

Curriculum Vitae

Gustavo Saposnik

A. Date Curriculum Vitae is Prepared: 2015 September 19

B. Biographical Information

Primary Office	St. Michael's Hospital 55 Queen Street East 9 FI - Rm 931 Toronto, Ontario, Canada M5C 1R6
Telephone	416.864.5155
Fax	416.864.5150
Email	saposnikg@smh.ca

1. EDUCATION

Degrees

2000 - 2003	MSc. (Clinical Effectiveness), Public Health, Epidemiology, Biostatistics, University of Buenos Aires & Havard School of Public Health, Buenos Aires, Buenos Aires, Argentina, Supervisor(s): Dr. Fernando Rubinstein
1996	Board certification in Neurology, Neurology (Honours), National Board of Medical Examiners in Neurology, University of Buenos Aires, Buenos Aires, Buenos Aires, Argentina
1990	MD (Honours), University of Buenos Aires, Buenos Aires, Buenos Aires, Argentina, Supervisor(s): NA
1985 - 1990	MD, University of Buenos Aires, Buenos Aires, Buenos Aires, Argentina, Supervisor(s): NA

Postgraduate, Research and Specialty Training

2015 - 2017	PhD candidate, Department of Economy, University of Zurich, Zürich, Switzerland, Supervisor(s): Dr. Christian Ruff & Philippe Tobler
2003 - 2006	Postdoctoral Clinical Stroke Fellow, Stroke Program, Department of Neurology, London Health Sciences Centre, University of Western Ontario, London, Ontario, Canada, Supervisor(s): Dr. Vladimir Hachinski
2000 - 2003	Master applicant, Public Health, Clinical Effectiveness Program, University of Buenos Aires & Harvard School of Public Health, Buenos Aires, Capital Federal, Argentina, Supervisor(s): Dr. R. Rubinstein & Ezequiel Garcia Elorrio
1999 - 2000	Postdoctoral Research Stroke Fellow, Stroke Program, Department of Neurology, Beth Israel Medical Center, Harvard University, Boston, Massachusetts, Supervisor(s): Dr. Louis Caplan
1997 - 1999	Clinical Stroke Fellow, Stroke Program, Department of Neurology, Ramos Mejia Hospital, University of Buenos Aires, Buenos Aires, Buenos Aires, Argentina, Supervisor(s): Dr. Raul C. Rey
1996 - 1997	Chief Neurology Resident, Neurology, Department of Neurological Sciences, University of

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Buenos Aires, Buenos Aires, Buenos Aires, Argentina
1993 - 1996 Neurology Resident, Neurology, Department of Neurological Sciences, University of Buenos Aires, Buenos Aires, Buenos Aires, Argentina
1991 - 1993 Resident, Internal Medicine, Dept of Medicine, University of Buenos Aires, Buenos Aires, Buenos Aires, Argentina
1990 - 1991 Resident, Internal Medicine, University of Buenos Aires, Buenos Aires, Buenos Aires, Argentina

Qualifications, Certifications and Licenses

2011 Dec - present FRCPC, Neurology, Royal College of Physicians and Surgeons of Canada, Toronto, Ontario, Canada
2006 Jul - present Academic License, Neurology, CPSO, Toronto, Ontario, Canada, License / Membership #: # 79371
1997 - present Certification in Neurology, Neurology, National Ministry of Health, Buenos Aires, Buenos Aires, Argentina, License / Membership #: # 82249
1996 May - present Certification on Neurology, Neurology, University of Buenos Aires, Buenos Aires, Buenos Aires, Argentina, License / Membership #: # 82249
2003 Jul - 2006 Jun Educational License, Neurology, CPSO, Toronto, Ontario, Canada, License / Membership #: # 79371

2. EMPLOYMENT

Current Appointments

2011 Jul 1 - present Associate Professor in Medicine, Division of Neurology, Department of Medicine, University of Toronto, Ontario, Canada
St. Michael's Hospital
2011 - present Director, Center for Virtual Reality studies (CVR), Division of Neurology, Li Ka Shing Knowledge Institute, St Michael's Hospital, University of Toronto, University of Toronto, Ontario, Canada
Dr. Saposnik is the lead and director of the Center for Virtual Reality studies (CVR). The CVR is involved in the design and conduction of studies to identify the best strategies and softwares available to be implemented in neuro-rehabilitation
2010 Jun 14 - present Associate Member, Heart and Stroke Foundation Canadian Partnership for Stroke Recovery, Toronto, Ontario, Canada
2010 - present Consultant Reviewer, Exceptional Access Program, Ontario Ministry of Health and Long Term Care, Toronto, Ontario, Canada
2009 - present Adjunct Scientist, University of Toronto, Institute of Clinical Evaluative Sciences (ICES), Toronto, Ontario, Canada
2007 Jul 1 - present Scientist, Li Ka Shing Knowledge Translation Institute, Toronto, Ontario, Canada
2007 - present Chair, Stroke Outcome Research Canada (SORCan) Working Group, Toronto, Ontario, Canada
2007 - present Director, Stroke Outcomes Research Center, Division of Neurology, Department of Medicine, University of Toronto, Ontario, Canada
2007 - present Associate Professor, Institute of Health Policy, Management and Evaluation (iHPME), University of Toronto, Toronto, Ontario, Canada
2006 Jul 1 - present Staff physician, Division of Neurology, Department of Medicine, St. Michael's Hospital, Toronto, Ontario, Canada
2006 - present Scientist, Mobile Clinical Research Unit, St. Michael's Hospital, Toronto, Ontario, Canada
Division of Neurology, Department of Medicine, University of Toronto

Previous Appointments

HOSPITAL

- 2001 - 2003 Co-Director, Stroke Unit, Clinical and Research, Division of Neurology, Department of Medicine, Faculty of Medicine, Ramos Mejia University Hospital, Buenos Aires, Buenos Aires, Argentina
- 1999 Jun - 2003 May Outpatient Attending Neurologist, Neurology, Ramos Mejia, Buenos Aires, Buenos Aires, Argentina
- 1999 - 2002 Associate Neurologist, Centro Neurologico Buenos Aires, Buenos Aires, Buenos Aires, Argentina
- 1998 - 2003 Junior Staff Neurologist, Division of Neurology, Department of Medicine, Ramos Mejia University Hospital, Buenos Aires, Argentina
- 1998 - 2003 Staff Neurologist, Department of Organ Procurement for Transplantation, Garrahan University Hospital, Buenos Aires, Argentina
- 1996 - 1998 Housestaff, Neuro-ICU physician, Neurocritical Care Unit, FLENI, Buenos Aires, Argentina

RESEARCH

- 2005 - 2006 Project Manager, Waiting times in EDs, Health Service Research Unit, Canadian Institute for Health Information (CIHI), Toronto, Ontario, Canada
Division of Health Service Research and Health Indicators

UNIVERSITY

- 2006 Jul 1 - 2011 Jun 30 Assistant Professor in Medicine, Stroke Program, Division of Neurology, Department of Medicine, University of Toronto, Ontario, Canada
St. Michael's Hospital
- 1999 - 2004 Lecturer, Department of Medicine, Division of Neurology, Ramos Mejia University Hospital, University of Buenos Aires (UBA)
- 1987 - 1994 Teaching Assistant, Department of Histology and Cellular Biology, School of Medicine, University of Buenos Aires (UBA)

UNIVERSITY - CROSS APPOINTMENT

- 2000 - 2004 Lecturer, Organ Procurement for Transplantation, University of Buenos Aires (UBA), Garrahan University Hospital, Buenos Aires, Buenos Aires, Argentina

3. HONOURS AND CAREER AWARDS

Distinctions and Research Awards

INTERNATIONAL

Received

- 2014 Nov **International Visiting Scholarship**, Visiting Scholar- Review research platform & projects and give lectures to undergraduate, postgraduate and faculty members. Mahidol University, Bangkok, Nakhon Phanom, Thailand. (Visiting Scholar, Specialty: Stroke)
Total Amount: 5,000 CAD

NATIONAL

Received

- 2012 Oct **Chair's Impact Award**, Canadian Stroke Congress, Ontario, Canada. (Research Award, Specialty: Stroke)

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- 2012 Jul - 2017 Jul **Distinguished Clinician Scientist Award**, Heart and Stroke Foundation of Canada (HSFC), Ontario, Canada. (Research Award, Specialty: Stroke)
Total Amount: 500,000 CAD
- 2012 Jul - 2017 Jul **MacDonald Scholarship**, Heart and Stroke Foundation of Canada (HSFC), Ontario, Canada. (Research Award, Specialty: Stroke)
- 2012 Jul - 2017 Jul **New Investigator Award**, Canadian Institute for Health Research (CIHR), Ontario, Canada. (Research Award, Specialty: Stroke)
Declined for accepting the HSF Distinguished Scientist Award. Total Amount: 300,000 CAD
- 2008 Jul - 2011 Jun **Clinician Scientist Award**, Heart and Stroke Foundation Ontario (HSFO), Ontario, Canada. (Research Award)
Premature risk of stroke associated with regency of immigration in Ontario (PRESARIO) 3 Years; 50 K/year. 2008-2011. Total Amount: 192,000 CAD
- 2004 Jul - 2007 Jun **Focus in Stroke Fellowship Award**, Heart and Stroke Foundation & Canadian Institute for Health Research (CIHR), Ontario, Canada. (Research Award)
Total Amount: 165,000 CAD

LOCAL

Received

- 2004 **Best Presentation Award**, Department of Neurological Sciences, University of Western Ontario, London, Ontario, Canada. (Distinction)
Postgraduate Awards Committee for studies in postgraduate medical research. Research Study: "Lack of improvement after thrombolysis for acute stroke" (Diploma). Total Amount: 500

OTHER

Received

- 2008 Jun **Best Poster**, Presenter and Principal author, Mobility Program, Toronto, Ontario, Canada. (Distinction)
Best poster Presentation - Escalating Levels of Access to In-Hospital Care and Stroke Mortality.
- 2007 - 2009 **Connaught Matching Grant Award**, University of Toronto, Toronto, Ontario, Canada. (Distinction)
Project: Health System Determinants of Stroke Outcome. Total Amount: 12,500
- 2003 **International Fellowship Award**, American Academy of Neurology, Denver, Colorado, United States. (Distinction)
Peer review award to receive full support to attend to the 55th AAN Meeting in Denver. Total Amount: 2,500
- 2001 - 2003 **Scientific Award in Epidemiology**, Principal Investigator, Roemmers Foundation, Buenos Aires, Buenos Aires, Argentina. (Distinction)
Project: "Epidemiology of Stroke: risk factors and ethnicity". Collaborators: Dr Leonardo Gonzalez, Dr. Raul Rey, Dr. Roberto Sica. Total Amount: 6,600
- 2000 **Scientific Research Award**, Neurological Society of Argentina, Buenos Aires, Argentina. (Distinction)
Best Clinical Research Study. Total Amount: 1,500
- 1999 - 2001 **Postdoctoral International Fellowship**, Government of Argentina, Boston, Massachusetts, United States. (Distinction, Specialty: Stroke)
Scientific Research Scholarship from the National Ministry of Culture and Education obtained by a competitive application. Project: "Epidemiology of Stroke". Supervisor: Dr. Louis Caplan. Total Amount: 15,000
- 1997 - 1999 **FITEN Fellowship Award**, Stroke clinical fellow, Ramos Mejia University Hospital. University

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of Buenos Aires. Buenos Aires, Buenos Aires, Argentina. (Distinction)
Postdoctoral Fellowship in Cerebrovascular disease. Supervisor: Dr. Raul C. Rey. Total Amount: 14,000

1997 **Honour Diploma**, School of Medicine. University of Buenos Aires, Buenos Aires, Buenos Aires, Argentina. (Distinction, Specialty: Medicine)
(Academic excellence).

Teaching and Education Awards

LOCAL

Received

2010 Jul - 2011 Jun **Neurology Faculty Teaching Award**, Neurology, Dept of Medicine, Faculty of Medicine, Ontario, Canada. (2011)

4. PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Professional Associations

2010 Jun 14 - present **Associate Member**, Heart and Stroke Foundation Centre for Stroke Recovery
2007 - present **Fellow**, American Heart Association, 142163334
2005 - present **Member**, International Stroke Society (ISS)
2004 - present **Member**, Canadian Stroke Consortium (CSC)
2004 - present **Member**, Canadian Stroke Network (CSN)
2004 - present **Member**, Ontario Medical Association (OMA)
2003 - present **Member**, Canadian Medical Protective Association (CMPA)
2003 - present **Member**, College of Physicians and Surgeons Ontario (CPSO)
2002 - present **Member**, Association of Organ Procurement for Transplantation (APProAT)
1999 - present **Member**, Critical care group, World Federation of Neurology (CC-WFN)
1998 - present **Founder member**, Iberoamerican Society of Cerebrovascular disease
1996 - present **Member**, American Academy of Neurology (AAN)
1994 - present **Member**, Argentinean Neurological Society (SNA)

Administrative Activities

INTERNATIONAL

Other Organizations

2007 Jul 1 - present **Chair**, Stroke Outcome Research Canada (SORCan) Working Group
Scientific Advisory Boards.

American Heart Association (AHA)

2014 Apr - present **Co-Chair**, Special Writing Group on the Diagnosis and Management of Silent Stroke
Scientific Advisory Boards.

2008 Jul - present **Chair**, Special Writing Group on the Diagnosis and Management of Cerebral Venous Thrombosis of the American Heart Association Stroke Council (AHA)
Scientific Advisory Boards.

NATIONAL

Canadian Stroke Network

2007 Jul 1 - 2008 Jun 30 **Member**, Canada.
Panel Member, Indicators of Quality of Stroke Care.

PROVINCIAL / REGIONAL

Other Organizations

2007 May 1 - present **Member**, Registry Canadian Stroke Network, Canada.
2007 Jul 1 - 2009 Jun 30 **Member**, Ontario Stroke System
Scientific Advisory Boards.

LOCAL

Li Ka Shing Knowledge Institute

2008 Jul - present **Chair**, Stroke Research Rounds, Toronto, Ontario, Canada.
Scientific Advisory Boards.

St Michael's Hospital

2008 Jul - present **Chair**, Stroke Journal Club, Toronto, Ontario, Canada.
Scientific Advisory Boards.

OTHER

Other Organizations

2007 Jul 1 - 2008 Jun 30 **Co-Chair**, Operating Stroke Committee
Hospital.
2005 **Member**, Science Advisory Board (SAB) studies
Scientific Advisory Boards.

Canadian Stroke Consortium (CSC)

2004 - present **Research Protocol Reviewer**

Emergency Care. Government of Buenos Aires

2001 - 2002 **Advisory Board member**, Health Professionals Advisory Sub-Committee for the creating of
Stroke Units

Iberoamerican Society of Cerebrovascular disease

2001 - 2003 Steering Committee

Institute of Clinical Evaluative Sciences (ICES)

2005 **Advisory Panel member**, "Quality of care indicators for Stroke Prevention care in Canada"

Ramos Mejia University Hospital (Local Committee)

2003 - 2006 **Member (Neurologist)**, Organ Procurement for Transplantation
Scientific Advisory Boards.

