

### **SUMMARY OF QUALIFICATIONS**

- A highly motivated, professionally accredited statistician, with over thirty years of proven success in a clinical cancer research setting.
- Co-author of over one hundred and fifty peer-reviewed journal articles
- Co-investigator/collaborator on numerous grants (e.g., NIH, CIHR, CCSRI).
- Versatile team player with excellent communication skills
- Meticulous, with a proven ability to meet deadlines
- Twenty years of management experience running the day-to-day operations of a Biostatistics Unit in a large academic hospital setting
- Award winning instructor of introductory statistics courses for non-statisticians
- Director of the MSc Biostatistics Program, Division of Biostatistics, Dalla Lana School of Public Health, University of Toronto since January 2018.

### **EMPLOYMENT HISTORY**

#### **Jan. 2018 – present**

Department of Public Health Sciences, Dalla Lana School of Public Health, University of Toronto

#### **Assistant Professor (Core Faculty) / MSc Program Director, Division of Biostatistics**

- Oversee the coordination and administration of all aspects of the program
- Teaching (CHL5210H, CHL5207Y, CHL5208Y)
- New Course Development (MSC 1030H Learning from Data – Introduction to Study Design and Statistical Analysis Methods – Fall 2021)
- Committee membership (MSc Admissions (Chair), Graduate Curriculum, Education)

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**Jan. 1998 - present**

Princess Margaret Cancer Centre, University Health Network.

**Manager, Biostatistics Department**

- Manage the day-to-day operations of a biostatistics unit comprised of 10 biostatisticians and one SAS programmer
- Allocate new requests to staff
- Hire employees, monitor, and evaluate staff performance
- Prepare annual budget and review finances monthly
- Oversee cost recovery process

**Nov. 1985 - present**

Princess Margaret Cancer Centre, University Health Network.

**Biostatistician**

- Provide experimental design and statistical analysis support in a collaborative setting.
- Prepare and review statistical sections for abstracts/manuscripts.
- Generate reports detailing statistical design and analysis.
- Participate regularly at professional development meetings.
- Provide general consults
- Teach introductory biostatistics to residents and fellows

**ACADEMIC AFFILIATIONS**

**Jan. 2018 – present**

Dalla Lana School of Public Health, University of Toronto

**Assistant Professor (Core-Faculty)**

See above for details.

**July 1, 2007 – December 31, 2018**

Dalla Lana School of Public Health, University of Toronto

**Assistant Professor (Status-Only)**

- Course director and instructor CHL5207Y/5208Y from 2006 to present
- MSc Admissions Committee member from 2008 to present
- Co-organizer of Biostatistics Workshop in Cancer Research July 24-26, 2009
- Tutorial leader for HAD5303H: Controlled Clinical Trials from 2009 to 2015.

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**Oct. 2003 - June 30, 2007**

Public Health Sciences Department, Faculty of Medicine, University of Toronto

**Adjunct Lecturer (Status Only)**

- Provided three lectures to master's level students in Public Health (Community Health Appraisal Methods).
- Assisted with marking and the design of the final examination
- Supervised student in Lab course 2004-2005
- Invited talk "Guidelines for Reporting Study Results" Lab Course Oct. 13, 2005
- Introduction to Biostatistics (Research methods course at U of T), March 6 and 13, 2006. Substituted for Jennifer Jones (maternity leave).
- Invited lecture March 12, 2007 – Research Methods I course in Medical Radiation Sciences Program at U of T.
- Helped co-ordinate and conduct CHL5207Y/5208Y in 2006-2007

**PROFESSIONAL ASSOCIATIONS**

- Member, Data and Safety Monitoring Board, Allphase , since March 2022
- Member, Data and Safety Monitoring Board, Canadian Donation and Transplantation Research Program since February 2021
- President, Southern Ontario Regional Association of the Statistical Society of Canada, and Southern Ontario Chapter of the American Statistical Association since 2019
- Statistical Reviewer for *Lancet Haematology* since 2019
- Member, Data and Safety Monitoring Board, Myeloma Canada Research Network since 2018
- Member, American Statistical Association since 2018
- Member, Canadian Blood and Marrow Transplant Group since 2013.
- Statistical Reviewer for *Biology of Bone Marrow Transplantation* since 2013
- Member, Statistical Society of Canada since 2008
- Statistical Reviewer for *Clinical Oncology* since 2001.
- Member, Toronto Area Biostatistics Association since 1995.
- Member, Society for Clinical Trials since 1986.

**HONOURS / AWARDS**

- Biostatistics Training Initiative internship program mentor May-December 2021.
- Elected President of the Southern Ontario Regional Association of the Statistical Society of Canada and Southern Ontario Chapter of the American Statistical Association, June 2019 (3-year term)

