

JOHN GORDON BOYD
CURRICULUM VITAE
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*Associate Professor, Department of Medicine (Neurology) and Critical Care Medicine
Southeastern Ontario Medical Association Clinician-Scientist
Davies 2, Kingston Health Sciences Centre
76 Stuart St.
Kingston, ON K7L 2V7*

ACADEMIC APPOINTMENTS:

- 2018-Present Associate Professor, Departments of Medicine (Neurology) and Critical Care Medicine
Queen's University, Kingston ON
- 2013-2018 Assistant Professor, Department of Medicine (Neurology) and Critical Care
Southeastern Ontario Medical Association Clinician-Scientist
Queen's University, Kingston, ON

HOSPITAL APPOINTMENTS:

- 2013-present Full time regular attending staff, Department of Medicine (Neurology) and Critical Care
Kingston General Hospital/Hotel Dieu Hospital (now Kingston Health Sciences Centre, c. 2017)
Kingston, ON
- 2011-2013 Term attending staff, Department of Medicine (Neurology)
Kingston General Hospital
Kingston, ON
- 2011-2013 Locum Physician, Department of Critical Care Medicine
Quinte Healthcare Corporation, Belleville Site
Belleville, ON

TRAINING/EDUCATION

- 2016: Emergency Neurological Life Support (ENLS), Instructor Certification by Neurocritical Care
Society (USA)
- 2016: Emergency Neurological Life Support (ENLS), Certification by Neurocritical Care Society (USA)
- 2011-2013 Critical Care Medicine Subspecialty Certification
Department of Critical Care Medicine, Queen's University, Kingston, ON
- 2006-2011 Fellow of the Royal College of Physicians Canada, Neurology
Queen's University, Kingston, ON.
- 2002-2006 Doctor of Medicine
Faculty of Health Sciences, Queen's University, ON
- 2001-2004: Post-doctoral fellowship, Dept. of Anatomy and Cell Biology, Queen's University, ON
- 1997-2001: PhD Neuroscience (with Distinction)
University Centre of Neuroscience, University of Alberta, Edmonton, AB
- 1993-1997: BSc. (Hons) Psychology
Lakehead University, Thunder Bay, ON

RESEARCH PROGRAMS AND AWARDS (awarded)

- 2021-2023 **Co-investigator:** CINERGY Vanguard. PIs Dr. Frederick D'Aragon and Dr. Maureen Meade (CIHR Project Grant, 468 000).
- 2020-2023 **Co-investigator:** Neuro-O2 study (Cerebral oxygenation in patients with aneurysmal subarachnoid hemorrhage and traumatic brain injury). PIs Drs. Shane English and Alexis Turgeon. (CIHR Project Grant \$400 000).
- 2020-2025 **Principal Investigator:** The CONFOCAL-2 study: Multicentre observational study on the role of cerebral oxygenation in delirium and long-term neurological outcomes in critically ill patients (CIHR project grant-\$560 000)
- 2020-2023 **Co-investigator:** The Fluids in Septic Shock Study (FISSH). PI Dr. Bram Rochberg. (CIHR Project grant, 1 300 000)
- 2019-2020 **Principal Investigator:** The CONFOCAL-2 study: Multicentre observational study on the role of cerebral oxygenation in delirium and long-term neurological outcomes in critically ill patients (Queen's University Dept. of Medicine Award-\$25 000)
- 2019-2020 **Co-investigator:** Multimodal molecular phenotyping for subtype discovery in septic shock: Translational extension of a randomized trial. (Translational Institute in Medicine, Queen's University. \$100 000). PI. Dr. David Maslove.
- 2019-2024 **Co-Investigator:** Team Grant: Sepsis Research Network (CIHR Team Grant \$1 400 000/yr). PI. Dr. Allison Fox-Robichaud
- 2019-2024 **Co-investigator:** The RECOVER Study (CIHR Transitions in Care Grant, \$1 400 000/yr). PI. Dr. Margaret Herridge.
- 2018-2021 **Co-investigator:** PROTEST Study (CIHR, PIs Dr. Farhad Pirouzmand and Dr. Damon Scales)
- 2017-2018 **Co-Investigator:** CONCEPT-HIBI (Heart and Stroke Foundation of Canada-PI Dr. Donald Griesdale, \$196 661)
- 2017-2019 **Co-Investigator:** Aneurysmal subarachnoid hemorrhage-red blood cell transfusion and outcome: a randomized controlled trial (CIHR Project Grant-PI: Dr. Shane English, \$296 661)
- 2016-present **Principal Investigator:** Serum proteomics for identification of novel serum prognostic biomarkers for comatose survivors of cardiac arrest (SEAMO Innovation Fund, \$98 500).
- 2016-present **Co-Investigator:** Death Prediction and Physiology after Removal of Therapy (DePPaRT) study. Canadian Blood Services (PI: Dr. Sonny Dhannani, Dr. via University of Alberta; \$20 130.00)
- 2016-present **Co-Investigator:** Observational Study on Clinical Practice in Organ Donation (DONATE). Canadian Blood Services (PIs: Drs. Maureen Meade and Frederick D'Arargon, \$10 000.00)
- 2016-present **Co-Investigator:** A randomized, double-blind, placebo controlled study to evaluate the efficacy and safety of SAGE-347 injection in the treatment of subjects with super-refractory status epilepticus (STATUS). SAGE Pharmaceuticals \$40 000.00.
- 2016-present **Principal Investigator:** Cerebral Oxygenation and Neurological Outcomes Following CriticAl illness (the CONFOCAL Study). Physician Services Incorporated 232 000 (3 years).
- 2015-present: **Principal Investigator:** Cerebral hypoperfusion during hemodialysis contributes to long term neurological dysfunction in patients with end stage kidney disease. Queen's Dept. of Medicine Innovation Fund (\$30 000.00 for 2 years).
- 2014-present: **Co-Principal Investigator:** Cerebral oxygenation and neurological outcome after coronary artery bypass surgery-a feasibility study. SEAMO Innovation Fund (\$50 000.00/yr X 2 years).

- 2014-present: **Principal Investigator:** Cerebral oxygenation and neurological outcome after coronary artery bypass surgery-a feasibility study. Botterell Foundation of Queen's University (\$10 000.00).
- 2014: **Principal Investigator:** Cerebral oxygenation and neurologic recovery after cardiac arrest. Queen's Principal's Development Fund and Senate Advisory Research Committee (\$ 9800.00).
- 2014-present: **Principal Investigator:** Serum proteomics to identify novel biomarkers that predict neurologic recovery after cardiac arrest AHSC AFP INNOVATION FUND (96 000.00).
- 2014-present: **Co-investigator:** A non-human primate model of chronic epilepsy-deep brain stimulation and cognitive performance in epilepsy Queen's University DDIF (\$25 000.00).
- 2014-present: **Co-investigator:** GSK. A two-part study to investigate the safety, tolerability, pharmacokinetics, and pharmacodynamics of GSK 2586881 in patients with acute lung injury (52421.00).
- 2014-2016: **Co-investigator:** Nutritional adequacy therapeutic enhancement in the critically ill: a randomized double-blind, placebo controlled trial of the motilin receptor agonist GSK962040. The NUTRIATE study (143 000.00).
- 2014-2016: **Co-investigator:** OPTIMAL Selection for and timing to start renal replacement in critically ill older patients with acute kidney injury (OPTIMAL-AKI) (17 000.00).
- 2013-2018: **Principal Investigator:** Southeastern Ontario Medical Association Clinician-Scientist Award. A five-year award to establish a translational and clinical research program with a focus on predictive biomarkers and neurological function and recovery from critical illness.
- 2013-2015: **Sub-Principal Investigator:** EXPAND Trial: Phase 2 study of sponimod in patients with secondary progressive multiple sclerosis. Involved in monitoring first dose of medication.
- 2013-2016: **Sub-Principal Investigator:** OVATION STUDY: A phase 1 study examining the optimal titration of vasopressors for patients with shock.
- 2010-present: **Co-Investigator:** The PREDICT Study: Funded by the Botterell Foundation of Queen's University. Serum proteomics to predict neurological recovery after cardiac arrest
- 2002-2004: **Fellowship:** The Ontario Neurotrauma Foundation Post Doctoral Fellowship: The role of olfactory ensheathing cells to promote axon regeneration and remyelination after spinal cord injury
- 2001-2002: **Fellowship** Queen's Principals's Development Fund Post-Doctoral Fellowship: Using olfactory ensheathing cells to promote axon regeneration and functional recovery after spinal cord injury.
- 1999-2001: **Studentship:** Rick Hansen Foundation/Alberta Paraplegic Foundation for Spinal Cord Injury. Neurotrophic Factors and Their Receptors in Motor Axonal Regeneration.