Peer Review Activities

ASSOCIATE OR SECTION EDITING

Editor

2015 Jun - present STROKE, the official Journal of the AHA

Guest Editor

2010 - present Neurology Research International

Member, Writing Group

2012 Oct - 2014 Oct AHA, AHA Statement on Stroke Prevention and Care in Women

2012 Sep - 2014 Sep AHA, AHA Statement on Palliative Care and end of life decisions after Stroke

EDITORIAL BOARDS

Member

2013 Mar - present International Journal of Stroke

2009 - present Journal of Stroke & Cerebrovascular Diseases

2001 - present STROKE

Reviewer

2003 Jul - present Stroke, Number of Reviews: 113

2009 Jul 1 Journal of Stroke and Cerebrovascular Diseases, Number of Reviews: 1

GRANT REVIEWS

Reviewer

2010 - present Ministry of Health (Singapore), Number of Reviews: 2

2010 - present PSI Foundation

2008 Sep - 2008 Nov HSFO/Ontario Stroke Strategy, Number of Reviews: 37

2007 Sep - 2007 Nov HSFO/Ontario Stroke Strategy, Number of Reviews: 23

MANUSCRIPT REVIEWS

Reviewer

2014 - present PLOS Medicine, Number of Reviews: 2

2011 - present Annals of Neurology, Number of Reviews: 2

2011 - present Journal of Thrombosis and Hemostasis, Number of Reviews: 1

2010 - present Archives of Physical Medicine and Rehabilitation, Number of Reviews: 1

2010 - present BMJ, Number of Reviews: 2

2009 Dec - present Cerebrovascular Diseases, Number of Reviews: 1

2009 Dec - present International Journal of Stroke, Number of Reviews: 3

2009 Nov - present BMC Neurology, Number of Reviews: 2

2009 Oct - present BMC Medicine, Number of Reviews: 3

2009 May 1 - present CIRCULATION, Number of Reviews: 5

2009 May - present Journal of Neurology, Number of Reviews: 1

2008 Sep - present LANCET NEUROLOGY, Number of Reviews: 4

2008 - present Journal of Stroke & Cerebrovascular Diseases, Number of Reviews: 18

2007 - present Archives of Internal Medicine, Number of Reviews: 2

2007 - present CNS Drugs, Number of Reviews: 1

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2006 - present The Lancet, Number of Reviews: 2
2005 - present Journal of Neurology, Neurosurgery and Psychiatry (JNNP), Number of Reviews: 3
2005 - present NEUROLOGY, Number of Reviews: 20
2004 - present Canadian Medical Association Journal (CMAJ), Number of Reviews: 2
2004 - present JAMA (Journal of American Medical Association), Number of Reviews: 4
2004 - present Journal of Neurological Sciences (J Neurol Sci.), Number of Reviews: 3
2004 - present Neurology India, Number of Reviews: 6
2003 - present European Journal of Neurology (Eur J Neurol.), Number of Reviews: 1
2001 - present Arquivos Neuropsiquiatria (Arq. Neuropsiquiatr.), Number of Reviews: 3
2001 - present Revista Neurologia (Rev. Neurol.), Number of Reviews: 3
2000 - present STROKE, Number of Reviews: 54

ABSTRACT

Reviewer

2010 - present International Stroke Conference 2010, 2011, 2012, 2013

ABSTRACT GRADING SUBCOMMITTEE

Abstract Reviewer

2010 - 2015 American Heart Association, International Stroke Conference

APPLICATIONS REVIEWER

Reviewer

2008 Sep - present Heart & Stroke Foundation of Canada, Number of Reviews: 3

AUTHOR MENTORSHIP PROGRAM

Editor

2008 Jul - present Stroke Journal

CHAIR, A SCIENTIFIC STATEMENT FOR HEALTH PROFESSIONALS FROM A SPECIAL WRITING GROUP OF THE AMERICAN HEART ASSOCIATION STROKE COUNCIL (AHA)

Chair

2008 Jul - present American Heart Association (AHA), Diagnosis and Management of Cerebral Venous Sinus Thrombosis.

INTERNATIONAL ASSOCIATE EDITOR

Reviewer

2007 - present Acta Neurologica Colombiana

POSTER MODERATOR

Moderator

2010 Feb 25 San Antonio, USA, International Stroke Conference, Number of Reviews: 12

Other Research and Professional Activities

RESEARCH PROJECT

2014 Feb - 2015

Member of the writing group. Member of the AHA writing group: Scientific Statement Scientific Rationale for the Inclusion and Exclusion Criteria for Intravenous Thrombolysis. American Heart Association, Toronto, Ontario, Canada. Collaborator(s): Bart Demaerschalk, Dawn O. Kleindorfer, Opeolu M. Adeoye, Andrew M. Demchuk, Jennifer E. Fugate, James C. Grotta, Alexander A. Khalessi.

As part of this writing group, I was in responsible for section on the benefits of thrombolysis for acute stroke by age groups and patients with pre-existing disability.

I completed a meta-analysis to show the risk of ICH post-tPA by age group.

This AHA Scientific Statement contain an up-to-date recommendations for the use of tPA.

2014 Feb - 2015

Co-Principal Investigator. Myndmove-Functional electric stimulation in patients with severe stroke. University of Toronto, MaRS Innovation (MaRS EXCITE program), Myndtec, Toronto Rehabilitation, PATH McMaster, Toronto, Ontario, Canada. Collaborator(s): Dr. Mark Bayley, Dr. Daria O'Reilly, James Bowen.

A three-arm, parallel group, multicentre, randomized controlled trial comparing electrical neuromodulation delivered by MyndMove® therapy to intensive rehabilitation therapy with a structured protocol or usual care, in the treatment of subacute stroke patients with moderate to severe upper extremity hemiparesis.

2014 Feb - 2015 Sep

Principal Investigator. Added benefits of stent retriever technology in Acute Stroke care: a pooled analysis. University of Toronto, University of Calgary, University of Texas, University of South Carolina, Toronto, Ontario, Canada. Collaborator(s): Lebovic G, Demchuk A, Levy EI, Ovbiagele B, Goyal M, Johnston SC.

We assessed the incremental effect of using stent retrievers compared with intravenous tissue plasminogen activator (IV tPA; alteplase) alone or placebo/control.

We conducted a pooled analysis of 4 studies using stent retrievers (Solitaire), IV tPA, or placebo/control. We applied the ischemic stroke risk score (www.sorcan.ca/iscore) to each participant to adjust for differences in baseline characteristics. We used a shift analysis to account for the potential benefits across the entire modified Rankin scale score at 90 days, adjusting for time-to-treatment, baseline Alberta Stroke Program Early CT score, and ischemic stroke risk score.

Of the 915 participants in this analysis, 312 (34.1%) patients received placebo, 312 (34.1%) received tPA alone, 131 (14.4%) received stent retrievers alone, and 160 (17.5) received combined therapy (IV tPA plus stent retrievers).

2014 Feb - 2015 May

Principal Investigator. Guideline-directed low-density lipoprotein management in high-risk patients with ischemic stroke: findings from Get with the Guidelines-Stroke 2003 to 2012. University of Toronto, University of Calgary, Duke University, Get-with-the-Guidelines, American Heart Association, Toronto, Ontario, Canada. Collaborator(s): Fonarow GC, Pan W, Liang L, Hernandez AF, Schwamm LH, Smith EE; AHA Get-with-the-Guidelines Stroke.

We conducted an observational study, using data from the Get-With-The-Guidelines-Stroke Registry including 913 436 patients with an acute ischemic stroke or transient ischemic attack from April 2003 to September 2012. Overall, only 68% of patients with stroke were at their preadmission National Cholesterol Education Program III guideline-recommended LDL target; 51.3% had LDL <100 mg/dL; and only 19.8% had LDL <70 mg/dL. Among those presenting with a recurrent stroke, >45% had LDL >100 mg/dL.

Conclusion: Management of dyslipidemia in high-risk patients with preexistent CAD or stroke continues to be suboptimal. Only 1 in 5 patients with prior TIA/stroke had LDL levels <70 mg/dL.

2013 Feb - 2015

Principal Investigator. iPad technology for home rehabilitation after stroke (iHOME): a proof-of-concept randomized trial. University of Toronto, University of Calgary, Toronto Rehabilitation, Heart and Stroke foundation Canadian Partnership for Stroke Rehabilitation, Toronto, Ontario, Canada. Collaborator(s): Chow CM, Gladstone D, Cheung D, Brawer E, Thorpe KE, Saldanha A, Dang A, Bayley M, Schweizer TA; iHOME Research Team for the Stroke Outcomes Research Canada Working Group.

iHOME is an investigator-initiated randomized controlled pilot trial with a single-blinded outcome assessment. The intervention consists of iPad use (investigational group) vs. usual care (control group) among patients receiving conventional outpatient rehabilitation. Eligibility includes aged 18-85 years who experienced a mild ischemic or hemorrhagic stroke (as diagnosed on neuroimaging and determined by the Chedoke-McMaster score ≥ 3). The STROKE REHAB® software for the iPad was specifically designed for patients with fine motor weakness and/or neglect. Of the total 30 patients, 20 will be in iHOME Acute (enrolled within three-months of stroke onset) and 10 patients in iHOME Chronic (enrolled more than six-months from onset).

We are currently finalizing recruitment.

2013 Feb - 2014 Aug

Principal Investigator. STROKE Journal research: what is bearing publish? Analysis of english proficiency and research investment. University of Toronto, University of Texas, University of South Carolina, Stroke Journal, American heart Association, Toronto, Ontario, Canada. Collaborator(s): Sposato LA, Ovbiagele B, Johnston SC, Fisher M; Stroke Outcome Research Working Group (www.sorcan.ca).

We completed an exhaustive of all manuscript submissions as original research to Stroke Journal from 2004 to 2012.

We analyzed most common topics published, publication rate by country, and the influence of English proficiency and GDP/research investment on the acceptance rate per country.

2011 Dec - 2013

Principal Investigator. JURaSSiC: Accuracy of Clinician vs. Risk Score Prediction of Ischemic Stroke Outcomes. St. Michael's Hospital (SMH) and Toronto Rehabilitation (TRH), Toronto, Ontario, Canada. Collaborator(s): Robert Cote, MD FRCPC FAHA

Muhammad Mamdani, PharmD MPH MA

Stavroula Raptis, MSc

Kevin E. Thorpe, MMath

Jiming Fang, PhD

Donald A. Redelmeier, MD FRCPC

Larry B. Goldstein, MD, FAAN, FAHA.

The Clinician Judgment vs. Risk Score to predict Stroke outcomes (JURaSSiC) study randomized 111 Clinicians with expertise in acute stroke care to predict clinical outcomes of 5 assigned case-based ischemic stroke scenarios. Participants were enrolled in the study if they were practicing clinicians who provided stroke care in Ontario and were directly involved in medical decision making during the initial presentation or hospitalization.

To reflect actual clinical practice, ischemic stroke cases for scenario development were selected to be representative of the 10 most common clinical presentations (n=1,415). This was possible by creating a patient profile matrix matched by age, sex, stroke severity, stroke subtype, the presence of vascular risk factors, glucose on admission, pre-admission status and risk stratum.

2010 - 2013

Principal Investigator. Effectiveness of Virtual Reality Technology using Wii gaming system in Stroke rehabilitation: a multicentre randomized clinical study. St. Michael's Hospital (SMH) and Toronto Rehabilitation (TRH), Toronto, Ontario, Canada. Collaborator(s): Dr. Leonard Cohen (National Institute of Health, USA- Director, Cortical Plasticity)

Dr. Kevin Thorpe (SMH)

Judith Hall (SMH)

Dr. Muhammad Mamdani (SMH)

Dr. Mark Bayley (TRH)

Dr. Pamela duncan (Duke University, USA)

Dr. Bob Teasell (University of Western Ontario)

Donna Cheung (SMH)

Jacqueline Willems (SMH).

2010 - 2013

External Consultant. Virtual Reality at Home in patients with Cardiac Heart Failure: a randomized clinical study. St. Michael's Hospital (SMH) and University of Linkoping (Sweden), Linkoping, Sweden. Collaborator(s): Dr. Leonie Klompstra

Dr. Tiny Jaarsma.

2010 - 2011

Co-Principal Investigator. Stroke outcomes according to the employment status. University of Buenos Aires, Toronto- Buenos Aires, Ontario, Canada. Collaborator(s): Dr.

Luciano Sposato
Dr. Osvaldo Fustinoni.

- 2009 Jan
2009 - 2012
Adjunct Scientist. Institute of Clinical Evaluative Sciences, Toronto, Ontario, Canada.
Principal Investigator. Stroke care in patients with and without dementia. St. Michael's Hospital and Institute Evaluative Clinical Sciences (ICES), Toronto, Ontario, Canada.
Collaborator(s): Dr. Sandra Black
Dr. Robert Cote
Dr. Paula Rochon
Dr. Muhammad Mamdani
Dr. Moira K. Kapral.
- 2009 - 2012
Principal Investigator. Rehospitalization after stroke: a systematic review of the literature. St. Michael's Hospital, Toronto, Ontario, Canada. Collaborator(s): Dr. Sujatha Parthasarathy
Dr. Khalid Al-Hassan
Alison Chen.
- 2009 - 2011
Principal Investigator. Change in prescription patterns after PROFESS (Aspirin-DP vs Clopidogrel in stroke prevention). St. Michael's Hospital and Institute Evaluative Clinical Sciences (ICES), Toronto, Ontario, Canada. Collaborator(s): Wilson Kwong (student)
Dr. Daniel Selchen
Dr. Muhammad Mamdani (Co-PI).
- 2009 - 2011
Principal Investigator. Evaluating the risk of crashes in patients with stroke (E-CRASH). St. Michael's Hospital and Institute Evaluative Clinical Sciences (ICES), Toronto, Ontario, Canada. Collaborator(s): Dr. Donald Redelmeier (Co-PI)
Dr. Jon Ween
Members of the University of Toronto Stroke Program.
- 2009 - 2010
Principal Investigator. Myocardial Infarction associated with Recency of Immigration to Ontario (MARIO). St. Michael's Hospital and Institute Evaluative Clinical Sciences (ICES), Toronto, Ontario, Canada. Collaborator(s): Dr. Joel Ray
Dr. Esme Fuller-Thompson
Dr. Eva Lonn
Dr. Donald Redelmeier.
- 2008 Mar - 2010 Mar
Principal Investigator. Effectiveness of Virtual Reality Technology using Wii gaming system in Stroke rehabilitation. St. Michael's Hospital (SMH) and Toronto Rehabilitation (TRH), Toronto, Ontario, Canada. Collaborator(s): Dr. Leonard Cohen (National Institute of Health, USA- Director, Cortical Plasticity)
Dr. Kevin Thorpe (SMH)
Judith Hall (SMH)
Dr. Muhammad Mamdani (SMH)
Dr. Mark Bayley (TRH)
Dr. Leonardo Cohen (NIH)
Alexis Dishaw (Toronto Grace Hospital)
Dr. Bob Teasell (University of Western Ontario)
Donna Cheung (SMH)
Jacqueline Willems (SMH).
- 2008 - 2010
Principal Investigator. Do all age groups benefit from organized stroke care? St Michael's Hospital, U of Toronto, U of Calgary, Toronto, Ontario, Canada. Collaborator(s): - University of Toronto, Toronto, ON (Dr. Moira Kapral)
- Institute of Clinical Evaluative Sciences (Jiming Fang)
- University of Calgary, Alberta (Drs Coutts S, Demchuk A, Hill MD).
- 2008 - 2010
Principal Investigator. Comparing quality of stroke care between the Argentinian and Canadian Stroke Registries. St Michael's Hospital, U of Toronto, U of Buenos Aires, Toronto-Buenos Aires, Ontario, Canada. Collaborator(s): - University of Toronto, Toronto (Dr. Moira Kapral)
- Institute of Clinical Evaluative Sciences, Toronto (Jiming Fang)
- University of Buenos Aires, Argentina (Drs. Sposato L, Fustinoni O).
- 2008 - 2010
Principal Investigator. Do all stroke subtypes benefit from organized stroke care/stroke unit

admission? St Michael's Hospital, U of Toronto, U of Calgary, Toronto, Ontario, Canada.
Collaborator(s): - University of Toronto, Toronto, ON (Dr. Moira Kapral, Dr. Daniel Selchen, Dr. Khalid Al-Hassan)
- Institute of Clinical Evaluative Sciences (Jiming Fang)
- University of Calgary, Alberta (Dr Eric Smith).

2007 - 2010

Collaborator. Development and Validation of a Simple Conversion Model for Comparison of the Canadian Neurological Scale (CNS) and the National Institute of Health Stroke Scale (NIHSS). University of Mahindol, Thailand, Bangkok, Thailand. Collaborator(s): - University of Toronto, ON (Dr. Ya Ping Li)
-University of Rome, Italy (Dr. Di legge S)
- University of Mahindol (Drs. Chulaluk Komoltri, Songkram Chotikanuchit, Nippon Pongvarin and Yongchai Nilanont)
- University of McGill, Montreal ON (Dr. Robert Cote)
- University of Western Ontario, ON (Dr Hachinski).

2007 - 2009

Principal Investigator. Income, hospital volume and stroke outcome. St. Michael's Hospital, Toronto, Ontario, Canada. Collaborator(s): - University of Toronto, Toronto, ON (Drs. Moira Kapral and Daniel Selchen)
- University of Western Ontario, London, ON (Dr Vladimir Hachinski)
- University of Alberta, Edmonton, ON (Dr Thomas Jeerakhatil).

2007 - 2009

Senior Responsible Investigator. Impact of seizures after stroke: Resources utilization and outcome. St. Michael's Hospital and Institute of Clinical Evaluative Sciences (ICES), Toronto, Ontario, Canada. Collaborator(s): - University of Western Ontario, London, ON (Dr. Jorge Burneo)
- Institute of Clinical Evaluative Sciences (ICES) (Jiming Fang).

2006 - 2008

Principal Investigator. The Weekend effect on stroke outcome. St Michael's Hospital, Toronto, Ontario, Canada. Collaborator(s): - University of Toronto, Toronto, ON (Dr. Neville Bayer)
- University of Western Ontario, London, ON (Dr. Vladimir Hachinski)
- McMaster University, Hamilton, ON (Dr Akerke Baibergenova).

2006 - 2008

Principal Investigator. Stroke Mortality: Does hospital volume matter? St. Michael's Hospital, University of Toronto, Toronto, Ontario, Canada. Collaborator(s): - University of Western Ontario, London, ON (Dr Vladimir Hachinski)
- McMaster University, Hamilton, ON (Dr Akerke Baibergenova)
- University of Calgary, Calgary, Alberta (Dr. Michael Hill)
- University of Toronto, ON (Moira K Kapral).

C. Academic Profile

1. RESEARCH STATEMENTS

The Stroke Outcomes Research Program: present and future.

Dr. Saposnik's primary research interest is Stroke Outcomes and Neuroeconomics/Decision Neuroscience, including 3 main areas (Acute care, Prevention, and Stroke recovery).

