

Curriculum Vitae

Dr. Alan Tam, MD, FRCPC

A. Date Curriculum Vitae is Prepared: 2020 January 19

1. EDUCATION

Degrees

2016 Sep - present	MSc, Health Services Research, Health Policy, Management and Evaluation, University of Toronto, Toronto, Ontario, Canada, Supervisor(s): Dr. Beate Sander
2007 Sep - 2011 May	MD, Queen's University, Kingston, Ontario, Canada
2003 Sep - 2007 Apr	BSc, Life Sciences, Faculty of Health Sciences, Queen's University, Kingston, Ontario, Canada

Postgraduate, Research and Specialty Training

2016 Sep - 2017 Jun	Fellow, Neuro-rehabilitation, Department of Medicine, University of Toronto, Toronto, Ontario, Canada
2012 Jul - 2016 Jun	Resident, Division of Physical Medicine & Rehabilitation, Department of Medicine, University of Toronto, Toronto, Ontario, Canada
2011 Jul - 2012 Jun	Resident, Division of Physical Medicine & Rehabilitation, Department of Medicine, McMaster University, Hamilton, Ontario, Canada

Qualifications, Certifications and Licenses

2019 Mar - present	Member, Physical Medicine and Rehabilitation, College of Physicians and Surgeons of British Columbia, British Columbia, Canada, License / Membership #: 53520
2016 Jun - present	Member, Physical Medicine and Rehabilitation, College of Physicians and Surgeons of Ontario, Toronto, Ontario, Canada, License / Membership #: 95165
2016 Jun - present	Fellow, Physical Medicine and Rehabilitation, Royal College of Physicians of Canada, Canada

2. EMPLOYMENT

Current Appointments

2019 Feb - present	Co-chair, Data Committee, Ontario Neurotrauma Foundation, Ontario, Canada <i>Co-chair of ONF Data Committee tasked with developing metrics to monitor Ontario brain injury system and implement best practices</i>
2017 Jul 1 - present	Lecturer, Clinician-Quality & Innovation, Physical Medicine & Rehabilitation, Medicine, Faculty of Medicine, University of Toronto, Toronto, Ontario, Canada

I have a full-time faculty appointment at the University of Toronto. My academic focus developing models evaluating the cost-effectiveness of rehabilitation interventions. I am co-chair of the Ontario Neurotrauma Foundation (ONF) Data Advisory Committee, which is tasked with evaluating data and metrics on the quality of care in Ontario for the brain injury population

2016 Jul - present

Physician, Physical Medicine & Rehabilitation, Department of Medicine, Faculty of Medicine, Toronto Rehabilitation Institute - University Centre, Toronto, Ontario, Canada

My clinical practice at UHN -TRI involves inpatient and outpatient brain injury rehabilitation. I am the consulting physiatrist on an acquired brain injury rehabilitation unit, where the majority of patients have sustained their brain injury as a result of trauma. I treat both their neurologic and musculoskeletal injuries. My outpatient practice includes long term management of patients with moderate to severe traumatic brain injury who have been discharged from the inpatient acquired brain injury rehabilitation unit, and management of patients with persistent concussion/mild traumatic brain injury. I also assess and manage patients with acute concussion in the Hull-Ellis Concussion clinic at Toronto Rehabilitation Institute.

2016 Jul - present

Physician, Physical Medicine & Rehabilitation, Department of Medicine, Faculty of Medicine, St. Michael's Hospital, Toronto, Ontario, Canada

I practice in the outpatient Head Injury Clinic at St. Michael's Hospital, managing patients with subacute to chronic concussion/mild traumatic brain injury symptoms in the setting of isolated concussion or as part of polytrauma. Previously, I also worked in the Trauma-Neurosurgery Intensive Care Unit at St. Michael's Hospital, providing consultation on the early management, consistent with rehabilitation principles, for patients with acquired/traumatic brain injury

