

# Carolyn Nessim MD, MSc, FRCSC, FACS

Surgical Oncologist, Assistant Professor of Surgery, Clinician Investigator,  
Program Director Surgical Oncology Fellowship

The Ottawa Hospital – University of Ottawa – The Ottawa Hospital Research Institute

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## LANGUAGES

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- English
- French

## EDUCATION

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- 2012-2013                    **Surgical Oncology Fellowship**  
**Peter MacCallum Cancer Center**, Melbourne, VIC, Australia  
Melanoma, Soft Tissue Sarcoma  
Supervisors: Prof. Michael Henderson and Mr. David Speakman
- 2010-2012                    **Surgical Oncology Fellowship**  
**Society of Surgical Oncology**  
**University of Toronto**. Toronto, ON, Canada
- 2009-2014                    **Masters of Science, Biomedical Sciences**  
**University of Montreal**, Montreal, QC, Canada  
Institute of Research of Immunology and Cancerology  
Supervisors: Sylvie Mader PhD, André Robidoux MD  
*Thesis: Development of a multi-gene PCR kit for the prediction of response to hormone therapy in Breast Cancer*
- 2004-2009                    **General Surgery Residency**  
**University of Montreal**, Montreal, QC, Canada
- 2000-2004                    **Medical Doctorate**  
**University of Montreal**, Montreal, QC, Canada
- 1995-1998                    **Bachelors of Science, Occupational Therapy**  
**McGill University**, Montreal, QC, Canada
- 1994-1995                    **Bachelors of Science, Physiology** (1 year completed)  
**McGill University**, Montreal, QC, Canada

## **APPOINTMENTS**

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2013-current	<b>Surgical Oncologist - General Surgeon</b> Specialized in Melanoma, Soft Tissue Sarcoma/GIST, Gastric Cancer The Ottawa Hospital, Ottawa, ON, Canada
2014-current	<b>Assistant Professor of Surgery</b> University of Ottawa, Ottawa, ON, Canada
2014-current	<b>Clinician Investigator (Cancer Therapeutics Program)</b> Ottawa Hospital Research Institute (OHRI) Ottawa, ON, Canada
2016-current	<b>Program Director - Surgical Oncology Fellowship Program</b> The Ottawa Hospital, University of Ottawa Royal College of Physicians and Surgeons of Canada and Society of Surgical Oncology Accredited Subspecialty Program

## **LEADERSHIP**

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2014-current	<b>Chair - Melanoma Communities of Practice</b> , The Champlain LHIN Region
2017-current	<b>Co-Chair - Gastric Cancer Communities of Practice and Transformation Program</b> , The Champlain LHIN
2014-current	<b>Chair and Coordinator- Canadian Residency Matching Service (CaRMS)</b> General Surgery Residency Program, University Ottawa
2016-2018	<b>Surgeon Mentor - Junior Residents Mentorship Program</b>

## **NATIONAL AND INTERNATIONAL COLLABORATIONS**

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2014-current	Member of the <b>Ontario Cancer Research Ethics Board (OCREB)</b>
2016-current	<b>Cancer Care Ontario - Melanoma Guidelines Working Group</b>
2015-current	<b>Trans-Atlantic Retroperitoneal Sarcoma Working group (TARPSWG)</b>
2017-current	<b>Global Melanoma Research Network (GMRN)</b>
2016-current	<b>Canadian Abdominal Sarcoma Consortium (CASC)</b>
2017-current	<b>Desmoid Expert Registry - Desmoid Tumour Foundation of Canada</b>

2016-current

Member of the **Canadian Cancer Trials Group (CCTG)**

## **PROGRAM DEVELOPMENT**

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2017-current

### **Gastric Cancer Communities of Practice (CoP) and Transformation**

- In the process of developing a CoP and Gastric Cancer Transformation program for the Champlain LHIN
- Co-Lead with Thoracic Surgery
- Launch pending

2014-2017

### **General Surgical Oncology Subspecialty Training Program**

- Developed the Program for the University of Ottawa and put it forth to PGME and Royal College of Physicians and Surgeon of Canada. Accepted in Feb 2016
- First Fellow started July 1, 2017

2014-2016

### **Melanoma Communities of Practice (CoP)**

- Developed the Melanoma CoP with surveys to the community and establishing this organization
- Launch was May 2016

2014-2016

### **Chair - Radioactive Seed Localization program** for non-palpable breast tumours – The Ottawa Hospital

- Developed the program transitioning our hospital from wire-guided lumpectomy to seed-guided lumpectomy
- Program began in April 2015

2013-2016

### **Co-Chair – Riverside Rapid Access Prophylactic Mastectomy Program, The Champlain LHIN Region**

- Helped develop and manage this program for high risk breast cancer patients to reduce their wait times for surgery with this innovative two surgeon team approach
- Program began in January 2014

2013-current

### **Chair – Rapid Access to lymph node biopsy** program for lymphoma

- Developed and manage this program to have rapid access to excisional biopsy for lymphoma patients to reduce wait times for these patients to expedite their care
- Program started in February 2015

## RESEARCH

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### Peer-Reviewed Publications