His ultimate personal goals are to contribute to improving access of care, stroke prevention, and identifying innovative strategies to reduce disability in stroke survivors.

According to the Agency for Healthcare Research and Quality (AHRQ), outcomes research seeks to understand the end results of particular health care practices and interventions. This includes outcomes that people experience and care about, such as change in the motor or cognitive function. For individuals with chronic conditions such as cerebrovascular disease, 'end results' include quality of life as well as mortality. By linking the care people get to the outcomes they experience, outcomes research can become the key to developing better

ways to monitor and improve the quality of care and stroke outcomes.

To accomplish his goals, Dr. Saposnik has formed and led a working group on stroke outcome research involving many leading stroke researchers in Canada, called SORCan (Stroke Outcome Research Canada team). Key linkages with policy makers and stakeholders help ensure the research is relevant, important, and quickly applicable particularly in vexing clinical issues.

We have established a unique and successful program in Stroke Outcome Research (www.sorcan.ca), one that is well-supported by peer-reviewed funding, published in high impact journals, collaborating with a network of colleagues, and received national and international recognition. Grants and Awards (15), peer-reviewed publications (over 160), collaborations, and presentations at International Meetings (over 120) are a testimony of the group productivity and success.

Several publications have been captured by the press and media including 'risk of stroke in immigrants', 'risk of delirium in acute stroke', virtual reality in stroke rehabilitation', 'Guidelines for the Management of Cerebral venous thrombosis', 'Chocolate consumption and risk of stroke', the iScore, a risk score to predict stroke outcomes', among others. Furthermore, the last three summary reviews on 'Advances in Stroke, Health Policy and Outcomes' published in the STROKE Journal (Rudd et al. Stroke 2009; 40: e301-e304 - Williams et al. Stroke 2010;41: e77-e80 and Braining et al. Stroke 2013;44:311-313) and LANCET (Lancet 2011; 377: May 14), as well as, speaker invitations to present at International meetings also highlight the recognition of our group.

Ongoing projects include: Virtual reality strategies in stroke rehabilitation, iPad use for home rehabilitation (iHOME), Applying risk score tools and principles of Neuroeconomics in the medical-decision making, Outcomes in young patients with cryptogenic stroke, Medical complications after stroke (e.g. pulmonary embolism, cardiac heart failure, etc).

D. Research Funding

1. GRANTS, CONTRACTS AND CLINICAL TRIALS

PEER-REVIEWED GRANTS

FUNDED

- | | |
|---------------------|---|
| 2014 Jun - 2017 Jun | Principal Investigator. Efficacy of Virtual Reality Exercises using the Wii gaming technology in Stroke Rehabilitation (EVREST Multicenter). Heart and Stroke Foundation Canada (HSFC). Collaborator(s): Mark Bayley, Leonard Cohen, Robert Teasell, Muhammad Mamdani, Judith Hall, Kevin Thrope. 162,000 CAD. [Clinical Trials] <i>renewal.</i> |
| 2014 Mar - 2016 Jun | Principal Investigator. A three-arm, parallel group, multicentre, randomized controlled trial comparing electrical neuromodulation delivered by MyndMove® therapy to intensive rehabilitation therapy with a structured protocol or usual care, in the treatment of subacute stroke patients with moderate to severe upper extremity hemiparesis. MaRS Excite. Collaborator(s): Mark Bayley, Daria O'Reilly, James Bowen. 1,179,321 CAD. [Clinical Trials] |
| 2013 Jul - 2015 Jun | Co-Investigator. Understanding Post-Stroke Driving Capacity: an fMRI Driving Simulator Study. Heart and Stroke Foundation of Canada (HSFC). PI: Schweizer, T.A. Collaborator(s): Graham, S., Naglie, G., Saposnik, G. , Macdonald, R.L., Hung, Y. 113,770 CAD. [Grants] |

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- 2013 Jun - 2016 Jun **Co-Investigator.** fMRI neurofeedback applied to motor imagery in stroke. Heart and Stroke Foundation of Canada (HSFC). PI: Graham, Simon. Collaborator(s): Black, S.E., Boe, S., **Saposnik, G.**, Staines, R., Schweizer, T.A. 278,214 CAD. [Grants]
- 2012 Jun - 2015 Jan **Principal Investigator.** iPad tablet technology for HOME Rehabilitation in patients after stroke. HSFC Center for Stroke Recovery. Collaborator(s): Co-PIs: Dr. Schweizer, Swartz Collaborators: Dr. Mark bayley, Dr. Chi-Ming Chow. 49,600 CAD. [Clinical Trials]
- 2012 Mar - 2014 Mar **Principal Investigator.** Effectiveness of iPad technology for HOME Rehabilitation after stroke (iHOME). Ontario Stroke Network, HSFO, and Ontario Ministry of Health. Collaborator(s): Mark Bayley, Leonardo Cohen, Robert Teasell, Jacqueline Willems, Muhammad Mamdani, Judith Hall, Kevin Thorpe. 74,623 CAD. [Clinical Trials]
- 2011 Mar - 2014 Mar **Principal Investigator.** Efficacy of Virtual Reality Exercises using the Wii gaming technology in Stroke Rehabilitation (EVREST Multicenter). Heart and Stroke Foundation Canada (HSFC). Collaborator(s): Mark Bayley, Leonard Cohen, Robert Teasell, Alexis Dishaw, Jacqueline Willems, Muhammad Mamdani, Judith Hall, Kevin Thrope, Mindy Levin, Pamela Duncan. 246,000 CAD. [Clinical Trials]
- 2010 - 2015 Jun **Principal Investigator.** Effectiveness of Virtual Reality Exercising using Wii gaming technology in Stroke Rehabilitation: a randomized multicentre study. Ontario Ministry of Health, Ontario Stroke Strategy (OSS), Heart and Stroke Foundation Ontario (HSFO). Collaborator(s): Drs Mark Bayley, William McIlroy, Jacqueline Willems, Donna Cheung, Robert Teasell, Muhammad Mamdani, Pamela Duncan (USA), Leonardo Cohen (NIH, USA). 85,900 CAD. [Grants]
- 2010 - 2012 **Co-Investigator.** The 'Weight Times' Strategy: A Simple, Low Cost Intervention to Improve Safety in Patients Receiving Thrombolysis for Acute Stroke. Ontario Ministry of Health, Ontario Stroke Strategy (OSS), Heart and Stroke Foundation Ontario (HSFO). PI: Dr. Richard Swartz. Collaborator(s): Drs David Gladstone, **Gustavo Saposnik**, Frank Silver. 85,900 CAD. [Grants]
- 2010 - 2012 **Co-Investigator.** The Ontario Atrial Fibrillation Stroke Prevention Registry. Ontario Ministry of Health, Ontario Stroke Strategy (OSS), Heart and Stroke Foundation Ontario (HSFO). PI: Dr. David Gladstone. Collaborator(s): Drs Richard Swartz, **Gustavo Saposnik**, Frank Silver and the UTSP investigators. 85,900 CAD. [Grants]
- 2009 Nov - 2011 Nov **Co-Principal Investigator.** Premature Risk of Stroke across Canada (CFSSI): The role of Fabry disease. Canadian Stroke Consortium (CSC). PI: Drs Saposnik, Lanthier, Selchen. Collaborator(s): Drs. Muhammad Mamdani, David Moore (Senior Investigator). 853,928.5 CAD. [Grants]
Co-Principal author, responsible for drafting the proposal, REB submission, planning the analysis, interpretation of the results, overall contribution: ~50%.
- 2009 Nov - 2011 Mar **Principal Investigator.** S.O.S Stroke Care: evaluating the gaps along the continuum. Heart Stroke Foundation Ontario (HSFO). Collaborator(s): Drs Chaim Bell (Co-PI), Moira K. Kapral, Paula Rochon, Susan Bronskill, Geoffrey Andersson. 86,600 CAD. [Grants]
Principal author, responsible for drafting the proposal, REB submission, planning the analysis, interpretation of the results, overall contribution: ~60%.
- 2009 Nov - 2011 Mar **Senior Investigator and Mentor.** Effect of an Inpatient Code Stroke Protocol on the timeliness in the identification, assessment and treatment of inpatient acute strokes. Heart Stroke Foundation Ontario (HSFO). PI: Krystyna Skrabka and Jacqueline Willems. Collaborator(s): Drs Muhammad Mamdani, Sharon Strauss, **Gustavo Saposnik**. 35,500 CAD. [Grants]

- 2008 Nov - 2010 Mar **Principal Investigator.** EVREST - Effectiveness of Virtual Reality Exercises in Stroke Rehabilitation. Ontario Stroke Strategy (OSS) and Heart Stroke Foundation Canada. Collaborator(s): Mark Bayley, Leonard Cohen, Robert Teasell, Alexis Dishaw, Jacqueline Willems, Muhammad Mamdani, Judith Hall, Kevin Thrope. 60,000. [Clinical Trials]
Principal author, responsible for drafting the proposal, REB and proposal submission, planning the analysis, interpretation of the results, overall contribution: ~70%.
- 2008 Jul - 2011 Jun **Principal Investigator.** "Premature risk of stroke in recent immigrants (PRESARIO). HSFO (Personnal support). Clinician Scientist Award. Collaborator(s): Ray, Redelmeier, Lindsay, Fuller-Thompson. 192,000. [Grants]
Principal author, responsible for drafting the proposal, REB submission, planning the analysis, interpretation of the results, writing the manuscript, overall contribution: ~70%.
- 2008 Jul - 2010 Jun **Principal Investigator.** Indicators of Quality of Care and Stroke Outcome. Heart Stroke Foundation Ontario (HSFO). Collaborator(s): Drs Muhammad Mamdani, Moira K. Kapral, Peter Austin, Ruth Hall, Jack Tu. 49,860. [Grants]
Principal author, responsible for drafting the proposal, REB submission, planning the analysis, interpretation of the results, overall contribution: ~60%.
- 2007 Nov - 2009 Jun **Principal Investigator.** "Premature risk of stroke in recent immigrants (PRESARIO). HSFO (Operating grant). Collaborator(s): Ray, Lidsay, Fuller-Thompson, Redelmeier. 51,040. [Grants]
Principal author, responsible for drafting the proposal, REB and proposal submission, planning the analysis, interpretation of the results, overall contribution: ~70%.
- 2007 Jul - 2009 Jul **Collaborating Investigator.** CREST (Carotid endarterectomy vs. Stenting for carotid stenosis). NIH funded. PI: Montanera. 56,570. [Grants]
- 2007 Jul - 2009 Jun **Principal Investigator.** "Health system determinants of Stroke Outcome". Connaught Foundation (Ontario). 12,500. [Grants]
Principal author, responsible for drafting the proposal, REB submission, planning the analysis, interpretation of the results, writing the manuscript, overall contribution: ~70%.
- 2007 Jun - 2010 May **Co-Investigator.** "INTERSTROKE" the impact of lifestyle, risk factors and genes on stroke outcome. CIHR. PI: O'Donnell. Collaborator(s): Saposnik, Gladstone, Kapral, Yusuf. 345,000. [Grants]
Co-applicant, collaborator, reviewing the proposal, planning the analysis, interpretation of the results, overall contribution: ~20%.
- 2007 Feb - 2010 May **Principal Site Investigator.** ALIAS – Albumin for Acute Stroke. Baxter. PI: Dr. Myron Gingsberg and Micahel Hill. 150,000. [Grants]
- 2006 Jul - 2010 Mar **Co-Investigator.** Assessing the impact of Secondary Prevention Clinics (SPCs) in the Province of Ontario". Canadian Institutes of Health Research (CIHR). PI: Hachinski. 93,500 CAD. [Grants]
Co-Principal author, responsible for drafting the proposal, planning the analysis with special focus on the outcome measures, interpretation of the results, overall contribution: ~50%.
- 2006 Jul - 2008 Mar **Co-Investigator.** Assessing the impact of Secondary Prevention Clinics (SPCs) in the Province of Ontario". Ontario Ministry of Health and Long-Term Care. PI: Hachinski. 93,500 CAD. [Grants]
Co-Principal author, responsible for drafting the proposal, planning the analysis with special focus on the outcome measures, interpretation of the results, overall contribution: ~50%.

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2004 Jul - 2007 Jun **Principal Applicant.** Focus in Stroke Fellowship Award- "Preserving cognition by improving vascular risk factors control: a randomized controlled trial". Canadian Institute for Health Research (CIHR) and Heart Stroke Foundation Canada (HSFC). Gustavo Saposnik. PI: **Gustavo Saposnik.** 165,000. [Research Fellowships]
Principal author, responsible for drafting the proposal, gathering data, conducting the analysis, writing the manuscript, overall contribution: ~80%.

NON-PEER-REVIEWED GRANTS

FUNDED

2008 Apr - 2010 Mar **Principal Investigator.** EVREST - Effectiveness of Virtual Reality Exercises in Stroke Rehabilitation. SE Toronto Regional Stroke Strategy. Collaborator(s): Mark Bayley, Leonard Cohen, Robert Teasell, Alexis Dishaw, Jacqueline Willems, Muhammad Mamdani, Judith Hall, Kevin Thrope. 20,000. [Clinical Trials]
Principal author, responsible for drafting the proposal, REB and proposal submission, planning the analysis, interpretation of the results, overall contribution: ~70%.

2006 Jul - 2011 Jun **Principal Investigator.** Health System determinants of Stroke Outcome. Division of Neurology, Department of Medicine and Research Department at St. Michael's Hospital. 150,000 CAD. [Grants]
Principal author, responsible for drafting the proposal, REB and proposal submission, planning the analysis, interpretation of the results, overall contribution: ~70%.

2003 Nov - 2008 Mar **Collaborating Investigator.** PROFESS- Aspirin, Clopidogrel and Micardis in secondary stroke prevention. Boehringer. PI: Hachinski. 261,000. [Grants]

2002 Nov - 2005 Mar **Collaborating Investigator.** CHARISMA - Clopidogrel and aspirin in secondary stroke prevention. Covance. PI: Hachinski. 88,000. [Grants]

2002 May - 2005 Mar **Collaborating Investigator.** ONO-2506 - Neuroprotector in Acute Stroke. Omnicare-NIH. PI: Hachinski. 151,000. [Grants]

2002 Apr - 2006 Nov **Collaborating Investigator.** FASTER - Early assessment after a TIA or minor stroke (Aspirin, clopidogrel and simvastatin). CIHR, CSC. PI: Hachinski. 73,000. [Grants]

2000 Jan - 2005 Apr **Collaborating Investigator.** AbesTT – Abciximab in acute stroke. Eli Lilly. PI: Hachinski. 131,000. [Grants]

2000 Jan - 2005 Jan **Collaborating Investigator.** RECT - Repinotan in acute stroke. Bayer. PI: Hachinski. 141,000. [Grants]

1999 Apr - 2002 Dec **Collaborating Investigator.** BMS-204352 - Neuroprotector in acute stroke. Bristol-Meyers. PI: Rey RC. 120,000. [Grants]

1998 Apr - 2002 Dec **Collaborating Investigator.** TAPPIRS - Triflusal and aspirin in secondary stroke prevention. Uriach, Spain. PI: Rey RC. 120,000. [Grants]

1998 Apr - 2002 Dec **Collaborating Investigator.** International Stroke Trial (IST)- Aspirine versus Heparine for secondary prevention in Acute Stroke. Medical Council. PI: Rey RC. 100,000. [Grants]

2. SALARY SUPPORT AND OTHER FUNDING

Personal Salary Support

2012 Jul - 2017 Jun	HSFC Distinguished Clinician Scientist Award. Heart Stroke Foundation of Canada (HSFC). 500,000 CAD. Ontario, Canada. (Specialty: Stroke).
2012 Jul - 2017 Jun	New Investigator Award. Canadian Institute for Health Research (CIHR). 300,000 CAD. Ontario, Canada. (Specialty: Stroke).
2012 Jul - 2013 Jun	MacDonald Award. Heart Stroke Foundation of Canada (HSFC). 15,000 CAD. Ontario, Canada. (Specialty: Stroke).
2008 Jun - 2011 Jun	HSFO Clinician Scientist Award. Heart Stroke Foundation Ontario (HSFO). 192,000 CAD. Ontario, Canada. (Specialty: Stroke).

E. Publications

METRICS:

Google scholar: 215 papers comprising 5229 citations (h-index 36, i10-index 93; cites/year: 270.07).

