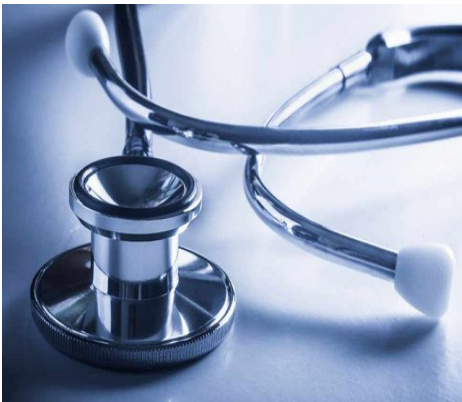




Anesthesia
UNIVERSITY OF TORONTO



Anesthesia
2015—2017 ANNUAL REPORT

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CHAIR'S INTRODUCTION

Dr. Brian Kavanagh

Dear Colleagues,

We are perhaps the leading department of anesthesia in the country, and amongst the leading departments in the world, when assessed by all of the usual metrics. Certainly, medical schools are facing internal and external pressure to provide unparalleled academic programs (teaching, research, administration, clinical activities) in the face of dwindling operating revenues, increased competition for research grants, rising costs for salaries, healthcare and education, and recruitment and retention challenges. We must successfully attract new resources and people, target near-term priorities, build on our collective excellence, seek new pathways to collaboration and innovation, and provide a strong foundation to succeed in the years ahead. Defining and measuring our key metrics, or performance indicators, and then tracking them over time, will provide a basis to drive change, innovation, and link our strategic goals to activities in our department.



Sincerely,

A handwritten signature in black ink, appearing to read "Brian Kavanagh", written in a cursive style.

Brian Kavanagh
Professor and Chair

OUR VISION

The provision of safe and innovative anesthetic, analgesic, perioperative and critical illness management for our patients.

OUR MISSION

The delivery and promotion of preeminent perioperative patient care through continued vigilance, innovation, and scholarship.

OUR VALUES

Our values are the principles by which we guide our mission and reflect the values articulated by our university faculty and our core clinical institutions. We cherish the following values:

- Integrity;
- Commitment to innovation and excellence;
- Life-long learning and critical inquiry;
- Diversity and social justice;
- Partnership with our health science centres;
- Collaboration among disciplines, professions, and in our community;
- Support and collegiality;
- Accountability; and,
- Responsiveness to those whom we serve.

ANESTHESIA LEADERSHIP

2015-16

OFFICE OF THE CHAIR AND EXECUTIVE

Dr. Brian Kavanagh	Chair
Dr. Gerald O'Leary	Vice Chair, Clinical Practice, Anesthesiologist-in-Chief, Women's College Hospital and University Health Network (TGH, TWH, Sinai Health System)
Dr. David McKnight	Vice Chair, Education
Dr. David Mazer	Vice Chair, Research
Dr. Sue Belo	Anesthesiologist-in-Chief, Sunnybrook Health Sciences Centre
Dr. Mark Crawford	Anesthesiologist-in-Chief, The Hospital for Sick Children
Dr. John Laffey	Anesthesiologist-in-Chief, St. Michael's Hospital
Dr. Wendy Kubasik	Director, Administration

UNDERGRADUATE EDUCATION PROGRAMS

Dr. Ahtsham Niazi	Director
Dr. Clyde Matava	Electives and e-Learning Coordinator
Dr. Diana Tamir	Preclerkship Coordinator
Dr. Anita Sarmah	Simulation Coordinator
Dr. Marjan Jariani	OSCE Committee Representative
Ms. Katia Malyuzhinets	Undergraduate Program Assistant

SITE COORDINATORS

Dr. Dragan Djordevic	Women's College Hospital
Dr. Christopher Flynn	Trillium Health Centre
Dr. Augustine Rhee	Trillium Health Centre
Dr. Marjan Jariani	UHN (Toronto General Hospital)
Dr. Mital Joshi	Sinai Health System
Dr. Suzanne Lilker	St. Joseph's Health Centre
Dr. Carol Loffelmann	St. Michael's Hospital
Dr. Patrick Mark	Michael Garron Hospital
Dr. Clyde Matava	The Hospital for Sick Children
Dr. Zoe Unger	UHN (Toronto Western Hospital)
Dr. Larry Panos	The Scarborough Hospital - General Division
Dr. Anita Sarmah	Sunnybrook Health Sciences Centre
Dr. Alan Tallmeister	The Scarborough Hospital - Birchmount
Dr. Diana Tamir	UHN (Toronto General Hospital)

POSTGRADUATE EDUCATION PROGRAMS

Dr. Lisa Bahrey	Director
Dr. Henderson Lee	Director, Family Practice Anesthesia
Dr. Tobias Everett	Anesthesia Simulator Curriculum Coordinator
Dr. Beverly Morningstar	Resident Counselor
Ms. Jennifer Morris	Program Assistant

SITE COORDINATORS

Dr. Deven Chandra	St. Michael's Hospital
Dr. Mitch Weisbrod	Michael Garron Hospital
Dr. Alayne Kealey	Sunnybrook Health Sciences Centre
Dr. Kyle Kirkham	UHN (Toronto Western Hospital)
Dr. Henderson Lee	Family Practice Anesthesia Program
Dr. Martin Ma	UHN (Toronto General Hospital)
Dr. Katherine Marseu	UHN (Toronto General Hospital)
Dr. Elaine Ng	The Hospital for Sick Children
Dr. Arun Prasad	Women's College Hospital/TWH
Dr. Aliya Salman	Mount Sinai Hospital

FELLOWSHIP EDUCATION PROGRAMS

Dr. Doreen Yee	Director, Fellowship & International Graduate Programs
Ms. Katia Malyuzhinets	Program Assistant

SITE COORDINATORS

Dr. Ki Jinn Chin	UHN (Toronto Western Hospital)
Dr. Paul McHardy	Sunnybrook Health Sciences Centre
Dr. Andrea Rigamonti	St. Michael's Hospital
Dr. Naveed Siddiqui	Mount Sinai Hospital
Dr. Coimbatore Srinivas	UHN (Toronto General Hospital)
Dr. Ilavajady Srinivasan	The Hospital for Sick Children

CONTINUING EDUCATION AND PROFESSIONAL DEVELOPMENT

Dr. Peter Slinger	Director, CE-PD Programs
Dr. Zeev Friedman	Chair, Annual Shields Research Day 2016
Dr. Martin van der Vyver	Chair, Faculty Development Day 2015

FACULTY DEVELOPMENT PROGRAMS

Dr. Vincent Chan	Director (effective May 1, 2016)
Dr. Martin van der Vyver	Director (to April 30, 2016)

DEPARTMENT COMMITTEES

Executive Committee	B. Kavanagh (Chair), S. Belo, M. Crawford, W. Kubasik, J. Laffey, D. Mazer, D. McKnight, G. O'Leary
Education Council	D. McKnight (Chair), L. Bahrey, V. Chan, J. Hanlon, B. Kavanagh, H. Lee, K. Malyuzhinets (Secretary), A. Niazi, P. Slinger, D. Yee
Department Appointments Committee	B. Macpherson (Chair), M. Graham, S. Halpern, C. Loffelmann, W. Kubasik, A. Perlas
Promotions Committee	M. Crawford (Chair), S. Beattie, R. Brull, F. Chung, J. Katz, B. Kavanagh, J. Laffey, D. Mazer, B. Orser, J. Tarshis, J. Wassermann
Continuing Medical Education/ Professional Development	P. Slinger (Chair), P. Angle, S. Davies, L. Eisen, M. Friedlander, L. Isaac, B. Kavanagh, J. Kay, C. Knapp, D. McKnight, A. Rigamonti, J. Tarshis, M. van der Vyver, L. Venkatraghavan

Faculty Development	M. van der Vyver (Chair), L. Bahrey, K. Kanduja, B. Kavanagh, S. Lilker, N. Lo, C. Matava, D. McKnight, S. Riazi
Fellowship Education Committee	D. Yee (Chair), K.J. Chin, P. McHardy, D. McKnight, J. Morris (Secretary), A. Rigamonti, N. Siddiqui, C. Srinivas, I. Srinivasan
Postgraduate Education Committee	L. Bahrey, (Chair), Z. Al-Mousawy, L. Bahrey, S. Bragg (PG1), D. Chandra, I. Devito, V. Kamble, B. Kavanagh, A. Kealey, K. Kirkham, A. Krishna (PG5), M. Ma, D. Mazer, D. McKnight, B. Morningstar, J. Morris (Secretary), E. Ng, L.A. Noyahr (PG3), A. Prasad, A. Salman, S. Yu (PG2)
Research Committee	D. Mazer (Chair), A. Baker, S. Beattie, M. Crawford, Z. Friedman, S. Halpern, S. Kapoor, B. Kavanagh, M. Levine, A. MacArthur, D. McKnight, B. Orser, G. Petroz, D. Yee
Undergraduate Education Committee	A. Niazi (Chair), E. Baig (Resident), V. Chinnappa, M. Choi, G. Cronin (Secretary), S. Desousa, H. Felice (Year 3 Rep), C. Flynn, A. Green, M. Joshi, B. Kavanagh, S. Lilker, C. Loffelmann, D. McKnight, P. Mark, C. Matava, H. Meng (Year 4 Rep), A. Niazi, L. Panos, A. Sarmah, E. Siu (Resident), D. Tamir, A. Tallmeister, D. Thakrar (Resident)
Faculty Development Day 2015 Planning	M. van der Vyver (Chair), B. Kavanagh, K. Khanduja, W. Kubasik, C. Matava
Shields Day 2016 Planning Committee	Z. Friedman (Chair), B. Kavanagh, W. Kubasik

2016-17

OFFICE OF THE CHAIR AND EXECUTIVE

Dr. Brian Kavanagh	Chair
Dr. Gerald O'Leary	Vice Chair, Clinical Practice, Anesthesiologist-in-Chief, Women's College Hospital and University Health Network (TGH, TWH, Sinai Health System)
Dr. Mark Levine	Vice Chair, Education
Dr. Keyvan Karkouti	Vice Chair, Research
Dr. Sue Belo	Anesthesiologist-in-Chief, Sunnybrook Health Sciences Centre
Dr. Mark Crawford	Anesthesiologist-in-Chief, The Hospital for Sick Children
Dr. John Laffey	Anesthesiologist-in-Chief, St. Michael's Hospital
Dr. Wendy Kubasik	Director, Administration

UNDERGRADUATE EDUCATION PROGRAMS

Dr. Ahtsham Niazi	Director
Dr. Maisie Tsang	Electives Coordinator
Dr. Diana Tamir	Preclerkship Coordinator
Dr. Anita Sarmah	Simulation Coordinator
Dr. Marjan Jariani	OSCE Committee Representative
Dr. Natalie Clabel	LinC Committee Representative
Ms. Hanaa Ahsan	Undergraduate Program Assistant

SITE COORDINATORS

Dr. Zoe Unger	Women's College Hospital
Dr. Christopher Flynn	Trillium Health Centre – Credit Valley Hospital
Dr. Augustine Rhee	Trillium Health Centre – Mississauga Hospital
Drs. Marjan Jariani & Diana Tamir	UHN (Toronto General Hospital)
Dr. Eric You-Ten	Mount Sinai Hospital
Dr. Suzanne Lilker	St. Joseph's Health Centre
Dr. Carol Loffelmann	St. Michael's Hospital
Dr. Patrick Mark	Michael Garron Hospital
Dr. Maisie Tsang	The Hospital for Sick Children
Dr. Zoe Unger	UHN (Toronto Western Hospital)
Dr. Larry Panos	The Scarborough Hospital - General Division
Dr. Anita Sarmah	Sunnybrook Health Sciences Centre
Dr. Alan Tallmeister	The Scarborough Hospital – Birchmount
Dr. Darryl Irwin	North York General Hospital

POSTGRADUATE EDUCATION PROGRAMS

Dr. Lisa Bahrey	Director
Dr. Henderson Lee	Director, Family Practice Anesthesia
Dr. Tobias Everett	Anesthesia Simulator Curriculum Coordinator
Dr. Fahad Alam	Resident Wellness Lead
Ms. Jennifer Morris	Program Assistant