3. HONOURS AND CAREER AWARDS

Distinctions and Research Awards

NATIONAL

Received

2016 May

Honourable Mention – Resident research, Canadian Association of Physical Medicine and Rehabilitation 64th Annual Scientific Meeting, London, Ontario, Canada. (Research Award)

2013 Jun

Resident Essay Contest Winner, Canadian Association of Physical Medicine and Rehabilitation 61st Annual Scientific Meeting, Montreal, Quebec, Canada. (Distinction)

LOCAL

Received

2014 Oct **Senior resident research award**, Division of Psychiatry, Department of Medicine, University of Toronto, Toronto, Ontario, Canada. (Research Award)

4. PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Professional Associations

2011 Jul - present **Member**, Canadian Association of Physical Medicine & Rehabilitation
2007 Sep - present **Member**, Canadian Medical Association
2007 Sep - present **Member**, Ontario Medical Association

Administrative Activities

PROVINCIAL / REGIONAL

Ontario NeuroTrauma Foundation

2019 Feb - present **Co-Chair**, Data Committee, Ontario, Canada.

LOCAL

Queen's University School of Medicine

2009 Jan - 2009 Dec **Student Senator**, Aesculapian Society, Kingston, Ontario, Canada.
2008 Jan - 2008 Dec **Alma Mater Society Representative**, Aesculapian Society, Kingston, Ontario, Canada.

University of Toronto

2016 Jul 1 - 2017 Jun 30 **Academic Half-Day coordinator**, Division of Physical Medicine & Rehabilitation, Department of Medicine, Toronto, Ontario, Canada.
2014 Jan - 2014 Dec **Assistant chief resident**, Division of Physical Medicine & Rehabilitation, Department of Medicine, Toronto, Ontario, Canada.
2014 Jan - 2014 Dec **Admissions file reviewer**, Undergraduate M.D. Program, Toronto, Ontario, Canada.
2012 Oct - 2013 Mar **Admissions file reviewer and interviewer**, Undergraduate M.D. Program, Toronto, Ontario, Canada.

Peer Review Activities

MANUSCRIPT REVIEWS

Reviewer

2019 Mar - present Disability & Rehabilitation, Number of Reviews: 1
2018 Jun - present International Journal of Stroke, Number of Reviews: 1
2018 Jun - present Neurocritical Care, Number of Reviews: 2

2016 Mar - present Association of Academic Physiatrists, American Journal of Physical Medicine & Rehabilitation, Number of Reviews: 5

Other Research and Professional Activities

RESEARCH PROJECT

2014 Jul - present **Investigator (Resident)**. The impact of medical comorbidities on stroke rehabilitation outcomes. Toronto Rehabilitation Institute, Toronto, Ontario, Canada. Supervisor(s): Mark Bayley. Collaborator(s): Ruth Hall.
Evaluating the impact of medical comorbidities, using data from relevant databases available via the Institute for Clinical Evaluative Sciences, on stroke rehabilitation outcomes in Ontario.

2016 Sep - 2018 Dec **Co-Lead Investigator**. Cost-effectiveness of a rapid access (Fast Track) outpatient stroke rehabilitation program. Toronto Rehabilitation Institute, Toronto, Ontario, Canada. Collaborator(s): Stephen Mac.
An analysis of the Fast Track outpatient stroke rehabilitation at Toronto Rehabilitation Institute demonstrating cost-effectiveness of the intervention to the health system.

2016 Jul - 2017 Jun **Collaborator**. Improving medication history accuracy during outpatient PM&R clinic visits. Division of Physical Medicine & Rehabilitation, Toronto Rehabilitation Institute, Toronto, Ontario, Canada. Collaborator(s): Meiqi Guo (Site Lead).
A division-wide quality improvement initiative to increase accuracy of medication history of outpatient PM&R patients to improve workflow in clinic and improve management recommendations.