Researchgate: RG score 44.88; impact points 1092 www.researchgate.net/profile/Gustavo_Saposnik2

1. MOST SIGNIFICANT PUBLICATIONS

1. **Saposnik G**, Johnston SC. Decision making in Acute Stroke Care: Learning for Neuroeconomics, Neuromarketing and Poker players. STROKE. 2014 Jun 8;9. **Principal Author**.
2. Holloway RG, Arnold RM, Creutzfeldt CJ, Lewis EF, Lutz BJ, McCann RM, Rabinstein AA, **Saposnik G**, Sheth KN, Zahuranec DB, Zipfel GJ, Zorowitz RD; on behalf of the American Heart Association Stroke Council, Council on Cardiovascular and Stroke Nursing, and Council on Clinical Cardiology. Palliative and End-of-Life Care in Stroke: A Statement for Healthcare Professionals From the American Heart Association/American Stroke Association. 2014 May. Stroke. 2014 Feb 6. [Epub ahead of print]. **Co-Principal Author**.
3. Ovbiagele B, Reeves MJ, Nasiri M, Johnston SC, Bath PM, **Saposnik G**; for the VISTA-Acute Collaboration Steering Committee. A Simple Risk Index and Thrombolytic Treatment Response in Acute Ischemic Stroke. JAMA Neurology. 2014 May. 2014 May 5. Impact Factor 8.7. **Senior Responsible Author**.
4. **Saposnik G**, Obviagele B, Raptis S, Fisher M, Jonhston SC. English Proficiency, Research Funding and acceptance rate in Stroke Journal. STROKE. 2014 May. Ahead of publication. **Principal Author**.
5. Holloway RG, Arnold RM, Creutzfeldt CJ, Lewis EF, Lutz BJ, McCann RM, Rabinstein AA, **Saposnik G**, Sheth KN, Zahuranec DB, Zipfel GJ, Zorowitz RD; on behalf of the American Heart Association Stroke Council, Council on Cardiovascular and Stroke Nursing, and Council on Clinical Cardiology. Palliative and End-of-Life Care in Stroke: A Statement for Healthcare Professionals From the American Heart Association/American Stroke Association. STROKE. 2014 May. Stroke. 2014 Feb 6. [Epub ahead of print]. **Co-Principal Author**.
6. Bushnell, C, **Saposnik, G**. Evaluation and Management of cerebral venous thrombosis. Continuum. 2014 Apr 20. 2014 Apr;20(2 Cerebrovascular Disease):335-51. **Principal Author**.

7. Bart M. Demaerschalk, MD, MSc, FRCPC, Chair; Dawn O. Kleindorfer, MD, FAHA, Co-Chair; Opeolu M. Adeoye, MD, MS; Andrew M. Demchuk, MD, FRCPC; Jennifer E. Fugate, DO; James C. Grotta, MD; Alexander A. Khalessi, MD, MS; Elad I. Levy, MD, FACS, FAHA, FAANS; Judith H. Lichtman, PhD, MPH, FAHA; Yuko Y. Palesch, MD; Shyam Prabhakaran, MD, MS, FAHA; **Gustavo Saposnik**, MD, MSc, FAHA, FRCPC; Jeffrey L. Saver, MD, FAHA, FAAN; Eric E. Smith, MD, MPH, FAHA; on behalf of the American Heart Association Stroke Council and Council on Epidemiology. AHA/ASA Scientific Statement: Rationale for the Inclusion and Exclusion of IV tPA Criteria. STROKE. 2014 Apr. **Coauthor or Collaborator**.
8. Bart M. Demaerschalk, MD, MSc, FRCPC, Chair; Dawn O. Kleindorfer, MD, FAHA, Co-Chair; Opeolu M. Adeoye, MD, MS; Andrew M. Demchuk, MD, FRCPC; Jennifer E. Fugate, DO; James C. Grotta, MD; Alexander A. Khalessi, MD, MS; Elad I. Levy, MD, FACS, FAHA, FAANS; Judith H. Lichtman, PhD, MPH, FAHA; Yuko Y. Palesch, MD; Shyam Prabhakaran, MD, MS, FAHA; **Gustavo Saposnik**, MD, MSc, FAHA, FRCPC; Jeffrey L. Saver, MD, FAHA, FAAN; Eric E. Smith, MD, MPH, FAHA; on behalf of the American Heart Association Stroke Council and Council on Epidemiology. AHA/ASA Scientific Statement: Rationale for the Inclusion and Exclusion of IV tPA Criteria. 2014 Apr. **Coauthor or Collaborator**.
9. Bushnell C, McCullough LD, Awad IA, Chireau MV, Fedder WN, Furie KL, Howard VJ, Lichtman JH, Lisabeth LD, Piña IL, Reeves MJ, Rexrode KM, **Saposnik G**, Singh V, Towfighi A, Vaccarino V, Walters MR; on behalf of the American Heart Association Stroke Council, Council on Cardiovascular and Stroke Nursing, Council on Clinical Cardiology, Council on Epidemiology and Prevention, and Council for High Blood Pressure Research. Guidelines for the Prevention of Stroke in Women: A Statement for Healthcare Professionals From the American Heart Association/American Stroke Association. STROKE. 2014 Feb. Stroke. 2014 Feb 6. [Epub ahead of print]. **Co-Principal Author**.
10. Bushnell C, McCullough LD, Awad IA, Chireau MV, Fedder WN, Furie KL, Howard VJ, Lichtman JH, Lisabeth LD, Piña IL, Reeves MJ, Rexrode KM, **Saposnik G**, Singh V, Towfighi A, Vaccarino V, Walters MR; on behalf of the American Heart Association Stroke Council, Council on Cardiovascular and Stroke Nursing, Council on Clinical Cardiology, Council on Epidemiology and Prevention, and Council for High Blood Pressure Research. Guidelines for the Prevention of Stroke in Women: A Statement for Healthcare Professionals From the American Heart Association/American Stroke Association. 2014 Feb. Stroke. 2014 Feb 6. [Epub ahead of print]. **Coauthor or Collaborator**.
11. Pongmoragot J, Rabinstein AA, Nilanont Y, Swartz RH, Zhou L, **Saposnik G**; Investigators of Registry of Canadian Stroke Network (RCSN) and University of Toronto Stroke Program for Stroke Outcomes Research Canada (SORCan [www.sorcan.ca]) Working Group. Pulmonary embolism in ischemic stroke: clinical presentation, risk factors, and outcome. JAMA. 2013 Nov. J Am Heart Assoc. 2013 Nov 25;2(6):e000372. Impact Factor 8.7. **Senior Responsible Author**.
12. **Saposnik G**, Cote R, Mamdani M, Thrope K, Raptis S, Redelmeier D, Goldstein L. JURaSSiC: Accuracy of Clinician vs. Risk Score Prediction of Ischemic Stroke Outcomes. Neurology. 2013; 81(5):448-55. Impact Factor 8.7. **Principal Author**.
13. Nikeshan D, Raptis R, Pongmoragot J, Zhou L, Johnston SC, **Saposnik G**; on behalf of the Investigators of the Registry of the Canadian Stroke Network (RCSN) and the Stroke Outcomes Research Canada (SORCan) Working Group. Predicting Clinical Outcomes and Response to Thrombolysis in Acute Stroke Patients With Diabetes. Diabetes Care. Jul;36(7):2041-7. Impact Factor 8. **Senior Responsible Author**.
14. Tai Hwan Park, Ph. D, M.D.; Keun-Sik Hong, M.D., Ph.D.; Jay-Chul Choi, Ph. D, M.D.; Pamela Song, M.D.; Ji Sung Lee, Ph. D.; Juneyoung Lee, Ph. D.; Jong-Moo Park, Ph. D, M.D.; Kyusik Kang, Ph. D, M.D.; Kyung Bok Lee, Ph. D, M.D.; Yong-Jin Cho, Ph. D, M.D.; Moon-Ku Han, Ph. D, M.D.; Hee-Joon Bae, Ph. D., M.D. Gustavo Saposnik, M.D., MSc;. Validation of minor stroke definitions for thrombolysis decision-making. Journal of Stroke and Cerebrovascular Disease. May;22(4):482-90. **Coauthor or Collaborator**.
15. Pongmoragot J, Bharatha A, **Saposnik G**. Pearls and Oy-sters: Carotid dissection with normal arterial lumen. Neurology. 12: 80:e115-117. Impact Factor 8.7. **Senior Responsible Author**.
16. **Saposnik G**, Guzik AK, Reeves M, Ovbiagele B, Johnston SC. Stroke Prognostication using Age and NIH Stroke Scale: SPAN-100. Neurology. Neurology. 2013 Jan 1;80(1):21-8. Impact Factor 8.7. **Principal Author**.

17. **Saposnik G**, Fang J, Kapral MK, Tu JV, Mamdani M, Austin PC, Johnston C; on behalf of Investigators of the Registry of the Canadian Stroke Network and the Stroke Outcome Research Canada (SORCan) Working Group. The iScore Predicts Effectiveness of Thrombolytic Therapy for Acute Ischemic Stroke. *Stroke*. 2012 May;43(5):1315-1322. **Principal Author**.
18. **Saposnik G**, Kapral MK, Liu Y, Raptis R, Hall R, O'Donnell M, Tu J, Mamdani M, Austin PA; Investigators of the Registry of the Canadian Stroke Network; Stroke Outcomes Research Canada (SORCan) Working Group. iScore: A Risk Score to Predict Death early after Hospitalization for an Acute Ischemic Stroke. *CIRCULATION* 2011; 2011 Feb 22;123(7):739-49. Epub 2011 Feb 7. Impact Factor 17. **Principal Author**.

The ability to estimate prognosis in acute stroke patients directly affects treatment decisions for patients. It may also guide supportive care plans, facilitate patient and/or family counseling or discussions pertaining to end-of-life decisions. Unfortunately, few risk scores are available that include simple and relevant clinical variables, including stroke severity on admission. In this large cohort study, we created and validated a risk score model to predict 30-day and 1-year mortality early after hospitalization for patients with an acute ischemic stroke. Our model was designed to include clinical variables easily obtained in the early hours of hospital presentation and is independent of specialized laboratory tests or imaging evaluations. Additionally, this also allows estimating death at small centers and at community hospitals with limited resources. Predictors of mortality included older age, male sex, severe stroke, non-lacunar stroke subtype, glucose ≥ 7.5 mmol/L (135 mg/dL), history of atrial fibrillation, CAD, CHF, cancer, dementia, kidney disease on dialysis and dependency prior to the stroke. Our risk score helps estimate 30-day and 1-year mortality in individuals presenting with an acute ischemic stroke. Examples are provided in the text. An online web based tool is available to estimate mortality by adding individual patient characteristics.

19. **Saposnik G** (Chair), Barinagarrementeria F, Brown RD Jr, Bushnell CD, Cucchiara B, Cushman M, Deveber G, Ferro JM, Tsai FY; on behalf of the American Heart Association (AHA) Stroke Council and the Council on Epidemiology and Prevention. Diagnosis and Management of Cerebral Venous Thrombosis: A Statement for Healthcare Professionals From the American Heart Association (AHA)/ American Stroke Association (ASA). *STROKE* 2011; Apr;42(4):1158-1192. Impact Factor 7.1. **Principal Author**.
20. **Saposnik G**, Teasell R, Mamdani M, McIlroy B, Cheung D, Thorpe J, Hall J, Cohen LG, Bayley M. Effectiveness of Virtual Reality Exercises using Wii gaming technology in STroke Rehabilitation (EVREST): A pilot Randomized Clinical Trial and Proof of Principle. *STROKE* 2010; 41(7):1477-84. Impact Factor 7.1. **Principal Author**.

EVREST is a pilot randomized, single blinded study involving patients within 2 months after stroke. We compared the feasibility and safety of virtual reality using the Nintendo Wii® gaming technology (VRWii) versus recreational therapy among patients receiving conventional rehabilitation to evaluate arm improvement. VRWii represents a safe, feasible, and potentially effective alternative to facilitate rehabilitation therapy and promote motor recovery after stroke. If proven effective in a large RCT, virtual reality technology could be implemented in clinical practice to augment motor function as adjuvant therapy to other successful interventions.

Most stroke survivors experience hemiparesis, resulting in functional limitation of an upper extremity. Evidence suggests that increasing intensity of rehabilitation results in better motor recovery. Limited evidence is available on Virtual reality (VR) use for stroke rehabilitation. In this pilot, randomized, single blinded trial with two parallel groups involving stroke patients within 2 months, we compared the feasibility, safety and efficacy of virtual reality using the Nintendo Wii® gaming system (VRWii) versus recreational therapy (playing cards, bingo or 'Jenga') among those receiving standard rehabilitation to evaluate arm motor improvement. We found that Virtual reality using Wii gaming technology represents a safe, feasible, and potentially effective alternative to facilitate rehabilitation therapy and promote motor recovery after stroke.

This study constitutes the initial step in the understanding of the potential benefits of a novel interactive approach in neurorehabilitation after stroke that can be easily implemented in routine clinical practice. If proven effective, virtual reality technology could be used as adjuvant therapy to other successful interventions (i.e.: constrain induced therapy). A multicentre clinical trial is underway.

The present study garnered world-wide media attention including CBS, CBC, Reuters Health, CNN, Scientific American, Globe & Mail, USA Today, The Star, among others, as well as, being highlighted at the 2010 International Stroke Conference (AHA) and at the 2010 American Academy of Neurology Meeting in Toronto.

21. **Saposnik G**, Baibergenova, A, Bayer N, Hachinski V. Weekends: A dangerous time for having a stroke? *STROKE* 2007; 38:1211-1215. **Principal Author.**

This is a large multicentre, cohort study including patients presenting with an acute ischemic stroke to over 600 institutions across Canada. We have shown an increased mortality in stroke patients admitted during the weekends vs. weekdays. After adjusting for confounders, there was a 14% higher odds of death for patients admitted on weekends. Similar trends were observed in the stratified analysis by facility type, location or care provided. Even in a country with a universal health insurance coverage, disparities in resources, expertise, and health care providers working during weekends may occur, perhaps explaining the observed outcome differences between weekend and weekday admissions. The understanding of factors affecting the process of care may provide new avenues to implement quality improvement initiatives. These findings call for a major re-examination of where and how stroke patients are managed.

In this large multicentre study across Canada including over 26,000 patients hospitalized with an acute ischemic stroke, patients admitted during the weekends had higher risk adjusted mortality than those admitted on weekdays. Even in a country with a universal health insurance coverage, disparities in resources, expertise, and health care providers working during weekends may be present and explain the observed differences in weekend mortality between facilities.

22. **Saposnik G**, Young B, Silver B, Beletsky V, Jain V, DiLegge S, Nilanont Y, Hachinski V. Lack of improvement after thrombolytic therapy in Acute Stroke. *JAMA* 2004; 292 (15):1839-44. **Principal Author.**

Cortical involvement, hyperglycemia and longer time to treatment were associated with lack of improvement after thrombolytic therapy for acute stroke. Our work added a different perspective concerning clinical and health system determinants of stroke outcome. In addition, we introduced the importance of assessing the functional status at 24 hours after thrombolysis and its strong correlation with outcome at 3 months.

2. PEER-REVIEWED PUBLICATIONS

Journal Articles

1. Tsai JP, Rochon Pa, Raptis S, Bronskill SE, Bell CM, **Saposnik G**. A Prescription at Discharge improves Long-term Adherence for Secondary Stroke Prevention. *J Stroke Cerebrovasc Dis.* 2014 Oct 23. *J Stroke Cerebrovasc Dis* 2014 Oct 23 (9) 2308-15 doi.10.1016. **Senior Responsible Author.**
2. Hird MA, Vetivelu A, **Saposnik G**, Schweizer TA. Cognitive On-road and Simulator-based Driving Assessment after Stroke. *J Stroke Cerebrovasc Dis.* 2014 Oct 9. *J Stroke Cerebrovasc Dis* 2014 Oct 8 pii S1052-3057 (14) 00292-4 doi 10.1016. **Coauthor or Collaborator.**
3. **Saposnik G**, Fonarow GC, Pan W, Liang L, Hernandez AF, Schwamm LH, Smith EE. Guideline-Directed Low-Density Lipoprotein Management in High-Risk Patients with Ischemic Stroke Findings from Get with the Guidelines-Stroke 2003 to 2012. *Stroke.* 2014 Oct 9. *Stroke* 2014 Oct 9 pii STROKEAHA.114.006736. **Principal Author.**
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2. **Saposnik G**. Brain death worldwide: accepted facts but no global consensus in diagnostic criteria. NEUROLOGY 59:470, 2002. **Senior author, principal responsible for gathering data, analysis and writing the manuscript**.

Manuscripts

1. Gonzalez L, Sierra H, **Saposnik G**, et al. Consulta neurológica en la sala de urgencia: Estudio Epidemiológico. Pren. Med. Argent. 85: 542-6, 1998. **Co-principal author, participated in literature review, involved in manuscript preparation**.
2. **Saposnik G**, Miranda M, Silva W, et al. Factor Delaying Hospital Admission after Stroke. Rev Neurol Argentina 19: 34-36. 1994. **Principal author, literature review, study design, and writing the manuscript**.
3. Miranda M, **Saposnik G**, Silva W, Mosquera A, et al. Early ER assessment in Acute Stroke. Rev Neurol Argentina 19: 34-35, 1994. **Co-principal author, literature review, study design, and writing the manuscript**.
4. **Saposnik G**, Consalvo D, Rey RC et al. Primary Intraventricular Hemorrhage. Rev Neurol Argentina 19: 27, 1994. **Co-principal author, literature review, study design, and writing the manuscript**.
5. **Saposnik G**, Bueri JA, Maurino J, et al. Movement Disorders in AIDS. Rev Neurol Argentina 19:70, 1994. **Co-principal author, literature review, study design, and writing the manuscript**.