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- Awarded \$5,000.00 from Statistical Society of Canada in 2019 for my proposal “*For Today’s Graduate, Just One Word: Statistics*”. This proposal calls for a 1-day event at the University of Toronto for STEM girls and their teachers from throughout Southern Ontario to introduce them to careers in statistics through the lens of successful women statisticians.
- 2016 Canadian Hematology Society Paper of the Year Award for “Pretreatment with anti-thymocyte globulin versus no anti-thymocyte globulin in patients with hematological malignancies undergoing haemopoietic cell transplantation from unrelated donors: a randomised, controlled, open-label, phase 3, multicentre trial” published in *Lancet Oncology*
- Bush Award for Academic Excellence in Research by a Fellow (Chris Fosker) based on the work “The Importance of Poor Performance Status in Personalizing Palliative Radiotherapy towards the End of Life” (Fosker C, **Panzarella T.** and Wong R.) presented at the U of T Annual Research Day May 2012.
- The article “Effect of image-guidance frequency on geometric accuracy and setup margins in radiotherapy for locally advanced lung cancer” selected through the ASTRO CME selection process and by James Cox, M.D., editor of ASTRO’s Red Journal, as a feature article for an online ASTRO/Red Journal CME offering in April 2011.
- ASCO Merit Award and Novartis Oncology Young Clinical Investigator Award June 2010 for abstract Total Treatment Burden in Stage I Seminoma Patients by – Leung E., Chung P, **Panzarella T** et al.
- The Brain Tumor Foundation of Canada award for “Excellence in Psychosocial Oncology” at the International Psychosocial Oncology Society meeting in Quebec City, June 2010. K. Edelstein, B. J. Spiegler, S. Fung, **T. Panzarella**, D. C. Hodgson, D. J. Mabbott, N. Laperriere, U. Tabori, E. Bouffet, W. P. Mason. Long-term neurocognitive outcomes in adult survivors of childhood medulloblastoma
- Radiation Medicine Program Clinical Teacher Award 2005 for contribution to the statistical education of staff radiation therapists

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**STATISTICS COURSES ATTENDED**

- Introduction to Machine Learning for Biomedical Data. SORA/TABA Workshop and DLSPH Biostatistics Research Day, August 17-18, 2020.
- Regression Modeling Strategies by Prof Frank Harrell. SORA/TABA Workshop and DLSPH Biostatistics Research Day, May 3, 2019.
- An introduction to causal inference: propensity score methods using weighting and regression adjustments. May 6, 2016 – University of Toronto – SORA/TABA workshop
- DLSPH Biostatistics Research Day May 21, 2013. Successful Data Mining in Practice. Dr. Richard De Veaux
- Mixed Models Workshop – University of Toronto, August 3<sup>rd</sup> and 5<sup>th</sup>, 2010.
- Applied Bayesian Analysis Workshop May 13, 2010 – University Health Network. Sponsored by SORA/TABA
- Canadian Bioinformatics Workshop – Essential statistics in Biology Oct. 3-4 2008
- Short Course (6 weeks) in Longitudinal Analysis Including Multi-Level Modeling, March 2005, York University

**LEADERSHIP/MANAGEMENT COURSES**

- Rotman Leadership Development Program 2006-2007
- Teambuilding: what did we learn from working together? UHN, August 2003.
- Coaching for High Performance, UHN January 20-21, 2003 (Peter Jensen)
- Inspiring Leaders Seminar, Rotman School of Management, Toronto, Sept. 30, 2002.
- Coaching for Performance (Peter Jensen), Toronto, March 27, 2002.
- Cairncrest Leadership Coaching (Jake MacArthur), Jan. 2002 – June 2002 (six 3-hour sessions)
- Leadership in Action (Joe Sherran), July 5-6, 1999.

**EDUCATION**

**1984 - 1985**

**Master of Science in Applied Statistics**

University of Toronto.

**1980 - 1984**

**Honour's Bachelor of Science** with a double major - statistics and mathematics,  
University of Toronto.

**FUNCTIONAL SKILLS**

- Experienced SAS user including completion of several SAS Institute courses:
- Bayesian Analysis in SAS (2011)
- SAS Programming 2: Data Manipulation Techniques (2010)
- SAS Programming 1: Essentials (2009)
- Longitudinal data analysis with discrete and continuous outcomes (2002)

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- Survival analysis using the Cox proportional hazards model (2001)
- Mixed models using PROC GLM and PROC MIXED (2000)
- SAS Macros (2000)
- SAS Programming (1999)
  
- Proficient with S-Plus (user since 1997) with completion of Web-based courses:
  - Introduction to GUI based system July 2000.
  - Command Line Basics in April 2000
  
- R User since 2004.
  - Completed a short course on R (York University in 2004).
  - Completed Computing for Data Analysis, a short on-line course in R from Coursera, 2013.
  
- Good familiarity with MS WINDOWS, UNIX operating systems.

**PUBLICATIONS – PEER REVIEWED JOURNALS**

Kosa SD, Ferguson SE, **Panzarella T**, Lau S, Abitbol J, Samouëlian V, Giede C, Steed H, Renkosinski B, Gien LT, Bernardini MQ. A prospective comparison of costs between robotics, laparoscopy, and laparotomy in endometrial cancer among women with Class III obesity or higher. *J Surg Oncol*. 2021 Dec 14.

Suen C, Wong J, Warsame K, Subramani Y, **Panzarella T**, Waseem R, Auckley D, Chaudhry R, Islam S, Chung F. Perioperative adherence to continuous positive airway pressure and its effect on postoperative nocturnal hypoxemia in obstructive sleep apnea patients: a prospective cohort study. *BMC Anesthesiol*. 2021 May 11;21(1):142.