- Crawford, **Nessim C**, Weaver J, van Walraven C. Wait times for melanoma surgery: Is there an association with overall survival? *Ann Surg Oncol* 2017; 25(1): 265-270. doi. 10.1245/s10434-017-6146-2.
- Zhang Y, Cordeiro E, Seely J, Hefler J, Gravel D, Smylie J, Aro J, **Nessim C**. Radioactive Seed Localization vs. Wire-Guided Localization for non-palpable breast cancer: a Cost and OR efficiency analysis. *Ann Surg Oncol* 2017; 24(12): 3567-3573. doi. 10.1245/s10434-017-6084-z.
- Ambacher K, Ibrahim A, **Nessim C**. Ensuring a Safe and Qualitative Diagnostic Biopsy for Retroperitoneal Sarcomas. *UOJM* 2017; 7(1): 45-48.
- Lim R, Kielar AZ, El-Maraghi RH, Fraser MA, **Nessim C and** Thipphavong S. Multidisciplinary Retroperitoneal and Pelvic Soft Tissue Sarcoma Case Conferences: The Added Value Radiologists Can Provide. *Current Oncology* 2017; 24(3): 171-175. DOI: <https://doi.org/10.3747/co.24.3478>
- Head L, **Nessim C**, Boyd KU. Innovative model to optimize resource utilization and improve access to care for high-risk/BRCA+ breast cancer patients. *Can J Surg* 2016; 59(6):10.1503/cjs.001116 (Epub ahead of print). *Can J Surg* 2017; 60(1): 37-44.
- Sulaiman A, Sulaiman B, Khouri L, McGarry S, **Nessim C**, Arnaout A, Addison CL, Dimitroulakos J, Wang L. Both bulk and CSC subpopulations in TNBC are susceptible to Wnt, HDAC and ER $\alpha$  co-inhibition. *FEBS Lett.* 2016; 590(24): 4606-4616. doi: 10.1002/1873-3468.12496. (Epub 2016 Dec 9.)
- **Trans-Atlantic Retroperitoneal Sarcoma Working Group** (authors listed in alphabetical order **Nessim C** et al.). Management of Recurrent Retroperitoneal Sarcoma (RPS) – A Consensus Approach from the Trans-Atlantic RPS Working Group. *Ann Surg Oncol* 2016; 23(11): 3531-40. doi: 10.1245/s10434-016-5336-7. (Epub 2016 Aug 1.)
- Tsvetkova E, Marginean C *with* **Nessim C and** Verma S. Gastrointestinal Stromal Tumor (GIST) – Paving the Way for Modern Oncology – Epidemiology, Diagnosis, Treatment. *Oncology and Hematology Review* 2015; 11(1): 74–86 DOI: <http://doi.org/10.17925/OHR.2015.11.01.74>
- **Nessim C**, Winocour J, Holloway DP, Saskin R, Holloway CM. Wait times for breast cancer surgery: effect of magnetic resonance imaging and preoperative investigations on the diagnostic pathway. *J Oncol Pract.* 2015; 11(2): e131-8. doi: 10.1200/JOP.2014.002105. (Epub 2015 Feb 10.)
- **Nessim C**, Law C, McConnell Y, Shachar S, McKinnon G, Wright F. How often do Level III nodes bear melanoma metastases and does it affect patient outcomes? *Ann Surg Oncol* 2013; 20(6): 2056-64. doi: 10.1245/s10434-013-2880-2. (Epub 2013 Feb 1.)
- **Nessim C**, Sid ris L, Turcotte S, Vafiadis P, Lapostole AC, Simard S, Koch P, Fortier LP, Dub  P. The effect of fluid overload in the presence of an epidural on the strength of colonic anastomoses. *J Sur Res* 2013; 183(2): 567-79. doi: 10.1016/j.jss.2013.03.030.

- **Nessim C**, Bensimon C, Hales B, Laflamme C, Fenech D, Smith A. Surgical Site Infection Prevention: A qualitative analysis on an individualized audit and feedback model. *J Am Coll Surg* 2012; 215(6): 850-7. doi: 10.1016/j.jamcollsurg.2012.08.007.

### Peer-Reviewed Manuscripts Submitted

- Gawad N, Ibrahim A, Duffy M, Raiche I, **Nessim C**. Identifying narcissistic traits in general surgery residency applicants: go with your gut. Submitted. *Surgical Education*.
- Hasim MS, **Nessim C**, Villeneuve PJ, Vanderhyden BC and Dimitroulakos J. Activating Transcription Factor 3 as a Novel Regulator of Chemotherapy Response in Breast Cancer. Submitted. *International Journal of Cancer*
- Cooke C, MacDonald B, **Nessim C**, Singh S. Brushing up on barbeque tips: A case report of ingested metal brush bristles. Submitted. *Abdominal Radiology*
- Sulaiman A, McGarry S, Li L, Jia D, Oi S, Addison C, Dimitroulakis J, Arnaout A, **Nessim C**, Yao Z, Ji G, Gadde S, Li X, Lisheng W. Dual inhibition of Wnt and YAP signaling retards the growth of both mesenchymal and epithelial TNBC. Submitted. *European Journal of Cancer*
- Zahr S, Mukhtar L, Dayekh K, Niknejad N, Hanson JEL, Johnson-Obaseki S, Odell MJ, **Nessim C**, Goss GD, Dimitroulakos J. Inhibition of GGTase1 enhances tarceva efficacy in squamous cell carcinoma cells: Potential novel combination therapeutic approach. Submitted, *Oncotarget*.
- Yu A, Tran A, **Nessim C**, Ong M. Neoadjuvant therapy for stage III-IV melanoma: a systematic review of the literature and evaluation of future prospects, submitted to *Journal of Surgical Oncology*

### Book Chapters and Invited Articles

- **Nessim C**, Ferguson P, Gupta A, Catton C, Gladdy R. Retroperitoneal and Extremity Soft Tissue Sarcoma. Chapter in the *Toronto Surgical Oncology Manual*, 1<sup>st</sup> edition, published by Springer International Publishing, New York, USA, April 2012.
- **Nessim C**, Govindarajan A, McCart A. Peritoneal Malignancies. Chapter in the *Toronto Surgical Oncology Manual*, 1<sup>st</sup> edition, published by Springer International Publishing, New York, USA, April 2012.
- **Nessim C**, Rotstein L, Goldstein D, Sun A, Hogg D, McCready D, Ghazarian D. Princess Margaret Hospital: Melanoma Guidelines, PMH website, June 2012.

### Peer-Reviewed Oral Presentations

- Raut CP, Callegaro D, Barretta F, Rutkowski P, Blay J-Y, Lahat G, Strauss DC, Gonzalez R, Ahuja N, Grignani G, Quagliuolo V, Stoeckle E, de Paoli A, Pillarisetty V, **Nessim C**, Swallow CJ, Bagaria S, Canter R, Mullen J, Gelderblom HJ, Pennacchioli E, van Coevorden F, Cardona K, Miceli R, Gronchi A. Predicting Survival in patients undergoing resection for locoregionally recurrent retroperitoneal sarcoma: A study and nomogram from the Trans-Atlantic Sarcoma Working Group (TARPSWG).
  - *Connective Tissue Oncology Society Annual Meeting*, Maui, Hawaii, Nov 8-11, 2017.