Other Publications

1. Sposato L, Ovbiagele B, Fisher M, Johnston SC, **Saposnik G**. A peek behind the curtain: Peer review and editorial decision-making in STROKE. Annals of Neurology. Ann Neurol. 2014 Jul 4. doi: 10.1002/ana.24218. [Epub ahead of print]. **Senior Responsible Author**.
2. **Saposnik G**, Ovbiagele B, Raptis S, Fisher M, Johnston SC. Effect of english proficiency and research funding on acceptance of submitted articles to stroke journal. STROKE. Stroke. 2014 Jun;45(6):1862-8. **Principal Author**.

3. NON-PEER-REVIEWED PUBLICATIONS

Editorials

1. **Saposnik, G.** The Art of Estimating Outcomes and Treating Patients with Stroke in the 21st century. *STROKE*. 2014 Apr 20. 2014 Apr 17. [Epub ahead of print]. **Principal Author.**
2. **Saposnik, G.** Looking for the “spot sign”: enlightening the management of intracranial hemorrhage. *Can J Neurol Sci*. 2009 Jul;36(4):407-8. **Principal Author.**

Letters to Editor

1. **Saposnik G.** Ethnicity in Stroke: Practical Implications. *STROKE* 31(11):2732-3, 2000. **Principal Author.**

Multimedia

1. Videotape: “Movements in Brain death”. An illustrative collection of videotapes recording with permission from a Multicenter cohort study conducted in Buenos Aires, Argentina from 1998-2003 in individuals with confirmed diagnosis of brain death. http://ca.geocities.com/gsaposnik/gustavo_vnavbar4.html. **Principal author, responsible for videorecording, editing and critical review of the material.**

Book Chapters & Reviews

1. **Saposnik G.** Nuevos Agentes antiagregantes. *Rev Ecuatoriana de Neurologia* 7: 1031-40, 1998. **Principal author, literature review, study design, and writing the manuscript.**

Letters

1. **Saposnik G.** Predicting functional outcome after intra-arterial thrombolysis in Aspects of Aspects. *STROKE* 2004; 35:7-8, 2004. **Senior author, principal responsible for gathering data, analysis and writing the manuscript.**

Manuscripts

1. **Saposnik G.** Nuevos Agentes antiagregantes. *Rev Ecuatoriana de Neurologia* 7: 1031-401, 1998. **Principal author, literature review, study design, and writing the manuscript.**

Other Publications

1. Feigin VL, Krishnamurthi R, Bhattacharjee R, Parmar P, Theadom A, Hussein T, Purohit M, Hume P, Abbott M, Rush E, Kasabov N, Crezee I, Frielick S, Barker-Collo S, Barber PA, Arroll B, Poulton R, Ratnasabath Y, Tobias M, Cabral N, Martins SC, Furtado LE, Lindsay P, **Saposnik G**, Giroud M, Bejot Y, Hacke W, Mehndiratta MM, Pandian JD, Gupta S, Padma V, Mandal DK, Kokubo Y, Ibrahim NM, Sahathevan R, Fu H, Wang W, Liu L, Hou ZG, Goncalves AF, Correia M, Varakin Y, Kravchenko M, Piradov M, Saadah M, Thrift AG, Cadilhac D, Davis S, Donnan G, Lopez AD, Hankey GJ and Maujean A. New strategy to reduce the global burden of stroke. **Senior Responsible Author.**
2. Sposato LA, Cipriano LE, **Saposnik G**, Ruiz Vargas E, Riccio PM and Hachinski V. Diagnosis of atrial fibrillation after stroke and transient ischaemic attack: a systematic review and meta-analysis. *Lancet Neurol*. 2015 Apr;14(4):377-87. doi: 10.1016/S1474-4422(15)70027-X. Epub 2015 Mar 4. **Senior Responsible Author.**
3. Krishnan P, **Saposnik G**, Ovbiagele B, Zhang L, Symons S and Aviv R. Contribution and additional impact of imaging to the SPAN-100 score. *AJNR Am J Neuroradiol*. 2015 Apr;36(4):646-52. doi: 10.3174/ajnr.A4195. Epub 2015 Jan 8. **Senior Responsible Author.**

4. Arshi B, Ovbiagele B, Markovic D, **Saposnik G** and Towfighi A. Differential effect of B-vitamin therapy by antiplatelet use on risk of recurrent vascular events after stroke. *Stroke*. 2015 Mar;46(3):870-3. doi: 10.1161/STROKEAHA.114.006927. Epub 2015 Feb 3. **Senior Responsible Author**.
5. Nikkhah K, Avan A, Shoeibi A, Azarpazhooh A, Ghandehari K, Foerch C, **Saposnik G**, Sasannejad P, Vakili V, Layegh P, Farzadfard MT, Bavarsad Shahripour R, Hosseini MR and Azarpazhooh MR. Gaps and hurdles deter against following stroke guidelines for thrombolytic therapy in Iran: exploring the problem. *J Stroke Cerebrovasc Dis*. 2015 Feb;24(2):408-15. doi: 10.1016/j.jstrokecerebrovasdis.2014.09.012. Epub 2014 Dec 12. **Senior Responsible Author**.
6. Park TH, Redelmeier DA, Li S, Pongmoragot J and **Saposnik G**. Academic year-end changeover and stroke outcomes. *J Stroke Cerebrovasc Dis*. 2015 Feb;24(2):500-6. doi: 10.1016/j.jstrokecerebrovasdis.2014.09.030. Epub 2014 Dec 23. **Senior Responsible Author**.
7. Parmar P, Krishnamurthi R, Ikram MA, Hofman A, Mirza SS, Varakin Y, Kravchenko M, Piradov M, Thrift AG, Norrving B, Wang W, Mandal DK, Barker-Collo S, Sahathevan R, Davis S, **Saposnik G**, Kivipelto M, Sindi S, Bornstein NM, Giroud M, Bejot Y, Brainin M, Poulton R, Narayan KM, Correia M, Freire A, Kokubo Y, Wiebers D, Mensah G, BinDhim NF, Barber PA, Pandian JD, Hankey GJ, Mehndiratta MM, Azhagammal S, Ibrahim NM, Abbott M, Rush E, Hume P, Hussein T, Bhattacharjee R, Purohit M and Feigin VL. The Stroke Riskometer(TM) App: validation of a data collection tool and stroke risk predictor. *Int J Stroke*. 2015 Feb;10(2):231-44. doi: 10.1111/ijss.12411. Epub 2014 Dec 10. **Senior Responsible Author**.
8. **Saposnik G**, Fisher M and Schweizer TA. Translational Stroke Research: Where Have We Been and Where are We Going? Interviewing Dr. Marc Fisher (editor of *Stroke*). *Can J Neurol Sci*. 2015 Jan;42(1):2-6. doi: 10.1017/cjn.2014.119. Epub 2014 Dec 16. **Senior Responsible Author**.
9. **Saposnik G**, Fonarow GC, Pan W, Liang L, Hernandez AF, Schwamm LH and Smith EE. Guideline-directed low-density lipoprotein management in high-risk patients with ischemic stroke: findings from Get with the Guidelines-Stroke 2003 to 2012. *Stroke*. 2014 Nov;45(11):3343-51. doi: 10.1161/STROKEAHA.114.006736. Epub 2014 Oct 9. **Senior Responsible Author**.
10. Kamal N, Benavente O, Boyle K, Buck B, Butcher K, Casaubon LK, Cote R, Demchuk AM, Deschaintre Y, Dowlatshahi D, Gubitz GJ, Hunter G, Jeerakathil T, Jin A, Lang E, Lanthier S, Lindsay P, Newcommon N, Mandzia J, Norris CM, Oczkowski W, Odier C, Phillips S, Poppe AY, **Saposnik G**, Selchen D, Shuaib A, Silver F, Smith EE, Stotts G, Suddes M, Swartz RH, Teal P, Watson T and Hill MD. Good is not Good Enough: The Benchmark Stroke Door-to-Needle Time Should be 30 Minutes. *Can J Neurol Sci*. 2014 Nov;41(6):694-6. doi: 10.1017/cjn.2014.41. Epub 2014 Oct 20. **Senior Responsible Author**.
11. Ovbiagele B and **Saposnik G**. Risk index and thrombolytic treatment in acute ischemic stroke--reply. *JAMA Neurol*. 2014 Oct;71(10):1326. doi: 10.1001/jamaneurol.2014.2297. **Senior Responsible Author**.

4. SUBMITTED PUBLICATIONS

Journal Articles

1. Bart M. Demaerschalk, MD, MSc, FRCPC, Chair; Dawn O. Kleindorfer, MD, FAHA, Co-Chair; Opeolu M. Adeoye, MD, MS; Andrew M. Demchuk, MD, FRCPC; Jennifer E. Fugate, DO; James C. Grotta, MD; Alexander A. Khalessi, MD, MS; Elad I. Levy, MD, FACS, FAHA, FAANS; Judith H. Lichtman, PhD, MPH, FAHA; Yuko Y. Palesch, MD; Shyam Prabhakaran, MD, MS, FAHA; **Gustavo Saposnik**, MD, MSc, FAHA, FRCPC; Jeffrey L. Saver, MD, FAHA, FAAN; Eric E. Smith, MD, MPH, FAHA; on behalf of the American Heart Association Stroke Council and Council on Epidemiology. AHA/ASA Scientific Statement: Rationale for the Inclusion and Exclusion of IV tPA Criteria. *STROKE*. 2014 Apr. **Coauthor or Collaborator**.
2. Cheryl Bushnell, **Gustavo Saposnik**. Evaluation and Management of Cerebral Venous Thrombosis. *Continuum*. **Senior Responsible Author**.

Clinical Care Guidelines

1. Bart M. Demaerschalk, MD, MSc, FRCPC, Chair; Dawn O. Kleindorfer, MD, FAHA, Co-Chair; Opeolu M. Adeoye, MD, MS; Andrew M. Demchuk, MD, FRCPC; Jennifer E. Fugate, DO; James C. Grotta, MD; Alexander A. Khalessi, MD, MS; Elad I. Levy, MD, FACS, FAHA, FAANS; Judith H. Lichtman, PhD, MPH, FAHA; Yuko Y. Palesch, MD; Shyam Prabhakaran, MD, MS, FAHA; **Gustavo Saposnik**, MD, MSc, FAHA, FRCPC; Jeffrey L. Saver, MD, FAHA, FAAN; Eric E. Smith, MD, MPH, FAHA; on behalf of the American Heart Association Stroke Council and Council on Epidemiology. AHA/ASA Scientific Statement: Rationale for the Inclusion and Exclusion of IV tPA Criteria. 2014 Apr. **Coauthor or Collaborator.**

F. Intellectual Property

1. COPYRIGHTS

- 2012 Jan **iScore thrombolysis Web tool.** Applied. Canada. Joint Holder Name(s): Chi-Ming Chow, Edward Brawer. *The iScore (Ischemic Stroke Risk score) is a recently developed and validated tool to assist clinicians to estimate the risk of death at 30-day, at 1-year (Circulation 2011; 123: 739-49), and functional outcomes (Stroke 2011 in press) during the initial assessment in the Emergency Department or early after hospital admission for patients with an acute ischemic stroke. The web was recently updated to include the iScore ability to estimate outcomes after thrombolysis.*
- 2011 Jul **iScore iPhone version.** Applied. Canada. Joint Holder Name(s): Chi-Ming Chow, Edward Brawer. *The iScore web and iPhone application are objective tools to stratify patients and estimate the risk of a poor functional outcome after an ischemic stroke. It may be used to discuss prognosis, and guide end-of-life care and discharge planning. From the health care perspective, the iScore may be used to help policymakers plan resources, which may result in optimized access to stroke care and rehabilitation services.*
- 2011 Feb **iScore Web tool.** Applied. Canada. Joint Holder Name(s): Chi-Ming Chow, Edward Brawer. *The iScore (Ischemic Stroke Risk score) is a recently developed and validated tool to assist clinicians to estimate the risk of death at 30-day, at 1-year (Circulation 2011; 123: 739-49), and functional outcomes (Stroke 2011 in press) during the initial assessment in the Emergency Department or early after hospital admission for patients with an acute ischemic stroke. The iScore helps categorize patients with an acute ischemic stroke from very low to very high average risk, using clinical parameters and comorbid conditions, including: age, sex, stroke severity, stroke subtype, smoking status, preadmission dependency, and the presence or absence of atrial fibrillation, heart failure, previous myocardial infarction, cancer, renal failure, and hyperglycemia on admission.*

G. Presentations and Special Lectures

1. INTERNATIONAL

Invited Lectures and Presentations

- 2015 May 28 **Keynote Speaker.** Decision making in Acute Stroke Care. University of Zurich. Zurich, Switzerland. Presenter(s): **Saposnik, G.**
- 2015 Apr 27 **Keynote Speaker.** Decision making in Acute Stroke Care. Grenoble University. Grenoble, France. Presenter(s): **Saposnik, G.**
- 2014 Nov 20 **Keynote Speaker.** Decision making in Acute Stroke Care. National Congress of Neurology. Valencia, Spain. Presenter(s): **Saposnik, G.**

- 2014 Nov 14 **Invited Speaker.** Virtual Reality in Stroke Rehabilitation; from benchmark to bedside. Bangkok, Thailand. Presenter(s): **Saposnik, G.**
- 2014 Nov 11 **Keynote Speaker.** The Challenges of treating Stroke in Octogenarians. Annual Stroke Conference. Bangkok, Thailand. Presenter(s): **Saposnik, G.**
- 2014 Nov 7 **Invited Speaker.** Novel advances in Stroke Rehabilitation: Update on Virtual Reality. International Congress of Neuroepidemiology. Kuala Lumpur, Malaysia. Presenter(s): **Saposnik, G.**
- 2014 Nov 6 **Invited Speaker.** Stroke Outcomes Research. Bangkok, Thailand. Presenter(s): **Saposnik, G.** Stroke Outcomes Research.
- 2014 Nov 5 **Invited Speaker.** Stroke Outcomes Research. Bangkok, Thailand. Presenter(s): **Saposnik, G.** Stroke Outcomes Research.
- 2014 Aug 9 **Presenter.** How to organize and use stroke registry for research. Annual Stroke Conference. Korea, Korea, Republic Of. Presenter(s): **Saposnik, G.**
- 2014 Feb 13 **Presenter.** Assessing Individual Risk and Benefits of Acute Therapies in the Oldest Old. International Stroke Conference. San Diego, United States. Presenter(s): **Saposnik, G.**
- 2013 Oct 8 **Presenter.** Socioeconomic status and Stroke. World Neurology Congress. Vienna, Austria. Presenter(s): **Saposnik, G.**
- 2013 Sep 24 **Speaker.** Socioeconomic status and Stroke. World Neurology Congress. Vienna, Austria. Presenter(s): **Saposnik, G.**
- 2013 Sep 23 **Chair.** Free Papers in Stroke Session 15. World Neurology Congress. Vienna, Wien, Austria. Presenter(s): **Saposnik, G.**
- 2013 Aug 16 **Invited Lecturer.** Siriraj Annual Neurology Conference. Bangkok, Thailand. Presenter(s): **Gustavo Saposnik.** Principles from the Industrial sector to Neurology.
- 2013 Feb 8 **Presenter.** Virtual Reality and the brain reward system. International Stroke Congress. Honolulu, Hawaii, United States. Presenter(s): **Saposnik, G.**
- 2013 Feb 7 **Presenter.** Honolulu, Hawaii, United States. MP91- How reliably do clinicians predict stroke outcomes? results from JURASSIC.
- 2013 Feb 7 **Presenter.** AHA International Stroke Conference. Honolulu, Hawaii, United States. Poster CT P14 Efficacy of Virtual Reality using Wii Gaming Technology in Stroke Rehabilitation (EVREST Multicentre).
- 2013 Feb 6 **Presenter.** International Stroke Conference AHA 2013. Honolulu, Hawaii, United States. Virtual Reality Gaming Technology Engaging the Brain reward system in Stroke Rehabilitation.
- 2013 Feb 6 **Presenter.** AHA International Stroke Conference. Honolulu, Hawaii, United States. POSTER MP96 The Isoscore Predicts Clinical Response to Thrombolysis.
- 2012 Dec 14 **Presenter.** Predicting Stroke Outcomes. Ramos Mejia Hospital- University of Buenos Aires. Buenos Aires, Ciudad Autónoma de Buenos Aires, Argentina. Presenter(s): **Saposnik, G.**
- 2012 Dec 14 **Presenter.** EVREST Multicenter and Virtual reality in Stroke rehabilitation. Ramos Mejia Hospital- University of Buenos Aires. Buenos Aires, Ciudad Autónoma de Buenos Aires, Argentina. Presenter(s): **Saposnik, G.**
- 2012 Dec 12 **Presenter.** Virtual Reality and Stroke Rehabilitation. INECO. Buenos Aires, Ciudad Autónoma de Buenos Aires, Argentina. Presenter(s): **Saposnik, G.**
- 2012 Oct 11 **Presenter.** The iScore predicts clinical response after tPA for an acute ischemic stroke. World Stroke Congress. Brazilia, Brazil. Presenter(s): **Saposnik, G.**