Ottolino-Perry K, Shahid A, DeLuca S, Son V, Sukhram M, Meng F, Liu ZA, Rapic S, Anantha NT, Wang SC, Chamma E, Gibson C, Medeiros PJ, Majeed S, Chu A, Wignall O, Pizzolato A, Rosen CF, Teene LL, Starr-Dunham D, Kulbatski I, **Panzarella T**, Done SJ, Easson AM, Leong WL, DaCosta RS. Intraoperative fluorescence imaging with aminolevulinic acid detects grossly occult breast cancer: a phase II randomized controlled trial. *Breast Cancer Res*. 2021 Jul 12;23(1):72.

Walker I, **Panzarella T**, Popradi G. Addition of anti-thymocyte globulin to standard graft-versus-host disease prophylaxis - Authors' reply. *Lancet Haematol*. 2020 May;7(5): e364-e365.

Walker I, **Panzarella T**, Couban S, Couture F, Devins G, Elemery M, Gallagher G, Kerr H, Kuruvilla J, Lee SJ, Moore J, Nevill T, Popradi G, Roy J, Schultz KR, Sz wajcer D, Toze C, Foley R; Cell Therapy Transplant Canada. Addition of anti-thymocyte globulin to standard graft-versus-host disease prophylaxis versus standard treatment alone in patients with haematological malignancies undergoing transplantation from unrelated donors: final analysis of a randomised, open-label, multicentre, phase 3 trial. *Lancet Haematol*. Feb 2020

Bender JL, Feldman-Stewart D, Tong C, Lee K, Brundage M, Pai H, Robinson J, **Panzarella T**. Health Related Internet Use among Men with Prostate Cancer in Canada: A Cancer Registry Survey. *J Med Internet Res*. 2019 Nov 19;21(11)

Chung P, O'Malley ME, Jewett MAS, Bedard PL, **Panzarella T**, Sturgeon J, Moore MJ, Hamilton R, Hansen AR, Anson-Cartwright L, Gospodarowicz M, Warde P. Detection of Relapse by Low-dose Computed Tomography During Surveillance in Stage I Testicular Germ Cell Tumours. *Eur Urol Oncol*. 2019 Jul;2(4):437-442.

Fatemeh Fekrmandi, **Tony Panzarella**, Robert Dinniwell, Joelle Helou, Wilfred Levin; Predictive Factors for Persistent and Late Radiation Complications in Breast Cancer Survivors. *Clinical and Translational Oncology* May 23, 2019

Kwan JYY, Croke J, **Panzarella T**, Ubhi K, Fyles A, Koch A, Dinniwell R, Levin W, McCready D, Chung C Liu F Bender JL. Personalizing post-treatment cancer care: a cross-sectional survey

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of the needs and preferences of well survivors of breast cancer. *Curr Oncol*. 2019 Apr;26(2): e138-e146.

Ezeife DA, Melosky B, Tudor R, Lin S, Lau A, **Panzarella T**, Leighl NB. Afatinib in advanced pretreated non-small-cell lung cancer- a Canadian experience. *Curr Oncol*. 2018 Oct;25(5): e385-e390.

McNamara CJ, **Panzarella T**, Kennedy JA, Arruda A, Claudio JO, Daher-Reyes G, Ho J, Siddiq N, Devlin R, Tsui H, Su J, Stockley T, Sukhai M, Kanwar N, Chan S, Maze D, Schimmer A, Schuh A, Sibai H, Viswabandya A, Yee K, Minden MD, Kamel-Reid S, Gupta V. The mutational landscape of accelerated- and blast-phase myeloproliferative neoplasms impacts patient outcomes. *Blood Adv*. 2018 Oct 23;2(20):2658-2671.

Habib LA, Kuo KHM, **Panzarella T**, Gupta V, Trinkaus M. Management of Polycythemia Vera: A Survey of Canadian Physician Practice Patterns. *Clin Lymphoma Myeloma Leuk*. 2019 Jan;19(1): e37-e42.

Wilson, M. Victor Rodriguez-Freixinos; **Tony Panzarella**; Katherine Karakasis; Amit M Oza Evolution in epithelial ovarian cancer trials: improving accuracy by design. Submitted to *Gynecologic Oncology*.

Ferguson SE, **Panzarella T**, Lau S, Gien LT, Samouëlian V, Giede C, Steed H, Le T, Renkosinski B, Bernardini MQ. Prospective cohort study comparing quality of life and sexual health outcomes between women undergoing robotic, laparoscopic and open surgery for endometrial cancer. *Gynecol Oncol*. 2018 Apr 19. pii: S0090-8258(18)30836-9. doi: 10.1016/j.ygyno.2018.04.558. [Epub ahead of print] PubMed PMID: 29681461.

Yap ML, Tieu M, Sappiatzer J, **Panzarella T**, Cuartero J, McCreedy D, Fyles A. Outcomes in Patients Treated with Post-mastectomy Chest Wall Radiotherapy without the Routine Use of Bolus. *Clin Oncol (R Coll Radiol)*. 2018 Jul;30(7):427-432.

Justyna Bartoszko, **Tony Panzarella**, Caroline McNamara, Anthea Lau, Aaron D Schimmer, Andre Schuh, Hassan Sibai, Dawn Maze, Karen Yee, Rebecca Devlin, Vikas Gupta. Distribution and Impact of Comorbidities on Survival and Leukemic Transformation in Myeloproliferative Neoplasm-Associated Myelofibrosis: A Retrospective Cohort Study. *Clin Lymphoma Myeloma Leuk*. 2017 Nov;17(11):774-781.

