epilepsy and Electroencephalography

IX INVITED ADDRESSES

i. Invited talks

2017 American Epilepsy Society Meeting

- Presentation: Epilepsy or just getting old?
Diagnostic challenges in elderly

2017 Hotchkiss Brain Institute-Melbourne Epilepsy Symposium

- Presentation: Linked Electronic Medical Records as a Means of Studying the Epidemiology of Epilepsy
- 2017 20th Annual Western Epilepsy Workshop, Banff, AB, Canada
- Presentation: Some like it hot: a red (or scarlet) herring or a cause of seizures?
- 2016 7th Annual Calgary Epilepsy Symposium, Calgary, AB, Canada
- Presentation: Some like it hot: a red (or scarlet) herring or a cause of seizures?
- 2016 7th Annual Calgary Epilepsy Symposium, Calgary, AB, Canada
- Presentation: The best laid schemes of mice and men go oft awry: The perils of autoimmunity
- 2016 Canadian League Against Epilepsy Biennial Meeting, Quebec City, QC, Canada
- Moderator for the Statistics in Medicine course
 - Presentation: An approach to meta-analytic studies
- 2016 Hotchkiss Brain Institute Research Day, Calgary, AB, Canada
- Big data in epilepsy: can Goliath finally conquer David?
- 2015 Canadian Epilepsy Research Initiative, Toronto, ON, Canada
- Big data: can Goliath finally conquer David?
- 2010 Scottish Audit of Intracranial Vascular Malformations 10year Celebration, Edinburgh, UK
- The risk of epileptic seizure after the diagnosis of a cavernous or arteriovenous malformations

- 2010 Annual Scottish Epilepsy Nurses Association (ESNA) Meeting, Edinburgh, UK
- The risk of epileptic seizure and a clinical audit of patient care after the diagnosis of a cavernous or arteriovenous malformations
- 2007 Dalhousie University Department of Medicine Grand Rounds, Halifax, NS, Canada
- Fits or Faints?

ii. Interviews

- 2017 MedPage Today
- An overview of epilepsy and psychiatric comorbidities
- 2017 Reuters Health
- Association of depression and treated depression with epilepsy and seizure outcomes: a multi-cohort analysis.
- 2017 MedPage Today
- Association of depression and treated depression with epilepsy and seizure outcomes: a multi-cohort analysis.

X. PUBLICATIONS/PRESENTATIONS

i. Peer-reviewed publications

1. Lunney M, Wahby S, Sauro K, Atkinson MJ, Josephson CB, Girgis F, Singh S, Patten SB, Jette N, Sajobi TT, and Wiebe S. Patient Satisfaction with epilepsy surgery: what is important to patients? **Submitted to Epilepsia**
2. Spring AM, Pittman DJ, Agha-Khani Y, Jirsch J, Pillay N, Bello-Espinosa LE, Josephson CB, and Federico P. Interrater reliability and generalizability of high frequency oscillation evaluations. **Submitted to Epilepsia**