- 2012 Oct 11 **Presenter.** Virtual reality: it is not just a toy. World Stroke Congress. Brasilia, Brazil. Presenter(s): **Saposnik, G.** oral presentation.
- 2012 Oct 10 **Presenter.** Stroke Guidelines Development. World Stroke Congress. Brasilia, Brazil. Presenter(s): **Saposnik, G.** oral presentation.
- 2012 Feb 1 **Invited Speaker.** Macro-economic Indicators and Stroke: A Link to the Current MDGs? International Stroke Conference 2012. New Orleans, Louisiana, United States. Presenter(s): **Saposnik, G.**
- 2012 Feb 1 **Invited Speaker.** Virtual Reality in Stroke Rehabilitation: An overview. International Stroke Conference 2012. New Orleans, Louisiana, United States. Presenter(s): **Saposnik, G.**
- 2012 Feb **Presenter.** Honolulu, Hawaii, United States. Poster MP91- How Reliably do clinician predict stroke outcomes?(results from JURaSSIC.
- 2012 Feb **Presenter.** Honolulu, Hawaii, United States. Poster MP91- How Reliably do clinician predict stroke outcomes?(results from JURaSSIC.
- 2011 Nov 17 **Presenter.** Management of anticoagulation with Dabigatran in patients with atrial fibrillation. National Congress of Neurology. Barcelona, Spain.
- 2011 Feb 11 **Presenter.** AHA Scientific Statement on the Diagnosis and Management of Cerebral venous Thrombosis. International Stroke Conference. Los Angeles, California, California, United States. Presenter(s): **Saposnik, G.**
- 2011 Feb 10 **Presenter.** Stroke Epidemiology and Outcomes in the older old. International Stroke Conference. Los Angeles, California, California, United States. Presenter(s): **Saposnik, G.**
- 2010 Jun 8 **Presenter.** Effectiveness of Virtual Reality Exercises using Wii Gaming technology in Stroke Rehabilitation(EVREST): A randomized clinical trial and proof of principle. Quebec City Convention Centre. Quebec, Ontario, Canada.
- 2010 May 27 **Invited Speaker.** Effectiveness of virtual reality using Wii gaming technology in stroke rehabilitation (EVREST): a randomised clinical trial and proof of principle. European Stroke Conference. Barcelona, Spain. Presenter(s): G. Saposnk, R. Teasell, M. Mamdani, K.E. Thorpe, D. Cheung, J. Willems, J. Hall, W. McIlroy, M. Bayley, L.G. Cohen.
- 2010 May 27 **Invited Speaker.** Socioeconomic Status and Stroke. European Stroke Conference. Barcelona, Spain.
- 2010 Apr 14 **Presenter.** A Multi-Center Study Assessing the Impact of Seizures in Mortality after Ischemic Stroke. 62nd AAN Annual Meeting. Ontario, Canada. S29.007.
- 2010 Apr 13 **Presenter.** Stroke-Associated Pneumonia (SAP): Risk Factors for its Developement and Affect on Stroke Outcome. 62nd AAN Annual Meeting. Ontario, Canada. S02.006.
- 2010 Feb 24 Internation Stroke Conference. San Antonio, Texas, United States. Presenter(s): Dr. **Gustavo Saposnik.**
- 2009 Feb 19 **Presenter.** Impact of Seizures in Morbidity and Mortality After Stroke: Results From The Registry of The Canadian Stroke Network. International Stroke Conference. San Diego, California, United States. Presenter(s): **Saposnik, Gustavo.**
- 2009 Feb 19 **Presenter.** Homocysteine Lowering Therapy and Stroke Risk, Severity and Disability: Results From The Hope-2 Trial. International Stroke Conference. San Diego, California, United States. Presenter(s): **Saposnik, Gustavo.**
- 2008 Dec 19 **Invited Speaker.** Stroke program in Canada. Can we replicate the model in Argentina? First Canadian-Argeninian Stroke Forum. Buenos Aires, Buenos Aires, Argentina. Presenter(s): **Gustavo Saposnik.**
- 2008 Sep 10 **Invited Speaker.** Hospital Determinants of Stroke Outcome. Iberoamerican Stroke Meeting. Cartagena, Colombia.

- 2008 Feb 20 **Presenter.** Gender Differences in the Management of Cerebrovascular Disease: The Challenge of Secondary Prevention. International Stroke Conference. New Orleans, Louisiana, United States.
- 2008 Feb 20 **Presenter.** Low-income, Low-hospital Volume and High Stroke Mortality: The Puzzling Route of Inequity. International Stroke Conference. New Orleans, Louisiana, United States. Presenter(s): **Saposnik, G.**
- 2008 Feb 20 **Presenter.** Indicators of Quality of Care in the Stroke Registry in Argentina. International Stroke Conference. New Orleans, Louisiana, United States. Presenter(s): Sposatto, L.
- 2008 Feb 20 **Presenter.** Differences in Target Achievement Among Patients with Cardiovascular, Stroke or Combined Disease. International Stroke Conference. New Orleans, Louisiana, United States.
- 2008 Feb 20 **Presenter.** Comparing Variables Associated with 7-day, 30-day and 1-year Stroke Mortality Indicators. International Stroke Conference. New Orleans, Louisiana, United States.
- 2008 Feb 20 **Presenter.** Organized Care and Impact on Stroke Outcome. International Stroke Conference. New Orleans, Louisiana, United States.
- 2008 Feb 20 **Presenter.** Stroke Mortality in the Argentinian Stroke Registry (RENACER). International Stroke Conference. New Orleans, Louisiana, United States.
- 2008 Feb 20 **Presenter.** Differences in stroke outcome between men and women in RENACER. International Stroke Conference. New Orleans, Louisiana, United States.
- 2008 Feb 20 **Presenter.** Angioedema in Acute Stroke After t-PA. International Stroke Conference. New Orleans, Louisiana, United States.
- 2007 Jun 28 **Invited Speaker.** Secondary stroke prevention: Is that different in women vs men? 9th International Conference of Cerebrovascular Disease. Buenos Aires, Argentina. Round table: Non-pharmaceutical sponsored research.
- 2007 Jun 28 **Invited Speaker.** The panvascular patient: the neurological perspective. 9th International Conference of Cerebrovascular Disease. Buenos Aires, Argentina. Round table: Non-pharmaceutical sponsored research.
- 2007 Jun 28 **Chairman.** Thrombolytic therapy for acute stroke: IV + IA t-PA. 9th International Conference of Cerebrovascular Disease. Buenos Aires, Argentina. Round table: Non-pharmaceutical sponsored research.
- 2007 Apr 28 **Presenter.** Weekends: A Dangerous Time for Having a Stroke? 59th American Academy of Neurology Annual meeting. Boston, Massachusetts, United States.
- 2007 Feb 6 **Presenter.** Stroke Mortality: High volume, Low Hospital Mortality. International Stroke Conference. San Francisco, California, United States. Presenter(s): **Saposnik, G.**
- 2000 Jun 17 **Program chair and lecturer Stroke Units.** International Symposium of Stroke and Critical Care. Buenos Aires, Argentina.

Presented Abstracts

- 2013 Feb 7 **Presenter.** AHA International Stroke Conference. Honolulu, Hawaii, United States. POSTER :Atrial Fibrillation in Ischemic Stroke: Predicting Response to Trhombolysis and Clinic outcomes.
- 2011 Feb 10 **Presenter.** Stroke care and Outcomes and patients with stroke and pre-existing dementia. International Stroke Conference. Los Angeles, California, California, United States. Presenter(s): **Saposnik, G.** Raptis. R, Rochon. P, Liu. Y, Kapral. M, Mamdani. M.
- 2010 May 27 **Presenter.** Stroke-associated pneumonia (SAP): do community and academic hospitals have similar incident risk and outcomes? European Stroke Conference. Barcelona, Spain. Presenter(s): O. Finlayson, M.K. Kapral, R. Hall, E. Asllani, D. Selchen, **G. Saposnik.** Poster Presentation.

- 2010 May 27 **Presenter.** Stroke-associated pneumonia (SAP): risk factors for its development and impact on stroke outcome. European Stroke Conference. Barcelona, Spain. Presenter(s): O. Finlayson, M.K. Kapral, R. Hall, E. Asllani, D. Selchen, **G. Saposnik**. Poster Presentation.
- 2010 Apr 15 **Presenter.** Stroke-Associated Pneumonia (SAP): Do Academic and Community Hospitals Have Similar Incident Risk and Outcomes? 62nd AAN Annual Meeting. Ontario, Canada. Poster Presentation P06.016.
- 2010 Apr 15 **Presenter.** Chocolate Consumption and Risk of Stroke. 62nd AAN Annual Meeting. Ontario, Canada. Poster Presentation P06.011.
- 2010 Apr 13 **Presenter.** Effectiveness of Virtual Reality Exercises using Wii Gaming technology in Stroke Rehabilitation (EVREST): Results from a Randomized Clinical Trial. 62nd AAN Annual Meeting. Ontario, Canada. Poster Presentation P02.129.
- 2009 Apr 30 **Presenter.** Age Disparities in Stroke Care Delivery and Quality of Care. American Academy of Neurology, Annual Meeting. Seattle, Washington, United States. Presenter(s): **Saposnik, G.**, Black, S., Hakim, A., Fang, J., Tu, J., Kapral, M.
- 2009 Apr 30 **Presenter.** Quality of Acute Ischemic Stroke Care among Senior Citizens. Results from the Argentinian Stroke Registry (ReNACer). American Academy of Neurology, Annual Meeting. Seattle, Washington, United States. Presenter(s): Sposato, L.A., Fustinoni, O., **Saposnik, G.**
- 2009 Apr 30 **Presenter.** Comparing Indicators of Quality of Stroke Care: The Initial Step for a Worldwide Effort. American Academy of Neurology, Annual Meeting. Seattle, Washington, United States. Presenter(s): Sposato, L.A., Kapral, M., Fang, J., Fustinoni, O., **Saposnik, G.**
- 2009 Apr 28 **Presenter.** Virtual Reality Technology in Stroke Rehabilitation: A Pilot Randomized Trial Using Wii Gaming System. American Academy of Neurology, Annual Meeting. Seattle, Washington, United States. Presenter(s): **Saposnik G.**, Bayley M., Mamdani M., Cheung, D., Hall, J., Dishaw, A., Willems, J., Cohen, L., Teasell, R.
- 2009 Feb 19 **Presenter.** Development and Validation of a Simple Conversion Model for Comparison of the Canadian Neurological Scale (CNS) and the National Institute of Health Stroke Scale (NIHSS). International Stroke Conference. San Diego, California, United States.
- 2009 Feb 19 **Presenter.** Do All Age Groups Benefit From Organized Stroke Care? International Stroke Conference. San Diego, California, United States.
- 2009 Feb 19 **Presenter.** Age Disparities in Stroke Care Delivery and Quality of Care. International Stroke Conference. San Diego, California, United States.
- 2009 Feb 18 **Presenter.** Stroke In The Very Elderly: Hospital Care, Case-fatality and Disposition. International Stroke Conference. San Diego, California, United States.
- 2009 Feb 18 **Presenter.** Comparing Indicators of Quality of Stroke Care: The Initial Step for a Worldwide Effort. International Stroke Conference. San Diego, California, United States.
- 2009 Feb 18 **Presenter.** Higher Mortality Rates in Patients Presenting to Hospital with Acute Stroke on Weekends Maybe Explained by Higher Initial Severity. International Stroke Conference. San Diego, California, United States.
- 2008 Sep 24 **Presenter.** Stroke Outcome in the elderly. International Stroke Society, 6th World Stroke Congress. Vienna, Austria.
- 2008 May 18 **Presenter.** Socioeconomic status, Hospital Volume and Ischemic Stroke Mortality in Canada. World Congress of Cardiology. Buenos Aires, Argentina.
- 2008 Apr 14 **Presenter.** Sex Disparities in ischemic stroke care and outcome in an emerging country. The Argentinian National Stroke Registry (ReNACer). April 2008. (Coauthor). American Academy of Neurology Annual Meeting. Chicago, Illinois, United States.

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- 2008 Apr 12 **Presenter.** Stroke outcome in those over 80: A Canadian study of the approaching "Silver Tsunami." NEUROLOGY 2008. (Coauthor). American Academy of Neurology Annual Meeting. Chicago, Illinois, United States.
- 2008 Apr 12 **Presenter.** Escalating levels of Access to in-hospital care and Stroke Mortality. STROKE 2008. (Principal Author). American Academy of Neurology Annual Meeting. Chicago, Illinois, United States.
- 2008 Apr 12 **Presenter.** Socioeconomic status, Hospital Volume and Fatality after Ischemic Stroke in Canada. (Coauthor). American Academy of Neurology Annual Meeting. Chicago, Illinois, United States.
- 2008 Apr 12 **Presenter.** Acute ischemic stroke outcome in an emerging country. The Argentinian National Stroke Registry (ReNACer). Neurology 2008. (Senior Responsible Author). American Academy of Neurology Annual Meeting. Chicago, Illinois, United States.
- 2008 Apr 8 **Presenter.** Assessment of quality of stroke care in emerging countries. The Argentinian National Stroke Registry (ReNACer). April 2008. (Coauthor). American Academy of Neurology Annual Meeting. Chicago, Illinois, United States.
- 2007 Apr 28 **Presenter.** Stroke Mortality: Does Hospital Volume Matter? 59th American Academy of Neurology Annual Meeting. Boston, Massachusetts, United States.

Workshops

- 2005 Sep 21 **Chair.** Update in Clinical Trials in Stroke. Iberoamerican Society of Cerebrovascular Disease, VIII International Meeting of the SIECV. Salvador, Brazil.
- 2004 Sep 22 **Program chair and lecturer.** Epidemiology of Cerebrovascular disease in Latin-America. Iberoamerican Society of Cerebrovascular Disease, VII International Meeting of the SIECV. Cancun, Mexico.

Other Presentations

- 2005 Nov Epidemiology of Stroke in Latin-America. Regional Symposium. World Stroke Neurology Meeting. Sidney, Australia.
- 2005 Jun 2 Predictors of Outcome in Acute Stroke. National Neurology Meeting. INNN. Morelia, Mexico.
- 2005 Jan 26 Outcome after Acute Stroke. Symposium of Stroke and Vascular Disease. Buenos Aires, Argentina.
- 2004 Sep 21 Hospital Registries in Latin-American countries. VII Iberoamerican Stroke Meeting. Cancún, Mexico.
- 2003 May 22 Ischemic Stroke: rethinking the therapeutic opportunities. XII European Stroke Conference. Valencia, Spain.
- 2002 Oct 29 Management of atrial fibrillation and Stroke. V Iberoamerican Stroke Meeting. Santo Domingo, Dominican Republic.
- 2001 Nov 26 Posterior Circulation Stroke: mechanisms. IV Iberoamerican Stroke Meeting. San Pedro Sula, Honduras.
- 2001 Nov 24 Epidemiology of Stroke in LatinAmerica. IV Iberoamerican Stroke Meeting. San Pedro Sula, Honduras.
- 2000 Sep 17 Case Session presentation. III Iberoamerican Stroke Meeting. La Habana, Cuba.
- 2000 Sep 17 Hypercholesterolemia and Cerebrovascular disease. III Iberoamerican Stroke Meeting. La Habana, Cuba.
- 1999 Sep 15 Antiplatelets Agents. II Iberoamerican Stroke Meeting. Mexico DF, Macao.
- 1999 Sep 14 Genetic aspects of Cerebrovascular disease. II Iberoamerican Stroke Meeting. Mexico DF, Macao.
- 1998 Oct 21 Subarachnoid Hemorrhage: new clinical strategies. Coordinator Round Table. I Iberoamerican Stroke Meeting. Guayaquil, Ecuador.

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- 1998 Oct 19 Cerebrovascular disease and Genetics. Iberoamerican Stroke Meeting. Guayaquil, Ecuador.
- 1998 Oct 19 An Updated of antiaggregant agents. Iberoamerican Stroke Meeting. Guayaquil, Ecuador.

2. NATIONAL

Invited Lectures and Presentations

- 2012 Nov 9 **Presenter.** Predicting outcomes after an acute ischemic stroke. Ottawa Neurology grand Rounds. Ottawa, Ontario, Canada. Presenter(s): **Saposnik, G.** oral presentation.
- 2012 Oct 2 **Presenter.** Efficacy of Virtual reality in Stroke Rehabilitation: A multicenter randomized trial. Canadian Stroke Congress. Calgary, Alberta, Canada. Presenter(s): **Saposnik, G.** oral presentation.
- 2012 Oct 2 **Presenter.** Fabry's Disease: A prospective multi-centre cohort study in young adults with cryptogenic stroke. Canadian Stroke Congress. Calgary, Alberta, Canada. Presenter(s): **Saposnik, G.** oral presentation.
- 2012 Mar 27 **Presenter.** Advances in Stroke Outcomes research. Neurology grand Rounds. London, Ontario, Canada. Presenter(s): **Saposnik, G.** oral presentation.
- 2009 Mar 5 **Invited Speaker.** Stroke Outcomes Research. Calgary Stroke Program, Foothills Medical Centre. Calgary, Alberta, Canada.
- 2008 Nov 7 Annual Investigtors Meeting. Canadian Stroke Consortium. Montreal, Quebec, Canada. (Continuing Education).
- 2007 Oct 30 **Presenter.** New imaging techniques for acute stroke. Canadian Stroke Consortium, Annual Course for Residents. Toronto, Ontario, Canada.