Jay Spiegel, Caroline McNamara, James A. Kennedy, **Tony Panzarella**, Andrea Arruda, Tracy Stockley, Mahadeo Sukhai, Mariam Thomas, Justyna Bartoszko, Jenny Ho, Nancy Siddiq, Dawn Maze, Aaron Schimmer, Andre Schuh, Hassan Sibai, Karen Yee, Jamie Claudio, Rebecca Devlin, Mark Minden, Suzanne Kamel-Reid, and Vikas Gupta. Impact of genomic alterations on outcomes in myelofibrosis patients undergoing JAK1/2 inhibitor therapy. *Blood Advances*. Volume 1, Number 20, pp. 1729-1738



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Peter Chung, Martin O'Malley, Michael Jewett, Philippe L. Bedard, **Tony Panzarella**, Jeremy Sturgeon, Malcolm Moore, Robert Hamilton, Aaron R. Hansen, Lynn Anson-Cartwright, Mary Gospodarowicz, Padraig Warde. Detection of relapse by low dose CT during surveillance in stage I testicular germ cell tumours. JNCI. To be submitted.

Kariminia, S. Ivison, Bernard Ng, J. Rozmus, S. Sung, V. Avani, M. Aljurf, S. Lachance, I. Walker, C. Toze, J. Lipton, S. J. Lee, J. Szer, R. Doocey, I. Lewis, L. Huebsch, M. Lalancette, C. Smith, F. Almohareb, N. Chaudhri, M.K. Levings, R. Broady, G. Devins, D. Szwajcer, R. Foley, Sara Mostafavi, D. Wall, S. Couban, **T. Panzarella**, and K. R. Schultz. CD56bright NK (NKreg) Cells in Filgrastim Primed Donor Blood or Marrow Products Regulate Chronic GvHD: CBMTG Randomized 0601 Study Results. *Haematologica*. 2017 Nov;102(11):1936-1946.

Long term responders to palliative chemotherapy for advanced biliary tract cancer. Doherty MK, McNamara MG, Aneja P, McInerney E, Moignard S, Horgan AM, Jiang H, **Panzarella T**, Jang R, Dhani N, Hedley D, Knox JJ. *J Gastrointest Oncol*. 2017 Apr;8(2):352-360

Ottolino-Perry K, Chamma E, Blackmore KM, Lindvere-Teene L, Starr D, Tapang K, Rosen CF, Pitcher B, **Panzarella T**, Linden R, DaCosta RS. Improved detection of clinically relevant wound bacteria using autofluorescence image-guided sampling in diabetic foot ulcers. *Int Wound J*. 2017 Oct;14(5):833-841.

Lheureux S, Lai Z, Dougherty BA, Runswick S, Hodgson DR, Timms KM, Lanchbury JS, Kaye S, Gourley C, Bowtell D, Kohn EC, Scott C, Matulonis U, **Panzarella T**, Karakasis K, Burnier JV, Gilks CB, O'Connor MJ, Robertson JD, Ledermann J, Barrett JC, Ho TW, Oza AM. Long-Term Responders on Olaparib Maintenance in High-Grade Serous Ovarian Cancer: Clinical and Molecular Characterization. *Clin Cancer Res*. 2017 Aug 1;23(15):4086-4094.

Bouchard-Fortier G, **Panzarella T**, Rosen B, Chapman W, Gien LT. Endometrioid Carcinoma of the Ovary: Outcomes Compared to Serous Carcinoma After 10 Years of Follow-Up. *J Obstet Gynaecol Can*. 2017 Jan;39(1):34-41.

Richard PO, Alibhai SM, **Panzarella T**, Klotz L, Komisarenko M, Fleshner N, Urbach , Finelli A. The uptake of active surveillance for the management of prostate cancer: A population-based analysis. *Can Urol Assoc J*. 2016 Sep-Oct;10(9-10): E342-E346. Epub 2016 Oct 13.

Richard PO, Alibhai SM, **Panzarella T**, Klotz L, Komisarenko M, Fleshner N, Urbach , Finelli A. The uptake of active surveillance for the management of prostate cancer: A population-based analysis. *Can Urol Assoc J*. 2016 Sep-Oct;10(9-10):333-338.

Couban S, Aljurf M, Lachance S, Walker I, Toze C, Rubinger M, Lipton JH, Lee SJ, Szer J, Doocey R, Lewis ID, Huebsch L, Howson-Jan K, Lalancette M, Almohareb F, Chaudhri N, Ivison S, Broady R, Levings M, Fairclough D, Devins G, Szwajcer D, Foley R, Smith C,

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**Panzarella T**, Kerr H, Kariminia A, Schultz KR. Filgrastim-Stimulated Bone Marrow compared with Filgrastim-Mobilized Peripheral Blood for Allografting in Patients with Hematologic Malignancies. *Biol Blood Marrow Transplant*. 2016 Oct 24

Köbel M, Atenafu EG, Rambau PF, Ferguson SE, Nelson GS, Ho TC, **Panzarella T**, McAlpine JN, Gilks CB, Clarke BA, Bernardini MQ. Progesterone receptor expression is associated with longer overall survival within high-grade histotypes of endometrial carcinoma: A Canadian high-risk endometrial cancer consortium (CHREC) study. *Gynecol Oncol*. 2016 Jun;141(3):559-563