RESEARCH PROGRAMS AND AWARDS (Currently Submitted:)

2021: CIHR Project Grant (NeuPart Study, PI Dr. Teneille Gofton).

RESEARCH PROGRAMS AND AWARD (Unsuccessful:)

2018: **Co-investigator:** The RECOVER Program (PI: Dr. Margaret Herridge, University Health Network). CIHR Project Grant, Spring 2018

2018: **Co-investigator:** The OVATION Study (PI, Dr. Francois Lamontagne, McGill University). CIHR Project Grant, Spring 2018.

- 2018: **Principal Investigator:** The CONFOCAL-2 Study. Cerebral oxygenation and Neurological Outcomes Following Critical Illness: CIHR Project Grant, Fall 2017)
- 2016: **Co-Principal Investigator:** Precision health for ICU survivors: Using large, multimodal data sets to identify determinants and predictors of neurocognitive and functional outcomes following critical illness. (with Drs. David Maslove and Joon Lee; CIHR Catalyst Grant)
- 2015: **Co-Investigator:** Cerebral oximetry to assess cerebral autoregulation in hypoxic-ischemic brain injury (COncEpT-HIBI). Heart and Stroke Foundation of Canada (\$225 000.00).
- 2015: **Principal Investigator:** Cerebral hypoperfusion contributes to accelerated cognitive decline in patients with end-stage kidney disease. The Kidney Foundation of Canada (\$95 000.00)
- 2014: **Principal Investigator:** Biomarkers and Neurological Recovery After Cardiac Arrest. Heart and Stroke Foundation of Canada (\$218 000.00).
- 2014: **Principal Investigator:** Thinking beyond survival: defining neurological recovery after critical illness. CIHR Program Grant (\$750 000.00).
- 2012: **Principal Investigator:** Biomarkers and Neurological Recovery After Cardiac Arrest. Heart and Stroke Foundation of Canada (\$215 000.00).

PROFESSIONAL MEMBERSHIPS:

2015-present: Canadian Critical Care Trials Group
 2015-present: Neurocritical Care Society
 2013-present: Society of Critical Care Medicine
 2013-present: American Heart Association
 2012-present: European Society of Intensive Care Medicine
 2011-present: Canadian Critical Care Translational Biology Group
 2011-present: Fellow of the Royal College of Physicians and Surgeons Canada
 2006-2011: American Academy of Neurology

ADMINISTRATIVE APPOINTMENTS/COMMITTEES:

2019-present: Royal College of Physicians and Surgeons of Canada-Neurology Examining Committee
 2018-present: Regional Medical Lead: Trillium Gift of Life Network
 2017-present: CIHR College of Reviewers
 2017-present: Queen's University Research Advisory Committee
 2016-present: Queen's University Dept. of Critical Care Medicine CBME Committee
 2016-present: ICU fellow research coordinator: Queen's Critical Care Medicine Program.
 2013-2018: Physician lead: Organ Donation and Tissue Transplantation Committee
 Kingston General Hospital
 2012-present: Search Committee for New Full-Time Critical Care Physician
 Kingston General Hospital
 2012-present: CaRMS Committee for New Critical Care Fellows
 Kingston General Hospital
 2011-2015: LAUNCH (Royal College Exam Preparation for Residents) Written Exam Committee
 2011-2012: Critical Care Program Council
 2011-2012: Chief Resident, Critical Care Medicine
 2009-2011: Chief Resident, Division of Neurology, Department of Medicine
 2007-present: CaRMS Committee for Queen's Neurology Resident Training Program
 2004-2005: Queen's University Class of 2006 Undergraduate Medicine Education Committee Representative
 2003: Queen's University Search Committee (Associate Dean of Undergraduate Medicine)
 1999-2001: Vice president Neuroscience Graduate Students Association/Chair-Clinical Neurosurgery Liaisons

TEACHING POSITIONS/EXPERIENCE

2015: Neurosciences graduate program (NSCI 844): Controversies in Neuroscience
 "Communicating with the patient in the persistent vegetative state"
 2009-present: Critical Care Medicine Queen's University
 "Approach to the comatose patient", core curriculum ICU Junior Residents
 2009-present: Critical Care Medicine Queen's University
 "Neurologic emergencies in the ICU", core curriculum ICU Junior Residents
 2006-present: Queen's University Undergraduate Medical Program
 Neuroanatomy, Clinical Correlates of Neuroanatomy, Neurological Emergencies, Organ Donation,
 Approach to the patient with decreased level of consciousness, Headache and CNS infections.
 2010-2012: Internal Medicine, Queen's University
 "The five minute neurological exam", senior resident half day.
 2001: Part time sessional lecturer
 Department of Community Research and Disability Studies
 University of Calgary
 1998-2001: University of Alberta
 Undergraduate and graduate courses on central and peripheral neurodegenerative diseases as well
 as mechanisms of neurotrophin signaling
 1996-1997: Teaching assistant for Lakehead University's Department of Psychology/Distance Education-
 Behavioural Neuropharmacology
 1996-1997: Teaching assistant for Lakehead University's Department of Biology- Human Anatomy Lab

AWARDS AND SCHOLARSHIPS:

- 2018: Queen's University Department of Medicine Research Excellence Award
2017: W.F. Connell Award for Excellence in Lectureship (Queen's University)
2015: Queen's Aesculapian Society Faculty Lectureship Award
2014: Critical Care Program Faculty Lectureship Award
2010: Queen's Aesculapian Society Faculty Lectureship Award
2009: American Academy of Neurology Resident Travel Scholarship to Annual Meeting
2009: Denis N. White Memorial Scholarship, Queen's School of Medicine
2006: Neil Currie Polson Memorial Prize, Queen's School of Medicine
2004: Awarded Institute of Neurosciences, Mental Health, and Addiction "Brainstar" Award
2002: Selected for Young Investigator Award by International and National Neurotrauma Society at 6th annual meeting in Tampa, FL.
2001: Nominated by University Centre for Neuroscience for NSERC silver medal for doctoral studies
1999: Awarded Marie Louise Imrie Studentship from Faculty of Graduate Studies and Research

GRADUATE STUDENT SUPERVISION:

- 2014-2018: Dr. Michael Wood, PhD
2015-2021: Dr. Jessica Vanderlinden, PhD
2016-2021: Dr. Joanna Semrau, PhD
2018-current: Ms. Jasmine Khan (in MD/PhD program)
2021-current: Ms. Tasha Jawa (in MD/PhD program)

RESEARCH PUBLICATIONS**Papers:**

1. Wood MD, Simmatis LER, Jacobson JA, Dukelow SP, **Boyd JG**, Scott SH.(2021) Principal Components Analysis Using Data Collected From Healthy Individuals on Two Robotic Assessment Platforms Yields Similar Behavioral Patterns. *Front Hum Neurosci.* (epub)
2. Vanderlinden JA., Holden RM., Scott SH., and **Boyd JG** (2021). Cerebral perfusion in hemodialysis patients: a feasibility study. *CJKHD* (epub).
3. Vanderlinden JA., Semrau JS, Silver SA, Holden RM., Scott SH, and **Boyd JG** (2021). Acute Kidney Injury Is Associated With Subtle But Quantifiable Neurocognitive Impairments. *Neph. Dial. Transpl.* (epub).
4. Wood MD, **Boyd JG**, Wood N, Frank J, Girard TD, Ross-White A, Chopra A, Foster D, Griesdale DEG. (2021). The Use of Near-Infrared Spectroscopy and/or Transcranial Doppler as Non-Invasive Markers of Cerebral Perfusion in Adult Sepsis Patients With Delirium: A Systematic Review. *J Intensive Care Med.* 2021 Mar 9:885066621997090. doi: 10.1177/0885066621997090. Online ahead of print.
5. Semrau JS., Mehras M., Ross-White A., and **Boyd JG** (2021). Cerebral oximetry and preventing neurological complication post-cardiac surgery: a systematic review. *Eur J Cardiothorac Surg.* 2021 Jan 31. doi: 10.1093/ejcts/ezaa485. Online ahead of print.
6. Dodek PM, Cheung EO, Burns KE, Martin CM, Archambault PM, Lauzier F, Sarti AJ, Mehta S, Fox-Robichaud AE, Seely AJE, Parshuram C, Garros D, Withington D, Cook DJ, Piquette D, Carnevale FA, **Boyd JG**, Downar J, Kutsogiannis DJ, Chassé M, Fontela P, Fowler RA, Bagshaw S, Dhanani S, Murthy S, Gehrke P, Fujii T (2021); Canadian Critical Care Trials Group. Moral distress and other wellness measures in Canadian Critical Care physicians. *Ann Am Thorac Soc.* 2020 Dec 24. doi: 10.1513/AnnalsATS.202009-1118OC. Online ahead of print
7. Vanderlinden JA, Holden RH, Scott SH., and **Boyd JG** (2020). Robotic Technology Quantifies Novel Perceptual-Motor Impairments in Patients with Chronic Kidney Disease. *J Nephrol.* 2021 Jan 5. doi: 10.1007/s40620-020-00912-z. Online ahead of print.
8. Dhanani S, Hornby L, van Beinum A, Scales NB, Hogue M, Baker A, Beed S, **Boyd JG**, Chandler JA, Chassé M, D'Aragon F, Dezfulian C, Doig CJ, Duska F, Friedrich JO, Gardiner D, Gofton T, Harvey D, Herry C, Isac G, Kramer AH, Kutsogiannis DJ, Maslove DM, Meade M, Mehta S, Munshi L, Norton L, Pagliarello G, Ramsay T, Rusinova K, Scales D, Schmidt M, Seely A, Shahin J, Slessarev M, So D, Talbot H, van Mook WNKA, Waldauf P, Weiss M, Wind JT, Shemie SD (2021). *N Engl J Med.* 2021 Jan 28;384(4):345-352. doi: 10.1056/NEJMoa2022713.
9. Griesdale DEG, Sekhon MS, Wood MD, Cardim D, Brasher PMA, McCredie V, Sirounis D, Foster D, Krasnogolova Y, Smielewski P, Scales DC, Ainslie PN, Menon DK, **Boyd JG**, Field TS, Dorian P; Near-Infrared Spectroscopy to Assess Cerebral Autoregulation and Optimal Mean Arterial Pressure in Patients With Hypoxic-Ischemic Brain Injury: A Prospective Multicenter Feasibility Study. Cerebral Oximetry to Assess Cerebral Autoregulation in Hypoxic-Ischemic Brain Injury (CONCEPT) Research Group, on behalf of the Canadian Critical Care Trials Group. *Crit Care Explor.* 2020 Sep 25;2(10):e0217.
10. Levin G, **Boyd JG**, Day A, Hunt M, Maslove DM, Norman P, O'Callaghan N, Sibley S, Muscedere. The relationship between immune status as measured by stimulated ex-vivo tumour necrosis factor alpha levels and the acquisition of nosocomial infections in critically ill mechanically ventilated patients. *J.Intensive Care Med Exp.* 2020 Sep 16;8(1):55.
11. Khan JM, Wood MD, Lee KFH, Maslove D, Muscedere J, English SW, Ball I, Slessarev M, **Boyd JG**; Canadian Critical Care Trials Group (CCCTG). Delirium, Cerebral Perfusion and High Frequency Vital Sign Monitoring in the Critically Ill: The CONFOCAL-2 Feasibility Study. *Ann Am Thorac Soc.* 2020 Aug 11.
12. Stapleton K., Jefkins, M., Grant C., **Boyd JG**. (2020) Post-ICU clinics in Canada-A National Survey. *Can. J. Anaesth.* 2020 Nov;67(11):1658-1659.
13. D'Aragon F, Lamontagne F, Cook D, Dhanani S, Keenan S, Chassé M, English S, Burns KEA, Frenette AJ, Ball I, **Boyd JG**, Masse MH, Breau R, Akhtar A, Kramer A, Rochweg B, Lauzier F, Kutsogiannis DJ, Ibrahim Q, Hand L, Zhou Q, Meade MO (2020). Variability in Deceased Donor Care in Canada-A Report from the CAN-DONATE Study. *Can. J. Anaesth. Can J Anaesth.* 2020 Aug;67(8):992-1004.
14. **Boyd JG**, Hartwick M., Singh JM., Soliman K., Hornby K., Patlser B., Wilson L., and Healey A. (2020). Organ donation after cardiocirculator death following withdrawal of non-invasive ventilation: a historical cohort study. *Can. J. Anaesth.* 2020 Jun;67(6):774-776.
15. **Boyd JG. (2020).** Neurological prognostication after cardiac arrest: can novel biomarkers improve the clarity of our crystal ball? *Crit. Care Med.* 2020 Feb;48(2):259-260.
16. Semrau JS., Scott SH., Hamilton AG., Petsikas D., Payne DM., Bisleri G., Saha T., and **Boyd JG.** (2019). Road to recovery: a study protocol quantifying neurological outcome in cardiac surgery patients and the role of cerebral oximetry. *BMJ Open (in press).*
17. Ball, IM, **Boyd JG** (et al) 2020. Canadian Clinical Practice Guideline for the medical management of neurologically deceased organ donors. *CMAJ* 2020 Apr 6;192(14):E361-E369.