Other Presentations

- 2008 Oct 4 National Stroke Conference. Canadian Stroke Consortium. Toronto, Ontario, Canada. (Continuing Education).

3. PROVINCIAL / REGIONAL

Invited Lectures and Presentations

- 2012 Oct 2 **Presenter.** The iScore predicts clinical response after tPA for an acute ischemic stroke. Canadian Stroke Congress. Calgary, Alberta, Canada. Presenter(s): **Saposnik, G.**
- 2012 Oct 1 **Invited Speaker.** Multi-Modal Approaches to Rehabilitation- Virtual Reality. Canada Stroke Congress. Calgary, Ontario, Canada. Presenter(s): **Saposnik, G.**
- 2012 May 10 **Presenter.** The iScore predicts clinical response after tPA for an acute ischemic stroke. 10th Annual Scientific Meeting, Heart and Stroke Foundation. Ottawa, Ontario, Canada. Presenter(s): **Saposnik, G.**
- 2009 Jun 30 **Presenter.** Advances in Stroke Outcomes Research. St. Michael's Hospital. Toronto, Ontario, Canada.
- 2009 Jun 24 **Presenter.** Do new immigrants have a higher or lower risk of stroke? Heart & Stroke Foundation of Ontario. Toronto, Ontario, Canada.
- 2009 May 22 **Invited Speaker.** S.O.S. Stroke Care: Evaluating gaps along the continuum in stroke care. Women's College Research Institute. Toronto, Ontario, Canada.

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- 2009 Feb 3 **Thrombolysis for Stroke: ECASS-3.** University of Toronto, Division of Neurology Stroke Section. Toronto, Ontario, Canada. Presenter(s): Michael Hill, MD. (Continuing Education).
- 2009 Jan 28 **Presenter.** Acute Phase of Stroke: Gender Differences in Treatment and Outcome. South East Toronto Stroke Network, Stroke Best Practice Clinical Day. Toronto, Ontario, Canada.
- 2008 Nov 21 **Speaker.** Escalating Levels of Access to In-hospital Care and Stroke Mortality. Neurology Faculty Research Day. Toronto, Ontario, Canada. (Continuing Education).
- 2008 Nov 21 **Presenter.** Escalating access to organized care and stroke outcome. University of Toronto. Toronto, Ontario, Canada. Presenter(s): **Saposnik, Gustavo.**
- 2007 Mar 23 **Presenter.** Workshop: CT scan in acute stroke. Canadian Stroke Consortium (CSC), Annual Course of Stroke for Residents and Fellows. Toronto, ON, Ontario, Canada. (Continuing Education).
- 2006 Aug 26 **Invited Speaker.** Neurology Esprit Consultant Meeting. Bristol-Myers Squibb Canada. Toronto, Ontario, Canada. (Continuing Education).

Presented Abstracts

- 2008 Nov 21 **Presenter.** Comparing 7-day, 30-day and 1 year stroke mortality indicators. University of Toronto. Toronto, Ontario, Canada. Presenter(s): **Saposnik, Gustavo.**

4. LOCAL

Invited Lectures and Presentations

- 2012 Apr 9 **Presenter.** Advances in Stroke Outcomes research. Ottawa Neurology grand Rounds. Toronto, Ontario, Canada. Presenter(s): **Saposnik, G.** oral presentation.
- 2012 Apr 2 **Presenter.** Predicting Clinical Response to Thrombolysis for an Acute Ischemic Stroke. Cardiology Research Rounds, St. Michael's Hospital. Toronto, Ontario, Canada. Presenter(s): **Saposnik, G.**
- 2012 Mar 27 **Presenter.** Recent advances in stroke outcomes research. Grand Rounds, Hamilton Sciences Centre. Hamilton, Ontario, Canada.
- 2012 Mar 25 **Invited Speaker.** Meet the Experts. Canadian Stroke Consortium, 12th Annual Stroke Review Course for Neurology Residents. Toronto, Ontario, Canada. Presenter(s): Dean, **Saposnik G.**, Silver, Jeerakathil et al.
- 2012 Mar 24 **Presenter.** What tests do young strokes really need? Canadian Stroke Consortium, 12th Annual Stroke Review Course for Neurology Residents. Toronto, Ontario, Canada. Presenter(s): Casaubon, **Saposnik G.**
- 2012 Mar 20 **Invited Speaker.** Recent advances in stroke outcomes research. Grand Rounds, London Health Sciences Centre. London, Ontario, Canada.
- 2011 Oct 17 **Invited Speaker.** The iScore: A New Tool to Predict Outcomes after an Acute Ischemic Stroke. Heart and Stroke Foundation, Ontario. Toronto, Ontario, Canada. Presenter(s): Dr. **Gustavo Saposnik.**
- 2011 Oct 17 **Invited Speaker.** Virtual Reality in Stroke Rehabilitation: A Meta - Analysis of the Current Available Evidence. Heart and Stroke Foundation, Ontario. Toronto, Ontario, Canada. Presenter(s): Dr. **Gustavo Saposnik.**
- 2011 Oct 17 **Invited Speaker.** Virtual Reality in Stroke Rehabilitation: A Meta - Analysis of the Current Available Evidence. Heart and Stroke Foundation, Ontario. Toronto, Ontario, Canada. Presenter(s): Dr. **Gustavo Saposnik.**
- 2011 Mar 7 **Presenter.** Canadian Fabry Stroke Screening Initiative (CFSSI). St. Michael's Hospital. Canada.

Presenter(s): Lanthier. S, Selchen. D, **Saposnik. G.**

- 2011 Feb 22 **Presenter.** Predicting Outcomes After Stroke. ICES/CEU Conjoint Rounds. Ontario, Canada. Presenter(s): **Saposnik. G.**
- 2010 Oct 25 **Invited Speaker.** Effectiveness of Virtual Reality using Wii Gaming technology in Stroke Rehabilitation (EVREST): A Randomized Clinical Trial and Proof of Principle. 2010 stroke Collaborative (Metro Toronto Convention Centre). Toronto, Ontario, Canada. Presenter(s): Dr. **Gustavo Saposnik.**
- 2010 Oct 25 **Invited Speaker.** Risk of Premature Stroke in Recent Immigrants (PRESARIO): Population-based matched cohort study. 2010 stroke Collaborative (Metro Toronto Convention Centre). Toronto, Ontario, Canada. Presenter(s): Dr. **Gustavo Saposnik.**
- 2010 Oct 25 **Presenter.** Effectiveness of Virtual Reality Exercises using Wii Gaming technology in Stroke Rehabilitation (EVREST): A Randomized Clinical Trial and Proof of Principle. Metro Toronto Convention Centre (2010 Stroke Collaborative). Toronto, Ontario, Canada.
- 2010 Jan 19 **Invited Speaker.** Pragmatic Issues in Conduct of Controlled. Health Policy, Management and Evaluation. Toronto, Ontario, Canada. Presenter(s): Dr. **Gustavo Saposnik.**
- 2009 Nov 27 **Presenter.** Effectiveness of Virtual Reality Exercises using Wii Gaming technology in Stroke Rehabilitation (EVREST): Results from a randomized clinical trial. Sutton Place Hotel. Toronto, Ontario, Canada.
- 2009 Nov 20 **Presenter.** Virtual reality in Stroke Rehabilitation. Women's College. Toronto, Ontario, Canada.
- 2009 Jul 20 **Presenter.** Management of Acute Stroke. St. Michael's Hospital. Toronto, Ontario, Canada.
- 2009 Jul 13 **Presenter.** Acute Stroke. St. Michael's Hospital. Toronto, Ontario, Canada.
- 2009 Jun 17 **Presenter.** Intracerebral Haemorrhage in the Young. St. Michael's Hospital. Toronto, Ontario, Canada.
- 2009 May 21 **Presenter.** Chocolate Consumption and Cardiovascular Disease. Stroke Journal Club, St. Michael's Hospital. Toronto, Ontario, Canada.
- 2009 May 4 **Presenter.** Are new immigrants at higher or lower risk of stroke?: Results of a population-based matched cohort study (PRESARIO). Neuroscience Rounds, St. Michael's Hospital. Toronto, Ontario, Canada. (Continuing Education).
- 2009 Feb 23 **Presenter.** Acute Stroke Management. St. Michael's Hospital. Toronto, Ontario, Canada.
- 2008 Sep 8 **Presenter.** Secondary Stroke Prevention - Updated. St. Michael's Hospital. Toronto, Ontario, Canada.
- 2008 Jul 14 **Presenter.** Acute Stroke. St. Michael's Hospital. Toronto, Ontario, Canada.
- 2008 Jul 14 **Presenter.** Acute Stroke. St. Michael's Hospital. Toronto, Ontario, Canada.
- 2008 Jun 27 **Invited Speaker.** Diagnosis and management of acute stroke. Toronto Western Hospital. Toronto, Ontario, Canada. (Continuing Education).
- 2008 Apr 22 **Presenter.** Management of Acute Stroke. St. Michael's Hospital, Neurology Teaching Rounds. Toronto, Ontario, Canada.
- 2008 Jan 8 **Presenter.** Stroke. St. Michael's Hospital. Toronto, Ontario, Canada. (Continuing Education).
- 2007 Nov 7 **Presenter.** Approach to Acute Visual Loss. Neurology Teaching Rounds, St. Michael's Hospital. Toronto, Ontario, Canada. (Continuing Education).
- 2007 Oct 23 **Invited Speaker.** Presentation: Re-thinking Stroke. The Albany Clinic. Toronto, ON, Ontario, Canada. (Continuing Education).
- 2007 Sep 20 **Presenter.** Pharmacological therapy for aphasia in stroke. St. Michael's Hospital. Toronto, Ontario,

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Canada.

- 2007 May 28 **Presenter.** Volume-outcome relationship: A real phenomenon or an illusion? Neuroscience Rounds. St. Michael's Hospital. Toronto, Ontario, Canada. Presenter(s): Saposnik. (Continuing Education).
- 2007 Mar 23 **Presenter.** CT Scan in Acute Stroke. Canadian Stroke Consortium Annual Workshop. Toronto, Ontario, Canada. (Continuing Education).
- 2007 Feb 23 **Presenter.** (1) Health system determinants of stroke outcome. (2) Advances in Acute Stroke Therapy. J. C. Richardson Neurology Subspecialty Day. Chestnut Conference Centre. Toronto, Ontario, Canada. (Continuing Education).
- 2007 Feb 12 **Presenter.** Approach to Visual Loss. St. Michael's Hospital. Toronto, Ontario, Canada.
- 2006 Dec 11 **Presenter.** Management of Acute Stroke. St. Michael's Hospital, Residents' Teaching Rounds. Toronto, Ontario, Canada.
- 2006 Nov 30 **Presenter.** Stroke: High volume, low mortality. Oral presentation, Breakfast of Our Champions Committee. Toronto, Canada. (Continuing Education).
- 2006 Nov 30 **Presenter.** Weekends: A dangerous time for having a stroke? Poster presentation, Breakfast of Our Champions Committee. Toronto, Ontario, Canada.
- 2006 Oct 23 **Presenter.** The Brain, The Heart and Sudden death: Memories from a mysterious marriage. Neuroscience rounds. St. Michael's Hospital. Toronto, Ontario, Canada.
- 2006 Oct 4 **Presenter.** Acute Stroke Therapy: Lost in translation? St. Michael's Hospital, Medical Grand Rounds. Toronto, Ontario, Canada.

Presented Abstracts

- 2008 Jun 26 **Presenter.** Escalating Levels of Access to In-Hospital Care and Stroke Mortality. Mobility Program. Toronto, Ontario, Canada. Presenter(s): **Saposnik, Gustavo.**
- 2008 Jun 26 **Presenter.** Comparing 7-day, 30-day and 1 year stroke mortality indicators. Mobility Program. Toronto, Ontario, Canada. Presenter(s): **Saposnik, Gustavo.**
- 2008 May 26 Annual Education and Research Day. Department of Medicine, St. Michael's Hospital (Metropolitan Hotel). Toronto, Ontario, Canada. (Continuing Education).

City-Wide Neurology Grand Rounds, HJM Barnett Lecture

- 2007 Sep 28 Secondary Prevention of Stroke: Building on 50 years of progress. St. Michael's Hospital. Toronto, Ontario, Canada. (Continuing Education).

Emergency Lecture Series

- 2007 Jul 16 **Presenter.** Acute Stroke. St. Michael's Hospital. Toronto, Ontario, Canada.

Journal Club

- 2008 Jun 27 **Presenter.** Stroke Prognosis. St. Michael's Hospital. Toronto, Ontario, Canada. (Continuing Education).

Neuroscience Rounds

- 2008 Mar 31 **Presenter.** Stroke Prevention Update. St. Michael's Hospital. Toronto, Ontario, Canada. (Continuing Education).

Other Presentations

- 2008 Jun 26 Breaking the Boundries in Practice, Research and Education. Grand Hotel. Toronto, Ontario, Canada. (Continuing Education).
- 2007 Dec 7 Research Seminar Series. St. Michael's Hospital. Toronto, Ontario, Canada. (Continuing Education).
- 2007 Nov 29 Issues in Clinical Research. St. Michael's Hospital. Toronto, Ontario, Canada. (Continuing Education).
- 2007 Nov 9 Annual Lecture, Global Health. University of Toronto. Toronto, Ontario, Canada. (Continuing Education).
- 2007 Oct 26 Investigators Meeting. Canadian Stroke Consortium, Yorkville Intercontinental Hotel. Toronto, Ontario, Canada. (Continuing Education).
- 2007 Oct 22 Good Clinical Practice. St. Michael's Hospital. Toronto, Ontario, Canada. (Continuing Education).
- 2007 Sep 27 Treatment of symptomatic and asymptomatic carotid and vertebral artery stenosis. Neuroscience Rounds, Sunnybrook Health Sciences Centre. Toronto, Ontario, Canada. (Continuing Education).
- 2007 Sep 7 Annual Ontario Stroke Day. Le Royal Meridien King Edward Hotel. Toronto, Ontario, Canada. (Continuing Education).

5. OTHER

Workshops

- 2007 Feb 7 **Chair.** Issues and controversies in acute stroke management: The expert debate continues. CME Symposium. Toronto, Ontario, Canada.
- 2000 Jan **Co-Director (Clinical).** Stroke Diagnosis and Management, year 1 course. (As course co-director with Dr Raul C Rey, I had major responsibilities for course design for the clinical component of the course. This included several problem-based learning cases, clinical seminars, and discussion of manuscripts). Faculty of Medicine, University of Toronto.

Other Presentations

Invited Speaker.

H. Teaching and Design

1. INNOVATIONS AND DEVELOPMENT IN TEACHING AND EDUCATION

- 2011 Jul - present iScore web tool, Multilevel Education, Faculty of Medicine, Dept of Medicine, Neurology
Tool to educate residents and fellows how to estimate outcomes after an acute ischemic stroke.
- 2008 Jul - present Diagnosis and Management of Cerebral Venous Sinus Thrombosis, Multilevel Education, American Heart Association, Stroke Council
Chair. A Scientific Statement for Health Professionals From a Special Writing Group of the American Heart Association Stroke Council (AHA).
- 2008 Jul - present Stroke Fellowship Program, Postgraduate MD, Faculty of Medicine, Dept of Medicine, Neurology, St. Michael's Hospital
Director.
- 2007 Jul 1 - present Stroke Case Conference, Multilevel Education, Faculty of Medicine, Dept of Medicine,

Neurology, St. Michael's Hospital
Chair. Case-based interactive presentation/discussion about different aspects of cerebrovascular disease.

Goal: To update health care professionals who have a special interest in cerebrovascular diseases, on clinical and management in the field of stroke at St. Michael's Hospital

Objectives:

- 1) *Discuss clinical issues and controversial topics related to cerebrovascular diseases (with special emphasis in ischemic stroke)*
- 2) *Integrate knowledge about new research developments related to stroke*
- 3) *Debate common and peculiar presentation of classic stroke syndromes*
- 4) *Translate controversial topics into patient care by using a case-based problem solving approach.*

- 2007 Jul 1 - present Stroke Journal Club, Multilevel Education, Faculty of Medicine, Dept of Medicine, Neurology, St. Michael's Hospital
Chair.
- 2006 Jul - present Stroke Research Program, Postgraduate MD, Faculty of Medicine, Dept of Medicine, Neurology, St. Michael's Hospital
Director. The stroke education research program is a new initiative for the Division of Neurology at St. Michael's Hospital. The program began with the appointment of Dr. Gustavo Saposnik as a Clinician-Scientist in the Department of Medicine. The program is in it's fourth year and contributes to research in Stroke. The Stroke Research Program is in partnership with the Applied Health Research Center (AHRC) at St. Michael's Hospital, the Institute for Clinical Evaluative Sciences (ICES), the Stroke Outcomes Research Canada (SORCan) to conduct observational and experimental studies.
This is a unique experience for undergraduate students, residents and clinical fellows to be exposed and participate in stroke research under the supervision of Dr. Gustavo Saposnik.
- 2002 Faculty of Medicine, Dept of Medicine
Evidence-based medicine in Stroke – Case discussions.
- 2001 Faculty of Medicine, Dept of Medicine
Standardized clinical algorithm for the diagnosis of brain death.
- 2000 Faculty of Medicine, Dept of Medicine
Problem-solving approach for undergraduate Neurology Course.
- 1999 Faculty of Medicine, Dept of Medicine
Southern Buenos Aires Stroke Project (electronic clinical database).