Milosevic M, Angers C, Liszewski B, Drodge CS, Marchand EL, Bissonnette JP, Brown E, Dunscombe P, Hunt J, Jiang H, Louie K, Mitera G, Moran K, **Panzarella T**, Parliament M, Ross S, Brundage M. The Canadian National System for Incident Reporting in Radiation Treatment (NSIR-RT) Taxonomy. *Pract Radiat Oncol*. 2016 Sep-Oct;6(5):334-341

Kariminia A, Holtan SG, Ivison S, Rozmus J, Hebert MJ, Martin PJ, Lee SJ, Wolff D, Subrt P, Abdossamadi S, Sung S, Storek J, Levings M, Aljurf M, Arora M, Cutler C, Gallagher G, Kuruvilla J, Lipton J, Nevill TJ, Newell LF, **Panzarella T**, Pidala J, Popradi G, Szwajcer D, Tay J, Toze CL, Walker I, Couban S, Storer BE, Schultz KR. Heterogeneity of chronic graft-versus-host disease biomarkers: the only consistent association is with CXCL10 and CXCR3+ NK cells. *Blood*. 2016 Mar 28. pii: blood-2015-09-668251. [Epub ahead of print] PMID: 27020088

Bernardini MQ, Gien LT, Lau S, Altman AD, Gilks B, Ferguson SE, Köbel M, Samouëlian V, Wesa M, Cameron A, Nelson G, Han G, Clarke B, Ho TC, **Panzarella T**, Atenafu EG, McAlpine JN. Treatment related outcomes in high-risk endometrial carcinoma: Canadian high risk endometrial cancer consortium (CHREC). *Gynecol Oncol*. 2016 Apr;141(1):148-54. doi: 10.1016/j.ygyno.2016.02.002. Epub 2016 Feb 5. PMID: 26854651

Walker I, **Panzarella T**, Couban S, Couture F, Devins G, Elemetry M, Gallagher G, Kerr H, Kuruvilla J, Lee SJ, Moore J, Nevill T, Popradi G, Roy J, Schultz KR, Szwajcer D, Toze C, Foley R; Canadian Blood and Marrow Transplant Group. Pretreatment with anti-thymocyte globulin versus no anti-thymocyte globulin in patients with hematological malignancies undergoing haemopoietic cell transplantation from unrelated donors: a randomised, controlled, open-label, phase 3, multicentre trial. *Lancet Oncol*. 2016 Feb;17(2):164-73. doi: 10.1016/S1470-2045(15)00462-3. Epub 2015 Dec 24.

Bartoszek J, **Panzarella T**, Lau A, Schimmer A, Schuh A, Shanavas M, Yee K, Gupta V. Impact of Red-cell transfusion requiring anemia on the natural history of Myeloproliferative Neoplasm-associated Myelofibrosis. *Clin Lymphoma Myeloma Leuk*. 2015 Nov;15(11):e151-6. doi: 10.1016/j.clml.2015.09.001. Epub 2015 Sep 21. PMID: 26566925

Altman AD, Ferguson SE, Atenafu EG, Köbel M, McAlpine JN, **Panzarella T**, Lau S, Gien LT, Gilks B, Clarke B, Cameron A, Nelson G, Han G, Samouëlian V, Ho TC, Louie K, Bernardini MQ. Canadian high-risk endometrial cancer (CHREC) consortium: Analyzing the clinical behaviour of high risk endometrial cancers. *Gynecol Oncol*. 2015 Sep 6. pii: S0090-8258(15)30119-0. doi: 10.1016/j.ygyno.2015.09.001. [Epub ahead of print] PubMed PMID: 26352641.

Hsu T, Black PC, Chi KN, Canil CM, Eigl BJ, Kulkarni G, North S, Wood L, Zlotta AR, Lau A, **Panzarella T**, Sridhar SS. Treatment of muscle-invasive bladder cancer in Canada: A survey of genitourinary medical oncologists and urologists. *Can Urol Assoc J*. 2014 Sep;8(9-10):309-16. doi: 10.5489/cuaj.2111. PubMed PMID: 25408794; PubMed Central PMCID: PMC4216285.

Salmasi G, Li M, Sivabalasundaram V, **Panzarella T**, Tsang R, Kukreti V, Crump M, Kuruvilla J. Incidence of Pneumonitis in patients with non-Hodgkin Lymphoma receiving Chemoimmunotherapy with Rituximab. *Leuk Lymphoma*. 2014 Oct 30:1-19. [Epub ahead of print] PubMed PMID: 25356925.

Kuo KH, Callum JL, **Panzarella T**, Jacks LM, Brandwein J, Crump M, Curtis JE, Gupta V, Lipton JH, Minden MD, Sher GD, Schimmer AD, Schuh AC, Yee KW, Keating A, Messner HA. A retrospective observational study of leucoreductive strategies to manage patients with acute myeloid leukaemia presenting with hyperleucocytosis. *Br J Haematol*. 2015 Feb;168(3):384-94. doi: 10.1111/bjh.13146. Epub 2014 Oct 10. PubMed PMID: 25303497.

Chung P, Daugaard G, Tyldesley S, Atenafu EG, **Panzarella T**, Kollmannsberger C, Warde P. Evaluation of a prognostic model for risk of relapse in stage I seminoma surveillance. *Cancer Med*. 2015 Jan;4(1):155-60. doi: 10.1002/cam4.324. Epub 2014 Sep 19. PubMed PMID: 25236854; PubMed Central PMCID: PMC4312129.