3. Lukmanji S, Sauro KM, Josephson CB, Altura KC, Wiebe S, and Jette N. A Longitudinal cohort study on the impact of the clobazam shortage on patients with epilepsy. **Submitted to Epilepsia**
4. Josephson CB, Gonzalez-Izquierdo A, Denaxas S, Fitzpatrick N, Sajobi T, Engbers JDT, Patten S, Jette N, and Wiebe S. Serotonin reuptake inhibitor use and mortality in epilepsy: findings from a contemporary linked electronic health records cohort study. **Submitted to Epilepsia**
5. Josephson CB and Jette, N. Psychiatric comorbidities in epilepsy. **International Review of Psychiatry**. 2017; Jul 6:1-16. doi: 10.1080/09540261.2017.1302412. [Epub ahead of print]
6. Josephson CB, Patten SB, Bulloch A, Williams JVA, Lavorato D, Fiest KM, and Jette N. The impact of seizures on epilepsy outcomes: a national, community-based survey. **Epilepsia**. 2017; 58(5):764-771.
7. Josephson CB, Lowerison M, Vallerand I, Sajobi TT, Patten S, Jette N, and Wiebe S. Association of depression and treated depression with epilepsy and seizure outcomes: a multi-cohort analysis. **JAMA Neurology**. 2017; 74(5):533-39.
8. Fishman J, Cohen G, Josephson CB, Collier M, Bharatham S, Zhang Y, and Wild I. Patient emotions and perceptions of antiepileptic drug changes and titration during treatment for epilepsy. **Epilepsy and Behavior**. 2017; 69:44-52.
9. Spring A, Pittman DJ, Agha-Khani A, Jirsch J, Pillay N, Bello-Espinosa LE, Josephson CB, and Federico P. Interrater reliability of visually evaluated high frequency oscillations. **Clinical Neurophysiology**. 2017; 128(3):433-41.
10. Josephson CB, Sandy, S, Jette, N, Sajobi, TT, Marshall, D, and Wiebe S. A systematic review of clinical decision rules for epilepsy. **Epilepsy and Behavior**. 2016; 57(Pt A): 69-76
 - Editorial for this article: Pugh MJ. Clinical decision rules for epilepsy care: The case for thinking big. **Epilepsy and Behaviour** 2016; 57(Pt A): 220-1
11. Josephson CB, Engbers J, Jette N, Agha-Khani Y, Federico P, Hanson A, Murphy W, Pillay N, and Wiebe S. Towards a clinically informed, data driven definition of elderly-onset epilepsy. **Epilepsia**. 2016; 57(2): 298-305

12. Josephson CB, Engbers J, Jette N, Agha-Khani Y, Federico P, Hanson A, Murphy W, Pillay N, and Wiebe S. An investigation into the psychosocial effects of the postictal state. **Neurology**. 2016; 86(8): 723-30
13. Josephson CB*, Sauro K*, Clement F, Wiebe S, and Jette N. Medical versus invasive therapy in AVM-related epilepsy: systematic review and meta-analysis. **Neurology**. 2015; 86(1): 64-71
 - *=co-first authors
14. Josephson CB, Rosenow F, and Al-Shahi Salman R. Intracranial vascular malformations and epilepsy. **Seminars in Neurology**. 2015; 35(3): 223-234
15. Samarasekera N, Lerpiniere C, Fonville AF, Farrall AJ, Wardlaw JM, White PM, Torgersen A, Ironside JW, Smith C, Al-Shahi Salman R, Lothian Audit of the Treatment of Cerebral Haemorrhage (LATCH) collaborators (including Josephson, C). Consent for brain tissue donation after intracerebral haemorrhage: a community-based study. **PLoS One**. 2015; 10(8): e0135043
16. Jinadasa T*, Josephson CB*, Boucher A, and Orlowski J. Determinants of Cation Permeation and Drug Sensitivity in Predicted Transmembrane Helix 9 and Adjoining Exofacial Re-Entrant Loop 5 of Na⁺/H⁺ Exchanger NHE1. *Journal of Biological Chemistry*. 2015; 290(29):18173-86
 - *=co-first authors
17. Josephson CB, White PM, Krishan A, Al-Shahi Salman R. Computed tomography angiography or magnetic resonance angiography for detection of intracranial vascular malformations in patients with intracerebral haemorrhage. **Stroke Cochrane Corner**. 2015; 46: e2-e3
18. Josephson CB, White PM, Krishan A, Al-Shahi Salman R. Computed tomography angiography or magnetic resonance angiography for detection of intracranial vascular malformations in patients with intracerebral haemorrhage. **Cochrane Database of Systematic Reviews** 2014, Issue 9. Art. No.: CD009372. DOI: 10.1002/14651858.CD009372.pub2.
19. Moultrie F, Horne MA, Josephson CB, Hall JM, Counsell CE, Warlow CP, Papanastassiou V, Murray GD, Al-Shahi Salman R and the Scottish Audit of Intracranial Vascular Malformations collaborators. Outcome after surgical or conservative management of cerebral cavernous malformations: prospective, population-based cohort study. **Neurology**. 2014; 83(7): 582-589