18. Semrau JS., Scott SH., Hamilton AG., Petsikas D., Payne DM, Bisleri G, Saha T., and **Boyd JG.** (2019). Quantified preoperative neurological dysfunction predicts outcome after coronary artery bypass surgery. *Aging Clin Exp. Res.* 2020 Feb;32(2):289-297.
19. Wood MD., Jacobson JA., Maslove DM., Muscedere JM., and **Boyd JG.** (2019). The physiological determinants of near-infrared spectroscopy derived regional cerebral oxygenation in critically ill adults. *Int. Care. Med. Experimental* (Epub ahead of print).
20. Wood MD., Khan J., Lee KF., Maslove DM., Muscedere J., Hunt M., Scott SH., Day A., Jacobson JA., Ball A., Slesserev M., O'Reagan N., English S., McCredie V, Chasse M., Griesdale D, and **Boyd JG** (2019). Assessing the relationship between near-infrared spectroscopy derived regional cerebral oxygenation and neurological dysfunction in critically ill adults: a prospective multi-centre protocol. *BMJ Open* 2019 Jun 25;9(6):e029189.
21. Bendahan N., Neal O., Ross-White A., Muscedere J, and **Boyd JG** (2018). Relationship between near-infrared spectroscopy-derived cerebral oxygenation and delirium in critically ill patients: A systematic review. *J. Int. Care Med.* Epub ahead of print.
22. Wood MD., Maslove DM, Muscedere J. Scott SH., and **Boyd JG** (2018). Robotic technology provides objective and quantifiable metrics of neurocognitive functioning in survivors of critical illness: A feasibility study. *J. Crit. Care.* Epub ahead of print.
23. Lee KF., Wood MD, Maslove DM, Muscedere JG., and **Boyd JG** (2018). Dysfunctional cerebral autoregulation is associated with delirium in critically ill adults. *J. Cereb. Blood Flow Metab.* Epub ahead of print.
24. Muscedere J, Maslove DM, **Boyd JG.**, O'Callaghan N, Sibley S, Reynolds S, Albert M, Hall R, Jiang X, Day AG, Jones G, Lamontagne F. (2018). Prevention of Nosocomial Infections in Critically Ill Patients With Lactoferrin: A Randomized, Double-Blind, Placebo-Controlled Study. *Crit Care Med.* 46 (9) 1450-1456.
25. Vanderlinden J., Ross-White A., Holden, R., Shamseddin MK., and **Boyd JG** (2018). Cognitive dysfunction across the spectrum of end-stage kidney disease-a systematic review and meta-analysis. *Nephrology* 24 (1) 5-16.
26. Wood MD., Simmatis LER., Scott SH., **Boyd JG.**, and Jacobson, JA (2018). Using principal component analysis to reduce complex datasets produced by robotic technology in controls. In Press *J. Neuro. Eng. Repair.*
27. Semrau JS., Scott SH., Hamilton AG., Petsikas D., Payne DM., Bisleri G., Saha T., and **Boyd, JG.** (2018). The relationship between cerebral oxygen saturation and quantitative metrics of neurological function after coronary bypass surgery; a feasibility study. *J. Cardiovascular Surgery* 59 (5) 716-728.
28. Shears, M., McGoldrick D., Waters B., Jakab M., **Boyd JG.**, and Muscedere J. (2017). Frailty measurement and outcomes in interventional studies: protocol for a systematic review of randomized control trials. *BMJ Open*, doi: 10.1136/bmjopen-2017-018872
29. Kroll RR, McKenzie ED, **Boyd JG.**, Sheth P, Howes D, Wood M, Maslove DM (2017); WEARable Information Technology for hospital Inpatients (WEARIT-IN) Study Group. Use of wearable devices for post-discharge monitoring of ICU patients: a feasibility study. *J. Intensive Care*, Nov 21;5:64. doi: 10.1186/s40560-017-0261-9.
30. Ajzenberg, H., Newman P., Harris, G-A, Cranston, M, and **Boyd, JG** (2017). A "Neurological Emergency Trolley" reduces turnaround time for high-risk medications in a general medical-surgical ICU. *Intensive Crit Care Nurs.* 2018 Feb;44:40-44. doi: 10.1016/j.iccn.2017.09.003
31. D'Aragon F., Dhanani S., Akhtar A., Arsenaault E., Baker A., Ball I., **Boyd JG.**, Burns K., Chasse M., Cook DJ., Frenette AF., Guyatt GH., Hand LE., Healey A., Keenan S., Kramer A., Kusogianni DJ., Lamontagne F., Lize J-F., Masse MH., Ribic C., Rochbert B., and Meade MO. (2017). The Canada-DONATE Study Protocol: A Prospective National Observational Study of the Medical Management of Deceased Organ Donors. *BMJ Open* 7 (9). doi: 10.1136/bmjopen-2017-018858.
32. Muscedere J, Waters B, Varambally A, Bagshaw SM, **Boyd JG.**, Maslove D, Sibley S, Rockwood K (2017). The impact of frailty on intensive care unit outcomes: a systematic review and meta-analysis. *Intensive Care Med.* 2017 Aug;43(8):1105-1122. doi: 10.1007/s00134-017-4867-0. Epub 2017.
33. Wood MD, Maslove DM, Muscedere JG, Day AG, **Boyd, JG** Low brain tissue oxygenation contributes to the development of delirium in critically ill patients: A prospective observational study. Cerebral Oxygenation and Neurological Outcomes Following Critical Illness (CONFOCAL) Research Group; Canadian Critical Care Trials Group, *J Crit Care.* 2017 Jun 15;41:289-295. doi: 10.1016/j.jcrc.2017.06.009. [Epub ahead of print]
34. Park A, Chapman M, McCredie CA, Debicki D, Gofton, T, Norton, L., **Boyd, JG** (2016). EEG utilization in Canadian intensive care units: A multicentre prospective observational study. *Seizure* 43, 42-47.
35. Muscedere J., Maslove D, **Boyd JG.**, O'Callaghan N, Lamontagne F., Reynolds S., Albert M, Hall R, McGolrick D, Jian X, Day A (2016). Prevention of nosocomial infections in critically ill patients with lactoferrin (PREVAIL Study). *Trials* 17, 474.
36. Kroll, RR., **Boyd, JG.**, and Maslove DM (2016). Accuracy of a wrist-worn wearable device for monitoring heart rates in hospital inpatients: A prospective observational study. *JMIR* 18, e253.
37. Wood, MD., Maslove D., Muscedere J., Scott SH., Day A, **Boyd, JG** (2016). Assessing the relationship between brain tissue oxygenation and neurological dysfunction in critically ill patients: study protocol. *Int. J. Clin. Trials*, 3(3) 98-105.
38. **Boyd, JG.**, Smithson LJ, Howes D, Muscedere, J., Kawaja MD (2016). Serum proteomics as a strategy to identify