- Gawad N, Raiche I, Ibrahim A, Duffy M, **Nessim C**. Identifying narcissistic traits in general surgery residency applicants: go with your gut
  - *University of Ottawa, Division of General Surgery Research Day*, Ottawa, Ontario, April 26, 2017
- Zhang Y, Cordeiro E, Seely J, Hefler J, Gravel D, Smylie J, Aro J, **Nessim C**. Radioactive Seed Localization vs. Wire-Guided Localization for non-palpable breast cancer: a Cost and OR efficiency analysis.
  - *Canadian Surgical Forum (CAGS) annual Meeting*, Victoria, British Columbia, Sept 14-16, 2017 (*CJS* Vol. 60 (4 Suppl 1) August/août 2017. DOI: 10.1503/cjs.010417).
  - *Canadian Breast Cancer Symposium*, Toronto, Ontario, June 23, 2017.
  - *American Society of Breast Surgeons Annual Meeting*, Las Vegas, Nevada, April 29, 2017 (*Ann Surg Oncol* (2017);24(2):S203-528).
  - *Canadian Society of Surgical Oncology Annual Meeting*, Toronto, Ontario, April 28, 2017 (*CJS* Vol. 60 (3 Suppl 1) June/juin 2017. DOI: 10.1503/cjs.005717).
  - *University of Ottawa, Division of General Surgery Research Day*, Ottawa, Ontario, April 26, 2017
- Berger-Richardson D, **Nessim C**, Burtenshaw S, Gladdy R, Gronchi A, Fiore M, Swallow C. Early and Late Complications of Percutaneous Biopsy of Retroperitoneal Masses at Three Tertiary Sarcoma Centers
  - *Society of Surgical Oncology Annual Meeting*, Seattle, Washington, March 15-18, 2017 (*Ann Surg Oncol* (2017) 24:S6–S202. DOI 10.1245/s10434-017-5785-7)
- Ibrahim A, Bryanton M, **Nessim C**, Ong M. The Impact of Symptoms at Metastatic Recurrence on Treatment Outcomes for Patients under Surveillance for Early-Stage Melanoma
  - *11<sup>th</sup> Canadian Melanoma Conference*, Whistler, British Columbia, Feb 2-5, 2017
- Crawford, **Nessim C**, Weaver J, van Walraven C. Association of wait time to surgical management with overall survival in Ontarians with melanoma.
  - *Canadian Surgical Forum (CAGS) annual Meeting*, Quebec City, Quebec, Sept 17-19, 2015. (*Can J Surg*, Vol. 58, (4 Suppl 2), August 2015—Abstracts, p. S229)
  - *University of Ottawa, Division of General Surgery Research Day*, Ottawa, Ontario, April 22, 2015
- Head L, **Nessim C**, Boyd KU. Innovative model to optimize resource utilization and improve access to care for high-risk/BRCA+ breast cancer patients.
  - *Canadian Society of Plastic Surgeons Annual Meeting*. Victoria, British Columbia, June 2-6, 2015. (*Can J Plast Surg* Vol 23 No 2 Summer 2015, p. 137)
- **Nessim C**, Law C, McConnell Y, Shachar S, McKinnon G, Wright F. How often do Level III nodes bear melanoma metastases and does it affect patient outcomes?
  - *Royal Australasian College of Surgeons 82nd Annual Scientific Congress*, Auckland, New Zealand, May 6-10, 2013. (*ANZ J. Surg.* 2013; 83 (Suppl. 1) 98–104)
  - *Canadian Melanoma Conference*, Banff, Alberta, February 21-24, 2013.
  - *Society of Surgical Oncology 65<sup>th</sup> Annual Cancer Symposium*, Orlando, Florida, March 21-25, 2012. (*Ann Surg Oncol* (2012) 19(Suppl 1): 1. doi:10.1245/s10434-012-2244-3).
  - *Canadian Society of Surgical Oncology Annual Meeting*, Toronto, Ontario, April 27, 2012.
  - *University of Toronto Annual Assembly of General Surgeons*, Toronto, Ontario, May 24, 2012.
- **Nessim C**, Trop I, Robidoux A, Julian TB, Mamounas T, Boileau JF. Can MRI accurately identify which patients with operable breast cancer will have a pathologic complete response after neoadjuvant therapy?

- *Royal Australasian College of Surgeons* 82nd Annual Scientific Congress, Auckland, New Zealand, May 6-10, 2013. (*ANZ J. Surg.* 2013; 83 (Suppl. 1) 7–16)
- *University of Toronto* Surgical Oncology Research Day. Toronto, Ontario, Feb 24, 2012.
- **Nessim C**, Blackstein M, Gladdy R. Desmoid Case Presentation with guest speaker Dr. Shreyaskumar Patel from MD Anderson.
  - *Canadian Society of Surgical Oncology* Annual Meeting, Toronto, Ontario, April 29, 2011.
- **Nessim C**, Fourati, S., Robidoux, A., Mader, S. The Development of a PCR genetic predictive tool for the response to hormone therapy in breast cancer.
  - *University of Toronto* Surgical Oncology Research Day. Toronto, Ontario, Feb 23, 2011.
  - *Montreal Biomarker Forum*, Montreal, Québec, February 25, 2010.
- **Nessim C**, Sidéris L, Turcotte S, Vafiadis P, Lapostole AC, Simard S, Koch P, Fortier LP, Dubé P. The effect of fluid overload in the presence of an epidural on the strength of colonic anastomoses.
  - 38<sup>th</sup> annual meeting of the *Quebec Surgical Association*. La Malbaie, Québec, June 1<sup>st</sup>, 2007.
  - Scientific Symposium of the *Université de Montréal Department of Surgery*, Montreal, Québec, April 27-28, 2006.

### Peer-Reviewed Poster Presentations

- Flaman A, **Nessim C**, Teo I, Gravel D, Purgina B. Utility of Core Needle Biopsy in Retroperitoneal Liposarcoma: A Fifteen Year Review.
  - *United States & Canadian Academy of Pathology's* Annual Meeting, Vancouver, British Columbia, March 17-23, 2018.
- Zhang Y, Cordeiro E, Seely J, Hefler J, Gravel D, Smylie J, Aro J, **Nessim C**. Radioactive Seed Localization vs. Wire-Guided Localization for non-palpable breast cancer: a Cost and OR efficiency analysis.
  - *Society of Surgical Oncology* Annual Meeting, Chicago, Illinois, March 21-24, 2018.
- Monteiro de Barros J, Rintoul-Hood O, Chetan M, Massey R, **Nessim C**, Swallow C, Myles S, vanHoudt W, Cardona K, Gronchi A and Ford S. A Multi-centre Retrospective Study of 408 Retroperitoneal, Abdominal and Pelvic Schwannomas: An interim report on future recommendations for management and surveillance.
  - *Connective Tissue Oncology Society* Annual Meeting, Maui, Hawaii, Nov 8-11, 2017.
- Gawad N, Raiche I, Ibrahim A, Duffy M, **Nessim C** Identifying narcissistic traits in general surgery residency applicants: go with your gut
  - *Canadian Surgical Forum (CAGS)* annual Meeting, Victoria, British Columbia, Sept 14-16, 2017 (*CJS* Vol. 60 (4 Suppl 1) August/août 2017. DOI: 10.1503/cjs.010417).
  - *University of Ottawa, Department of Surgery Collins Day*, Ottawa, Ontario, May 12, 2017
- Yu A, Tran A, **Nessim C**, Ong M. Neoadjuvant therapy for stage III-IV melanoma: a systematic review of the literature and evaluation of future prospects
  - *Canadian Surgical Forum*, Toronto, Ontario, Sept 10, 2016 (*Can J Surg*, Vol. 59, (4 Supple 1) - August 2016 – Abstracts, p. S141)
- **Nessim C**, Carty K, El-Sayed S. IMRT delivery of preoperative, high dose radiotherapy to a large volume, with Simultaneous Integrated Boost (SIB) in retroperitoneal sarcomas: The Ottawa experience