- Editorial for this article: Bernardini GL and Stapf C. Cavernoma today: Keep the surgeon away? **Neurology**. 2014; 83(7): 576-577.
20. Al-Shahi Salman R, White PM, Counsell CE, du Plessis J, van Beijnum J, Josephson CB, Wilkinson T, Wedderburn CJ, Sallon Z, Bhattacharya JJ, Papanastassiou V, St. George EJ, Ritchie V, Roberts RC, Sellar RJ, Warlow CP and the Scottish Audit of Intracranial Vascular Malformations collaborators. Outcome after conservative management or treatment of unruptured brain arteriovenous malformations or associated arterial aneurysms: prospective, population-based cohort study. **JAMA**. 2014; 311(16): 1661-1669
 21. Josephson CB, Dykeman J, Fiest KM, Liu X, Sadler RM, Jette N, and Wiebe S. Systematic review and meta-analysis of standard vs selective temporal lobe epilepsy surgery. **Neurology**. 2013; 80(18): 1669-1676.
 - Editorial for this article: Mathern GW and Miller JW. Outcomes for temporal lobe epilepsy operations may not be equal: A call for an RCT of ATL vs SAH **Neurology**. 2013; 80(18): 1630-1631.
 - Patient Page for this article: Karceski S. Temporal lobe epilepsy surgery: What is the best approach?/About Epilepsy. **Neurology**. 2013; 80(18): e192-e194.
 22. Josephson CB, Bhattacharya JJ, Counsell CE, Papanastassiou V, Ritchie V, Roberts RC, Sellar R, Warlow CP, and Al-Shahi Salman R. Seizure risk with AVM treatment or conservative management: prospective, population based study. **Neurology**. 2012; 79(6): 500-507.
 - Editorial for this article: Stapf C. Interventional AVM therapy against epileptic seizures: Treatment between Scylla and Charybdis? **Neurology**. 2012; 79(6): 492-493.
 23. Josephson CB and Pohlmann-Eden B. The “natural” history of medically treated temporal lobe epilepsy: what can an evidence-based approach tell us? **Epilepsy Research and Treatment**. 2012; vol 212, Article ID 216510
 24. Al-Shahi Salman R, Hall JM, Horne MA, Moultrie F, Josephson CB, Bhattacharya JJ, Counsell CE, Murray GD, Papanastassiou V, Ritchie V, Roberts RC, Sellar RJ, Warlow CP. The untreated clinical course of cerebral cavernous malformations: prospective, population-based cohort study. **Lancet Neurology**. 2012; 11(3): 217-224
 25. Josephson CB, Leach JP, Duncan R, Roberts RC, Counsell CE, and Al-Shahi Salman R. Seizure risk from cavernous or arteriovenous malformations: prospective population-based study. **Neurology**. 2011; 76(18): 1548-1554.

- Editorial for this article: Hauser WA and Mohr JP. Seizures, epilepsy, and vascular malformations. *Neurology*. 2011; 76: 1540-1541
26. Josephson CB, Frantzas J, Samarasekera N, and Al-Shahi Salman R. The persisting burden of intracerebral haemorrhage: can effective treatments be found? *PLoS Medicine*. 2010; 7(10): e1000353
 27. Josephson CB and Al-Shahi Salman R. Can an iPhone app help stroke physicians? *Lancet Neurology*. 2010; 9(8): 765
 28. Josephson CB, Al-Azri S, Smyth DJ, Haase D, and Johnston BL. A case of Pott's disease with epidural abscess and probable cerebral tuberculoma following Bacillus Calmette-Guerin therapy for superficial bladder cancer. *Can J Infect Dis Med Microbiol*. 2010; 21(1): e75-78
 29. Josephson CB, Grant I, and Benstead T. Opsoclonus-myoclonus with multiple paraneoplastic syndromes and VGCC antibodies. *Can J Neurol Sci*. 2009; 36(4): 512-514
 30. Josephson CB, Phillips SJ, and Al-Shahi Salman R. BMJ Endgames: An episode of transient neurological symptoms. A review of the diagnosis and management of TIAs. *BMJ*. 2009; 338:b616.
 31. Josephson CB, Delgado D, Schiff J, and Ross H. The effectiveness of renal transplantation as a treatment for recurrent uremic cardiomyopathy. *Can J Cardiol*. 2008; 24 (4):315-317
 32. Josephson CB, Rahey S, and Sadler RM. Neurocardiogenic syncope: frequency and consequences of its misdiagnosis of epilepsy. *Can J Neurol Sci*. 2007; 34: 221-224
 33. Josephson CB, Howlett JG, Jackson SD, Finley J, and Kells CM. A case series of systemic right ventricular dysfunction post atrial switch for simple D-transposition of the great arteries: the impact of beta-blockade. *Can J Cardiol*. 2006; 22(9): 769-772.