- novel biomarkers of neurologic recovery after cardiac arrest: a feasibility study. *Intensive Care Medicine-Experimental* (epub May 2016).
39. O'Loughlin, S., Guy, B., Rossiter J. P., and **Boyd J.G.** (2016). A 39 year old male with multiple cranial neuropathies. *Neurology* **86** (7) p66-70.
 40. Park, A, and **Boyd, JG** (2016). EEG Utilization in the medical/surgical ICU: a single centre prospective observational study. *Int. Care. Med* **41** (10) 1869-70.
 41. Howes, D., Muscedere J., Gray S.H., Brooks, S., **Boyd, J.G.**, Djogovic, D., Golan E., Green R.S., Jacka M.J., and Sinuff, T (2016). Canadian Guidelines for the Use of Targeted Temperature Management (Therapeutic Hypothermia) After Cardiac Arrest. *Resuscitation* **98**, 48-63.
 42. Wood, M., Song, A., Maslove D., Ferri C., Howes, D., Muscedere J., **Boyd, J.G.** (2015). Brain tissue oxygenation in patients with septic shock: a feasibility study *Can. J. Neuro. Sci.* **43** 65-73.
 43. Galvin I.M., Levy R., **Boyd, J.G.**, Day A.G., and Wallace, M.C. (2015). Cooling for cerebral protection during brain surgery. *Cochrane Database Syst. Rev.* epub, PMID 25626888.
 44. **Boyd, J. G.**, Debicki, D., and Young, G.B. (2012). Temporal lobe epilepsy after refractory status epilepticus: an illustrative case and review of the literature. *Epilepsy Research and Treatment*, doi 10.1155/2012/209701.
 45. **Boyd J.G.**, Taylor S., Rossiter J, Islam, O, Spiller A, and Brunet DG. (2009). New onset refractory status epilepticus associated with restricted diffusion and neuronophagia in the pulvinar. *Neurology* **74**, 1003-5.
 46. Smithson, L., **Boyd J.G.**, and Kawaja, M. D. (2009). Technical strategies to isolate olfactory ensheathing cells for intraspinal implantation. *J. Neurotrauma* **26**, 155-77.
 47. Jahed A., Rowland, JW., McDonald, TG., **Boyd J.G.**, Doucette, R., and Kawaja, M.D. (2007). Olfactory ensheathing cells express smooth muscle alpha-actin in vitro and in vivo. *J. Comp. Neurol.* **502**, 209-223.
 48. **Boyd, J.G.**, Jahed, A., McDonald, T. G., Doucette, R., Van Eyk, J. E., Kawaja, M. D. (2006) Proteomic evaluation reveals that olfactory ensheathing cells, not Schwann cells, express Calponin. *Glia* **53**, 434-4
 49. **Boyd, J. G.**, Doucette, R., and Kawaja, M.D. (2004). Defining the role of olfactory ensheathing cells in facilitating axon remyelination following damaged to the spinal cord (*FASEB J.* **19**, 694-703)
 50. **Boyd, J.G.**, Lee, J., Skihar, V., Doucette, R., Kawaja, M.D. (2004). LacZ-expressing olfactory ensheathing cells do not associate with myelinated axons after implantation into the compressed spinal cord. *PNAS* **101**, 2162-6.
 51. Gordon, T., Sulaiman, O., **Boyd, J. G.** (2003). Experimental strategies to promote functional recovery after peripheral nerve injuries. *J. Peripher. Nerv. Syst.* **8**, 236-50.
 52. **Boyd, J. G.**, Skihar, V. Kawaja, M. D., and Doucette, R. (2003). Olfactory ensheathing glia: Historical perspective and therapeutic potential. *Anat. Rec. Part B: New Anat.* **271B**, 49-60.
 53. **Boyd, J. G.**, and Gordon, T. (2003). Exogenous glial cell line-derived neurotrophic factor sustains axonal regeneration of chronically axotomized motoneurons, *Exp. Neurol* **183**, 610-19.
 54. **Boyd, J.G.** and Gordon, T. (2003). Functional roles for neurotrophic factors and their receptors in peripheral nerve regeneration. *Mol. Neurobiol.* **27**, 277-324.
 55. Sulaiman, O. A. R., **Boyd, J. G.**, and Gordon, T. (2002). Regeneration in the peripheral nervous system of mammals. In *Neuroglia 2nd Ed.*, Kettenmann and Ransom, Eds.
 56. **Boyd, J. G.**, and Gordon, T. (2002). A dose-dependent facilitation and inhibition of peripheral nerve regeneration by brain-derived neurotrophic factor. *Eur J Neurosci.* **15**, 613-26.
 57. **Boyd, J.G.**, and Gordon, T (2001). The neurotrophin receptors, trkB and p75, differentially regulate motor axonal regeneration. (*J Neurobiol.* **49**, 314-325.).
 58. **Boyd, J. G.** (July 2001). Functional roles of neurotrophic factors in the motoneuronal response to axonal injury. PhD Thesis.

Conference Abstracts

1. **Boyd, JG**; Singh, JM; Hartwick, M; Soliman, K; Hornby, I; Paltser, B; Wilson, L; Healey, A. (2019). Organ donation after withdrawal of non-invasive positive pressure ventilation: a retrospective observational study. Canadian Critical Care Forum, Toronto, ON
2. Stapleton, K; Jefkins, M; Grant, C; and **Boyd JG**. (2019). EPICC: The Evaluation of Post Intensive Care Unit Clinics in Canada. Canadian Critical Care Forum, Toronto, ON
3. Khan, J; Wood, MD; Lee KF; Maslove, D; Muscedere, J; English, S; Ball, I; Slessarev, M; **Boyd, JG**. (2019). The Cerebral Perfusion Index: Developing a Novel Model of Cerebral Perfusion in the Intensive Care Unit. Canadian Critical Care Forum, Toronto, ON.
4. Bendahan N., Neal O., Ross-White A., Muscedere JM., and **Boyd JG**. Relationship between near-infrared spectroscopy (NIRS) derived cerebral oxygenation and delirium in critically ill patients-a systematic review. *ESICM Lives*, Paris, France. October 2018
5. Hawken E., Muscedere JM., and **Boyd, JG** (2018). Intensive care follow-up study: cognitive, mood, and quality of life outcomes following an acute critical illness. *ESICM Lives*, Paris, France. October 2018.
6. Vanderlinden JA., Holden R., and **Boyd JG** (2018). Determinants of cerebral oxygenation in hemodialysis patients: a feasibility study. *American Society of Nephrology*, October 2018.
7. Vanderlinden JA., Holden R., Scott SH., and **Boyd JG** (2018). Robotic technology quantifies cognitive deficits in multiple domains for end stage kidney disease patients. *American Society of Nephrology*, October 2018.
8. Semrau JS., Scott SH., Hamilton GA., Petsikas D., Payne D., Bisleri G., Saha T., and **Boyd, JG** (2018). Quantitative and physiological predictors of neurological dysfunction following cardiac surgery. *Society of Cardiovascular Anaesthesiologists Annual Meeting*, Phoenix, AZ.
9. Wood MD., Maslove DM., Muscedere J., Scott SH., and **Boyd, JG** (2018). Persistent executive and visuospatial impairments assessed by robotic technology following critical illness-is delirium a cause of delayed recovery? *American Delirium Society Annual Meeting*, San Francisco, CA.
10. Wood, MD., Jacobson JA., Maslove DM., Muscedere J. and **Boyd JG**. (2018). The physiological determinants of cerebral oxygenation during the first 24 hours of critical illness. *American Thoracic Society Annual Meeting*, San Diego CA.
11. Lee, KF., Wood MD., Maslove DM., Griesdale DE., Muscedere JM., and **Boyd JG** (2017). Early disturbances in cerebrovascular autoregulation are associated with subsequent development of delirium in critically ill patients. *Canadian Critical Care Forum*, Toronto, ON, Oct. 2017.
12. Wood, MD., Maslove DM., Muscedere JM., and **Boyd, JG** (2017). Heart rate and central venous oxygen content are key determinants of brain tissue oxygenation in critically ill patients. *ESICM-Lives*, Vienna, September 2017.
13. Vanderlinden JA., Holden R., Scott SH., and **Boyd, JG**. (2017). Robotic technology quantifies sensorimotor and visuospatial impairments in chronic kidney disease patients: a pilot study. Canadian Society of Nephrology Annual Meeting, June 2017, Montreal, QC.
14. Vanderlinden JA., Chan L., Ross-White A., Holden R., Shamseddin MK., **Boyd JG**. (2017). Cognitive assessments across the spectrum of chronic kidney disease: a meta-analysis. Canadian Society of Nephrology Annual Meeting, June 2017, Montreal, QC.
15. Semrau J., Scott SH., Saha T., Hamilton A., Petsikas D., Payne D., and **Boyd, JG** (2017). Cerebral oxygenation and quantified neurological outcomes after cardiac surgery. Society of Cardiac Anaesthesiology Annual Meeting. Accepted for presentation April 2017, Orlando, FL.
16. Wood, MD., Maslove D., Muscedere JM, Day A, and **Boyd, JG** (2017). Low cerebral oxygenation during the first 24 hours of critical illness may contribute to the development of intensive care unit associated delirium. American Delirium Society, June 2017, Nashville TN.
17. Ajzenberg H., Newman, P., Harris G-H., Cranston, M., and **Boyd, JG** (2016). The impact of a neurological emergency “crash cart” on high-risk medication delivery in a general medical-surgical intensive care unit. *Canadian Critical Care Forum*, Toronto, Ontario, October 2016.
18. Kroll, R, Howes D, **Boyd, JG**, and Maslove D. (2016). Accuracy of a wrist-worn wearable device for monitoring heart rates in hospital inpatients: A prospective observational study. *Canadian Critical Care Forum*, Toronto, Ontario, October 2016.
19. Wood, M., Maslove D, Muscedere JM., Scott SH., Saha T., Hamilton A., Petsikas D, Payne D., and **Boyd, J.G.** (2016). Using robotic technology to precisely define the neurocognitive phenotype of ICU survivors. *ESICM LIVES*, Milan, Italy. October 2016.
20. Wood, M., Maslove D, Muscedere, J., and **Boyd, JG**. (2016). Coma and delirium are associated with low levels of brain tissue oxygen in critically ill patients. Canadian Federation for Neurological Sciences, Quebec City, June 2016.
21. Vanderlinden J., Scott, SH., Holden R, and **Boyd, JG** (2016). Does brain tissue oxygenation (BtO₂) predict cognitive decline in patients undergoing hemodialysis? A feasibility study. Canadian Federation for Neurological Sciences, Quebec City, June 2016.