- *Toronto International Sarcoma Symposium*, Toronto, Ontario, June 10, 2016
- **Nessim C**, Trop I, Robidoux A, Julian TB, Mamounas T, Boileau JF. Can MRI accurately identify which patients with operable breast cancer will have a pathologic complete response after neoadjuvant therapy?
  - ASCO Annual Meeting, Chicago, Illinois, June 1-5, 2012. (*J Clin Oncol* 30, 2012 (suppl; abstr 616))
- **Nessim C**, Winocour J, Holloway DP, Saskin R, Holloway CM. Wait times for breast cancer surgery: effect of magnetic resonance imaging and preoperative investigations on the diagnostic pathway
  - *American Society of Breast Surgeons* 14<sup>th</sup> Annual Meeting. Phoenix, Arizona, May 1-6, 2012. (*Ann Surg Oncol* (2012) 19(Suppl 2): 181. doi:10.1245/s10434-012-2344-0)
  - *University of Toronto Annual Assembly of General Surgeons*, Toronto, Ontario, May 24, 2012.
- **Nessim C**, Girouard MH. Retroperitoneal Sarcoma: a case report.
  - 38<sup>th</sup> annual meeting of the *Quebec Surgical Association*. La Malbaie, Quebec, June 1<sup>st</sup>, 2007.

### Peer-Reviewed Video Session Oral Presentations

- **Nessim C**, Garneau P. Giant Splenic Pseudocyst: Laparoscopy.
  - Scientific Symposium of the *Université de Montréal Department of Surgery*, Montreal, Québec, April 16-17, 2007.

### Research projects in Progress

#### *Sarcoma/GIST*

- **Nessim C**, Gronchi A and TARPSWG: Consensus Guidelines on the Management of Multifocal Recurrent and Metastatic Retroperitoneal Soft Tissue Sarcoma
- **Nessim C**, Gronchi A and TARPSWG: An analysis of the outcomes of patients with resected Recurrent Retroperitoneal Sarcoma and the creation of a Nomogram to predict outcome
- **Nessim C**, Gronchi A and TARPSWG: RESAR – An International Prospective Registry of patients with Primary Retroperitoneal Soft Tissue Sarcoma
- **Nessim C**, Ford S and TARPSWG: An analysis on Schwannoma of the Abdomen, Retroperitoneum and Pelvis, a Multi-institutional international study
- **Nessim C**, Tseng W and TARPSWG: Evaluation of the need for Whipple's Procedure in the Resection of Retroperitoneal Soft Tissue Sarcoma.
- Berger-Richardson D, **Nessim C**, Burtenshaw S, Gladdy R, Gronchi A, Fiore M, Swallow C. Early and Late Complications of Percutaneous Biopsy of Retroperitoneal Masses at Three Tertiary Sarcoma Centers
- Ambacher K, Cordeiro E, Auer R, Purgina B, Fraser M, Burtenshaw S, Swallow C, **Nessim C**. Quality measures to ensure a safe and effective biopsy of retroperitoneal lesions
- Boulos M, **Nessim C**, Chatterjee. Improved sample quality obtained by EUS-guided sink compared to FNA for foregut subepithelial lesions.



- Auer R, Verma S, Nicholas G, El-Sayed S, Caudrelier JM, **Nessim C**. Creation of a Prospective Database for Soft Tissue Sarcoma and GIST and Analysis of Quality of Life at The Ottawa Hospital.
- Ardolino M, Ong M, **Nessim C**. Evaluating oncolytic viruses and the role of NK cells in immunotherapy for Melanoma and Liposarcoma
- Lo B, Chatterjee A, **Nessim C**. Creating Organoids as an innovative GIST model for study

### *Melanoma / Skin Cancer*

- **Nessim C**, Johnson S, Petrella T, Wright F et al. CCO Guideline – Wide local excision and sentinel node biopsy for primary melanoma of the extremities, trunk, head and neck
- **Nessim C**, Johnson S, Petrella T, Wright F et al. CCO Guideline – Treatment of In-transit metastases of malignant melanoma
- **Nessim C**. Society of Surgical Oncology Education SCORE module for Surgical Oncology Fellows on the Guidelines for the use of Sentinel Lymph node biopsy in melanoma
- **Nessim C** (I am the PI at Ottawa Hospital Cancer Center site of this multi-institutional trial) Petrella T, Wright F, Song X, Ong M, Cheema P, Shachar S, Look-Hong N, Spatz A, Mihalciou C.: A Pilot Study of the neo-adjuvant use of Vemurafenib plus Cobimetinib (GDC-0973) in patients with BRAF mutant melanoma with palpable lymph node metastases.
- **Nessim C**, Paull G, Pang G, Helyer L, Kwan M, Wright F. Squamous Cell Carcinoma with local-regional metastases to Inguinal or Axillary Lymph Nodes: An Analyses of Outcomes
- **Nessim C**, Gibson T, Ong M, Song X, Ernst S. Participation in the Global Melanoma Research Network Melanoma Registry
- **Nessim C**, Temple C, Ernst S. The outcome of patients having had IL-2 intralesional injection therapy for in-tranist melanoma
- Ardolino M, **Nessim C**. Evaluating the resistance to immunotherapy via NK cells in melanoma
- Ibrahim A, Bryanton M, **Nessim C**, Ong M. The Impact of Symptoms at Metastatic Recurrence on Treatment Outcomes for Patients under Surveillance for Early-Stage Melanoma
- Keller B, **Nessim C**, Beecker J, Bell J. Bioengineering Vaccinia Virus-Based oncolytics for the Treatment of Malignant Melanoma
- Lo B, Weatherhead L, **Nessim C**, Ong M. Pilot Assessment of a Novel Gene Expression Profiling Platform to predict Metastatic Spread for Sentinel-Lymph Node Negative Cutaneous Melanoma
- Stuleanu T, Lo B, **Nessim C**. Understanding the Biology and Immunology of Oligometastatic and Unknown Primary melanoma : a genetic analysis
- Momtazi M, Baker L, Litvak A, Ibrahim A, **Nessim C**. LYMPHA: Eliminating the Burden of Lymphedema in Patients Requiring Nodal Dissection: A Prospective Trial