SITE COORDINATORS

Dr. Deven Chandra	St. Michael's Hospital
Dr. Jamie Kulchyk	Michael Garron Hospital
Dr. Alayne Kealey	Sunnybrook Health Sciences Centre
Dr. Kyle Kirkham	UHN (Toronto Western Hospital)/WCH
Dr. Henderson Lee	Family Practice Anesthesia Program
Dr. Katherine Marseu	UHN (Toronto General Hospital)
Dr. Elaine Ng	The Hospital for Sick Children
Dr. Mandy Lam	The Hospital for Sick Children
Dr. Stephen Lee	St. Joseph's Health Centre
Dr. Aliya Salman	Mount Sinai Hospital

PAIN MEDICINE EDUCATION PROGRAM

Dr. John Hanlon	Director, Pain Medicine
Ms. Jennifer Moris	Program Assistant

SITE COORDINATORS

Dr. Paul Tumber	UHN (Toronto Western Hospital)
Dr. Martin Van Der Vyver	Sunnybrook Health Sciences Centre
Dr. John Hanlon	St. Michael's Hospital
Dr. Allan Gordon	Mount Sinai Hospital
Dr. Hance Clarke	UHN -Toronto General Hospital – Multidisciplinary Clinic
Dr. Adrienne Tan	UHN- Toronto General Hospital – Psychiatry
Dr. Stephen Brown	The Hospital for Sick Children
Dr. Ahmed Al-Awamer	Princess Margaret Hospital (Cancer)
Dr. John Flannery	UHN – Toronto Rehab Institute (Physiatry)
Dr. Wiplove Lamba	St. Michaels Hospital (Addictions)
Dr. Jacqueline Hochman	Womens College Hospital – Rheumatology
Dr. Jason Lazarou	UHN – Toronto General Hospital – Neurology

Dr. Angela Mailis-Gagnon Pain and Wellness Centre

FELLOWSHIP EDUCATION PROGRAMS

Dr. Doreen Yee Director, Fellowship Programs
Ms. Hanaa Ahsan Program Assistant

SITE COORDINATORS

Dr. Ki Jinn Chin UHN (Toronto Western Hospital)
Dr. Paul McHardy Sunnybrook Health Sciences Centre
Dr. Niamh McAuliffe St. Michael's Hospital
Dr. Naveed Siddiqui Mount Sinai Hospital
Dr. Coimbatore Srinivas UHN (Toronto General Hospital)
Dr. Ilavajady Srinivasan The Hospital for Sick Children

CONTINUING EDUCATION AND PROFESSIONAL DEVELOPMENT

Dr. Peter Slinger Director, CE-PD Programs
Dr. Zeev Friedman Chair, Annual Shields Research Day 2017
Dr. Vincent Chan Chair, Faculty Development Day 2016

FACULTY DEVELOPMENT PROGRAMS

Dr. Vincent Chan Director (effective May 1, 2016)
Dr. Martin van der Vyver Director (to April 30, 2016)

DEPARTMENT COMMITTEES

Executive Committee	B. Kavanagh (Chair), S. Belo, M. Crawford, J. Laffey, D. Mazer, D. McKnight, G. O'Leary, W. Kubasik
Education Council	M. Levine (Chair), L. Bahrey, V. Chan, J. Hanlon, B. Kavanagh, H. Lee, H. Ahsan (Secretary), A. Niazi, P. Slinger, D. Yee
Department Appointments Committee	B. Macpherson (Chair), M. Graham, S. Halpern, C. Loffelmann, W. Kubasik, A. Perlas
Promotions Committee	M. Crawford (Chair), S. Beattie, R. Brull, F. Chung, J. Katz, B. Kavanagh, J. Laffey, D. Mazer, B. Orser, J. Tarshis, J. Wassermann
Continuing Medical Education/ Professional Development Faculty Development	P. Slinger (Chair), P. Angle, S. Davies, L. Eisen, M. Friedlander, L. Isaac, B. Kavanagh, J. Kay, C. Knapp, D. McKnight, A. Rigamonti, J. Tarshis, M. van der Vyver, L. Venkatraghavan
Fellowship Education Committee Pain Medicine Committee	V. Chan (Chair), F. Alam, L. Bahrey, M. Garavaglia, K. Kanduja, B. Kavanagh, S. Lilker, N. Lo, C. Matava, D. McKnight, P. Slinger D. Yee (Chair), K.J. Chin, P. McHardy, M. Levine, H. Ahsan (Secretary), N. McAuliffe, N. Siddiqui, C. Srinivas, I. Srinivasan
Postgraduate Education Committee	J. Hanlon (Chair), J. Morris (Secretary), P. Tumber, M. Van Der Vyver, H. Clarke, S. Brown, A. Al-Awamer, J. Flannery, W. Lamba, J. Hochman, J. Lazarou
Research Committee	L. Bahrey (Chair), J. Morris (Secretary), F. Alam, T. Everett, D. Chandra, J. Kulchyk, A. Kealey, K. Kirkham, H. Lee, K. Marseu, E. Ng, M. Lam, S. Lee, A. Salman
	D. Mazer (Chair), A. Baker, S. Beattie, M. Crawford, Z. Friedman, S. Halpern, S. Kapoor, B. Kavanagh, M. Levine, A. MacArthur, D. McKnight, B. Orser, G. Petroz, D. Yee

**Undergraduate Education
Committee**

A.Niazi (Chair), H. Ahsan (Secretary), S. Desousa, S. Leem (Year 3 Rep), C. Flynn, E. You-Ten, B. Kavanagh, S. Lilker, C. Loffelmann, M. Levine, P. Mark, C. Matava, M. Tsang, H. Meng (Resident), L.Panos, A. Sarmah, E. Siu (Resident), D. Tamir, A. Tallmeister, D. Irwin, A. Rhee, M. Jariani, Z. Unger, N. Clavel, M. Kukko (Year 4 Rep)

**Faculty Development Day
2016 Planning**

V. Chan (Co-Chair), K. Khanduja, W. Kubasik, C. Matava

**Shields Day 2017 Planning
Committee**

Z. Friedman (Chair), B. Kavanagh, W. Kubasik

FULLY AFFILIATED HOSPITALS

The University of Toronto and thus, the Department of Anesthesia, has full affiliation agreements with seven Toronto-area hospitals. We have more than 270 full-time faculty members at the following hospitals (please see our website at www.anesthesia.utoronto.ca for a full list of our faculty members, including biographical information):

- Mount Sinai Hospital
- St. Michael's Hospital
- Sunnybrook Health Sciences Centre
- The Hospital for Sick Children
- University Health Network (includes Toronto General Hospital and Toronto Western Hospital, Toronto Rehab and Princess Margaret)
- Women's College Hospital
- Baycrest
- Centre for Addiction and Mental Health
- Holland Bloorview Kids Rehabilitation Hospital
- Sinai Health System (includes Bridgepoint)

TORONTO ACADEMIC HEALTH SCIENCE NETWORK (TAHSN) ASSOCIATE MEMBERS

- North York General Hospital
- St. Joseph's Health Centre (Toronto)
- Michael Garron/Toronto East General Hospital
- Trillium Health Partners (includes Credit Valley Hospital, Mississauga Hospital, Queensway Health Centre)

COMMUNITY AFFILIATED HOSPITALS

We are proud to have built strong relationships with several community-affiliated hospitals. Our clerks and residents participate in educational programs at these hospitals, and we have more than 100 part-time faculty members. Our community affiliates include:

- Humber River Regional Hospital
- Lakeridge Health
- Markham-Stouffville Hospital
- Ontario Shores Centre for Mental Health Sciences
- Providence Healthcare
- Rouge Valley Health System
- Royal Victoria Hospital (Barrie)
- The Scarborough Hospital
- Southlake Regional Health Centre
- West Park Healthcare Centre
- Waypoint Centre for Mental Health Care
- William Osler Health System

NON-HOSPITAL CLINICAL SITES

- Anishnawbe Health Toronto
- Canadian Blood Services
- City of Toronto
- George Hull Centre for Children and Families
- Hincks-Dellcrest Centre
- Kensington Eye Institute
- Ontario Forensic Pathology Service
- Public Health Ontario
- Surrey Place Centre
- Toronto Public Health
- Victorian Order of Nurses Canada
- Youthdale Treatment Centres

RECOGNITION OF EXCELLENCE: HONOURS, AWARDS, CHAIRS AND PROMOTIONS (2015-2016)

The following University department awards were presented at the 37th Annual Shields Research Day on Friday, May 13, 2016:

- The *Dr. R.J. Byrick Award* recognizes the best fellow's research paper presented at the Annual Shields Research Day: **Dr. Lei Lei**
- The *Dr. A.C. Bryan Award* is awarded to a graduate student judged to have presented the best research project at the Annual Shields Research Day: **Dr. Nikhil Mistry**
- The *Dr. Hynek Rothbart Award* for the best paper presented by a resident at the Annual Shields Research Day: **Dr. Micharl Sklar**
- The *Thomas Donald Hammell Memorial Award in Anesthesia*, is awarded in recognition of outstanding contributions to the Residency Program, as chosen by other residents: **Dr. Chris Farlinger**
- The *UT David Bevan Best Shields Day Poster Award*: **Dr. David Levin**
- The *Dr. Evelyn Bateman Award* is awarded in recognition of excellence in anesthesia at the undergraduate level: **Dr. Justin Oh**
- The *Dr. Alan K. Laws Clinician Scientist Fellowship* promotes excellence in training anesthesiologists for careers as Clinician-Scientists (1-2 years). It is one of two awards given by the Department of Anesthesia in honour and memory of Dr. Alan K. Laws. The recipients in 2015/2016 were **Drs. Ashwin Sankar, Lavarathan Sivanathan and Joshua Bell**. All three are residents in Anesthesia.
- The *Marion and Earl Orser Prize* in Anesthesia and Sleep Sciences was created in 2015 through a generous donation by Mr. and Mrs. Earl and Marion Orser. Two awards are available (clinical sciences and basic/translational sciences), and are open to residents, clinical fellows, post-doctoral fellows or graduate students within the UT Faculty of Medicine that have a focus on the discipline of Anesthesia Sciences, who are the first author of a paper published (or in press) in 2015. The recipients in 2016 were **Drs. Neil Goldenberg and Hillen Cruz Eng**.
- The Alan K. Laws Travel Fellowship provides travel support for senior residents and fellows in furthering academic interests and research projects in anesthesia: **Drs. Matthew Lee, Pablo Perez D'Empaire and Asad Siddiqui**.
- On an annual basis, the Department of Anesthesia at the University of Toronto funds tuition awards for residents or fellows in the Department of Anesthesia, University of Toronto. This year, this program was generously supported by a donation from Dr. Trisha Mark, and alumnus of our residency program. Please join us in thanking Dr. Mark for her generous support. In 2015/2016, the recipients are **Drs. Asad Siddiqui and Eric Siu**.

- The *Award for Clinical Excellence* is awarded by the UT Department of Anesthesia to full or part-time faculty members in the department within each of the fully or partially affiliated hospitals and their respective sites who has been judged by the department's faculty, fellows and residents to be an outstanding clinician within the Anesthesia community: **Drs. James Robertson (The Hospital for Sick Children), Greg Silverman (Mount Sinai Hospital), Marcus Wong (St. Joseph's Health Centre), Bok Man Chan (St. Michael's Hospital), Vaibhav Kamble (Michael Garron Hospital), Rita Katznelson (Toronto General Hospital), Pirjo Manninen (Toronto Western Hospital), Jonathan Kong (Sunnybrook Health Sciences Centre) and Pam Morgan (Women's College Hospital).**

The following University department teaching awards were presented at the Annual Faculty Development Day event on November 11, 2015:

- The *Dr. John Desmond Award* recognizes excellence in clinical teaching of undergraduate students: **Dr. Clyde Matava**
- The *Dr. Gerald Edelist Award* is awarded to a faculty member in recognition of excellence as a clinical teacher of residents in anesthesia: **Dr. Aliya Salman**
- The *Dr. David Fear Award* is awarded for outstanding contributions to continuing medical education and continuing professional development in the Department of Anesthesia: **Dr. Tobias Everett**
- The *Interprofessional Teaching Award* recognizes outstanding teaching both within and outside of the anesthesia community: **Dr. Fiona Campbell**
- The *New Faculty Teaching Excellence Award* recognize a faculty member within the first three (3) years of appointment who has been nominated by the department's faculty, fellows, or residents as an outstanding teacher or mentor: **Dr. Neilesh Soneji**

Congratulations to UT Anesthesia Department members on their success at the 2016 Canadian Anesthesiologists' Society Annual Meeting (CAS)!