Villa D, George A, Seymour JF, Toze CL, Crump M, Lee C, Buckstein R, Stewart DA, MacDonald D, Foley R, Xenocostas A, Sabloff M, Chua N, Couture F, Larouche JF, Cohen S, Savage KJ, Connors JM, **Panzarella T**, Carney DA, Dickinson M, Kuruvilla J. Favorable Outcomes from Allogeneic and Autologous Stem Cell Transplantation for Patients with Transformed Non-Follicular Indolent Lymphoma. *Biol Blood Marrow Transplant*. 2014 Jul 17. pii: S1083-8791(14)00441-8. doi: 10.1016/j.bbmt.2014.07.015. [Epub ahead of print] PubMed PMID: 25042735.

EBCTCG (Early Breast Cancer Trialists' Collaborative Group), McGale P, Taylor C, Correa C, Cutter D, Duane F, Ewertz M, Gray R, Mannu G, Peto R, Whelan T, Wang Y, Wang Z, Darby S. Effect of radiotherapy after mastectomy and axillary surgery on 10-year recurrence and 20-year breast cancer mortality: meta-analysis of individual patient data for 8135 women in 22 randomised trials. *Lancet*. 2014 Jun 21;383(9935):2127-35. doi: 10.1016/S0140-6736(14)60488-8. Epub 2014 Mar 19. Erratum in: *Lancet*. 2014 Nov 22;384(9957):1848. PubMed PMID: 24656685.

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Tsoref D, **Panzarella T**, Oza A. Aspirin in prevention of ovarian cancer: are we at the tipping point? J Natl Cancer Inst. 2014 Feb;106(2): djt453. doi: 10.1093/jnci/djt453. PubMed PMID: 24503201.

Zhong T, Temple-Oberle C, Hofer S, Beber B, Semple J, Brown M, Macadam S, Lennox P, **Panzarella T**, McCarthy C, Baxter N; MCCAT Study Group. The Multi Centre Canadian Acellular Dermal Matrix Trial (MCCAT): study protocol for a randomized controlled trial in implant-based breast reconstruction. Trials. 2013 Oct 28; 14:356. doi: 10.1186/1745-6215-14-356. PubMed PMID: 24165392; PubMed Central PMCID: PMC3842809.

Zih FS, Wong-Chong N, Hummel C, Petronis J, **Panzarella T**, Pollett A, McCart JA, Swallow CJ. Erratum to: Mucinous Tumor of the Appendix with Limited Peritoneal Spread: Is There a Role for Expectant Observation? Ann Surg Oncol. 2013 Oct 26. [Epub ahead of print] PubMed PMID: 24162841.

Zih FS, Wong-Chong N, Hummel C, Petronis J, **Panzarella T**, Pollett A, McCart AJ, Swallow CJ. Mucinous tumor of the appendix with limited peritoneal spread: is there a role for expectant observation? Ann Surg Oncol. 2014 Jan;21(1):225-31. doi: 10.1245/s10434-013-3283-0. Epub 2013 Oct 8. PubMed PMID: 24100959.

**Panzarella T**, Villa D, Kuruvilla J. Reply to C.s. Tam et Al. J Clin Oncol. 2013 Sep 1;31(25):3167-8. doi: 10.1200/JCO.2013.51.0537. Epub 2013 Aug 5. PubMed PMID: 23943832.

Leung E, Warde P, Jewett M, **Panzarella T**, O'Malley M, Sweet J, Moore M, Sturgeon J, Gospodarowicz M, Chung P. Treatment burden in stage I seminoma: a comparison of surveillance and adjuvant radiation therapy. BJU Int. 2013 Dec ;112(8) :1088-95. doi: 10.1111/bju.12330. Epub 2013 Aug 13. PubMed PMID: 23937685.

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Tannock I, Gospodarowicz M, Meakin W, **Panzarella T**, Stewart L, Rider W. Treatment of metastatic prostatic cancer with low-dose prednisone: evaluation of pain and quality of life as pragmatic indices of response. J Clin Oncol. 1989 May;7(5):590-7. PubMed PMID: 2709088.

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Tannock I, Payne D, Cummings B, Hewitt K, **Panzarella T**. Sequential chemotherapy and radiation for nasopharyngeal cancer: absence of long-term benefit despite a high rate of tumor response to chemotherapy. *J Clin Oncol*. 1987 Apr;5(4):629-34. PubMed PMID: 35



### **BOOK CHAPTERS**

- Pang J; **Panzarella T**; Chow E. Prognosis and Survival Prediction. *Journal of Alternative Medicine Research*. Vol. 3, Issue 3, 309-332
- **Panzarella T**. The value of a collaborating biostatistician - Research for the Radiation Therapist: From Question to Culture C. Gillian, L Di Prospero, N Harnett, L Holden, editors. CRC Press 2014.