22. Venters, A., Saha T, Hamilton A., Payne D., Petsikas, D., Scott SH., and **Boyd, J.G.** (2016). Does brain tissue oxygenation during coronary artery bypass surgery correlate with quantitative assessment of neurological function? A feasibility study. Canadian Federation for Neurological Sciences, Quebec City, June 2016.
23. **Boyd, J.G.**, Maslove D, Wood M, and Muscedere J. (2016). Non invasive measurements of brain tissue oxygenation correlate with acute neurological dysfunction in critically ill patients. Canadian Critical Care Trials Group Spring Meeting, Halifax, June 2016.
24. **Boyd, J.G.**, Muscedere J, and Kawaja, MD (2016). Serum proteomics identifies muskelin as a novel putative biomarkers for poor neurological outcome after cardiac arrest. Canadian Critical Care Translational Biology Group Meeting, Halifax, June 2016.
25. **Boyd, J.G.**, and Scott SH (2016). Robotic technology finds subtle neurocognitive deficits in high functioning cardiac arrest survivors. SCCM Orlando.
26. Wood, M., Maslove D, Muscedere J, Scott SH., and **Boyd, J.G.** (2015). Using robotic technology to quantify neurological deficits among survivors of critical illness: do they relate to brain tissue oxygen levels? A pilot study. ESICM Berlin. Oct 2, 2015.
27. Wood, M., Song, A., Maslove D, Ferri CM., Howes D., Muscedere J., **Boyd, J.G.** (2015). Poor cerebral oxygenation during critical illness is associated with acute neurological dysfunction. ATS Denver, May 2015.
28. **Boyd, J.G.** and Scott SH. (2014). Using robotic technology to quantify neurological recovery in apparent high functioning survivors of cardiac arrest. Canadian Critical Care Forum (October 2014), Toronto, ON.
29. Song, A., Wood, MD., Ferri C., Howes, D., Maslove D., Muscedere J., and **Boyd, J.G.** (2014). Brain tissue oxygenation as a surrogate marker for acute neurological dysfunction in patients with severe sepsis/septic shock: a pilot study. Canadian Critical Care Forum (October 2014), Toronto, ON.
30. **Boyd, J.G.** (2014). The utilization of electroencephalography in the intensive care unit: are we following the guidelines? ESICM LIVES September 2014, Barcelona, Spain.
31. Boisse-Lomax, L., Jalini S., Spiller A., Brunet D.G., and **Boyd, J.G.** (2014). Continuous EEG contributes to clinical decision making in the medical surgical intensive care unit. Annual Meeting of the American Epilepsy Society, Dec 2014, Seattle, WA.
32. Muscedere J. M., Kawaja M.D., Scott, S.H., and **Boyd, J. G.** (2013). Predicting and precisely defining neurological recovery after critical illness. CIHR New Investigators Meeting, QC, Canada.
33. Jalini, S., Spiller, A, Brunet, D.G., and **Boyd, J.G.** (2013). The impact of continuous EEG on management decisions in a tertiary medical/surgical intensive care unit. Neurocritical Care Society 11th Annual Meeting, Philadelphia PA.
34. **Boyd, J.G.**, Smithson, L, Muscedere, J., and Kawaja, M. D. (2012). Serum proteomics is a feasible strategy to identify novel biomarkers that predict neurologic recovery after cardiac arrest. ESICM, Lisbon, Portugal.
35. **Boyd, J.G.**, Smithson, L, Petrie, C, Muscedere J, and Kawaja, MD (2012). Serum proteomics to predict neurological recovery after cardiac arrest: a pilot/feasibility study. Canadian Critical Care Conference, Whistler, BC
36. Boisse, L., **Boyd J.G.**, and Brunet, D.G. (2011). The EEG of posterior reversible encephalopathy syndrome (PRES). American Academy of Neurology Annual Meeting, Hawaii, USA.
37. **Boyd J.G.**, Jin, A. (2010). "Alien voice" auditory hallucinations as the presenting symptom of acute left middle cerebral artery infarction. *Canadian Stroke Congress, Canadian Federation of Neurological Sciences*. Quebec City, June 2010.
38. **Boyd, J.G.**, Jichi, D., and Bolton, C. (2010). Isolated phrenic nerve palsy secondary to airbag deployment in a motor vehicle collision. *Canadian Federation of Neurological Sciences Annual Congress*, Quebec City, June 2010
39. **Boyd, J. G.** Rowland J. W., Jahed A., and Kawaja, M. D. (2007). Purified cultures of glial cells from the olfactory lamina propria promote axon growth and remyelination following spinal cord injury. *Society for Neuroscience*, San Diego, CA.
40. Smithson, L., **Boyd, J.G.**, and Kawaja, M. D. (2007). A comparative ultrastructural study of olfactory tissues from adult mice, rats, and cats. *Society for Neuroscience*, San Diego, CA.
41. **Boyd, J. G.**, Rowland J. W., Jahed A., and Kawaja, M. D. (2007). Purified cultures of glial cells from the olfactory lamina propria promote remyelination following experimental spinal cord injury in rats. *American Academy of Neurology Annual Meeting*. Boston, MA.
42. Jahed, A., **Boyd, J.G.**, Rowlands, J. and Kawaja, M. D. (2006). Olfactory ensheathing cells express smooth muscle alpha actin. *National Neurotrauma Society Meeting*, San Diego, CA.
43. **Boyd, J. G.**, Jahed, A., McDonald, T. G., Van Eyk, J. E., and Kawaja, M. D. (2004). Characterization of the olfactory ensheathing cell (OEC) proteome and its utility in distinguishing OECs from Schwann cells in vitro and in vivo. *National Neurotrauma Society Meeting, San Diego, CA. Oct. 2004*.
44. **Boyd, J. G.** Skihar, V., Doucette, R., and Kawaja, M. D. (2003). Ultrastructural characterization of retrovirally infected olfactory ensheathing cells (OECs) following compressive spinal cord injury. *Soc. Neurosci. Abs*.
45. Lee, J. Krol, K. M., **Boyd, J. G.**, and Kawaja, M. D. (2003). Alterations in densities of pre-and postganglionic sympathetic axons following high thoracic spinal cord injury in adult rats. ISAN Calgary: Autonomic dysfunction after SCI. Banff, AB.