- Johnson S, Hetu J, Younan R, Patocskai E, Mathieson A, Wright F, Easson A, Heberd P, McKinnon G, Hamilton T, MacNeil A, **Nessim C**. The outcome of patients with Merkel Cell Carcinoma: A Pan-Canadian Review.

#### *Breast/Quality/Education/Other*

- **Nessim C**, Trop I, Robidoux A, Julian TB, Mamounas T, Boileau JF. Can MRI accurately identify which patients with operable breast cancer will have a pathologic complete response after neoadjuvant therapy?
- Martel A, Ibrahim A, **Nessim C**. Use of a template progress note in general surgery to enhance efficiency, communication, quality of documentation and hospital reimbursement: a pilot study.
- Litvack A, Dingley B, **Nessim C**. Outcomes of Palliative Surgery at The Ottawa Hospital in the last 5 years.

### **Invited speaker – presentations**

#### *International Presentations*

- Moderator of Podium Abstracts in Soft Tissue Sarcoma
  - Society of Surgical Oncology Annual Meeting, Chicago, Illinois, March 21-24, 2018.
- Moderator of Podium Abstracts in Soft Tissue Sarcoma
  - Connective Tissue Oncology Society Annual Meeting, Maui, Hawaii, Nov 8-11, 2017
- The approach to melanoma In-transit disease.
  - Loco-Regional Melanoma Conference. Melbourne, Australia – Aug 26-27, 2016
- Breast Tumour Board – Managing complex cases of Breast cancer
  - World Congress of Surgery – Bangkok, Thailand, Aug 23-27, 2015
- The Surgical Management of Melanoma – presentation and panelist
  - International Multi-disciplinary Oncology conference – Ottawa, Ontario, June 19, 2015

#### *National Presentations*

- Update on Melanoma – General Surgery Exam Review Course for Canadian PGY5s
  - Canadian General Surgery Review Program – Toronto, Ontario, Feb 22, 2018.
- Invited Speaker at the Strides for Melanoma – Awareness for Melanoma Walk
  - Melanoma Network of Canada– Ottawa, Ontario, Sept 24<sup>th</sup>, 2017
- Moderator – Canadian Surgical Forum – General Surgery Post-graduate Review Course
  - Canadian Surgical Forum (CAGS) – Victoria, British Columbia, Sept 14-16, 2017
- The Use of Videofluorescence imaging (SPY ELYTE) for lymphatic mapping, anastomoses and flap reconstruction

- Canadian Surgical Forum (CAGS) – Victoria, British Columbia, Sept 14-16, 2017
- Update in Melanoma - General Surgery Post-graduate Review Course
  - Canadian Surgical Forum (CAGS) – Victoria, British Columbia, Sept 14-16, 2017
- The role of lymph node surgery in skin cancer – Merkel Cell and Squamous Cell Carcinoma
  - Canadian Surgical Forum (CAGS) – Victoria, British Columbia, Sept 14-16, 2017
- Invited Speaker at the National Launch of Be The Choice Website – Decision Aid for Breast Cancer patients
  - Be The Choice – Ottawa, Ontario, June 8, 2017
- Melanoma: A new perspective
  - Quebec Surgical Association Annual Meeting – Gatineau, Quebec, May 25-28, 2017
- Complex Melanoma Cases – Tumour Board Session
  - Toronto General Surgery Update – April 7-9, 2016
- Surgical challenges in General Surgery – Session Moderator
  - Canadian Surgical Forum (CAGS) – Quebec City, Quebec, Sept 17-19, 2015
- Mastering Multimodality Cancer Care – Melanoma
  - Canadian Surgical Forum (CAGS) – Quebec City, Quebec, Sept 17-19, 2015

### ***Local Presentations***

- The role of Biopsy for Retroperitoneal Sarcoma – Radiology Rounds
  - Ottawa, Ontario – March 28, 2018
- Carleton University Medical Sciences Career Day
  - Ottawa, Ontario – Oct 11, 2017
  - Ottawa, Ontario – Sept 28, 2016
- Beginning a research career - faculty appointment and establishing a research program – CIP Program
  - Ottawa, Ontario – Sept 18, 2017
- New Recommendations for Prophylactic Antibiotics in General Surgery
  - Peri-Operative Executive Committee, The Ottawa Hospital, Jan 26, 2017
- Melanoma: The Past, the Present and the Future
  - Family Medicine Cancer Conference Update – Ottawa, Ontario, Dec 9, 2016
- Dr. Mom – Women in Surgery
  - Federation of Medical Women, Ottawa, Ontario, November 3, 2016
- Surgical Management of Soft Tissue Sarcoma
  - The Ottawa Hospital Post-Anesthesia Care Unit Nursing Teaching Day – Nov 16, 2015
- Radioactive SEED localization for non-palpable breast tumours – a new approach
  - Civic OR Nurses In-Service – Ottawa, Ontario, March 4, 2105