2015 Jul - 2018 Dec **Collaborator**. Does early PM&R consultation reduce length of stay or improve outcomes for trauma patients? Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada. Collaborator(s): Larry Robinson (Principal Investigator).
Evaluating the clinical impact of early physiatry consultation for trauma patients in a single Level 1 trauma centre.

2013 Sep - 2014 Jun **Project member**. Increasing the Screening for Neuroendocrine Dysfunction Following Traumatic Brain Injury: A Quality Improvement Project. Toronto Rehabilitation Institute, Toronto, Ontario, Canada. Supervisor(s): Alex Lo. Collaborator(s): Sivakumar Gulasingam, Meiqi Guo, Shane Journaey, Najam Mian.
A project aimed at increasing the rate of neuroendocrine screening by neuro-physiatrists at TRI in accordance with published screening recommendations after TBI.

THESIS PROJECT

2017 Jan - present **Lead Investigator**. The cost-effectiveness of early physical medicine & rehabilitation (PM&R) consultation for trauma patients in a Level I trauma centre in Canada. Institute of Health Policy, Management, and Evaluation, University of Toronto, Toronto, Ontario, Canada. Supervisor(s): Dr. Beate Sander.

An analysis of the PM&R consultation clinical trial at SHSC to determine cost-effectiveness of the intervention from a health payer perspective.

C. Publications

1. MOST SIGNIFICANT PUBLICATIONS

1. Tam AKH, Mac S, Isaranuwatthai W, Bayley M. Cost-effectiveness of a high-intensity rapid access outpatient stroke rehabilitation program. *International Journal of Rehabilitation Research*. 2019 Mar 13;42(1):56-62. **Co-Principal Author**.
2. Tam AK and Bayley M. A narrative review of the impact of medical comorbidities on stroke rehabilitation outcomes. *Disability and Rehabilitation Status*. 2018 Jul;40(15):1842-1848. **Principal Author**. *Review of the current literature regarding medical comorbidities and rehab specific outcomes in the stroke population, identifying gaps in the current literature, and proposing future directions to address the gaps in current evidence.*
3. Tam AK, Berbrayer D, and Robinson LR. What should be the role of physiatrists in early acute care rehabilitation? – Current literature, models of care, and thoughts for the future. *American Journal of Physical Medicine & Rehabilitation*. 2016;95(3):225-229. **Principal Author**. *Review of the current literature regarding early physiatry involvement in acute care, and proposing future direction to address the gaps in current evidence.*

2. PEER-REVIEWED PUBLICATIONS

Journal Articles

- Li CMF, Robinson LR, Tam AKH. Addressing post-traumatic amnesia — recommendations for improving patient lives after injury. *Journal of Trauma and Acute Care Surgery*. 2019 Jun;86(6):1033-1038. Impact Factor 3.695. **Senior Responsible Author**.
- Tam AKH, Mac S, Isaranuwatthai W, Bayley M. Cost-effectiveness of a high-intensity rapid access outpatient stroke rehabilitation program. *International Journal of Rehabilitation Research*. 2019 Mar 13;42(1):56-62. **Co-Principal Author**.
- Guo Meiqi, **Tam Alan**, Dey Ayun, Fraser Beth, Podalak Margaret, Bayley Mark, Soong Christine, Lo Alexander. Increasing the use of home medication lists in an outpatient neurorehabilitation clinic. *BMJ Open Quality*. 2019 Mar;8(1). In Press. **Coauthor or Collaborator**.
- Robinson LR, Tam AKH, MacDonald SL, Hanada EY, Berbrayer D, Abdullahi A, Camilotti BG, Tien H. The Impact of Introducing Physical Medicine and Rehabilitation Trauma Consultation Service to an Academic Level 1 Trauma Center. *American Journal of Physical Medicine & Rehabilitation*. 2019 Jan 1;98(1):20-25. **Coauthor or Collaborator**.
- Tam AK and Bayley M. A narrative review of the impact of medical comorbidities on stroke rehabilitation outcomes. *Disability and Rehabilitation Status*. 2018 Jul;40(15):1842-1848. **Principal Author**.
- Tam AK, Berbrayer D, and Robinson LR. What should be the role of physiatrists in early acute care rehabilitation? – Current literature, models of care, and thoughts for the future. *American Journal of Physical Medicine & Rehabilitation*. 2016;95(3):225-229. **Principal Author**.
- Tam AK, Kapadia A, Ilodigwe D, Li Z, Schweizer TA and MacDonald RL. Impact of global cerebral atrophy on clinical outcomes in subarachnoid hemorrhage. *Journal of Neurosurgery*. 2013;119(1):198-206. **Principal Author**.