CAS Research Operating Grants & Awards

- Winner of the Richard Knill Competition: **Dr. Sheila Riazi**
- Winner of the Cardiac Anesthesiologists' Society Research Award: **Dr. Sinziana Avramescu**
- Winner of the Dr. Earl Wynands Research Award in Cardiovascular Anesthesia: **Dr. Keyvan Karkouti**
- Winner of the Dr. A Gordon Research Award for Innovation in Patient Safety: **Dr. Zeev Friedman**

CAS Best Paper Winners:

- Award for Best Paper in Obstetric Anesthesia: **Dr. Mrinalini Balki**
- Award for Best Paper in Pediatric Anesthesia: **Dr. Ushma Shah**
- Award for Best Paper in Education and Simulation: **Dr. Tobias Everett**

RECOGNITION OF EXCELLENCE: HONOURS, AWARDS, CHAIRS AND PROMOTIONS (2016-2017)

The following University department awards were presented at the 38th Annual Shields Research Day on April 28, 2017:

- The *Dr. R.J. Byrick Award* recognizes the best fellow's research paper presented at the Annual Shields Research Day: **Dr. Giulia Marie Ruggeri**.
- The *Dr. A.C. Bryan Award* is awarded to a graduate student judged to have presented the best research project at the Annual Shields Research Day: **Dr. Bhushan Katira**.
- The *Dr. Hynek Rothbart Award* for the best paper presented by a resident at the Annual Shields Research Day: **Dr. Jay Shou Han**.
- The *Thomas Donald Hammell Memorial Award in Anesthesia*, is awarded in recognition of outstanding contributions to the Residency Program, as chosen by other residents: **Dr. Alex Petre**.
- The *UT David Bevan Best Shields Day Poster Award*: **Dr. Takeshi Yoshida**.
- The *Marion and Earl Orser Prize* in Anesthesia and Sleep Sciences was created in 2015 through a generous donation by Mr. and Mrs. Earl and Marion Orser. Two awards are available (clinical sciences and basic/translational sciences), and are open to residents, clinical fellows, post-doctoral fellows or graduate students within the UT Faculty of Medicine that have a focus on the discipline of Anesthesia Sciences, who are the first author of a paper published (or in press) in 2016. The recipients in 2017 were **Drs. Michael Sklar and Yoshida Takeshi**.
- The *Alan K. Laws Travel Fellowship* provides travel support for senior residents and fellows in furthering academic interests and research projects in anesthesia: **Drs. Kapil Gupta, Ashutosh Joshi and Sophia Lane**.
- The *Dr. Evelyn Bateman Award* is awarded in recognition of excellence in anesthesia at the undergraduate level: **Dr. Madelaine Kukko**.
- On an annual basis, the Department of Anesthesia at the University of Toronto funds tuition awards for residents or fellows in the Department of Anesthesia, University of Toronto. This year, this program was generously supported by a donation from Dr. Trisha Mark, and alumnus of our residency program. Please join us in thanking Dr. Mark for her generous support. In 2016/2017, the recipients are **Drs. Naheed Jivraj (Resident, PGY2) and Akash Goel (Resident, PGY2)**.
- The *Award for Clinical Excellence* is awarded by the UT Department of Anesthesia to full or part-time faculty members in the department within each of the fully or partially affiliated hospitals and their respective sites who has been judged by the department's faculty, fellows and residents to be an outstanding clinician within the Anesthesia community: **Drs. James Kulchyk (Michael Garron Hospital), Kristina Khanduja (Mount Sinai Hospital), Randy Yue (Southlake)**

Regional Health Centre), David Holt (St. Joseph's Health Centre), Rachel Martin (St. Michael's Hospital), Jordan Tarshis (Sunnybrook Health Sciences Centre), Jane Heggie (UHN – Toronto General Hospital), Vincent Chan (UHN – Toronto Western Hospital), Bernard Braude (The Hospital for Sick Children) and Jacob Lai (Women's College Hospital).

The following University department teaching awards were presented at the Annual Faculty Development Day event on November 11, 2016:

- The *Dr. John Desmond Award* recognizes excellence in clinical teaching of undergraduate students: **Dr. Natalie Clavel (UHN-Toronto Western Hospital)**.
- The *Dr. Gerald Edelist Award* is awarded to a faculty member in recognition of excellence as a clinical teacher of residents in anesthesia: **Dr. Alayne Kealey (Sunnybrook Health Sciences Centre)**.
- The *Dr. David Fear Award* is awarded for outstanding contributions to continuing medical education and continuing professional development in the Department of Anesthesia: **Dr. Jordan Tarshis (Sunnybrook Health Sciences Centre)**.
- The *Interprofessional Teaching Award* recognizes outstanding teaching both within and outside of the anesthesia community: **Dr. Irene McGhee (Sunnybrook Health Sciences Centre)**.
- The *New Faculty Teaching Excellence Award* recognize a faculty member within the first three (3) years of appointment who has been nominated by the department's faculty, fellows, or residents as an outstanding teacher or mentor: **Dr. Richelle Krusselbrink (UHN-Toronto Western Hospital)**.

Congratulations to UT Anesthesia Department members on their success at the 2017 Canadian Anesthesiologists' Society Annual Meeting (CAS)!

CAS Awards

- Winner of the Research Recognition Award: Dr. Gregory Hare
- Winner of the Gold Medal Award: Dr. Beverley Orser

CAS Best Paper Winners:

- Residents' Competition – Second Place: Dr. Justyna Bartoszko
- Best Paper in Ambulatory Anesthesia: Dr. Yamini Subramani
- Best Paper in Neuroanesthesia: Dr. Elyana Wohl
- Best Paper in Pediatric Anesthesia: Dr. Maria Salman
- Best Paper in Perioperative Anesthesia: Dr. Justyna Bartoszko

The following individuals have received competitive peer-reviewed merit awards through the UT Department of Anesthesia for the period 2015-2017.

RESEARCH MERIT AWARDS:

Recipient	Hospital	Project Title	Award Value/Annum
Abdallah, Faraj	St. Michael's	The PASS Trial (Pain-relief Alternatives for Shoulder Surgery)	\$ 35,000
Baker, Andrew	St. Michael's	The role of neuroinflammation following traumatic brain injury to the pathogenesis of neurodegenerative disorders	\$ 30,000
Balki, Mrinalini	Sinai Health System	Optimizing contractility in desensitized human myometrium: Pulsatile oxytocin pretreatment and role of calcium	\$ 30,000
Beattie, W. Scott	UHN-Toronto General	The mechanisms, clinical impact, prevention, and treatment of postoperative myocardial Injury An ongoing multidisciplinary collaborative program	\$ 35,000
Brull, Richard	UHN-Toronto Western	The Analgesic Effects of Serratus Plane Block for Breast Cancer Surgery: A Randomized Clinical Trial	\$ 35,000
Clarke, Hance	UHN-Toronto General	The Development of a Transitional Pain Program: Reducing pain disability & persistent opioid use after major surgery	\$ 30,000
Cuthbertson, Brian	Sunnybrook	The SuDDICU study- A cluster RCT of the effectiveness of SDD in the critically ill	\$ 40,000
Djaiani, George	UHN-Toronto General	A unique brain stress test in identifying patients at risk for postoperative delirium	\$ 30,000
Fisher, Joseph	UHN-Toronto General	Pre-operative cerebrovascular dysfunction and risk of post-op delirium, cognitive decline and stroke	\$ 30,000
Hare, Greg	St. Michael's	Hemoglobin Optimization to Improve Event Free Survival in Patient with Perioperative Anemia	\$ 35,000
Jerath, Angela	UHN-Toronto General	Distinct Insights Into Acute Care Medicine: Innovative Trials	\$ 30,000
Karkouti, Keyvan	UHN-Toronto General	Blood conservation in cardiac surgery using a novel transfusion algorithm based on point-of-care testing: a stepped-wedge cluster randomized controlled trial	\$ 40,000
Laffey, John	St. Michael's	Therapies for Acute Respiratory Distress Syndrome (ARDS)	\$ 40,000
Laussen, Peter	Hospital for Sick Children	Validating a hemodynamic early warning system in pediatric critical care	\$ 30,000

Maynes, Jason	Hospital for Sick Children	Modeling cardiomyopathy and potential therapies using personalized stem-cell derived cardiomyocytes	\$ 30,000
Mazer, David	St. Michael's	Clinical Trials to Improve Outcomes in Patients Undergoing Cardiovascular Surgery	\$ 35,000
Peng, Philip	UHN-Toronto Western	Applied Anatomy of Hip and Knee Innervation relevant to Ultrasound Guided Neural Ablation	\$ 35,000
Riazi, Sheila	UHN-Toronto Western	Phenotypic variability in malignant hyperthermia (MH) patients: Functional alterations at the cellular level	\$ 35,000
Wasowicz, Marcin	UHN-Toronto General	Liver transplantation: introduction of novel technologies into perioperative management	\$ 30,000
Wijeyesundera, Duminda	UHN-Toronto General	The PRISM Study: An International Multicentre Cohort Study To Evaluate New Disability After Major Surgery	\$ 60,000

EDUCATION AND CPA MERIT AWARDS:

Recipient	Hospital	Project Title	Award Value/ Annum
Chin, Ki Jinn	UHN-Toronto Western	Simplifying ultrasound-assisted lumbar neuraxial block in patients with difficult anatomy	\$ 20,000
Davies, Sharon	Sinai Health System	Spinal Ultrasound: Creating an Accredited Online Continuing Education Module for Practicing Anesthesiologists	\$ 20,000
Friedman, Zeev	Sinai Health System	Failing to Fail Under-performing Residents- Do We Have a Problem?	\$ 30,000
Meineri, Massimiliano	UHN-Toronto General	Development of a 3D transesophageal echocardiography research center and cardiac 3D printing facility for teaching, research and surgical planning.	\$ 20,000
Vegas, Annette	UHN-Toronto General	Development of Perioperative Transesophageal Echocardiography Exam (PTEexam) Web Simulation and Study Guide	\$ 20,000

ADVANCEMENT: ENDOWED CHAIRS

Chairs Currently held by UT Anesthesia Faculty:

Faculty Member	Chair	Hospital/Institution
Andrew Baker	Cara Phelan Chair in Critical Care	St. Michaels Hospital
Scott Beattie	R. Fraser Eliot Chair In Cardiac Anesthesia	UHN - Toronto General Hospital
Mark Crawford	Curtis Joseph and Harold Groves Chair in Paediatric Anesthesia and Pain Medicine	The Hospital for Sick Children
Brian Kavanagh	Dr. Geoffrey Barker Chair in Critical Research	The Hospital for Sick Children
Peter Laussen	David and Stacy Cynamon Chair in Critical Care Medicine	The Hospital for Sick Children
Pending 2017	Endowed Chair in Anesthesiology and Sleep Medicine at the University Health Network	A Donor/UofT Anesthesia/UHN- Toronto Western Hospital Foundation/ UHN Anesthesia Services Inc.
Pending 2017	Chair in Translational Anesthesia Research	UT Anesthesia/St. Michael's Hospital/SMH Anaesthesia Services
Jason Maynes	Wasser Chair in Pain Management	UofT Anesthesia/The Hospital for Sick Children/HSC Anesthesia Practice Plan
Richard Brull	Evelyn Bateman Cara Operations Chair in Ambulatory Anesthesia and Women's Health	UT Anesthesia/Women's College Hospital/UHN Anesthesia Services Inc.