- General OR Nurses In-Service – Ottawa, Ontario, March 11, 2015
  - The Ottawa Hospital Executive Board – Ottawa, Ontario, April 8, 2015
  - WHBC Clinic Nurses In-Service – Ottawa, Ontario, April 13, 2015
  - General Surgery Grand Rounds – Ottawa, Ontario, Sept 16, 2016
  - Nuclear Medicine City Wide Rounds – Ottawa, Ontario, October 28, 2015
  - Civic PAU/SDCU Nurses In-Service – Ottawa, Ontario, Nov 2, 2015
  - General PAU/SDCU Nurses In-Service – Ottawa, Ontario, Nov 13, 2015
- Surveillance in Melanoma
    - Melanoma Multidisciplinary Case Conference, Ottawa, Ontario, July 16, 2015
- Debate – Neo-adjuvant chemotherapy for operable Her-2 positive breast cancer
    - The Ottawa Hospital Breast Cancer Annual Retreat and Update – Ottawa, Ontario, November 20, 2014
- The Surgical Management of Melanoma
    - The Ottawa Hospital – General campus, OR nursing in-service, Jan 28, 2015
    - The Ottawa Hospital – Riverside campus, PACU nursing in-service, April 8, 2015
- Dr. Mom – Women in Surgery
    - Federation of Medical Women, Ottawa, Ontario, March 3, 2015
- Women in Surgery
    - Federation of Medical Women, Ottawa, Ontario, November 12, 2014
- Surgical Management of the Axilla for breast cancer in 2014 – presenter and panelist
    - Annual Ottawa Breast Imaging Update – Ottawa, Ontario, October 15-18, 2014
- The Impact of Early diagnosis on surgical management of breast cancer – presenter and panelist
    - Annual Ottawa Breast Imaging Update – Ottawa, Ontario, October 15-18, 2014
- General Surgery as a Career
    - SEAD Program – Ottawa, ON, June 19, 2014; June 16, 2015; June 14, 2016
- Surgical Management of Breast cancer
    - Family Medicine Cancer Conference Update – Ottawa, Ontario, May 16, 2014
- Surgical Management of Melanoma – presentation and workshop
    - Family Medicine Cancer Conference Update – Ottawa, Ontario, May 16, 2014
- Ostomies: Anatomy, Physiology and Indications
    - The Ottawa Hospital – Surgical Ward nurses annual update – Ottawa, Ontario, April 15, 2014
- Locally advanced Melanoma: the Past, the Present and Future Perspectives
    - Dermatology City Wide Rounds – Ottawa, Ontario, Jan 23, 2014
    - General Surgery Grand Rounds – Ottawa, Ontario, Dec 11, 2013
- Peritoneal Carcinomatosis – Investigation and management electively and in an emergency
    - General Surgery Grand Rounds, Ottawa, Ontario, June 11, 2014
- Mastectomy and Reconstruction for Breast cancer and High risk patients

- Plastic Surgery City Wide Rounds – Ottawa, Ontario, Jan 15, 2014
- Breast Reconstruction Awareness day – The Surgical Oncologist’s perspective
  - The Ottawa Hospital, Ottawa, Ontario, Oct 16, 2013
  - The Ottawa Hospital, Ottawa, Ontario, Oct 15, 2014
  - The Ottawa Hospital, Ottawa, Ontario, Oct 21, 2015

## MEDIA

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- 2017 Editorial Comment for Abstract at CTOS about improper sarcoma coding:  
<https://www.healio.com/hematology-oncology/sarcoma/news/online/%7Baa45271c-b0c6-4761-9592-9eb53463e503%7D/sarcoma-coding-often-inaccurate>
- 2017 Video for EPIC-HIS (New Electronic Health Information System)
- 2014-current Vice Chair of BE THE CHOICE – Online Website – non-profit organization - A Decision Aid for Breast Cancer Patients in Collaboration with Melanie Adrian et al.
- 2017 The Ottawa Hospital - #HelloMyNameIs Campaign
- 2017 Radio-Canada – Interview #ILookLikeASurgeon, a commentary about Women in Surgery (Interview)
- 2017 The Ottawa Hospital – Spotlight in the News– Riverside Rapid Access Prophylactic Mastectomy Program for High Risk breast cancer patients (Interview and Video)
- 2016 CTV TV – May 2, 2016, Melanoma Day – The ABCDE of Melanoma (Interview)
- 2015 CBC Documentary – Keeping Canada Alive Oct 25, 2015 – Breast Cancer patient (aired on CBC)
- 2015 CBC Journal Article about Women in Surgery – female surgeons still scarce in a male-dominated field by Vanessa Milne Nov 3, 2015
- 2013 Carleton University Video Report – Male Breast Cancer
- 2013 CFRA Radio Oct 31, 2013– Prophylactic Mastectomy Program (Interview)
- 2013 Radio-Canada CBC TV, Oct 27, 2013 – Prophylactic Mastectomy Program (Interview)

## AWARDS/GRANTS

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- Dec 2017 **Awarded top 2 Research Proposal for Wolves’ Den – Department of Surgery Research Day – The Ottawa Hospital, University of Ottawa, OHRI**  
 Stuleanu T, Ibrahim A, Petkiewicz S, Ardolino M, Lo B, **Nessim C.** T-cell receptor sequencing in Melanoma of Unknown Primary (MUP): Are MUPs more immunogenic?

- Sept 2017      **Awarded top 3 Oral Presentation – Canadian Association General Surgeons**  
Zhang Y, Cordeiro E, Seely J, Hefler J, Gravel D, Smylie J, Aro J, **Nessim C.**  
Radioactive Seed Localization vs. Wire-Guided Localization for non-palpable  
breast cancer: a Cost and OR efficiency analysis.
- April 2017      **Best Scientific Impact Award – American Society of Breast Surgeons**  
Zhang Y, Cordeiro E, Seely J, Hefler J, Gravel D, Smylie J, Aro J, **Nessim C.**  
Radioactive Seed Localization vs. Wire-Guided Localization for non-palpable  
breast cancer: a Cost and OR efficiency analysis.
- June 2017      **Honorarium Award for Best Article – UOJM**  
Ambacher K, Ibrahim A, **Nessim C.** Ensuring a Safe and Qualitative Diagnostic  
Biopsy for Retroperitoneal Sarcomas
- June 2017      **Audley Bodurtha Teaching Award**  
Voted Best Teacher of the Year in the Division of General Surgery
- 2017-2018      **Joan Sealy Trust (44 000\$) – Ottawa Tumour Tissue Resource Core Facility**
- 2016              **Leadership Award**  
Women’s Health Breast Center and Breast Disease Site Group  
Leadership and Dedication to the Radioactive Seed Localization Program
- 2016-2017      **Joan Sealy Trust “Pilot Assessment of a Novel Gene Expression Profiling Platform**  
to predict Metastatic Spread for Sentinel-Lymph Node Negative Cutaneous  
Melanoma (\$15 000)
- 2016-2017      **Joan Sealy Trust (40 000\$) – Evaluating Novel therapeutic approaches in ex-vivo**  
tumour tissue
- 2015-2016      **TOHAMO Grant for Course in Physician Leadership (1500\$)**
- April 2015      **Best Research Paper General Surgery Research Day – University of Ottawa**  
Crawford, **Nessim C,** Weaver J, van Walraven C. Association of wait time to  
surgical management with overall survival in Ontarians with melanoma.
- 2013-2015      **Joan Sealy Trust “Ottawa Tumour Tissue Resource Core Facility” (85 000\$)**
- 2013              **Detweiler Traveling Fellowship Award/Grant (10 500\$) from the Royal**  
College of Physicians and Surgeons of Canada
- 2009-2011      **Lily Foundation grant for MSc Thesis Project (30 000\$)**
- 2009-2010      **Centre de Recherche du Centre Hospitalier de L’Université de Montréal -**  
Bursary for MSc (40 000\$)
- 2005              **Canadian Medical Association - Leadership Forum Scholarship (1000\$)**
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## **ADMINISTRATIVE ROLES/COMMITTEES**