ii. Books, chapter

1. Josephson CB and Wiebe S. Chapter 3: Medication-resistant epilepsy: An analysis of the definition and its use. 2016 in: STERN & SPERLING: Medication-Resistant Epilepsy

2. Josephson CB and Al-Shahi Salman R. Chapter 9: Haemorrhage: new and recurrent. In: Rigamonti, D, editor. 2011 in: *Cavernous Malformations of the Nervous System*. Cambridge: Cambridge University Press

iii. Presentations/abstracts

1. Lukmanji S, Sauro K, Josephson CB, Wiebe S, Nurse S, and Jette N. A Longitudinal Cohort Study on the Impact of the Clobazam Shortage on Patients with Epilepsy: A Patient Perspective. Submitted to the Canadian League Against Epilepsy Biennial Meeting; October 2017 (poster presentation)
2. Lethbe GC, Josephson CB, Wiebe S, Lowerison MW, Lethbe BC, and Williamson T. Effect of admittance to the Seizure Monitoring Unit on aggregate healthcare resource utilization. Submitted to the Campus Alberta Students Conference on Health (CASCH) September 2017 (poster presentation)
3. Josephson CB, Gonzalez-Izquierdo A, Denaxas S, Fitzpatrick N, Sajobi T, Engbers J, Patten S, Jette N, and Wiebe S. Serotonin reuptake inhibitor use and mortality in epilepsy: findings from a contemporary linked electronic health records cohort study. Accepted for poster presentation at the 2017 International Epilepsy Congress
4. Josephson CB, Gonzalez-Izquierdo A, Denaxas S, Fitzpatrick N, Sajobi T, Engbers J, Patten S, Jette N, and Wiebe S. Serotonin reuptake inhibitor use and mortality in epilepsy: findings from a contemporary linked electronic health records cohort study. Informatics for Health 2017, A Farr Institute scientific conference (Manchester, UK) April 2017 (platform presentation)
5. Lukmanji S, Sauro K, Josephson CB, Wiebe S, Nurse S, and Jette N. A Longitudinal Cohort Study on the Impact of the Clobazam Shortage on Patients with Epilepsy: A Patient Perspective. Annual Calgary Epilepsy Program and the Hotchkiss Brain Institute Epilepsy Neuroteam Research Retreat; March 2017 (platform presentation)
6. Josephson CB, Lowerison M, Vallenrand I, Sajobi TT, Patten S, Jette N, Wiebe S. A multi-cohort approach to establishing major depressive disorder as both an independent risk factor and modifier of the expression of epilepsy. European Epilepsy Congress (Prague, Czech Republic) September 2016 (platform presentation)
7. Josephson CB, Engbers JDT, Patten S, Lowerison M, Sajobi TT, Jette N, Wiebe S. Psychological adverse effects of levetiracetam compared to seven other common anti-epileptic drugs in adults with epilepsy in general practice; an updated analysis. European Epilepsy Congress (Prague, Czech Republic) September 2016 (poster presentation)