FACULTY PROMOTIONS AND RECOGNITION

Academic Promotions: 2015-2017

We are very pleased to announce the following academic promotions, effective July 1, 2015:

- **To the rank of Full Professor:** Dr. Keyvan Karkouti (UHN-Toronto General Hospital)
- **To the rank of Associate Professor:**
 - Dr. Lisa Bahrey (UHN-Toronto General Hospital)
 - Dr. Michael Gofeld (UHN-Toronto General Hospital)
 - Dr. Stuart McCluskey (UHN-Toronto General Hospital)
 - Dr. Sheila Riazzi (UHN-Toronto General Hospital)
 - Dr. Duminda Wijesundera (UHN-Toronto General Hospital)

And, effective July 1, 2016:

- **To the rank of Full Professor:**
 - Dr. George Djaiani (UHN-Toronto General Hospital)
 - Dr. Annette Vegas (UHN-Toronto General Hospital)
- **To the rank of Associate Professor:**
 - Dr. Cristian Arzola (Sinai Health System)
 - Dr. Ahtsham Niazi (UHN-Toronto Western)
 - Dr. Katherine Taylor (The Hospital for Sick Children)
 - Dr. Lashmi Venkat Raghavan (UHN-Toronto Western Hospital)

We are also pleased to announce the following Junior Academic Promotions, effective as noted:

To the rank of Assistant Professor:

- Dr. Edgar Hockmann, effective February 1, 2016 (Sunnybrook Health Sciences Centre)
- Dr. Sunil Kapoor, effective February 1, 2016 (Michael Garron Hospital)
- Dr. Alayne Kealey, effective June 1, 2016 (Sunnybrook Health Sciences Centre)
- Dr. Katherine Marseu, effective June 1, 2016 (UHN-Toronto General Hospital)
- Dr. Joshua Rucker, effective June 1, 2016 (Sinai Health System)
- Dr. Aliya Salman, effective February 1, 2016 (Sinai Health System)

ANESTHESIA EDUCATION

Report from Dr. Mark Levine

VICE CHAIR, *EDUCATION*

The Department of Anesthesia at the University of Toronto is the largest in Canada and provides educational experiences for a wide variety of learners. Over 300 faculty members in 14 affiliated and community sites are enthusiastically involved in educating the full range of learners including approximately 100 full time anesthesia, pain medicine and family practice anesthesia residents, many elective residents, over 100 fellows, undergraduate students, graduate students, allied health professionals and anesthesiologist in practice who participate in Continuing Education and Faculty Development programs.



The breadth and depth of clinical experience, the variety of educational opportunities and the rich research environment attracts learners from across the globe. Many faculty members are internationally recognized experts in their fields including the areas of educational research and innovation. In the past few years this has been most evident, but not limited to, the residency program. The recent adoption of Competence Based Medical Education, based on the Royal College initiative, Competence by Design, is an excellent example of the dedication, expertise and innovation demonstrated by educators within the department. Within the last 2 years, the Postgraduate Program Director and a large cohort of experts have redesigned the curriculum, introduced new teaching methods, developed unique evaluation tools, and produced an impressive system designed to collate the huge volume of evaluation data now being collected for each resident.

None of these successes would be possible without the support of our dedicated, talented faculty members and the outstanding administrative and technical support provided by our central office and all the affiliated departments. These successes will be further highlighted in the reports from each of the Program Directors.

I would like to thank and congratulate all who have contributed to these outstanding achievements over the past years.

UNDERGRADUATE EDUCATION PROGRAM

Report from Dr. Ahtsham Niazi

DIRECTOR, UNDERGRADUATE EDUCATION PROGRAM

In the 2016-2017 academic year, the Undergraduate program continued to grow and develop its program by strengthening our e-learning tools and our relationship with our community partners.

Our anesthesia course manual was launched as an iBook, allowing students to access it on their iPads, iPhones and laptops. Students have found the iBook to be very user friendly as they can bookmark important pages, take notes on it and access it from anywhere, on any device, and at any time. A PDF version is still available for students who do not have an iOS device and allows students to print important chapters for their personal use.

The Acute Pain Module, which was developed by Drs. Diana Tamir and Clyde Matava, was also introduced this year. This replaced the last remaining teaching seminar that was being taught to medical students. The anesthesia undergraduate program now has seven e-modules on the following topics: pre-operative assessment, airway, regional anesthesia, obstetric anesthesia, acute pain management and two simulation modules. We are in the process of creating one more e-module on Fluid Management which is being developed by Drs. Beverly Morningstar and Clyde Matava; and we hope to have this ready in preparation for the next academic year.

Due to logistic reasons, our community partners have been unable to attend our monthly Undergraduate Education (UGME) Committee Meetings. The Committee highly values the input our community sites have to offer and strongly felt their lack of presence. To make our meetings more inclusive, we began using a video conferencing platform, Zoom, which enables our community partners to join our meetings remotely without coming downtown. Instructions have been provided to all community sites and community site coordinators are actively joining our meetings through their smartphones, thus greatly improving our community attendance. In addition to this, UGME committee has nominated Dr. Patrick Mark, Undergraduate Site Lead at Michael Garron Hospital, as the committee's community lead. In his role as Community Lead, Dr. Mark brings forward a community report at our monthly UGME meetings, which highlights issues experienced by community sites. These issues are addressed by the Director, the Vice Chair of Education and the entire UGME committee.

With the introduction of the iBook, we received feedback from our student representatives on the UGME committee, which we hope to incorporate in the next edition of the iBook. Students requested the manual to be more concise and short, as it is quite lengthy. The UGME committee also noted that some of the content was not up to date. In light of this feedback, we have approached old and new authors of our iBook, and requested their assistance in revising and updating their chapters. The content of the 2nd Edition of the iBook will be reviewed by expert faculty within the University of Toronto, and be more concise and up-to-date. We plan to release the 2nd Edition of the iBook in 2017-2018.

The Longitudinal Integrated Curriculum (LInC) is now in its third year. Since the successful launch of the LInC program last year, it has expanded in numbers this year. The LInC anesthesia program now includes twenty seven students who are distributed across six sites as follows: Sunnybrook Health Sciences Center



(4 Students), North York General Hospital (4 Students), Michael Garron Hospital (3 Students), Toronto Western Hospital (4 Students), Mount Sinai Hospital (4 Students) and St. Michael's Hospital (8 students). Students complete the equivalent of nine clinical days in anesthesia, longitudinally over the year with the same preceptor. This longitudinal experience allows the preceptors to see progression of the student's skills and knowledge over the year. Like the core clinical students, the LInC students also attend two simulation days, one at the beginning of their rotation and one near the end. The performance of the students in the Longitudinal Integrated Curriculum program has been equivalent to the students in the anesthesia core rotation, both in their written exam performance and their clinical evaluations.

Changes in roles and responsibilities include Dr. Maisie Tsang taking over from Dr. Clyde Matava as our new Electives Lead, Dr. Lindsay Taam taking over from Dr. Darryl Irwin as our new undergraduate site coordinator for North York General Hospital, Dr. Eric You Ten taking over from Dr. Mital Joshi as our new undergraduate site coordinator for Mount Sinai Hospital and Dr. Patrick Mark as our new Community Site Lead.

In 2015-2016, we sought ways to reward our teaching faculty. We proposed that all University of Toronto affiliated hospitals establish an undergraduate award to reward their outstanding teachers. Most of our hospitals already had an award in place however we hope all hospitals will participate in this program soon. We are happy to announce that Sunnybrook Health Sciences Center was one of the first hospitals to take this initiative and implement an undergraduate teaching award. We are delighted that Dr. Anita Sarmah was the first recipient of this award.

We would like to congratulate Drs. Justin Oh and Madelaine Kukko, who were the recipients of the 2016 and 2017 Dr. Evelyn Bateman Award, for their outstanding contribution to anesthesia as medical students. To recognize their excellence in undergraduate teaching, we would like to congratulate Drs. Natalie Clavel and Dragan Djordjevic, the recipients of the 2016 and 2017 Dr. John Desmond Award. Within the new Foundations Curriculum, our anesthesia faculty continues to participate as tutors for Case Based Learning in the Toronto Patient-Centered Integrated Curriculum (TOPIC). Our faculty is also involved in the Integrated Clinical Experience (ICE) which is a continuation of the Art and Science of Clinical Medicine (ASCM) course. Our faculty is actively involved as Academy Scholars with the Portfolio Program, and as evaluators in the iOSCE assessment of medical students.

A huge reason behind the success of the Department of Anesthesia's Undergraduate Program are the Undergraduate Medical Education Committee members. These are a group of highly dedicated teachers who strive to improve the teaching and anesthesia experience for all medical students. This year I would like to thank them for all their support and help in making this program successful and nationally renowned.

Challenges for the upcoming academic year include the release of the 2nd Edition of the iBook and the final e-module on Fluid Management. In addition, we hope to add to our electronic teaching material by replacing our daily evaluation cards with online evaluations. In preparation for next year, we will replace our current yellow daily evaluation cards with online daily evaluations on MedSIS. These evaluations can be completed by preceptors online, and will enable the anesthesia rotation to become completely paperless.

Figure 1. The new anesthesia clerkship manual.

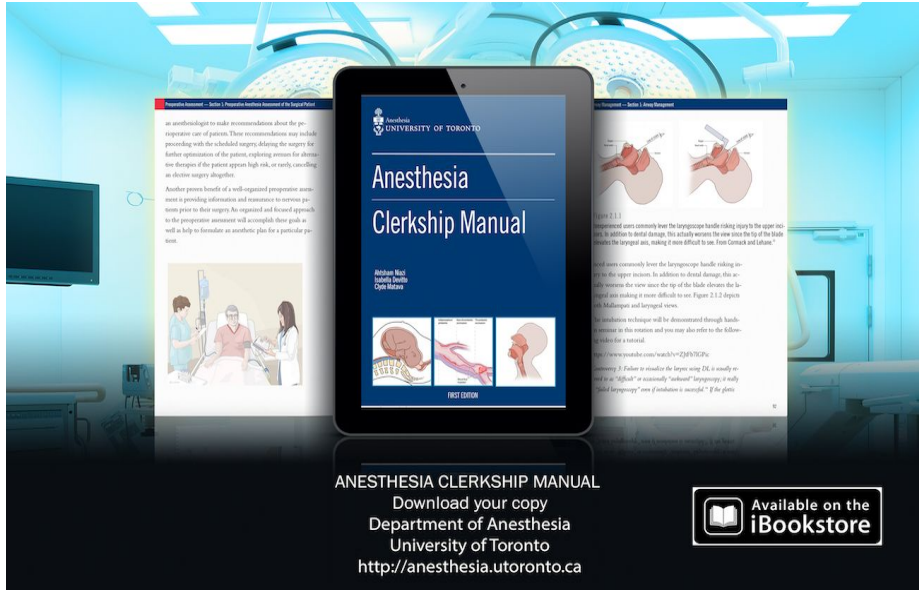
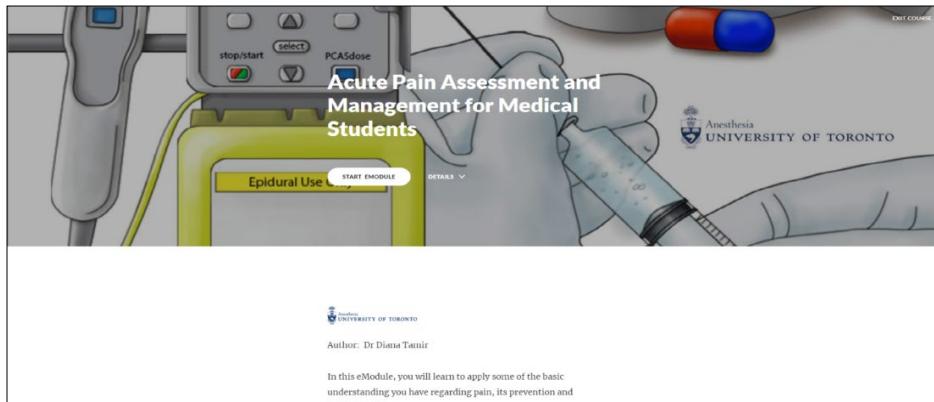


Figure 2. Worldwide download of the Anesthesia Manual iBook (Within 8 weeks of launching)

REGION	UNITS
Canada and US	108
Asia Pacific	2
Europe	2
Latin America and Caribbean	1

Figure 3. The new Acute Pain e-module



POSTGRADUATE EDUCATION PROGRAMS

Report from Dr. Lisa Bahrey

DIRECTOR, POSTGRADUATE EDUCATION PROGRAM

The Residency Program at the University of Toronto remains the largest in Canada with 103 residents. Our program continues to be very popular amongst applicants from Canadian Medical Schools as well as International Medical Graduates. We continue to fill all positions in the first iteration of the CaRMS Match with our highest ranking applicants. This year we welcomed 21 new PGY1 trainees including 4 International Medical Graduates, 2 sponsored trainees and 1 successful transfer trainee from another program. The incoming residents were welcomed with a PGY1 Orientation e-Handbook. This new initiative links incoming residents to key information and resources from the time of the CaRMS Match, including current trainees who serve as near-peer mentors and help navigate the transition to residency.