Tam AK, Ilodigwe D, Li Z, Schweizer TA and MacDonald RL. Global cerebral atrophy after subarachnoid hemorrhage: a possible marker of acute brain injury and assessment of its impact on outcome. *Acta Neurochir Suppl.* 2013;115:17-21. **Principal Author.**

Tam AK, Gardam KE, Lamb S, Kachoei BA and Magoski NS. Differential translocation of PKC during bursting in Aplysia bag cell neurons. *Neuroscience.* 2011;179:41-55. **Principal Author.**

Tam AK, Ilodigwe D, Mocco J, Mayer S, Kassell N, Ruefenacht D, Schmiedek P, Weidauer S, Pasqualin A and MacDonald RL. Impact of systemic inflammatory response syndrome on vasospasm, cerebral infarction, and outcome after subarachnoid hemorrhage: Exploratory analysis of CONSCIOUS-1 database. *Neurocritical Care.* 2010;13:182-189. **Principal Author.**

Tam AK, Geiger, JE, Hung AY, Groten CJ and Magoski NS. Persistent Ca²⁺ current contributes to a prolonged depolarization in Aplysia bag cell neurons. *Journal of Neurophysiology.* 2009;102:3753-3765. **Principal Author.**

D. Presentations and Special Lectures

1. International

Presented Abstracts

2011 Apr **Presenter.** The impact of global cerebral atrophy on clinical outcome after subarachnoid hemorrhage. American Academy of Neurological Surgeons – 79th Annual Scientific Meeting. Denver, Colorado, United States. Presenter(s): Tam AKH, Ilodigwe D, Li Z, Schweizer TA and MacDonald RL. Poster Presentation.

2010 Feb **Co-author.** Impact of systemic inflammatory response syndrome on vasospasm, cerebral infarction and outcome after subarachnoid hemorrhage. American Heart Association International Stroke Conference 2010. San Antonio, Texas, United States. Presenter(s): MacDonald RL, Tam AKH, Mocco J and Ilodigwe D. Podium Presentation.

2009 Apr **Presenter.** Calcium channels contribute to a prolonged depolarization in the bag cell neurons of Aplysia californica. American Academy of Neurology – 61st Annual Meeting. Seattle, Washington, United States. Presenter(s): Tam AKH and Magoski NS. Poster Presentation.

2007 Jun **Co-author.** A non-selective cation current and a persistent calcium current contribute to a prolonged depolarization in Aplysia bag cell neurons. Friday Harbor Laboratories Centennial Symposium - Gastropod Neuroscience. Friday Harbor, Washington, United States. Presenter(s): Magoski NS, Tam AKH, Hung AY and Geiger JE. Poster Presentation.

Presented and Published Abstracts

2019 Mar 13 **Collaborator.** Cannabis use, premorbid history and symptom severity following a concussion: a cross sectional study in a Canadian tertiary care clinic. 13th World Congress on Brain Injury. Toronto, Ontario, Canada. Presenter(s): Cindy Hunt, Meiqi Guo, Alicja Michalak, Cheryl Masanic, Chantal Vaidyanath, **Alan Tam**, Robert Hastings, Fallon Ponnambalam, Sonya Torreiter, Andrew Baker. *Publication Details:* Cannabis use, premorbid history and symptom severity following a concussion: a cross sectional study in a Canadian tertiary care clinic.