I. Research Supervision

1. PRIMARY OR CO-SUPERVISION

Undergraduate Education

- 2012 Aug - present **Primary Supervisor.** co-op. Jennifer Wu. Supervisee Position: co-Op, Supervisee Institution: University of Waterloo. *Clinicians Judgement versus a risk stroke to predict stroke outcomes.* Completed 2012.
- 2009 Aug - present **Primary Supervisor.** BA. Sarah Sahib. Supervisee Position: Master Student, Supervisee Institution: St. Michael's Hospital. *Chocolate consumption and risk of Stroke.*
- 2009 Aug - present **Primary Supervisor.** BA. Wilson Kwong. Supervisee Position: Master Student, Supervisee Institution: St. Michael's Hospital. *Change in prescription patterns after the publication of clinical trials.*

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2011 Jan - 2012 Jun **Primary Supervisor.** Stephanie Sung. Supervisee Position: co-op, Supervisee Institution: University of Waterloo. *Clinics judgement versus a risk stroke to predict stroke outcomes.*

2007 Jul - 2009 **Co-Supervisor.** B. Sc. Alison Cheng. Supervisee Institution: Western University. *Rehospitalization after Stroke.*

Graduate Education

2013 Mar - present **Co-Supervisor.** Megan Hird. Supervisee Institution: University of Toronto. *Driving fitness after stroke.*

2013 Mar - present **Co-Supervisor.** MSc. Kristen Vesely. Supervisee Institution: University of Toronto. *Reporting to the Ministry of transportation after stroke: a retrospective analysis.*

2013 Jan - present **Co-Supervisor.** Ann Mansur. Supervisee Institution: Li Ka Shing Institute University of Toronto. *Kiinet vs Wii faming technology in Stroke Rehabilitation.*

2012 Aug - present **Co-Supervisor.** Sarah Tawadrus. Supervisee Position: master student, Supervisee Institution: York University University of Toronto. *Kinect vs Wii faming technology in Stroke Rehabilitation.*

2009 May - present **Primary Supervisor.** MEd. Chris Ahuja. Supervisee Position: Medical student, Queens University, Supervisee Institution: St. Michael's Hospital. *Socioeconomic status and risk of Stroke.* Awards: John F. Sparks Award (Queens University).

Undergraduate MD

2013 Jan - 2013 Apr **Primary Supervisor.** Josh To. Supervisee Position: co-op undergraduate, Supervisee Institution: University of Waterloo. *Stroke Journal: What gets published.*

Postgraduate MD

2013 Dec - present **Primary Supervisor.** Subspecialty. David Fam. Supervisee Institution: University of Toronto. *Bilateral six nerve palsy.*

2013 Dec - present **Primary Supervisor.** Subspecialty. Mina Atia. Supervisee Institution: University of Toronto. *CMPA Medico-Legal complaints in Neurology.*

2013 Mar - present **Primary Supervisor.** Clinical Fellow. Jitphapa Pongmoragot. Supervisee Institution: St. Michael's Hospital. *Congestive Heart Failure and Stroke.*

2012 Nov - present **Primary Supervisor.** Subspecialty. Jenny Tsai. Supervisee Institution: University of Toronto. *Adherence to guidelines after discharge from an acute ischemic stroke.*

2012 May - present **Primary Supervisor.** Subspecialty. Davar Nikenshan. Supervisee Institution: University of Toronto. *The iScore predicts clinical outcomes after stroke in patients with and without diabetes.*

2012 Jan - present **Primary Supervisor.** Subspecialty. Davar Nikenshan. Supervisee Institution: University of Toronto. *Salivary amylase in acute stroke and coronary syndrome: a pilot study.*

2009 Nov - present **Co-Supervisor.** Core Program. Ivan Ying. Supervisee Position: PGY1, Supervisee Institution: Western University. *Risk of Ischemic Stroke in Association With Non-alcoholic Fatty Liver Disease.*

2009 May - present **Primary Supervisor.** Subspecialty. Krystyna Skrabka. Supervisee Position: Stroke Education, Supervisee Institution: St. Michael's Hospital. *Internal Stroke Code.*

2009 May - present **Primary Supervisor.** Subspecialty. Jaqueline Willems. Supervisee Position: Manager, Stroke Program at St. Michael's Hospital, Supervisee Institution: St. Michael's Hospital. *Internal Stroke Code.*

2008 Sep - present **Primary Supervisor.** Subspecialty. Olga Fynlanson. Supervisee Institution: University of Toronto. *Health system determinants of stroke outcome - Pneumonia project.*

2006 Oct - present **Primary Supervisor.** Subspecialty. Judith Barnaby. Supervisee Position: RN practitioner Program, Supervisee Institution: University of Buffalo. *"Stroke Box".*

2012 Mar **Primary Supervisor.** Clinical Fellow. Jitphapa Pongmoragot. Supervisee Institution: St.

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2011 Jul - 2012 Jun Michael's Hospital. *Virtual reality using Kinect vs. Nintendo wii in stroke rehabilitation.*
Primary Supervisor. Clinical Fellow. Jitphapa Pongmoragot. Supervisee Institution: St. Michael's Hospital. *Bilateral Medullary infarction.*

2011 Jul - 2012 Jun **Primary Supervisor.** Clinical Fellow. Jitphapa Pongmoragot. Supervisee Institution: St. Michael's Hospital. *Intracerebral hemorrhage in cerebral venous thrombosis.*

2009 Oct **Primary Supervisor.** Clinical Fellow. Sujatha Parthasarathy. Supervisee Institution: St. Michael's Hospital. *Rehospitalization after stroke.*

2009 Oct **Primary Supervisor.** Clinical Fellow. Sujatha Parthasarathy. Supervisee Institution: St. Michael's Hospital. *Hemicraniectomies after stroke: a multicentre cohort study.*

2008 Aug - 2009 Aug **Primary Supervisor.** Subspecialty. Khalid Al-Hassan. Supervisee Position: Stroke Fellow, Supervisee Institution: St. Michael's Hospital. *Stroke unit benefit by Stroke Subtype.*

Other

2012 Jul - 2013 Jul **Primary Supervisor.** Dr. Tai Hwan Park. Supervisee Position: Visiting Professor of Neurology (South Korea), Supervisee Institution: St. Michael's Hospital. *Validation of the iScore in an Asiatic Population using the Korean Stroke Registry.*

2011 Aug - 2013 Jul **Primary Supervisor.** Jitphapa Pongmoragot. Supervisee Institution: St. Michael's Hospital. *1. Pulmonary embolism and stroke, 2. Hemorrhage in cerebral venous thrombosis, 3. Bilateral medullary infarctions.*

2001 - 2002 **Primary Supervisor.** Postdoctoral Studies. Dr. Marianna DiEgidio.

2001 - 2002 **Primary Supervisor.** Postdoctoral Studies. Dr. Natalia Bohorquez.

2001 - 2002 **Primary Supervisor.** Postdoctoral Studies. Dr. Roberto Saizar.

2000 - 2001 **Primary Supervisor.** Postdoctoral Studies. Dr. Andrea Franco.

2000 - 2001 **Primary Supervisor.** Postdoctoral Studies. Dr. Jorge Maurino.

1999 - 2000 **Primary Supervisor.** Postdoctoral Studies. Dr. Leonardo Gonzalez.

1999 - 2000 **Primary Supervisor.** Postdoctoral Studies. Dr. Adriana Luraschi.

2. OTHER SUPERVISION

Graduate Education

Secondary Supervisor

2005 **MSc.** Jason Dang. Supervisee Institution: U of Waterloo. *"Epidemiology of coma across Canada".*

Postgraduate MD

Thesis Committee Member

2009 Nov **Clinical Fellow.** Dr. James Marriot. *Physicians Profile and Multiple Sclerosis therapy.*

2009 Nov **Clinical Fellow.** Dr. Kirsteen Burton. *Role of imaging in Acute Stroke care.*

J. Creative Professional Activities

1. PROFESSIONAL INNOVATION AND CREATIVE EXCELLENCE

2010 - 2011 iScore Webtool/iScore iPhone version.
The IScore (Ischemic Stroke Risk score) is a recently developed and validated tool to assist

clinicians to estimate the risk of death at 30-day, at 1-year (Circulation 2011; 123: 739-49) , and functional outcomes (Stroke 2011 in press) during the initial assessment in the Emergency department or early after hospital admission for patients with an acute ischemic stroke. The iScore help categorizes patients with an acute ischemic stroke from very low to very high average risk, using clinical parameters and comorbid conditions, including: age, sex, stroke severity, stroke subtype, smoking status, preadmission dependency, and the presence or absence of atrial fibrillation, heart failure, previous myocardial infarction, cancer, renal failure, and hyperglycemia on admission. Following the acceptance of a publication in AHA Stroke Journal, we are updating the web to also allow the estimation of functional outcomes (death or disability at discharge, death or institutionalization at discharge). More recently, the iScore showed to predict clinical response to thrombolysis in a large observational study and also validated using data from a randomized clinical trial (NINDS tPA Stroke trial). The iScore web (www.sorcan.ca/iscore) and iPhone application are objective tools to stratify patients and estimate the risk of a poor functional outcome after an ischemic stroke. It may be used to discuss prognosis, and guide end-of-life care and discharge planning. From the health care perspective, the iScore may be used to help policymakers plan resources, which may result in optimized access to stroke care and rehabilitation services.

2008 Jan 1 - 2009 Jun

Acute Stroke Sheets.

Background: Medical information recorded in charts on stroke patients is heterogeneous. Relevant information is usually missed.

Rationale: To create a standardize assessment stroke sheet to assist Neurology residents and Staff document relevant information on patients presenting with an acute stroke.

Intervention / Activities: Development of the Acute Stroke Worksheet

Outcomes: To create a screening sheet to standardize the physician's assessment of patients presenting with an acute stroke.

Next Steps: Assessment of Acute Stroke Sheet use.

The acute stroke forms will provide standardized assessment in the management of stroke patients, clinical information and decision making of thrombolytic therapy.

2007 Nov 1 - 2012 Jun

Virtual reality in Stroke Rehabilitation.

As stroke increase with age, with the aging of the population, it is expected an increase in the prevalence of stroke. Consequently, more and more Canadians will face the challenge of managing functional impairments. Rehabilitation services are an increasingly large and important aspect of health care, especially after stroke. The well-documented shortage in rehabilitation providers and resources across the province has challenged the provision of adequate and appropriate rehabilitation services to stroke survivors. Interestingly, virtual reality has emerged as an alternative opportunity for stroke rehabilitation.

We completed a pilot study, a meta-analysis and now are currently funded to determine the effectiveness of virtual reality in stroke rehabilitation.

I am leading EVREST Multicenter (Effectiveness of Virtual reality Exercises in Stroke Rehabilitation), a randomized, controlled study to systematically test virtual reality technology (using Wii gaming system) (<http://www.nintendo.com/wii/what>) as neurorehabilitation therapy among patients who had experienced a first stroke within 3 months prior to enrolment.

If proven to be effective, the use of virtual reality technology using Wii gaming system has a broad range of potential outcomes and benefits. At the patient level, there are opportunities for new exciting mode of stroke rehabilitation that may be undertaken in various clinical and non-clinical settings. The engagement and challenges offered through a gaming interface may foster patient motivation and participation.

At the system level, the identification of relatively low-cost resources those are effective in promoting function recovery after stroke

The results of this study can be transferred to practice across the province as well as nationally and internationally. Moreover, special software can be developed for neurorehabilitation post-stroke. While this study is focused on rehabilitation there may be implications for sectors of the continuum of care, namely stroke prevention and health promotion.

2007 Jul 1 - 2008 Jun

Stroke Box.

Background: Stroke is one of the most prevalent and devastating conditions. Stroke is a neurological emergency that can affect one particular area of the brain. It can be caused by a burst blood vessel (hemorrhagic stroke) or when a vessel is obstructed by a blood clot (ischemic stroke). Ischemic stroke can be treated with (clot busting) thrombolytic drugs, such as alteplase, which is injected directly into a vein. To achieve best outcome, patients need to receive this medication within three hours after onset of stroke symptoms.

Acute ischemic stroke is a treatable condition that requires urgent specialist attention because both thrombolytic drug treatment (t-PA) and specialist care of acute ischemic stroke have been shown to influence survival as well as recovery. For every minute delay in receiving t-PA, the likelihood of good recovery decreases by 1%. A major limitation in the administration of t-PA is time delay. To ensure that patients benefit from thrombolysis within a three hour window requires organization and coordination of all emergency services involved.

Rationale: To implement a quality improvement strategy ("Stroke Box") to facilitate timely access to thrombolysis for improving patients' outcomes.

Theoretical Framework: The "Stroke Box" is a portable, comprehensive source of information and equipment which makes it possible to carry out rapid assessment of an acute stroke victim and initiate thrombolysis therapy, where appropriate, without any loss of time. The treatment window for an acute ischemic stroke patient is less than three hours. Treatment is often delayed as doctors/nurses gather the required information, treatment equipment and medication. (please see appendix in the protocol document). To ensure successful outcomes the thrombolysis procedure must be made as simple as possible. Supports need to be put in place to ensure that staff are organized and trained in the use of t-PA.

The use of the "Stroke Box" which contains elements to increase efficiency (written guidelines, indications, contraindications, dose table, thrombolytic drug, antihypertensive agents, preventative for anaphylaxis drugs, etc.) will reduce set-up time and therefore increase the number of t-PA candidates, ultimately improving patient outcomes.

In summary, this project consists in a quality improvement strategy to optimize the accessibility to thrombolysis for patients with acute stroke.

Target Audience: Health care professionals working in the ED, Residents, Staff, Nurses
Intervention / Activities: Stroke Box.

The implementation of this quality improvement strategy will provide greater efficiency in assessing and preparing patients who are candidates for treatment with t-PA. Reducing preparation time through efficient organization will increase the number of patients that will fit into the 3 hour treatment window. Shortening the length of time before the thrombolytic drug is administered will ultimately improve patients' outcomes.

2. CONTRIBUTIONS TO THE DEVELOPMENT OF PROFESSIONAL PRACTICES

2012 Dec - present

Evaluating Clinician judgment in predicting outcome after an acute ischemic stroke. We compared the accuracy of clinicians and a risk score (iScore) to predict observed outcomes following an acute ischemic stroke.

Methods: The JURaSSiC (Clinician JUDgment vs. Risk Score to predict Stroke outComes)

study assigned 111 clinicians with expertise in acute stroke care to predict the probability of outcomes of 5 ischemic stroke case scenarios. Cases (n=1,415) were selected as being representative of the 10 most common clinical presentations from a pool of over 12,000 stroke patients admitted to 12 stroke centers. The primary outcome was prediction of death or disability (mRS \geq 3) at discharge within the 95% confidence interval (CI) of observed outcomes. Secondary outcomes included 30-day mortality and death or institutionalization at discharge.

Results: Clinicians made 1661 predictions with overall accuracy of 16.9% for death or disability at discharge, 46.9% for 30-day mortality, and 33.1% for death or institutionalization at discharge. In contrast, 90% of the iScore-based estimates were within the 95% CI of observed outcomes. Nearly half (n=53 of 111; 48%) of participants were unable to accurately predict the probability of the primary outcome in any of the 5 rated cases. Less than 1% (n=1) provided accurate predictions in 4 of the 5 cases and none accurately predicted all 5 case outcomes. In multivariable analyses, the presence of patient characteristics associated with poor outcomes (mRS \geq 3 or death) in previous studies (older age, high NIHSS score and non-lacunar subtype) were associated with more accurate clinician predictions of death at 30-days (OR 2.40, 95%CI 1.57-3.67) and with a trend for more accurate predictions of death or disability at discharge (OR 1.85, 95%CI 0.99-3.46).

Conclusions: Clinicians with expertise in stroke performed poorly compared to a validated tool in predicting the outcomes of patients with an acute ischemic stroke. Use of the risk stroke outcome tool may be superior for decision-making following an acute ischemic stroke. Results from this randomized study informed about elements used by clinicians in predicting stroke outcomes. Moreover, this study will reveal the variability of outcomes estimations given by clinicians compared to the iScore (predictive tool) and real outcomes (n=1440). This study demonstrates the benefits of adding a validated tool to assist clinicians estimate outcome early after hospitalization for an acute ischemic stroke.

3. OTHER

2012 Oct - present

Evaluation of STROKE Journal database.

- 1) What is being published?
- 2) English Proficiency, GDP and acceptance
- 3) Factors influencing Editorial decisions and Reviewers' recommendations.