Research and scholarship are prominent components of our training program. Many of our residents are involved in research, scholarship and advanced degree programs. We currently have 16 residents involved in significant research projects concurrent with their residency training this year and 43 publications as a result. The Clinician Investigator Program has been designed to educate residents in science and medicine so that they are well prepared to embark on careers as clinician scientists. In 2015-2016 we had 7 residents enrolled in this stream, including Drs Gianni Lorello, Neil Goldenberg, Ben Steinberg, Justyna Bartoszko, Joshua Bell, Ashwin Sankar, and Lavarnan Sivanathan.

Significant scholarship continues within the program this year. Six residents are currently enrolled in advanced degrees: Dr. Asad Siddiqui is enrolled in a Master in Education and CACE (Centre for Ambulatory Care Education) a Wilson Centre Associated Fellowship through Women's College Hospital. Drs. Clivatti and Bartoszko are both enrolled in a Master in Education, Dr. Sivanathan in a Master in Clinical Epidemiology, Dr. Law in a Master in Health Policy, and Dr. Eric Siu in a Master of Business Administration. We have several residents actively involved in scholarship and education, including several who have completed learning modules, developed cognitive learning aids, designed and implemented handover tools, and written book chapters.

Our residents were also very successful in acquiring very competitive awards and Honours: Dr. Ben Steinberg was the recipient of the 2015 CSCI/CIHR Resident Research Award. Dr. Ashwin Sankar, Dr. Joshua Bell and Dr. Lavarnan Sivanathan were all recipients of a Dr. Allan K. Laws Clinician Scientist Fellowship Award. Dr. Joshua Bell also received: The Joseph M. West Family Memorial Fund, the William Cron & Jean Harris Memorial Fellowship, and the Starr Medal Awards. Dr. Michael Sklar received the Joseph M. West Family Memorial Fund Award. Dr. Pablo Perez d'Empaire received the 2016 Postgraduate Medical Trainee Leadership Award and was inducted as a Fellow of the American College of Critical Care Medicine.

Many of our residents presented research findings at the 37th Annual Shields Day. Dr. Michael Sklar was the recipient of the Hynek Rothbart Award for Best Resident Oral Presentation and Dr David Levin was presented the David Bevan Award for Best Overall Poster Presentation. The Thomas Donald Hammell Award, for the resident who is identified by his/her peers as the person who has made the greatest

contribution to the program was presented to Dr. Chris Farlinger. The Alan Laws Travel Fellowship Awards were presented to Dr. Pablo Perez d'Empaire and Dr. Asad Siddiqui. Dr. Asad Siddiqui and Dr. Eric Siu each received Resident and Fellows Tuition Awards.

The Program has seen many new initiatives this year. There is now a formal, longitudinal POCUS curriculum which includes a PGY2 and PGY3 hands-on “bootcap”, clinical rotations and academic teaching sessions throughout the year. We are the only program in Canada to have a formal POCUS curriculum. Several new evaluation tools and learning modules have been developed and introduced to support residents in the intrinsic CanMEDs roles. A Resident Wellness Committee has now been formed with Dr Fahad Alam as Resident Wellness Lead. The committee is working to develop a formalized wellness curriculum, in alignment with the ACUDA vision. Dr Sheldon Lyn is now the Community Anesthesia Faculty Liaison and serves to aid residents in organizing educational opportunities at community hospitals. The end of the year saw the introduction of the first annual Voice of the Resident (VOTeR) Survey. This was introduced as a form of annual program feedback and quality improvement initiative.

In the spring of 2016, all fifteen final year residents were successful at the Royal College Examinations and many have remained on as fellows or faculty members at our teaching sites. A reception was held at the Faculty Club to celebrate the successful completion of residency. This event was attended by the graduating anesthesiologists, family members and a number of faculty. Dr. Peter Pisters, President and CEO of University Health Network, was the keynote speaker at this event.

As the Program moves forward and looks ahead to 2017, there will be continued focus on Program Development as we plan to implement The Royal College’s competency based medical education initiative: Competency By Design. Our Program’s strategic planning is well underway. A large Needs Assessment for Curriculum Re-Design has been done with our Program’s key stakeholders and we have been collaborating with both the Royal College and Postgraduate Medical Education at The University of Toronto to make our exceptional program even better.

RESIDENTS 2015-2016

PGY5

Baig, Ehtesham	Gleicher, Yehoshua	Peacock, Sharon
Benson, Garrett	Goodick, David	Song, Yuning
Chbat, Tarek	Huang, Alexander	Sutherland, Ainsley
Cummings, Theresa	Lorello, Gianni	Thakrar, Dipen
Farlinger, Chris	Moeenalsadat, Mahsa	Yau, Brian
Fraser, Tyler	Noyahr, Lori-Anne	

PGY4

Andrawes, Maged	Koziak, Adrian	Petre, Maria-Alexandra
Boulis, Sherif Refaat	Lam, Karen	Steinberg, Benjamin
Dinsmore, Michael	Law, Tyler	Suen, Alexander
Dube, Rebecca	Lee, Kenneth	Valeeva, Liliya
Duncan, Dallas	Levin, David	Van Haaften, Timothy
Goldenberg, Neil	Li, Melinda	White, Alexander
Khan, James	Miller, Marcus	Wiegelmann, Julian
Knight, Jeff	Perez D'Empaire, Pablo	Yu, Savio

PGY3

Bartoszeko, Justyna	Lane, Sophia	Sharma, Richa
Bragg, Susan	Nkemngu, Njinkeng	Sklar, Michael
Chan, Stephen	Nurmohamed, Aliya	Siddiqui, Asad
Elman, Joel	Padzik, Jan	Siu, Eric
Goldmacher, Jesse	Roy, Debashis	Tse, Andrew
Ladowski, Stephanie	Salmikivi, Lance	Van Orman, Jordan
Lam, Thach	Sellings, Laurie	Vorobeichik, Leon

PGY2

Aflaki, Sena	Garg, Nitin	Sankar, Ashwin
Bell, Joshua	Han, Jay	Sarhan, Mazin
Bopardikar, Ameya	Meng, Howard	Sawicki, Christian
Brown, Tyler	Oyberman, Inna	Sivananthan, Lavarnan
Gomez, Luis	Parajian, Talar	Toguri, Clare
Choi, Diana	Rotstein, Alexandra	Turnock, Matthew
Clivatti, Jefferson	Salvatori, Marcus	Wong, Eric

PGY1

Al Mandhari, Maha	Goel, Akash	O'Brien, Michael
Al Sulaimi, Jawaher	He, David	Patel, Shiel
Chen, Ewen	Heffernan, Spencer	Schwindt, Graeme
Cox, Gemma	Ismail, Nada	Sharma, Soniya
DesRoches, Jaclyn	Jivraj, Naheed	Zhang, Edward
Esmail, Tariq	Kothari, Rohan	Zhou, Cheng
Ferreira de Oliveira, Katia	MacLean, David	

RESIDENTS 2016 -2017

PGY5

Andrawes, Maged	Law, Tyler	Suen, Alexander
Boulis, Sherif Refaat	Lee, Kenneth	Thakrar, Dipen
Cummings, Theresa	Levin, David	Valeeva, Liliya
Dinsmore, Michael	Li, Melinda	Van Haften, Timothy
Dube, Rebecca	Miller, Marcus	Van Orman, Jordan
Duncan, Dallas	Noyahr, Lori-Anne	White, Alexander
Goldenberg, Neil	Peacock, Sharon	Wiegelmann, Julian
Khan, James	Perez D'Empaire, Pablo	Yu Savio
Koziak, Adrian	Petre, Maria-Alexandra	
Lam, Karen	Steinberg, Benjamin	

PGY4

Bartoszek, Justyna	Lam, Thach	Sharma, Richa
Bragg, Susan	Lane, Sophia	Sklar, Michael
Chan, Stephen	Nkemngu, Ninkeng	Siddiqui, Asad
Clivatti, Jefferson	Nurmohamed, Aliya	Siu, Eric
Elman, Joe	Padzik, Jan	Tse, Andrew
Goldmacher, Jesse	Roy, Debashis	Vorobeichik, Leon
Ladowski, Stephanie	Salmikivi, Lance	

PGY3

Aflaki, Sena	Han, Jay	Sankar, Ashwin
Bell, Joshu	Howerd, Meng	Sarhan, Mazin
Bopardikar, Ameya	Knight, Jeffrey	Sawicki, Christian
Brown, Tyler	Oyberman, Inna	Sivanathan, Lavarnan
Chaparro Gomez, Luis	Parajian, Talar	Toguri, Clare
Choi, Diana	Rotstein, Alexandra	Turnock, Matthew
Gerg, Nitán	Salvatori, Marcus	Wong, Eric

PGY2

Al Mandhari, Maha	Goel, Akash	O'Brien, Michael
Al Sulaimi, Jawaher	He, David	Patel, Shiel
Chen, Ewen	Heffernan, Spencer	Sharma, Soniya
Cox, Gemma	Ismaiel, Nada	Zhang, Edward
DesRoches, Jaclyn	Jivraj, Naheed	Zhou, Cheng
Esmail, Tariq	Kothari, Rohan	
Ferreirade Oliveira, Katia	MacLean, David	

PGY1

Al-Neamy, Mohammad	Lee, Aidan	Singh, Devin
Al-Shuraim, Farah	Meng, Zhen	Su, Haitong
Busuttil, Alia	Pankiv, Evelina	Taras, Jillian
Charles, Christopher	Purza, Razvan	White, Ulyse Carl
Fan, Dongning	Quan, Yi	Wong, Kelvin
Holowachuk, Spencer	Ragoonanan, Tenille	Yang, Michael
Kamel, Rami	Ricci, Michael	

PAIN MEDICINE RESIDENCY PROGRAM

Report from Dr. John Hanlon

DIRECTOR, PAIN MEDICINE RESIDENCY PROGRAM

It has been an exciting and busy year for the Pain Medicine sub-specialty residency. July 2016 will mark our official residency start date when we welcome two FRCPC trained physicians into our program and much of our work over the last 12 months has been to prepare for their entry.

Both incoming trainees are Toronto graduates who have demonstrated a longstanding commitment to practicing comprehensive pain medicine. Dr. Ehtesham Baig recently obtained his FRCPC certification in Anesthesiology and Dr. Najam Mian recently obtained his FRCPC certification in Physiatry. Over the next two years, the residency will provide them with intensive multidisciplinary training necessary to become experts in the prevention, diagnosis, treatment and rehabilitation of the spectrum of acute pain, cancer pain and non-cancer pain problems.



As with any multi-specialty residency, there will be significant variation in the baseline knowledge and skills of the trainees entering the Pain Medicine residency. In order to support our diverse learners, we developed and will host the inaugural U of T “Pain Medicine Ground School”, an intensive two-day course with didactic sessions, case based learning and hands-on physical exam teaching. In an effort to build overall capacity in pain medicine, we also invited all chronic pain fellows from across the U of T hospital to attend

The University of Toronto Pain Medicine residency program is well positioned to become the national leader in pain medicine education. We have also reached agreement with other participating Universities to deliver quarterly national webconference learning events focusing the non-medical expert roles as a collaborative effort between all active programs. As shown in the accompanying screenshot of Pain Medicine residents across the country, we are planning on using webconference platforms allows us to connect trainees from coast-to-coast and leverage resources to overcome many of the challenges inherent to new and small residency programs.

In Toronto we are fortunate to have many national and international leaders in Pain Medicine. Together we have developed an unparalleled comprehensive didactic curriculum. In the spirit of building national and international capacity, our Pain Medicine residents plan to invite all Toronto Pain fellows to attend the didactic teaching curriculum in person and via webconference. We believe this inclusive approach improves the learning experience for our Pain Medicine residents and is more rewarding for the instructors. It also supports important networking that we believe will translate into an ongoing community of practice for the participants.

Chronic Pain affects over 15% of Canadians. As of July 2016 there will be seven Pain Medicine residency spots across the country, which is woefully inadequate to meet our societal need. We continue our efforts lobbying the Post Graduate Medical Education office, the respective provincial ministries and the RCPSC. Our goal is to increase training spots to build capacity and reach the critical mass of well-rounded pain physicians capable of leading the medical community’s response to inadequately treated chronic pain and an ongoing opioid crisis.