### **CONFERENCE PRESENTATIONS**

- Comparing the effect of an inaccurate control group event rate using fixed absolute and relative treatment differences when re-estimating a sample size for a randomized clinical trial with a dichotomous outcome. 32<sup>nd</sup> annual meeting of the International Society for Clinical Biostatistics, August 2011, Ottawa, Ont.
- A Case for Using Absolute Treatment Differences when Designing a Clinical Trial with a Dichotomous Outcome. 32<sup>nd</sup> annual meeting of the Society of Clinical Trials, May 17, 2011, Vancouver BC.
- Harmonizing the system of research ethics review involving humans in Canada. 30<sup>th</sup> annual meeting of the Society for Clinical Trials - Pre-Conference Workshop on Global Harmonization of the Research Ethics Submission and Review process, May 3, 2009, Atlanta, Georgia

**COMMITTEE WORK**

- Member, Data and Safety Monitoring Board, Allphase CRO, since March 2022
- Member, Data and Safety Monitoring Board, Canadian Donation and Transplantation Research Program since February 2021
- Member, Data and Safety Monitoring Board, Myeloma Canada Research Network 2018-present
- Cancer Registry and Data Access Committee 1998-2017
- Masters Admissions Committee, Division of Biostatistics, University of Toronto 2008-present
- Thesis Committee Member, Dr. Richard Patrick, Candidate for MSc. in Clinical Epidemiology, University of Toronto. The uptake of active surveillance for the management of prostate cancer in Ontario: should we be doing more? Feb. 2014 – Sept. 2015
- Ontario Cancer Research Ethics Board 2009-2015
- Society for Clinical Trials Biostatistics Membership Committee June 2009
- Research Ethics Board (Oncology) 1998-2004
- Clinical Research Unit Executive Committee 2003-2006
- Program Committee SCT 2006

**GRANT PANELS**

- Sep. 2017 – Canadian Cancer Society QOL competition
- Jun. 2012 – Cancer Research Society
- Jun. 2011 – Cancer Research Society

### **ACKNOWLEDGEMENTS**

- Dranitsaris, G. Statistical methods in clinical research: a review for pharmacists. *J Oncol Pharm Practice* 4: 151-158, 1998.
- Mason, W; Gentili, F; Macdonald, D; et al. Clinical and radiographic stabilization in patients with recurrent or unresectable meningiomas treated with hydroxyurea *J. Neurosurg.* 97:341-346, 2002.
- Bujold A, Massey CA, Kim JJ, Brierley J, Cho C, Wong RK, Dinniwell RE, Kassam Z, Ringash J, Cummings B, Sykes J, Sherman M, Knox JJ, Dawson LA. Sequential Phase I and II Trials of Stereotactic Body Radiotherapy for Locally Advanced Hepatocellular Carcinoma. *J Clin Oncol.* 2013 May 1;31(13):1631-9.

**COURSES ORGANIZED**

Applied Biostatistics Course. A 9-week course offered to clinical researchers seeking a better understanding of the importance of statistics in medical research.

- Medical and Hematology residents March – June 2003
- Pharmacy, October – November 2003
- DRO Fellows April-May 2004

Introduction to Biostatistics. A 4-session introduction featuring types of data, summarization of data, probability distributions, sampling distributions, hypothesis tests, p-values, and reporting results. RT Therapists Nov-Dec. 2004.

Introduction to Biostatistics. A 4-session introduction featuring types of data, summarization of data, probability distributions, sampling distributions, hypothesis tests, p-values, confidence intervals and common reporting errors. Clinical Research Unit staff June 2005 and December 2005.

**INVITED TALKS**

- “Working in a Statistical Consulting Group for a University-Affiliated Teaching Hospital: Opportunities and Challenges”. June 11, 2021. Statistical Society of Canada Annual Meeting.
- Invited Keynote address – “The misuse of statistics is unethical” - 2016 U of T REB retreat, Hart House, University of Toronto, Toronto, December 6, 2016
- Integrity in Graduate Research Workshop – Statistics 101 – Design, analysis and reporting concepts. University of Toronto, March 18, 2016.
- The Role of Biostatistics in a School of Public Health, Dalla Lana School of Public Health Sept. 4, 2014
- Guest Lecturer – Introduction to Research Methods, Michener Institute, RMIP240, University of Toronto, Nov 19, 2013.
- An Introduction to Statistics in Clinical Trials for the Non-statistician. Celgene, Canada. Collingwood Ontario, August 28, 2013.
- Statistical Analysis of Quantitative Data. Advanced Practice Nurse Educator Research Seminar Series sponsored by University Health Network’s Collaborative Academic Practice. Toronto, Ontario, Dec. 14, 2012.
- Data Integrity – A Statistician’s Perspective. Clinical Trials Week, PMH, May 24 and June 15, 2012.
- Preventing Missing Outcome Data in Randomized Clinical Trials – CBMTG 0801 Data Coordinators Meeting - CBMTG 2012 Annual Meeting, Toronto, April 11, 2012.
- Statistical Issues in Transplant Trials. April 9, 2010. 12<sup>th</sup> Biennial CBMTG conference, Vancouver B.C.
- Minimization and Statistics for CBMTG 0801. Pre-conference Workshop. April 7, 2010. 12<sup>th</sup> Biennial CBMTG conference, Vancouver B.C.

### **GRANTS AWARDED**

**Title of Grant:** Assessing Positive Margins at Radical Prostatectomy Using Real-Time High-Resolution Prostate-Specific Membrane Antigen-Based Gamma Imaging of the Prostate Bed

**Funding Opportunity:** Movember Discovery Grant 2017

**Source:** Prostate Cancer Canada

**Grant #:** None provided yet

**Dates of Proposed Project:** Application deadline: April 3, 2017; Earliest start date: July 2017

**Dollars:** \$197,482 over 2 years

**Name of PI:** Dr. Neil Fleshner, UHN, Toronto

**List of Co-PIs:** Drs. Stephan Probst, Tony Panzarella, Theodorus van der Kwast, Ravi Mohan

The major goal of this project is to evaluate the ability of transrectal prostate specific membrane antigen (PSMA) imaging to guide surgery by detecting positive margins at radical prostatectomy.