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2017-current	<b>Society of Surgical Oncology (SSO)</b> <ul style="list-style-type: none"><li>• Member and Section Editor of SCORE Committee</li><li>• Program Directors Committee</li></ul>
2016-current	<b>Cancer Care Ontario (CCO)</b> <ul style="list-style-type: none"><li>• Out-of-Country Clinical Review expert</li><li>• Melanoma Guidelines Working Group</li></ul>
2016-current	<b>Canadian Association of General Surgeons (CAGS)</b> <ul style="list-style-type: none"><li>• Continuing Professional Development Committee</li><li>• Canadian Society of Surgical Oncology Poster Judge at Canadian Surgical Forum (2015, 2016, 2017)</li></ul>
2014-current	<b>Canadian Society of Surgical Oncology (CSSO)</b> <ul style="list-style-type: none"><li>• Member at large – CSSO Executive Committee</li><li>• Oral Examiner for Fellows Annual Oral Exam</li><li>• Abstract Selection Committee for Annual Meeting (2014)</li></ul>
2017-current	<b>Connective Tissue Oncology Society (CTOS)</b> <ul style="list-style-type: none"><li>• Abstract Selection Committee for Annual Meeting</li></ul>
2016-current	<b>Royal College of Physicians and Surgeons of Canada (RCPSC)</b> <ul style="list-style-type: none"><li>• General Surgical Oncology Specialty Committee</li><li>• Detwelier Traveling Fellowship Selection Committee</li></ul>
2014-current	<b>The Ottawa Hospital (TOH)</b> <ul style="list-style-type: none"><li>• Member of the Regional Surgical Oncology Program Committee</li><li>• Lead - Extended DVT Prophylaxis Guideline for General Surgery</li><li>• Member of the Ottawa Hospital Health Records Committee</li><li>• Member of the Ottawa Hospital Peri-operative Antibiotic Working Group</li></ul>
2014-current	<b>University of Ottawa</b> <ul style="list-style-type: none"><li>• Member of the Post-Graduate Education Committee</li><li>• Chair of Surgical Oncology Residency Program Committee</li></ul>
2008-2009	<b>General Surgery Program – Centre Hospitalier de L'Universite de Montreal</b> <ul style="list-style-type: none"><li>• Chief Resident</li></ul>
2008-2009	<ul style="list-style-type: none"><li>• General Surgery Program Committee and Admissions Committee</li></ul>
2007-2009	<ul style="list-style-type: none"><li>• Board Member of the Administrative Council of the Centre Hospitalier de l'Université de Montréal (Hospital Board)</li></ul>
2000-2001	<ul style="list-style-type: none"><li>• Member of the Council of the Medical Student Association</li></ul>
2000-2001	<ul style="list-style-type: none"><li>• Social-Cultural Representative for the Medical Student Association</li></ul>
1995-1996	<b>Physical and Occupational Therapy Student Society – McGill University</b> <ul style="list-style-type: none"><li>• First year Class Representative</li></ul>
1996-1997	<ul style="list-style-type: none"><li>• Vice-President</li></ul>
1997-1998	<ul style="list-style-type: none"><li>• President</li></ul>

## **MEDICAL EDUCATION - RESEARCH AND TEACHING**

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- 2013-current      **Supervision of MSc and PhD Students**
- Thesis Advisory Committee for **PhD student**, Nawal Alsadi
  - Thesis Co-Supervisor for **PhD student**, Brian Keller, MD candidate
  - Thesis Co-Supervisor for **MSc student**, Alyson Crawford, MD
- 2015-current      **Supervision of Research Projects**
- **Medical Students:** Kristin Ambacher, Joshua Hefler, Gabrielle Paull, Francis Lebrun, Robin Weng, Anna Eva Kinio, Ashley Yu, Linden Head, Izabo Deschesnes, Sarang Gupta, Samuel Rodriguez-Qizilbash
  - **Residents:** Andre Martel, Nada Gawad, Alexandra Chow, Aubrey Litvack, Laura Baker, Tommy Stuleanu, Yimeng Zhang, David Berger-Richardson
  - **Fellows:** Brittany Dingley
  - **BSc Student:** Tyrus Gibson
- 2017                **Peer Journal Reviewer**
- Annals of Surgical Oncology (ASO)
  - European Journal of Surgical Oncology (EJSO) – Awarded Outstanding Reviewer
  - World Journal of Surgical Oncology (WJSO)
  - Canadian Journal of Surgery (CJS)
- 2014-current      **Department of Surgery and Division of General Surgery Research Day**
- Collins Day - Department of Surgery – Abstract Selection Committee and Judge
  - General Surgery Research Day Judge
  - General Surgery Research Day Moderator
- 2014-current      **General Surgery Program – University of Ottawa**
- Residency Program Committee
  - Chair CaRMS Committee
  - Mentor in Junior Mentorship Program
  - GS Lead of Surgical Exploration and Discovery Program (SEAD)
  - Residents as Teachers (RATS) Instructor
- 2010                **Course Lecturer**
- Guest lecturer for an M.Sc. level oncology class in the Molecular Biology Program, on Hormone Therapy in breast cancer (course number: BIM6064D) Université de Montréal
- 2005-2010        • Guest lecturer for a CEGEP level oncology class on the surgical management of breast, colon, rectal, lung and prostate cancer (course number: 411-AEK-04) College Ahuntsic
- 2005-2008        **Royal College of Physicians and Surgeons of Canada**
- Member of Credentials Committee
  - Member of Education Committee
  - Member of Accreditation Committee
  - Member of Regional Consultative Committee