Like other fledgling residency programs, Pain Medicine initially existed outside of the Canadian Residency Matching System (CaRMS), but for our upcoming application cycle we were able to successfully lobby the National Committee of Post Graduate Deans to allow Pain Medicine into the CaRMS program. This will allow for a smooth and transparent application cycle that will be completed in November 2016.

The backbone of every successful residency training program is the administrative support. We thank Jennifer Morris for her ongoing hard work and experience in supporting the training program and our learners. We are also very fortunate to have a truly multidisciplinary Residency Program Committee (RPC) full of passionate leaders within their own specialties. This committee will oversee all aspects of the pain medicine residency with

representation from nine Departments and Programs within the Faculty of Medicine. Together, with our teaching faculty, these dedicated clinicians will be our greatest resource. We thank them all for their ongoing time and dedication as we prepare to train the future Pain Medicine leaders of Canada.



PICTURE CAPTION: Screenshot captures Pain Medicine trainees and faculty across the country sharing a laugh while participating in a web-conferenced curriculum needs- assessment.

FELLOWSHIP PROGRAM

Report from Dr. Doreen Yee

DIRECTOR, *FELLOWSHIP PROGRAMS*

Fellowship positions across the six fully affiliated teaching hospitals continue to be very popular among both Canadian and international trainees. The subspecialty positions tend to fill up first, although the Advanced Clinical Practice positions are ideal for some who wish to consolidate their practice skills after finishing their residency. Some places are accepting people 2 years in advance.

Although not all fellowships have a research component, most fellows have an opportunity to do some kind of research work with a mentor. Productivity ranges from book chapters, articles in peer-reviewed journals, to presentations at meetings. This was evidenced by the fact that more than half of the oral presentations and over 40% of the abstract presentations at Shields Day were presented by fellows. Dr.

Giulia Marie Ruggeri won the Dr. R J Byrick Award for the Best Fellow's Research paper presentation at the 38th Annual Shields Research Day. A number of these went on to be presented at the annual CAS meeting the following month, as well as at other national and international meetings. Drs. Papu Nath and Ushma Shah won the best paper awards for the Ambulatory Anesthesia and Pediatrics categories at the CAS meeting in Vancouver in June 2016. The following year Dr. Elyana Wohl won the best Neuroanesthesia paper in Niagara Falls.



There are also numerous opportunities for educational activities. Fellows were once again involved in Undergraduate teaching as workshop station leaders at the now annual Anesthesia Interest Group (AIG) evening organized by Dr. Diana Tamir. The stations included teaching demonstration of airway skills, ultrasound visualization of nerves and vessels, and neuraxial techniques, to name a few. It was an exciting opportunity for teaching and interaction between fellows, residents and medical students. For those interested in simulation in education, there was ample opportunity to run simulation sessions for both resident and medical student teaching. A handful of fellows pursue concurrent Master's programs in Education, Global Health, or other related areas. There was even one fellow with a multi-year CIHR fellowship grant doing a PhD in Clinical Epidemiology.

The "fellowship experience" extends beyond the subspecialty work for many. It is a time for most to transition to a consultant anesthesiologist with graduated professional independence, surrounded by peers, role models and mentors. Life-long friendships are initiated between people "placed in a common situation". A few fellows wrote articles about their year, and both concluded that it was an extremely worthwhile experience, particularly in hindsight!

The Professor's Rounds for fellows continue to be a success, and draws out 20-40 fellows monthly. Our faculty experts gave nine talks across a wide variety of topics over the academic year.

PROFESSORS' ROUNDS FOR FELLOWS 2015-2016

DATE	SPEAKER	TOPIC
September 29, 2015	Dr. Scott Beattie	Facing an Uncomfortable Truth - The Choice of Your Anesthesiologist does make a difference!
October 19, 2015	Dr. Hannah Wunsch	Use of Intensive Care After Surgery –International Comparisons!
November 20, 2015	Dr. Mark Warner	How Future Technology Advances Will Improve Perioperative Safety
January 25, 2016	Dr. Brian Kavanagh	How Mechanical Ventilation Injures Lungs
February 16, 2016	Dr. Cengiz Karsli	Pediatric Airway Management: The Basics and Beyond
March 21, 2016	Dr. Beverley Orser	Delirium: The Role of Anesthetics and Potential Treatments
April 18, 2016	Dr. Andrew Baker	Neuroscience Research in Anesthesia
May 16, 2016	Dr. Keyvan Karkouti	What's new in point-of-care testing and transfusion in cardiac surgery
June 6, 2016	Dr. Frances Chung	Patients with Morbid Obesity: A Clinical Challenge for Anesthesiologists

ANESTHESIA FELLOWS 2015-2016

The Hospital for Sick Children

Kazuyoshi Aoyama
 Vannessa Chin
 Jeffrey Keilman
 Mandy Lam
 Anne-Marie Leo
 Sylvain Mauron
 Mark McVey
 Solmaz Nakhjavani
 Papu Nath

Diego Neuhaus
 Erika Nguyen
 Pavithra Pasupathy
 Pablo Rossi
 Ushma Shah
 Michael Tan
 Ohood Abdullatif Tulbah
 Silky Wong

Mount Sinai Hospital

Sameh Abdelghany
 Hala Baithoun
 Nicholas Barrett
 Ricardo Bittencourt
 Denis Correa
 Chameli Deb
 Marcelo Epsztein Kanczuk
 Naguib Farag

David Flamer
 Lilia Fung
 Kushlin Higgin
 Maria de Lourdes Espinosa Perez
 Andre Schneider
 Ramakrishna Vyakernam
 Paul Zakus

St. Michael's Hospital

Khaled Alrashedi	Thomas Kriz
Maya Contreras	Matthew Lee
Ahmed Mazen Elwishi	Yevheniy Leshchyshyn
Deepak Hanumanthaiah	Niamh McAuliffe
Paul Henry	Andrea Petropolis
Adam Hicks	Lindsay Taam
Melissa Ho	Kacey Williams
Andrew Jorgensen	Michael Woloszyk
Barry Kelly	Taylor Zhou
Mumtaz Khan	Haibei Zhu

Sunnybrook Health Sciences Centre

Janis Ferns	William Rutherford
Grace Kong	Joel Shapiro
Xi Lisa Li	Marietjie Slabbert
Thiago Moreira	Alison Tedder
Mahesh Palanisamy	Catherine Traill
Ryan Perlman	Scott Wu
Thiago Fernandes Ribeiro	

UHN - Toronto General Hospital

Gabriela Alcaraz Garcia Tejedor	Vina Meliana
Saptashree Melissa Basu	Mahesh Palanisamy
Robert Bechamp	Li Khai Daniel Phang
Abhijit Biswas	Reva Ramlogan
Melissa Brockerville	Rajendra Kumar Sahoo
Diana Catalina Casas Lopez	Herman Sehmbi
Kariem El-Boghdadly	Veena Sheshadri
Najia Hasan	Anthony Short
Narendra Kumar	Yamini Subramani
Siaw May Leong	Akhilesh Tiwari
Bo-Feng Lin	Tze Yeng Yeoh

UHN - Toronto Western Hospital

Rohit Vijay Agrawal	Denver Glasgow
Gabriela Alcaraz Garcia Tejedor	Lindsay Hurlburt
Bilal Ansari	Karim Ladha
Rafael Arboleda	Lei Lei
Adam Badenoch	Helen Lindsay

Vaughan Bertram
 Carl Brown
 Su Pin Hazel Chan
 Stuart Cleland
 Davide Corbella
 Carlos Corredor
 Florin Costescu
 David Dao
 Tawona Dhlakama

Carla Andrea Luzzi
 Marcelo Amancio Nicora Villamayor
 David Orlov
 Daniel Sellers
 Danielle Shafiepour
 Branislav Telgarsky
 Kevin Yee
 Jian Zhou

PROFESSORS' ROUNDS FOR FELLOWS 2016-2017

DATE	SPEAKER	TOPIC
September 26, 2016	Dr. Peter Slinger	Anesthesia For Patient With Severe Lung Disease
November 7, 2016	Drs. Terri Skelton & Ian Randall	Global Health – How Anesthesiologists Can Contribute
December 5, 2016	Dr. Vincent Chan	Does Regional Anesthesia Affect Functional Outcomes After Major Surgery?
January 23, 2017	Dr. Pirjo Manninen	Outpatient Neurosurgery! What Next?
February 13, 2017	Dr. Lakshmi Venkatraghavan	A Novel Brain Stress Test For Assessing Cerebrovascular Reserve
March 27, 2017	Dr. Richard Cooper	My Laryngoscopy Failed! What Now?
April 24, 2017	Dr. Beverley Orser	Restoring Memory in the Postoperative Period
May 29, 2017	Dr. Stuart Mccluskey	Enhanced Recovery after Surgery at the University Of Toronto Hospitals: Structure, Process and Outcome Measurements

ANESTHESIA FELLOWS 2016-2017

The Hospital for Sick Children

Gabriela Alcaraz Garcia-Tejedor	Amanda Mary Jasudavisius
Talal Eed H Aljuhani	Solmaz Nakhjavani
Mary Claire Julia Avanis	Diego Neuhaus
Baljoet Singh Bhangoo	Erika Thuy-Ha Nguyen
Abhijit Biswas	Benjamin Joseph O'Sullivan
Danelle Glenice Dower	Pablo Ignacio Rossi
Yvonne Mary Doyle	Ushma Jitendra Shah
Gaston Rodrigo Echaniz Barbero	Naiyi Sun
David Faraoni	Michael Richard Guan Seng Tan
David Earle Goodick	Ohood Abdullatif Sulaiman Tulbah

Mount Sinai Hospital

Sameh Mohammed Abdelghany	Heddy Jennifer Guevara Velandia
Sadiq Abdulla	Jeske Adriana Hakse
Ibukunoluwapo O M Adedugbe	Ashok Kumar Jayaraj
Hala Mumtaz Daoud Baithoun	Yusuke Mazda
Ricardo Bittencourt	Jorge Mario Mejia Kattah
Juliana Caicedo Salazar	Aidan Michael Sharkey
Ronald De Albuquerque Lima	Barry George Thorneloe
Chameli Deb	Ramakrishna Vyakernam
Maria Lourdes Espinosa Perez	Paul Gerard Harry Zakus

St. Michael's Hospital

Andrew Gene Allenby	Matthew Wai Kei Lee
Matthew John Beech	Alessandra Paola Lombardo
Amir Reza Bouzari	Farah Naaz Manji
Claire Diana Burrows	Thiago Appoloni Moreira
Filipe Nadir Caparica Santos	Stuart Alistair Nicholson
Tarek Terry Chbat	Graham Bruce Noble
Stephanie Pei Pei Chen	Laura Regina Rodriguez Arias
Jaclyn Gilbert	David Sussman
Sameer Najeeb Hanna-Jumma	Kacey Nicole Williams
Adam John Hicks	Haibei Zhu
Thomas Adam Kriz	

Sunnybrook Health Sciences Centre

Timothy Aaron Donaldson	Thiago Fernandes Ribeiro
Janis Mei Ferns	Joel Michael Shapiro
Yehoshua Gleicher	Marietjie Slabbert
Ine Gruyters	Catherine Eileen Traill
Kalyna Harasymiv	Hawn Trinh
Darryl Nolan Hoffer	Lisa Erin Webb
Richard Alan Lam	Scott Yu -Chun Wu
Sharon Peacock	

UHN - Toronto General Hospital

Bilal Mustafa Ansari	Helen Agnes Lindsay
Rafael Arboleda Salazar	Nathan Scott Ludwig
Adam David Badenoch	Carla Andrea Luzzi
Ari Shmuel Balofsky	Robert Charles Mcmonnies
Mahder Kiefe Baraki	Alex Mu
Jodie Anne Beuth	Kiritpaul Singh Nandra

Carl Andrew Mikolai Brown	Judith Lyn-Marie Nicholls
Tez Venetta Shevannese Brown-Cotterell	Marcelo Amancio Nicora Villamayor
Davide Corbella	Ravi Raj
Carlos Mauricio Corredor Rosero	Giulia Maria Ruggeri
Florin Costescu	Daniel Sellers
Joanna Kay Gordon	Farrukh Suhail
Alexander Francis Huang	Ainsley Mary Sutherland
Carlos Alberto Ibarra Moreno	Tarik Timoumi
Karim Shiraz Ladha	Michael James Tylee
Weishan Delice Lee	Yoshiaki Uda