**Title of the Grant:** The Canadian F.I.G.H.T. (Fluorescence Image-Guided Help in Treating) Breast Cancer Surgical Trial

**Source:** CIHR

**Dollars:** \$3,000,000.00

**Dates:** 2017 - 2022

**Name of PI:** Ralph DaCosta

**List of Co-PIs:** Wey-Liang Leong, Alexandra Easson, Susan Done, David McCready, Gary Groot, Lucy Helyer, Claire Holloway, Murray Krahn, Pamela Meiers, Daphne Mew, Cheryl Rosen, Jory Simpson, Paul Tenenbein

**Goal:** To reduce re-excision rate after breast conservative surgery in breast cancer patients using fluorescence imaging of margins *in situ*. We will specifically investigate i) if FL imaging during index surgery reduce re-excision rates due to missed positive margins ii) the diagnostic accuracy measures (sensitivity, specificity, TP, FP, TN, FN) of FL image-guided surgery to detect positive margins iii) if surgery with fluorescence image-guidance improve cosmesis and quality of life (QoL) by reducing the amount of tissue removed.

CIHR Foundation Scheme: 2014 1<sup>st</sup> Live Pilot: Development of a National Quality Improvement Program in Postmastectomy Breast Reconstruction to Optimize Patient-Centred Experience. PI: Toni Zhong CIHR **\$860,006** over 5 years.

Evaluation of Myocardial Changes during Breast Adenocarcinoma therapy to detect Cardiotoxicity Earlier – The EMBRACE-MRI study. PI: Paaladinesh Thavendiranathan, Co-PI Dr. Bernd Wintersperger. CIHR. Aug 1, 2015. Total funding **\$898,493**.

**GRANTS AWARDED**

CBCF; Pre-consultation Educational Group Intervention to Improve Shared Decision Making for Postmastectomy Breast Reconstruction; PI: Dr. Toni Zhong; CoI: Dr. Nancy Baxter, Dr. Brett Beber, Dr. Terry Cheng, Dr. Jeffrey Hoch, Dr. Stefan Hofer, Dr. Wanrudee Isaranuwachai, Dr. Jennifer Jones, Dr. Kelly Metcalfe, Dr. Anne O'Neill, Mr. **Tony Panzarella**, Dr. Jennica Platt; Total Requested Amount: \$352,785; Funding duration: 3 years (2015-2018)

Fleshner N; Joshua A; Alibhai S; Finelli A; Lipscombe L; Margel D; **Panzarella T**; Saad F; Sweet J. Randomized Double Blind Trial of Metformin In Reducing Progression Among Men On Expectant Management For Low Risk Prostate Cancer: The Mast (Metformin Active Surveillance Trial) Study. Funds Requested: **\$1,250,000**. Support Period: **02/2013 – 01/2018** Canadian Cancer Society Research Institute.

Novel Window of Opportunity Trial to Evaluate the Impact of Statins to Oppose Prostate Cancer (Win-STOPca). Penn L, Fleshner N et al. OCI Translational Collaborative Grant Competition. Total budget **\$533,946**. Members of OCI Win-STOPca Collaborative Team: Linda Penn (Basic Science Co-lead; conducted research on molecular mechanism of statins as anticancer agents for over 10 yrs), Neil Fleshner (Clinician/GU Surgeon Co-lead; conducted research showing statin use is associated with decrease risk of prostate cancer (newest data presently under review for publication) and also conducted several leading edge clinical trials in prostate cancer, Rob Hamilton (newly hired GU Surgeon at PMH who has conducted research and published several papers on statins and prostate cancer), Rob Bristow (Clinician Scientist who has conducted extensive research in prostate cancer, including newly developed molecular biomarkers based on DNA copy number variation to distinguish intermediate and high-risk patients), **Tony Panzarella** (Clinical trials statistics expert), Michael Roehrl (Head of UHN Biobank), Thio van der Kwast (Pathologist specializing in prostate cancer), Karen Heaney (GU Clinical trials coordinator), OCI Genomics Centre (Bioinformatics and genetics expertise).

Stephen Couban et al. Improved Assignment to Best Available Therapy for Myelodysplasia/Acute Myeloid Leukemia. Terry Fox Research Institute. **\$1,500,000** for Phase I (1-year 2012)

Irwin Ronald Walker; Jean Roy; **Tony Panzarella**; Ronan Foley; Kirk Schultz; Stephen Couban; Stephanie Lee; Paul Martin; Arlene Nugent - A Randomized Trial of Thymoglobulin to Prevent Chronic Graft versus Host Disease in Patients Undergoing Hematopoietic Stem Cell Transplantation from Unrelated Donors **\$1,200,000 CAN (2009-0213)**. CIHR

**GRANTS AWARDED**

Schultz, K (PI), S. Couban, C. Toze, **T. Panzarella**, G. Devins et al. Transplantation of G-CSF Stimulated Marrow vs. Blood NIH (NCI) **\$2,225,000 US** over 5 years (**2006-2011**).