46. Jahed, A., McDonald, T. G., **Boyd, J. G.**, Skihar, V., Doucette, R., Van Eyk, J. E., and Kawaja, M. D. (2003). Proteomic analysis of fetal rat olfactory ensheathing cells and adult rat Schwann cells. *Soc. Neurosci. Abs.*
47. Lee, J., **Boyd, J. G.**, and Kawaja, M. D. (2003). Electron microscopic and immunohistochemical characterization of the corticospinal tract after clip compression in the adult rat. *Inaugural meeting of the Ontario Neurotrauma Foundation: Building Bridges*. January 2003.
48. **Boyd, J. G.**, Skihar V., Lee, J., Doucette, R., and Kawaja, M. (2002). Olfactory ensheathing cells promote robust axon growth following clip compression injury. *The 20th Annual National Neurotrauma Society Symposium & The Sixth International Neurotrauma Symposium*, Tampa Bay, FL, USA.
49. Gordon, T. and **Boyd, J. G.** (2002). The combined effects of GDNF and BDNF on the axonal regeneration of chronically axotomized motoneurons. *Sunderland society meeting*, August, 2002.
50. **Boyd, J. G.**, Skihar, V., Doucette, R., and Kawaja, M. (2002). Intraspinal grafting of olfactory ensheathing cells promotes robust axon regeneration following compressive spinal cord injury. *Canadian Federation of Biological Sciences*. Montreal, QC, Canada
51. **Boyd J. G.**, Lee, J. Skihar, V., Doucette, R., and Kawaja, M. (2002). Intraspinal grafting of olfactory ensheathing cells promotes robust axon regeneration following compressive spinal cord injury in adult rats. *The 20th Annual National Neurotrauma Society Symposium & The Sixth International Neurotrauma Symposium*, Tampa Bay, FL, USA.
52. **Boyd, J. G.**, and Gordon, T. (2001). The neurotrophin receptors, trkB and p75, differentially regulate motor axonal regeneration. *Soc. Neurosci. Abs.* 802.11.
53. **Boyd, J. G.**, and Gordon, T. (2001). Dose dependent bimodal effects of BDNF on motor axonal regeneration: role of p75 in the BDNF-mediated inhibition. *Sunderland Society Meeting*, San Diego, CA
54. **Boyd, J. G.**, and Gordon, T. (2000). The combined effects of brain derived neurotrophic factor (BDNF) and glial derived neurotrophic factor (GDNF) on motor axonal regeneration after chronic axotomy. *Exp. Neurol.* 163, 291
55. **Boyd, J. G.**, Posse de Chaves, EIP, and Gordon, T. (2000). *In vivo* evidence that high dose brain derived neurotrophic factor (BDNF) binding to p75 receptors inhibits motor axonal regeneration: a ceramide-dependent mechanism. *Soc. Neurosci Abs* 317.10.
56. **Boyd, J. G.**, and Gordon, T. (2000). The bimodal effects of brain derived neurotrophic factor (BDNF) on chronically axotomized motoneurons may be explained by the presence of high and low affinity receptors. *Physiol. Canada* 30, 153.
57. **Boyd, J.G.**, and Gordon, T. (1999) Dose-dependent effects of brain-derived neurotrophic factor (BDNF) on motor axon regeneration. *Can. J. Physiol. Pharmacol.*
58. **Boyd, J.G.**, Bennett, D. and Gordon, T. (1998) The effects of brain derived neurotrophic factor (BDNF) on axonal regeneration after prolonged motoneuron axotomy. *Soc. Neurosci.* 24, 23.4.

Invited Presentations:

1. **Boyd JG** (2021). Stroke management in the 21st century. Peterborough Health Sciences Virtual Grand Rounds.
2. **Boyd JG** (2020). Organ donation: The basics and beyond. Peterborough Health Sciences Virtual Grand Rounds.
3. **Boyd JG** (2020). Organ donation: The basics and beyond. Ross Memorial Hospital (Lindsay Ontario) Virtual Grand Rounds..
4. **Boyd JG** (2020). Neurological prognostication after cardiac arrest. Canadian Critical Care Forum Fall 2020.
5. **Boyd JG** (2019). Organ donation: The basics and beyond. Guelph General Hospital Grand Rounds
6. **Boyd JG** (2019). Organ donation: The basics and beyond. Woodstock General Hospital Grand Rounds.
7. **Boyd JG** (2019). You would have been better off getting abducted by aliens. Queen's Department of Medicine Morbidity and Mortality Rounds. Kingston 2019.
8. **Boyd JG** (2018). Pathophysiology of Delirium. Canadian Critical Care Conference, Toronto (Sept 2018)
9. **Boyd JG** (2018). Neurological Prognostication in the ICU. Canadian Critical Care Conference, Toronto (Sept 2018)
10. **Boyd JG** (2018). Prognostication after acute stroke in the EVT Era. Neurocritical Care Masterclass, Canadian Critical Care Conference, Toronto (Sept 2018)
11. **Boyd, JG** (2018). Neuroprognostication after cardiac arrest-an update. Canadian Critical Care Conference, Whistler, (Feb 2018)
12. **Boyd, JG** (2018). Developing an EVT program for acute stroke-the Kingston experience. Canadian Critical Care Conference, Whistler, (Feb 2018)
13. **Boyd, JG** and Wallace C (2018). Combined Critical Care and Neurosurgery Morbidity and Mortality Rounds. Queen's Department of Critical Care Medicine (Feb 2018).
14. **Boyd, JG.** (2018). Thinking beyond survival-the long term complications of critical illness. City Wide Critical Care Grand Rounds. Ottawa Hospital Research Institute Feb 2018.
15. **Boyd, JG.** (2017). The CONFOCAL Research Program-an Update. Canadian Critical Care Trials Group Spring Meeting. June 2017
16. **Boyd, JG.** (2017). The CONFOCAL Research Program-an Update. Canadian Critical Care Trials Group Winter Meeting. January 2017
17. **Boyd, JG** (2016). Acute ischemic stroke. Emergency Neurological Life Support Course, Canadian Critical Care Forum, Toronto, ON.
18. **Boyd, JG** (2016). Thinking beyond survival: the neurological consequences of critical illness. Citywide Critical Care Grand Rounds, London Health Sciences Centre, London, ON.
19. **Boyd, JG** (2016). Neuroprognostication in the intensive care unit. Canadian Federation for Neurological Sciences, Quebec City, June 2016.
20. **Boyd, JG** (2016). Survivorship in the ICU: the good, the bad, and the ugly. Critical Care Grand Rounds, Kingston, ON.
21. **Boyd, J. G.** (2015). Delirium in the critical care unit. Canadian Neurological Sciences Federation Neurocritical Care Special Interest Group. June 2015
22. **Boyd, J. G.** (2015). The use of EEG in the ICU. Canadian Neurological Sciences Federation Neurocritical Care Symposium.
23. **Boyd, J. G.** (2014). Monitoring cerebral function in critically ill patients. Division of Neurology Grand Rounds-Queen's University.
24. **Boyd, J. G.** (2014). Thinking beyond survival: the neurological consequences of critical illness. Department of Medicine Grand Rounds, Queen's University.
25. **Boyd, J. G.** (2014). Use of serum proteomics to identify novel biomarkers that correlated with neurological recovery after cardiac arrest. Canadian Critical Care Translational Biology Group, Montreal, QC.
26. **Boyd, J. G.** (2013). Critical care aspects of acute stroke. Quinte Health Annual Critical Care Conference, Belleville, ON.
27. **Boyd, J. G. (2013).** The five-minute neurological exam. Southeastern Ontario Regional Stroke Strategy Annual Conference, Kingston, ON.
28. **Boyd, J. G. (2012).** Can serum proteomics be used to identify novel biomarkers to predict neurologic recovery after cardiac arrest? Resuscitation in Motion Scientific Meeting, Toronto, ON.
29. **Boyd, J. G. (2012).** A spoonful of sugar or salt, which will help make the ICP go down? Kingston Annual Critical Care Conference, Kingston, ON.
30. **Boyd, J. G. (2013).** Serum proteomics is a feasible strategy to identify new biomarkers to aid in prognosis after cardiac arrest. Canadian Critical Care Translational Biology Group Meeting, Quebec City, QC.
31. **Boyd, J. G. (2012).** Serum proteomics to identify new biomarkers to aid in prognosis after cardiac arrest. Canadian Critical Care Translational Biology Group Meeting, St Alesis des Monts, QC.
32. **Boyd, J. G. (2010).** Neurological recovery after pediatric cardiac arrest in the therapeutic hypothermia era. Critical Care and Neurology Grand Rounds. Hospital for Sick Children, Toronto, ON.
33. **Boyd, J. G.** (2010). Predictors of neurological recovery following cardiac arrest for patients treated with therapeutic

- hypothermia. Clinical Neurosciences Grand Rounds, London, ON.
34. **Boyd, J. G.** (2009). New onset refractory status epilepticus: case report and review of the literature. Neurology and Critical Care Grand Rounds. Montreal Neurological Institute, Montreal QC.
 35. **Boyd, J. G.** (2009). Akinetic rigid syndromes: clinical and pathological correlations. Queen's Clinical Neurosciences Grand Rounds, Kingston, ON.
 36. **Boyd, J. G.** (2009). Neurology-Nuggets: Epilepsy. Queen's Family Medicine Residency Program Academic Session. Kingston, ON.
 37. **Boyd, J. G.** (2009). Interventional strategies to treat acute stroke. Regional stroke education day. Kingston, ON.
 38. **Boyd, J. G.** (2009). New onset refractory status epilepticus: case report and review of the literature. Intensive Care Grand Rounds, Queen's University, Kingston, ON.
 39. **Boyd, J. G.** (2008). The manifestations of varicella zoster infection in the nervous system. Neurosciences Grand Rounds, Queen's University, Kingston, ON
 40. **Boyd, J.G.** (2007). Olfactory ensheathing cells in human spinal cord injury: from rats, to humans, and back again. Neurosciences Grand Rounds, Queen's University, Kingston, ON.
 41. **Boyd, J. G.** (2005). Are olfactory ensheathing cells a viable therapy for repair following spinal cord injury? *Combined Neurology and Neurosurgery Rounds*, Vancouver General Hospital, Vancouver, BC.
 42. **Boyd, J. G.** (2005). The role of olfactory ensheathing cells and Schwann cells in the remyelination of axons following spinal cord injury. *International Collaboration on Repair Discoveries*. University of British Columbia, Vancouver, BC.
 43. **Boyd, J. G.** (2005). Defining the role of olfactory ensheathing cells in promoting axon regeneration and remyelination after spinal cord injury. *University of Alberta Centre for Neuroscience Seminar Series*, Edmonton, AB.
 44. **Boyd, J. G.** (2005). Olfactory ensheathing cells: What are they, and what do they do in the damaged spinal cord? *Clinical Neurosciences Rounds*, University of Western Ontario, London, ON.
 45. **Boyd, J. G.** (2004). Are growth factors a viable therapy for axon regeneration following peripheral nerve injury? *Neuroscience Rounds*, Dept. of Neurology, Queen's University.
 46. **Boyd J. G.,** Lee, J. Skihar, V., Doucette, R., and Kawaja, M. (2002). Intraspinial grafting of olfactory ensheathing cells promotes robust axon regeneration following compressive spinal cord injury in adult rats. *The 20th Annual National Neurotrauma Society Symposium & The Sixth International Neurotrauma Symposium*, Tampa Bay, FL, USA.
 47. **Boyd, J. G.** (Oct., 2001). Peripheral nerve injury: Can we use neurotrophic factors to promote axonal regeneration and functional recovery? *Queen's University Centre for Neuroscience Studies Seminar Series*.
 48. **Boyd, J. G.** (Oct., 2001). The role of neurotrophic factors in motor axonal regeneration. Queen's University Department of Anatomy and Cell Biology Seminar Series, Queen's University, Kingston, ON.
 49. **Boyd, J. G.** (June, 2001). The role of neurotrophic factors and their receptors in motor axonal regeneration. *University Centre for Neuroscience Seminar Series*, University of Alberta, Edmonton, AB.
 50. **Boyd, J.G.,** Posse de Chaves, E.I.P., and Gordon, T. (2000). *In vivo* evidence that high dose brain derived neurotrophic factor (BDNF) binding to p75 receptors inhibits motor axonal regeneration: a ceramide-dependent mechanism. *NGF 2000: Nerve growth factor and related molecules*. Montreal, QC. May, 2000.

Media Engagement/Knowledge Translation:

The Hamilton Spectator (Op-Ed on Delirium): August 24, 2018

<https://www.thespec.com/opinion/contributors/2018/08/24/why-we-need-to-pay-more-attention-to-treating-delirium.html>

CBC “The National” March 2018

<https://www.cbc.ca/news/health/delirium-health-hallucinations-hamilton-kingston-brain-disorder-1.4576258>

The Walrus (October 2017)

<https://thewalrus.ca/why-is-no-one-talking-about-hospital-acquired-delirium/>

Huffington Post August 2018 (English and French Translated)

https://quebec.huffingtonpost.ca/j-gordon-boyd/delirium-delire-effet-secondaire-grave-traitements-soins-intensifs_a_23503723/

Kingston Whig Standard (March 2018)

<https://www.thewhig.com/2018/03/18/possible-cause-of-delirium-found/wcm/095d7bd5-a249-cd44-5cab-f94b9d1dd0af>