8. Fishman J, Cohen G, Josephson CB, Collier M, Bharatham S, Zhang Y, Wild I. Patient emotions and perceptions of antiepileptic drug changes and titration during treatment for epilepsy. American Academy of Neurology (Vancouver, Canada) April 2016 (poster presentation)
9. Ewert K, Engbers J, Sajobi T, Josephson CB, Jetté N, Wiebe S. Predicting mortality in epilepsy in general practice. American Epilepsy Society Meeting (Philadelphia, USA) December 2015 (poster presentation)
10. Lowerison MW, Engbers J, Sajobi T, Josephson CB, Jetté N, Wiebe S. Impact of exposure to neurological specialist care on mortality in epilepsy in a Canadian province population. American Epilepsy Society Meeting (Philadelphia, USA) December 2015 (poster presentation)
11. Engbers, J, Josephson CB, Lunney M, Lowerison M, Patten S, Jetté N, Wiebe S. Adverse psychological effects of Levetiracetam in adults with epilepsy in general practice. American Epilepsy Society Meeting (Philadelphia, USA) December 2015 (poster presentation)
12. Lunney M, Sauro, K, Atkinson M, Josephson CB, Girgis F, Singh S, Patten SB, Jetté N, Hader W, Wiebe S. Identification of themes relevant to patients' evaluation of their satisfaction with epilepsy surgery through focus group discussions. American Epilepsy Society Meeting (Philadelphia, USA) December 2015 (poster presentation)
13. Josephson CB, Sauro, K., Clement, F., Wiebe, S. and Jette N. Medical versus invasive therapy in AVM-related epilepsy: systematic review and meta-analysis. International Epilepsy Congress (Istanbul, Turkey) September 2015 (poster presentation)
14. Josephson CB, Engbers J, Jette N, Agha-Khani Y, Federico P, Hanson A, Murphy W, Pillay N, and Wiebe S. Epilepsy in the elderly: a distinct entity? American Epilepsy Society Annual Meeting (Seattle, USA) December 2014 (poster presentation)
15. Josephson CB, Engbers J, Jette N, Agha-Khani Y, Federico P, Hanson A, Murphy W, Pillay N, and Wiebe S. The clinical and psychosocial impact of the postictal state. American Epilepsy Society Annual Meeting (Seattle, USA) December 2014 (poster presentation)
16. Josephson CB, and Pillay N. A case of intractable focal epilepsy. Western Epilepsy Conference (Banff, Canada) February 2014 (platform presentation)

17. Josephson CB, and Jette N. A case of status epilepticus in the context of Angelman Syndrome. Mary Ann Lee Annual Meeting (Calgary, Canada) October 2013 (platform presentation)
18. Josephson CB, and Wiebe. A selective approach to a standard problem? Comparison of selective amygdalohippocampectomy and standard anterior temporal lobe resection. International League Against Epilepsy Meeting (Montreal, Canada) June 2013 (platform presentation)
19. Josephson CB, Dykeman J, Fiest KM, Liu X, Sadler RM, Jette N, and Wiebe S. Comparison of standard and selective temporal lobe surgery: systematic review and meta-analysis. American Epilepsy Society Annual Meeting (San Diego, USA), December 2012 (poster presentation)
20. Josephson CB, and Al-Shahi Salman R. The 30-day complication rate following brain arteriovenous malformation/aneurysm embolisation: prospective population-based study. 1st Annual World AVM Congress (Edinburgh, UK) September 2012 (platform presentation)
21. Josephson CB, Al-Shahi Salman R, Hall JM, Horne MA, Moultrie F, Bhattacharya JJ, Counsell CE, Murray GD, Papanastassiou V, Ritchie V, Roberts RC, Sellar RJ, Warlow CP. Untreated clinical course of cerebral cavernous malformations: a prospective, population-based cohort study. Atlantic Neurosciences Meeting (Halifax, Canada) May 2012 (platform presentation)
22. Josephson CB, Gubitz GG, and Philips SJ. A case of neurovascular syphilis. Canadian Stroke Course (Toronto, Canada) February 2012 (platform presentation)
23. Josephson CB, Bhattacharya JJ, Counsell CE, Papanastassiou V, Ritchie V, Roberts RC, Sellar R, Warlow CP, and Al-Shahi Salman R. Seizure outcomes after interventional or conservative management of brain arteriovenous malformations: prospective, population based cohort study. American Epilepsy Society Annual Meeting (Baltimore, USA) December 2011 (poster presentation)
24. Josephson CB, Leach JP, Duncan R, Roberts RC, Counsell CE, and Al-Shahi Salman R. The risk of epileptic seizure after the diagnosis of a cavernous or arteriovenous malformation. Dalhousie University Faculty of Medicine Research Day (Halifax, Canada) May 2011 (platform presentation)