2019 Mar 13 **Collaborator.** Cannabis use and early life experiences among adults experiencing persistent post concussion symptoms: a cross sectional study. 13th World Congress on Brain Injury. Toronto, Ontario, Canada. Presenter(s): Cindy Hunt, Meiqi Guo, Alicja Michalak, Cheryl Masanic, Chantal Vaidyanath, **Alan Tam**, Robert Hastings, Fallon Ponnambalam, Sonya Torreiter, Andrew Baker. *Publication Details:* Cannabis use and early life experiences among adults experiencing persistent post concussion symptoms: a cross sectional study.

2. National

Presented Abstracts

- 2017 Sep **Presenter.** Cost-effectiveness evaluation of an early access, high intensity, outpatient stroke rehabilitation program at Toronto Rehabilitation Institute. Canadian Stroke Congress Annual Scientific Meeting. Calgary, Alberta, Canada. Presenter(s): Tam AKH, Mac S and Baylet MT. Oral Presentation.
- 2016 Sep **Presenter.** Do medical comorbidities impact stroke rehabilitation outcomes? Canadian Stroke Congress Annual Scientific Meeting. Quebec City, Quebec, Canada. Presenter(s): Tam AKH, Hall R and Bayley MT. Oral Poster Presentation.
- 2016 May **Presenter.** The impact of medical comorbidities on inpatient stroke rehabilitation outcomes. Canadian Association of Physical Medicine & Rehabilitation 64th Annual Scientific Meeting. London, Ontario, Canada. Presenter(s): Tam AKH and Bayley MB. Poster Presentation.
- 2015 May **Presenter.** Impact of medical comorbidities on stroke rehabilitation outcomes – a review. Canadian Association of Physical Medicine & Rehabilitation 63rd Annual Scientific Meeting. Vancouver, British Columbia, Canada. Presenter(s): Tam AKH and Bayley MB. Poster Presentation.
- 2013 Jun **Presenter.** Incidence of spasticity after stroke and subarachnoid hemorrhage – a review of literature. Canadian Association of Physical Medicine & Rehabilitation 61st Annual Scientific Meeting. Montreal, Quebec, Canada. Presenter(s): Tam AKH. Podium Presentation.
- 2007 May **Presenter.** A persistent, voltage-dependent calcium current in neuroendocrine cells. Canadian Association for Neurosciences – 1st Annual Meeting of CAN. Toronto, Ontario, Canada. Presenter(s): Tam AKH and Magoski NS. Poster Presentation.

3. Provincial / Regional

Invited Lectures and Presentations

- 2018 Feb 14 **Invited Speaker.** Cost-effectiveness of an early access, high intensity, outpatient stroke rehabilitation program at Toronto Rehabilitation Institute. Edmonton Stroke Rehabilitation Rounds. Edmonton, Alberta, Canada. Presenter(s): **Alan Tam**. Presented an overview of the Fast-track stroke rehabilitation program at TRI, and the economic evaluation of the program that I had completed.

Presented Abstracts

2016 May **Co-author.** What should be the role of physiatrists in early acute care rehabilitation? – Current literature, models of care, and thoughts for the future. GTA Rehab Network’s Best Practices Day 2016. Toronto, Ontario, Canada. Presenter(s): Robinson LR and Tam AKH. Poster Presentation.

E. Research Supervision

1. PRIMARY OR CO-SUPERVISION

Undergraduate MD

2018 Jan - 2019 Dec **Primary Supervisor.** Year 2. Cathy Li. Supervisee Position: MD Student, Supervisee Institution: University of Toronto. *Addressing post-traumatic amnesia — recommendations for improving patient lives after brain injury, Non-thesis Project.* Collaborator(s): Larry Robinson.