UHN - Toronto Western Hospital

Sujoy Banik	Matthew Ronald Miller
Saptashree Melissa Basu	Bahadur Khan Niazi
Melissa Ann Brockerville	Mahesh Palanisamy
Amelie Dallaire	Daniel Phang Li Khai
Kariem El-Boghdadly	Nathan Peter Royan
Kapil Gupta	Matthew Jacob Sheppard
Khawaja Rashid Hafeez	Anthony James Short
Najia Hasan	Ranvir Singh
Ashutosh Joshi	Chandrasekaran Subramanian
Bo-Feng Lin	Carla Todaro
Monica Hue Yee Liu	Anita Van Domselaar
Gianni Roberto Lorello	Kim James Wild
Poorna Madhusudan	Elyana Renee Wohl
Laith Mazen Malhas	Li Xu
Vina Meliana	

Multi-Site Fellowship

Jennifer Kelly Mcdonald
Rajendra Kumar Sahoo

FAMILY PRACTICE ANESTHESIA

Report from Dr. Henderson Lee

DIRECTOR, *FAMILY PRACTICE ANESTHESIA PROGRAMS*

Curriculum

The curriculum for the FPA Residents remains the same, with the FPA Residents rotating through:

- Toronto East General Hospital
- Mount Sinai Hospital
- The Hospital for Sick Children
- North York General Hospital – ICU
- Port Perry Hospital or Orangeville Hospital (rural Anesthesia)



Intensive Care Unit (ICU) Rotation:

The ICU rotation was re-introduced to the FPA Residency Program (4-weeks) in the 2014/2015 academic year in order to have the FPA Residents get dedicated clinical time and teaching with regards to managing critically ill patients. The FPA residents are now rotating through North York General Hospital (NYGH) ICU for their 4-week block. The ICU rotation has been warmly received by the FPA Residents. The FPA Residents are exposed to various critically ill patients during the ICU rotation. This experience has been very useful for their future clinical practice since many of their Emergency Medicine Room Physician colleagues often consult Family Practice Anesthetists for their expertise in managing the airway, inserting invasive lines and stabilizing critically ill patients that arrive in rural/smaller hospital Emergency Rooms.

Orangeville Hospital:

Orangeville Hospital has been added as a second rural site for the FPA Residency Program starting this academic year in order to provide an alternate site for rural Anesthesia. Dr. Rickesh Sood, FPA (and previous graduate of the University of Toronto FPA Residency Program) will be the Resident Coordinator, in charge of their education and clinical experience at Orangeville Hospital.

All of the FPA residents successfully completed their FPA Residency training and all of them are currently working in smaller/rural hospitals providing Anesthesia for their communities, such as Simcoe ON, Arnprior ON, Port Perry ON, Hanover ON

Internal Review

The FPA Residency Program underwent an Internal Review conducted by the Department of Family and Community Medicine (DFCM) at the University of Toronto. The Internal Review was conducted in September 2016.

The Internal Review Committee consisted of three reviewers. The reviewers were very happy with the curriculum, the administration of the Program, the enthusiastic teachers, engaged/enthusiastic FPA RPC, established CanMEDS-FM roles (well defined) in the Goals/Objectives.

A full report was written and given to the FPA Residency Program. Overall, the reviewers were very happy with the Administration, Structure, Curriculum as well as the evaluation process (CanMEDS-FM format) for the trainees. Numerous strengths were highlighted however a few weaknesses were noted.

The FPA Residency Program made some changes to address the weaknesses identified in the report from the Internal Review. The changes were implemented and the Internal Review Committee was happy with the changes implemented. The DFCM gave the FPA Residency Program full accreditation.

Family Practice Anesthesia Residents

2015/2016

- Dr. Adrian Bruno
- Dr. Wesley Eby
- Dr. Hang Shi
- Dr. Ilana Winrob

2016/2017

- Dr. Victoria Squissato
- Dr. Susan Zhu

ELEARNING & TECHNOLOGICAL INNOVATIONS

Report from Dr. Clyde Matava

DIRECTOR, *ELEARNING AND TECHNOLOGICAL AND INNOVATIONS*

The eLearning and Technological Innovations Program has collaborated with Dr Ahstham Niazi (UME) to create the new content for the UME students.



iBook

The Anesthesia Clerkship Manual iBook was launched to help improve the experience of medical students rotating through anesthesia. This self-study iBook was created from the pre-existing paper based clerkship manual. The iBook features interactivity designed to assist with learning for the medical student rotating through anesthesia.

The new Anesthesia Clerkship Manual features an introduction to anesthesia, key topics and uses illustrations and other key graphical elements to enhance understanding. The iBook incorporates advanced interaction technology that creates study notes and cards as a student highlights text. This iBook brings a new sophistication not previously seen to our undergraduate medical education curriculum and pedagogy. The iBook is available for free.

The iBook was developed as a new eLearning Technology innovative effort under the Department of Anesthesia, University of Toronto.

eModules

eModules previously developed in 2013 were updated to the a new and modern look. These eModules offer great interaction, visuals to the end-user. A total of six eModules have been updated. Collaborators on the creation of the eModules were Drs Marjan Jariani, Isabella Devito, Carol Loefflemann, Mital Joshi, Ahstham Niazi, Diana Tamir. In addition, emodules designed by Dr Sharon Davies have all be updated and are now available in the format.



FACULTY DEVELOPMENT

Report from Dr. Vincent Chan

DIRECTOR, FACULTY DEVELOPMENT PROGRAMS

Our aim is to plan and implement various program-related initiatives to facilitate the development of our faculty as clinical teachers and educators and impart upon them knowledge and skills to fulfill multiple roles and responsibilities expected of physicians in academic medicine including but not limited to teaching, career planning, leadership and academic promotion.



Faculty Development Day 2015

The annual Faculty Development Day was held on November 11, 2015 at the Chestnut Hotel and Conference Centre in downtown Toronto. This was the first joint meeting with Department of Surgery with nearly 200 faculty staff in attendance. The goals of Faculty Development Day are to showcase and create opportunities for networking, learning and collaborations around faculty development in the Department of Anesthesia, Department of Surgery, and the University of Toronto system; to provide a platform to present research and innovations in the field of Education or Creative Professional Activities; and to recognize teaching excellence.

Dr. Brian Hodges, Vice President, Education, University Health Network gave the keynote presentation entitled “Transformation: Learners, teachers & 21st century health professional curricula.” Dr. Hodges explored the history of models of competence and examined three domains that are likely to require specific attention in the 21st Century. They are: knowledge and its evolution, skills and the ability to perform and identify, and the ability to work in teams.

This was followed by small group workshop sessions on the following topics:

- Clinical supervision in acute care environments. Balancing patient care and teaching. (Dominique Piquette)
- Collegial conflict: Who do I think you are? (Nancy McNaughton)
- Team Communication in the Operating Room: Is there a chill in the air? (Isabella Devito, Anita Sarmah)
- Time Management for the busy physician in the Connected Era: Apps for that! (Guy Petroz)
- Making learning stick: teaching for understanding, retention and application. (Beiseida Mema and A. Kawamura)
- Quality Improvement: increasing communication and cooperation in undertaking quality initiatives in the operating room (Robin McLeod, Stuart McCluskey)
- Effective mentorship (Ori Rotstein and Paul Grieg)
- Teaching technical skills and incorporating an assessment process (Ron Levine and Oleg Safir)
- Negotiations, taxes, incorporation and financial considerations for surgeons and anesthesiologists starting in practice (Barry Rubin)
- Late career transitioning. (Terry Axelrod and George Christakis)
- Social media in medical education: (Farhad Alam, Karen Devon, Jerry Maniate & Taylor Zhou)

Faculty Development Day 2016

The annual Faculty Development Day was held on November 11, 2016 at the Chestnut Hotel and Conference Centre in downtown Toronto.

For 2016, the theme was Competency Based Medical Education and Assessment and the following topics were addressed - Introduction to CBME Concept, Defining the Process and Challenges of Implementation, Lessons Learnt from CBME Implementation - the Orthopedic Perspectives and Anesthesia Program Perspectives. The event was again held jointly with Department of Surgery and faculty turnout was excellent with close to 200 faculty staff participating in the event.

Following the plenary session, a selection of small group interactive workshops were offered, as listed below:

- Competency By Design (Susan Glover Takahashi, Lisa Bahrey, Scott Berry, Paolo Campisi, Rebecca Dubé and Markku Nousiainen)
- New Technology: Apps and Medical Devices: Practical guidelines for medical educators and innovators (Clyde Matava)
- Social Media in Medical Education (Fahad Alam, Melinda Musgrave)
- Assisting Students in Difficulty - Residents & Undergraduates (George Christakis, Mark Levine, Ron Levine)
- Continuing Medical Education: How to Change Practice Behaviour Long Term (Terry Axelrod, Peter Slinger)
- Assessing Technical Skill Acquisition (Sandra de Montbrun, Zeev Friedman, Oleg Safir)
- Leadership and Strategy (Robin Richards)
- Mindfulness & Wellbeing (Christopher Trevelyan)
- Understanding the Promotion Process (Howard Clarke, Mark Crawford)
- Practical Tips to Success in Research (Andras Kapus, Beverly Orser)

Other events organized by the Faculty Development Committee

2015 - 2016

A Senior Promotions workshop was conducted to provide faculty more in depth knowledge about the promotion application process. Topics covered were 'Promotion Mindset' by Brian Kavanagh, 'Demonstrating National and International Impact of Research' by Kevan Karkouti, 'Preparing and Organizing the CPA Dossier' by Mark Crawford, 'Demonstrating Sustained Achievement in Teaching: Preparing the Dossier & Appendices' by Jeff Wassermann, and 'Demonstrating National / International Impact of CPA' by Brian Kavanagh.

2016 - 2017

A workshop on Developing Effective Online Modules for CBD Anesthesia was provided on March 27, 2017. This workshop was led by Clyde Matava, Director – eLearning and Technological Innovations, Department of Anesthesia. The objectives were to help learners to understand the underlying principles and theories and evidence supporting effective online module and review the anatomy of

effective e-modules and pitfalls.

A Senior Promotions workshop was conducted on April 3, 2017 to provide faculty more in depth knowledge about the promotion application process. Topics covered were: 'Timelines & Resources' by Wendy Kubasik, 'Promotion Mindset' by Brian Kavanagh, 'Demonstrating National and International Impact of Research' by Kevan Karkouti, 'Preparing and Organizing the CPA Dossier' by Beverley Orser, and 'Demonstrating Sustained Achievement in Teaching: Preparing the Dossier & Appendices' by Jeff Wassermann.

A faculty orientation workshop was conducted on June 12, 2017 to address Competency By Design (CBD) for the Anesthesia Residency Program. The learning objectives were to provide an overview of implementation of CBD process, to introduce University of Toronto CBD resident assessment process and assessment tools, to understand the principles and process of the Competence Committee, and to understand the role of faculty feedback in CBD assessment of learning and for learning.

CONTINUING EDUCATION

Report from Dr. Peter Slinger

DIRECTOR, CE/CPD PROGRAMS

The Continuing Education Committee for the Department of Anesthesia is comprised of representatives from each of the teaching hospitals as well as directors of CE courses and community hospital representatives. The committee meets four times per year to discuss, plan and organize a number of continuing education initiatives. Among the primary goals of the committee is to ensure that most CE activities qualify for University of Toronto sponsorship and are accredited learning activities.



Course Development

The committee supervises the Toronto Interactive Anesthesia Meeting under the direction of Dr. Adriaan Van Rensburg. This two-day course provides a combination of lectures, workshops and problem-based learning discussions for both fellowship anesthesiologists and GP anesthetists.

Course Sponsorship

The CE Committee aids in the development and accreditation of ongoing CE courses produced by anesthesia faculty at the University of Toronto.