25. Josephson CB, Leach JP, Duncan R, Roberts RC, Counsell CE, and Al-Shahi Salman R. The risk of epileptic seizure after the diagnosis of a cavernous or arteriovenous malformation. Dalhousie University Department of Medicine Research Day (Halifax, Canada) March 2011 (platform presentation)
26. Josephson CB, Leach JP, Duncan R, Roberts RC, Counsell CE, and Al-Shahi Salman R. The risk of epileptic seizure after the diagnosis of a cavernous malformation of the brain: prospective, population-based study. Angioma Alliance 6th Annual Pathobiology of CCM Scientific Workshop (Washington, USA) November 2010 (platform presentation)
27. Josephson CB, Frantzas J, and Al-Shahi Salman R. An audit of the management of epilepsy affecting adults with a cavernous or arteriovenous malformation of the brain. Annual Scottish Neurosciences Council and the Neurological Alliance of Scotland Meeting (Edinburgh, UK) September 2010 (poster presentation)
28. Josephson CB, Leach JP, Duncan R, Roberts RC, Counsell CE, and Al-Shahi Salman R. Seizure risk from cavernous or arteriovenous malformations: prospective population-based study. Royal College of Physicians and Surgeons (London) International Advisors Meeting (London, UK) June 2010 (poster presentation)
29. Josephson CB, Leach JP, Duncan R, Roberts RC, Counsell CE, and Al-Shahi Salman R. Seizure risk from cavernous or arteriovenous malformations: prospective population-based study. European Stroke Conference (Barcelona, Spain) May 2010 (platform presentation)
30. Josephson CB, Al-Azri S, Smyth DJ, Haase D, and Johnston BL. Mycobacterium bovis vertebral osteomyelitis, epidural abscess, and possible cerebral tuberculoma following intravesical BCG therapy. Canadian Neurological Sciences Federation Meeting (Halifax, Canada) June 2009 (poster presentation)
31. Josephson CB, Grant I, and Benstead T. Opsoclonus-myooclonus with multiple paraneoplastic syndromes and VGCC antibodies. Canadian Neurological Sciences Federation Meeting (Halifax, Canada) June 2009 (poster presentation)
32. Josephson CB, and Weaver D. Consciousness and the role of gamma-wave synchronicity in sensory binding. Julian Jaynes Conference on Consciousness (Charlottetown, Canada) August 2008 (platform presentation)

33. Josephson CB, Rahey S, and Sadler RM. Neurocardiogenic syncope: frequency and consequences of its misdiagnosis of epilepsy. Canadian Congress of Neurological Sciences (Montreal, Canada) June 2006 (platform presentation)
34. Josephson CB, Gubitza GG, and Phillips SJ. Pre-stroke functional status influences outcome in patients classified according to the OCSF subtype. Canadian Congress of Neurological Sciences (Montreal, Canada) June 2006 (platform presentation)
35. Josephson CB, Howlett JG, Jackson SD, Finley J, and Kells CM. Systemic Right Ventricular Dysfunction Post Atrial Switch for Isolated D-Transposition of the Great Arteries: The Impact of Beta-Blockade. Canadian Cardiovascular Congress (Calgary, Canada) October 2004 (poster presentation)
36. Josephson CB, and Orłowski J. Determination of Sites in the Na(+)/H(+) Exchanger Isoform 1 (NHE1) Involved in Ion Translocation. NHE Congress on Advances in Na-H Exchange Research: From Molecular Regulation to Therapeutic Advances (A satellite symposium of IUPHAR 2002) (London, Canada) July 2002 (poster presentation)

STATEMENT OF RESEARCH INTERESTS

My current research interests are focused broadly on the applications of 'big data' in health care and specifically on the methodology, development, and application of clinical decision rules (CDRs) for epilepsy. Current CDRs are developed using prospective datasets amalgamated for the express purpose of developing the specific tool. This can be cumbersome, resource intensive, and ultimately time-prohibitive. 'Big data' represents a means of circumventing this problem. 'Big data' are large existing datasets collected during the course of routine clinical care that are of a sufficient volume and variety to permit the discovery of new insights in an expedited fashion that cannot be appreciated from smaller datasets. The advent of 'big data' has provided us with unprecedented statistical power to answer vital clinical questions that are not amenable to traditional means of study. Use of these datasets will permit concurrent derivation and validation studies that will allow for the rapid development of clinically robust and reliable CDRs that will meet immediate clinical needs.