- 2005-2008 **Post-graduate Medical Faculty of the University of Montreal**
- Accreditation Committee – internal visits of academic programs
  - Education Committee
- 2006-2007 **College of Physicians of Quebec**
- Member of Accreditation and Education Committee
- 2006-2007 **Federation of Medical Residents of Quebec**
- President of Academic Affairs – Specialties
  - Academic Affairs Executive Committee
  - General Council
- 2004-2008 **Medical Residents Association of the University of Montreal**
- Vice President of Academic Affairs – Specialties
  - Executive Committee
- 2013-current **Courses to Medical Students -**
- Skills Lab ½ day – SEAD Program - (June 2014-2017)
  - Back to Basics Session MS4– General surgery II - (March 2016; 2014)
  - MS3 Boot camp General Surgery Quiz - (Nov 25, 2014; June 3, 2014)
  - Benign and Malignant Breast Lesions - (Nov 17, 2015)
  - Suturing skills lab – (April 22, 2014)
  - GI Lecture – (Sept 18, 2013)
- 2013-current **Courses to Residents -**
- Senior Wet Pig Lab – (May 16, 2018)
  - Junior Cadaver Lab – (April 11, 2018)
  - PGY1-2 All Day Skills Lab and Lecture (Basic Oncology Principles in Melanoma and Sarcoma) – (Feb28, 2018)
  - Surgical Management of Skin Malignancies Med/Rad Onc– (Jan 3, 2018)
  - Academic Half Day - GIST – (Oct 11, 2017)
  - Senior Cadaver Lab – (April 12, 2017)
  - PGY1-2 All Day Skills Lab and Lecture (Basic Oncology Principles in Melanoma and Sarcoma) – (Oct 12, 2016)
  - PGY5 Oral Exams with focus on Surgical Oncology (Jan-May yearly)
  - The management of GIST (May 25, 2016)
  - PGY1-2 All day Skills Lab and Lecture (Diverticulitis) – (Dec 16, 2015)
  - Surgical Melanoma to Radiation and Medical Oncology (Dec 9, 2015)
  - Surgical Breast to Radiation and Medical Oncology (Oct 2014; Nov 2015)
  - Melanoma Session R5 (Sept 30, 2015)
  - R3 Teaching Breast Cancer (June 8, 2015)
  - Management Melanoma Gen Surg ½ day (May 27, 2015)
  - PGY1-4 Formal Oral Exams (April 25, 2015)
  - PGY1-2 All day Skills Lab and Lecture (Breast CA) – (Jan 7, 2015)
  - MOC Oral Exam PGY5 – (May 26, 2014)
  - Benign Breast Disease – (Nov 27, 2013)

- 2017-current      **Courses to Fellows –**
- Incorporating Research into your practice (May 25, 2018)
  - Gastric Cancer (May 4, 2018)
  - Soft Tissue Sarcoma (Jan 19, 2018)
  - Melanoma (Dec 22, 2017)
  - Leading Multidisciplinary Journal Club (Sept 6, 2017)
- 1995-1996      **Teacher's Assistant**
- Gross Anatomy Teacher's Assistant, McGill University.
- Teacher's Assistant, Gross Anatomy class involving cadaver dissection and preparing and grading mock exams

## **LICENSES AND CERTIFICATIONS**

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- |              |  |
|--------------|--|
| Current      | College of Physicians and Surgeons of Ontario                                  |
| 2012         | Australian Medical Council   |
| 2012-Current | Royal College of Physicians and Surgeons of Canada – General Surgical Oncology |
| 2009-Current | Royal College of Physicians and Surgeons of Canada – General Surgery           |
| 2009-Current | American Board of Surgery – General Surgery                                    |
| 2009         | College of Physicians and Surgeons of New Brunswick                            |
| 2009         | College of Physicians of Quebec  |
| 2006         | Licentiate of the Medical Council of Canada (LMCC Steps 1, 2)                  |
| 2006         | United States Medical License Exam (USMLE Steps 1, 2, 3)                       |

## **RESEARCH TRAINING**

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|------|--|
| 2016 | NIH – PHRP                                   |
| 2016 | PHIPA  |
| 2016 | CTOP   |
| 2016 | CITI – Division 5                            |
| 2016 | N2- Standard Operating Procedures            |
| 2014 | CITI - Canada GCP Curriculum Training        |
| 2014 | CITI – Canada Biomedical Curriculum Training |

2014 Division 5 training - OHRI

2014 TCPS2 –Core

## **PROFESSIONAL COURSES/TRAINING/CERTIFICATIONS**

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2017 Crucial Conversations Leadership Workshop

2016 CMA - Leadership Conference –

- Workshop #1 – Physicians stuck in the middle of change: How to lead and survive from the middle
- Workshop #2 – Medicine: Resiliency in the midst of change and innovation – Finding the simple side of complexity and the courage to lead
- Workshop #3 – Leading self: What could this look like for me?
- Workshop #4 – Creating high-impact messages

2015 Webcast – VTE Prophylaxis

2014 Mayo Clinic Radioactive Seed Localization Course

2014 ASBS Breast Oncoplastic Cadaver Course

## **VOLUNTEER (LOCAL/ INTERNATIONAL PROJECTS)**

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2018 **Dancing with the Docs**

- Dancing competition for Fundraiser for The Ottawa Hospital Foundation

2017 **Melanoma Network of Canada**

- Strides for Melanoma – Melanoma Walk for Awareness

2016 **Rattle Me Bones**

- Fund Raiser for Sarcoma

2015-Current **Sandy Hill Community Centre Outreach Clinic**

- Volunteer as Surgeon in the Clinic for underprivileged and high risk population in Ottawa

2000-2002 **International Social Action Committee – University of Montreal**

- President, 2000-2001
- Manager of The *Intermed* (Student Cafeteria) ongoing method of fundraising for the Committee, 2001-2002
- Promoted awareness of health issues in developing countries
- Organized social events for newly arrived immigrants to Canada
- Volunteered in a school for the blind in Calcutta, India with Mother Theresa Missionaries
- Volunteered in Fewa City Hospital and Green Pastures Leprosy Hospital in

## **SOCIETIES**

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- Canadian Society of Surgical Oncology (CSSO)
- Society of Surgical Oncology (SSO)
- American Society of Clinical Oncology (ASCO)
- Canadian Association of General Surgeons (CAGS)
- Connective Tissue Oncology Society (CTOS)
- American College of Surgeons (ACS)
- Canadian Medical Association (CMA)
- Ontario Medical Association (OMA)