Web-Based Learning:

1. CME Online Anesthesia Rounds

Developed by Sharon Davies (MSH), this program has been enlarged to include 15 educational modules. These modules have been accredited by the University of Toronto CEPD Department for Section 3 RCPSC credits. In 2014, 987 modules were completed by 451 participants. These modules can be currently accessed through and archived version of the U of T Department of Anesthesia website at <http://www.anesthesia.webservices.utoronto.ca/edu/cme/courses.htm>

2. Perioperative Interactive Education

The Department of Anesthesia at Toronto General Hospital has developed an online medical education program with teaching modules that include: Patient Simulation, Cardiac Anesthesiology, CV Pharmacology, Malignant Hyperthermia, Obstetric Anesthesia, Point of Care Ultrasound, and Transesophageal Echocardiography. Modules can be found at www.pie.med.utoronto.ca

3. Web-Based Bronchoscopy Simulator

The Thoracic Anesthesia group of the Toronto General Hospital has created an online bronchoscopy simulator to improve Anesthesiologist's skills in providing lung isolation for thoracic anesthesia by learning bronchial anatomy. The Simulator and Quiz can be accessed on the website www.ThoracicAnesthesia.com

ANNUAL SHIELDS RESEARCH DAY 2016

Report from Dr. Zeev Friedman

CHAIR, ANNUAL SHIELDS RESEARCH DAY

The 37th Annual Research in Progress Shields Day was held this year before the usual full house. Cutting edge innovative research projects were presented by the department trainees. Over 80 abstracts were submitted this year. These were scored by an abstract committee with the top 21 presented in the oral presentation sessions. Thirty six moderated poster sessions took place for the first time this year and were conducted throughout the day with the presenters available for discussion and questions about their projects.



The Annual Shield Day lecture was given by Annual Shields Lecture titled “Perioperative application of long-duration opioids” was given by Dr. Evan D. Kharasch. It highlighted new insights regarding opioid treatment gained through decades of opioid pharmacology study. This was followed by the “Anesthesia in the News lecture”. It was presented by Dr. Jason Maynes: “Converting knowledge to patient care: developing personal therapies for heart disease” .

The day was concluded with the award presentation in which 10 awards were handed for different areas of excellence including clinical excellence, teaching and research as well as trainees travel awards and awards for the winning presentations.

I’d like to thank the anesthesia department staff for their hard work in organizing this day and making it the success it is. We all enjoyed the day and no one went home hungry either. See you at the 38th Annual Shields Research Day.

PEER-REVIEWED AND NON PEER-REVIEWED PUBLICATIONS

2015

A

Alakkad H, Krusselbrink R, Chin KJ, Niazi AU, Abbas S, Chan VW, Perlas A. Point-of-care ultrasound defines gastric content and changes the anesthetic management of elective surgical patients who have not followed fasting instructions: a prospective case series. *Canadian Journal of Anesthesia* 62(11):1188-1195, 2015

Arzola C, Mikhael R, Margarido C, Carvalho JC. Spinal ultrasound versus palpation for epidural catheter insertion in labour: A randomised controlled trial. *European Journal of Anesthesiology* 32(7):499-505, 2015

Arzola C, Perlas A, Siddiqui NT, Carvalho JC. Bedside Gastric Ultrasonography in Term Pregnant Women Before Elective Cesarean Delivery: A Prospective Cohort Study. *Anesthesia and Analgesia* 121(3):752-758, 2015

B

Baeriswyl M, Kirkham KR, Kern C, Albrecht E. The Analgesic Efficacy of Ultrasound-Guided Transversus Abdominis Plane Block in Adult Patients: A Meta-Analysis. *Anesthesia and Analgesia* 121(6):1640-1654, 2015

Beattie WS. Great Expectations: A Case for Expanded Clinical Investigation. *Anesthesia and Analgesia* 121(3):586-588, 2015

Bharadwaj S, Venkatraghavan L. Dexmedetomidine Sedation for WADA Test With Intracarotid Propofol in Pediatric Patients. *Journal of Neurosurgery and Anesthesiology* 27(4):352-353, 2015

Bharadwaj S, Venkatraghavan L. Beware of Changes in Intracranial Compliance During Cranioplasty. *Journal of Neurosurgery and Anesthesiology* (4):350-351, 2015

Bharadwaj S, Venkatraghavan L, Mariappan R, Ebinu J, Meng Y, Khan O, Tung T, Reyhani S, Bernstein M, Zadeh G. Serum lactate as a potential biomarker of non-glioma brain tumors. *Journal of Clinical Neuroscience* (10):1625-1627, 2015

Bhogal AA, Philippens ME, Siero JC, Fisher JA, Petersen ET, Luijten PR, Hoogduin H. Examining the regional and cerebral depth-dependent BOLD cerebrovascular reactivity response at 7T. *NeuroImage* 114:239-248, 2015

Bandiera G, Abrahams C, Ruetalo M, Hanson M, Nickell L, Spadafora SM. Identifying and Promoting Best Practices in Residency Application and Selection in a Complex Academic Health Network. *Academic Medicine* (12):1594-1601, 2015

Boulis S, Khanduja PK, Downey K, Friedman Z. Substance abuse: a national survey of Canadian residency program directors and site chiefs at university-affiliated anesthesia departments. *Canadian Journal of Anesthesia* 62(9):964-971, 2015

C

Canet J, Sabaté S, Mazo V, Gallart L, de Abreu MG, Belda J, Langeron O, Hoefl A, Pelosi P, PERISCOPE group. Development and validation of a score to predict postoperative respiratory failure in a multicentre European cohort: A prospective, observational study. *European Journal of Anaesthesiology* 32(7):458-470, 2015

Clarke H, Pagé G, McCartney C, Huang A, Stratford P, Andrion J, Kennedy D, Awad IT, Gollish J, Katz J. Pregabalin reduces postoperative opioid consumption and pain for 1 week post hospital discharge, but not function at 6 weeks or 3 months after total hip arthroplasty. *British Journal of Anesthesia* 115(6):903-911, 2015

Cruz Eng H, Riazi S, Veillette C, Ami N, Niazi AU, Chin KJ, Chan V, Perlas A. Early discharge and ambulatory continuous brachial plexus analgesia is a cost-effective alternative to standard inpatient care following complex arthroscopic elbow surgery. *Anesthesiology* 123(6):1256-1266, 2015

D

Duffin J, Sobczyk O, Crawley AP, Poublanc J, Mikulis DJ, Fisher JA. The dynamics of cerebrovascular reactivity shown with transfer function analysis. *NeuroImage* 114:207-216, 2015

Dwyer T, Henry PDG, Cholvisudhi P, Chan VWS, Theodoropoulos JS, Brull R. Neurological Complications Related to Elective Orthopedic Surgery: Part 1: Common Shoulder and Elbow Procedures. *Regional Anesthesia and Pain Medicine* 40(5):431-442, 2015

F

Fedoruk K, Chong K, Sermer M, Carvalho JC. Anesthetic management of a parturient with hypermobility phenotype but possible vascular genotype Ehlers-Danlos syndrome. *Canadian Journal of Anesthesia* 62(12):1308-1312, 2015

Fitzgerald P, Lo C, Li M, Gagliese L, Zimmermann C, Rodin G. The relationship between depression and physical symptom burden in advanced cancer. *BMJ Supportive and Palliative Care* 5(4):381-388, 2015

Friedman Z, Hayter MA, Everett TC, Matava CT, Noble LM, Bould MD. Power and conflict: the effect of a superior's interpersonal behaviour on trainees' ability to challenge authority during a simulated airway emergency. *Anaesthesia* 70(10):1119-1129, 2015

G

Gheihman G, Zimmermann C, Deckert A, Fitzgerald P, Mischitelle A, Rydall A, Schimmer A, Gagliese L, Lo C, Rodin G. Depression and hopelessness in patients with acute leukemia: the psychological impact of an acute and life-threatening disorder. *Psychooncology* 2015

Ghosh SM, Madjdpour C, Chin KJ. Ultrasound-guided central neuraxial blockade. *British Journal of Anaesthesia Education* 2015

Govshievich A, Kirkham K, Brull R, Brown M. Novel approach to intractable pectoralis major muscle spasms following submuscular expander-implant breast reconstruction. *Plastic Surgery Case Studies* 1(3):68-70, 2015

Greher M, Moriggl B, Peng P, Minella CE, Zacchino, Eichenberger U. Ultrasound-Guided Approach for L5 Dorsal Ramus Block and Fluoroscopic Evaluation in Unpreselected Cadavers. *Regional Anesthesia and Pain Medicine* 40(6):713-717, 2015

H

Holtzman S, Clarke HA, McCluskey SA, Turcotte K, Grant D, Katz J. Acute and chronic postsurgical pain after living liver donation: Incidence and predictors. *Liver Transplantation, Author reply* 21(8):1110-1111, 2015

J

Jerath A, Ferguson ND, Steel A, Wijeyesundera D, Macdonald J, Wąsowicz M. The use of volatile anesthetic agents for long-term critical care sedation (VALTS): study protocol for a pilot randomized controlled trial. *Trials* 16(1):560, 2015

K

Katz J, Weinrib A, Fashler SR, Katznelson R, Shah BR, Ladak SS, Jiang J, Li Q, McMillan K, Mina DS, Wentlandt K, McRae K, Tamir D, Lyn S, de Perrot M, Rao V, Grant D, Roche-Nagle G, Cleary SP, Hofer SO, Gilbert R, Wijeyesundera DN, Ritvo P, Janmohamed T, O'Leary G, Clarke H. The Toronto General Hospital Transitional Pain Service: development and implementation of a multidisciplinary program to prevent chronic postsurgical pain. *Journal of Pain Research* 8:695-702, 2015

Katznelson R, Fisher JA. Fast wake-up in obese patients: Which anesthetic is best? *Canadian Journal of Anesthesia* 62(8):847-851, 2015

Kirkham KR, Wijeyesundera DN, Pendrith C, Ng R, Tu JV, Laupacis A, Schull MJ, Levinson W, Bhatia RS. Preoperative testing before low-risk surgical procedures. *Canadian Medical Association Journal* 187(11):E349-358, 2015

Kraeva N, Heytens L, Jungbluth H, Treves S, Voermans N, Kamsteeg E, Ceuterick-de Groote C, Baets J, Riazi S. Compound RYR1 heterozygosity resulting in a complex phenotype of malignant hyperthermia susceptibility and a core myopathy. *Neuromuscular Disorders* 25(7):567-576, 2015

L

Leslie K, Myles PS, Kasza J, Forbes A, Peyton PJ, Chan MT, Paech MJ, Sessler DI, Beattie WS, Devereaux PJ, Wallace S. Nitrous Oxide and Serious Long-term Morbidity and Mortality in the Evaluation of Nitrous Oxide in the Gas Mixture for Anaesthesia (ENIGMA)-II Trial. *Anesthesiology* 123(6):1267-1280, 2015

M

Mariappan R, Metha J, Massicotte E, Nagappa M, Manninen P, Venkatraghavan L. Effect of superficial cervical plexus block on postoperative quality of recovery after anterior cervical discectomy and fusion: a randomized controlled trial. *Canadian Journal of Anesthesia* 62(8):883-890, 2015

Marseu K, Slinger P. Pulmonary Dysfunction and Protection. *Anaesthesia* 71(1):46-50, 2015

McIsaac D, Gershon A, Wijeyesundera DN, Bryson GL, Badner N, van Walraven C. Identifying obstructive sleep apnea in administrative data: A study of diagnostic accuracy. *Anesthesiology* 123(2):253-263, 2015

McLeod RS, Aarts MA, Chung F, Eskicioglu C, Forbes SS, Conn LG, McCluskey S, McKenzie M, Morningstar B, Nadler A, Okrainec A, Pearsall EA, Sawyer J, Siddiqui N, Wood T. Development of an Enhanced Recovery After Surgery Guideline and Implementation Strategy Based on the Knowledge-to-action Cycle. *Annals of Surgery* 262(6):1016-1025, 2015

Monks DT, Hoppe DW, Downey K, Shah V, Bernstein P, Carvalho JC. A Perioperative Course of Gabapentin Does Not Produce a Clinically Meaningful Improvement in Analgesia after Cesarean Delivery: A Randomized Controlled Trial. *Anesthesiology* 123(2):320-326, 2015

Mutch WA, Ellis MJ, Ryner LN, Ruth Graham M, Dufault B, Gregson B, Hall T, Bunge M, Essig M, Fisher JA, Duffin J, Mikulis DJ, for The Canada North Concussion Network, and for The University Health Network Cerebrovascular Reactivity Research Group. Brain magnetic resonance imaging CO2 stress testing in adolescent postconcussion syndrome. *Journal of Neurosurgery* 1-13, 2015

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